

**FIRST AMENDMENT TO CONTRACT NUMBER DA-5629 BETWEEN  
THE CITY OF LOS ANGELES AND VANDERLANDE INDUSTRIES, INC.  
FOR THE CONSTRUCTION OF THE BAGGAGE OPTIMIZATION PROJECT – 2  
AT LOS ANGELES INTERNATIONAL AIRPORT**

This **FIRST AMENDMENT TO CONTRACT DA-5629** (“**Amendment**”) is made and entered into as of this \_\_\_\_ day of \_\_\_\_\_, 2024 by and between the **CITY OF LOS ANGELES** (“**City**”), a municipal corporation, acting by order of and through its Board of Airport Commissioners (the “**Board**”) of the Department of Airports (also known as Los Angeles World Airports or “**LAWA**”) and **VANDERLANDE INDUSTRIES, INC.** (“**Design-Builder**”). The City and Design-Builder are collectively referred to herein as the “**Parties.**”

**RECITALS**

WHEREAS, City and Design-Builder entered into Los Angeles World Airports Contract Number DA-5629 (the “**Contract**”) for the construction of the project entitled Baggage Optimization Project – 2 (BOP-2)(hereinafter referred to as “**Project**”) at Los Angeles International Airport on April 24, 2023; and

WHEREAS, the Parties wish to amend the Contract to add the following eight (8) alternate Scopes of Work to the Project (by way of Exhibit PR-01A):

- (i) Operation Needs:
  - Reconfiguration of Ticket Counter (TC) 19 Conveyer to accommodate additional check-in counters
  - Addition of a Suspect Transfer (ST) 1 Conveyer as an induction belt into the Checked Bag Inspection System (“**CBIS**”) to rescreen baggage from non-domestic arriving flights
  - Addition of a Purge Line Conveyer to remove bags from the baggage handling system during irregular operations
  - Addition of a Domestic Recheck (DR) 1 Conveyer as a clear bag line from the new CBIS to interline baggage makeup at Terminal 4 for all domestic transfer bags
  
- (ii) Operational Enhancements:
  - Addition of a new Domestic Oversize Conveyer line to Level 1 for inbound oversize domestic baggage claim
  - Addition of a new International Oversize Conveyer line to Level 1 for inbound oversize international baggage claim

- (iii) Baggage Claim Resiliency
  - Addition of a 4<sup>th</sup> Individual Carrier System (“ICS”) loader with a 2<sup>nd</sup> ICS loop to increase baggage handling system throughput to 6,400 bags per hour
  - Installation of a new Domestic Bag Carousel Feed line to serve a future second domestic baggage claim device; and

WHEREAS, the Parties also wish to amend the Contract to add the pricing terms for the eight (8) Alternates Change Orders associated with the new alternates Scope of Work being added to the Contract by this Amendment (by way of Exhibit PR-12A); and

WHEREAS, the Parties wish to amend the contractual milestones as set forth in GC-46(A) of the Special Conditions of the Contract to address the new alternates Scope of Work added to the Scope of Work by this Amendment; and

WHEREAS, City wishes to amend the Contract to extend the from three (3) years to five (5) years; and

WHEREAS, City also wishes to increase the not-to-exceed amount of the Contract from One Hundred Seventy Nine Million Three Hundred Sixty Four Thousand Four Hundred and Five and 00/100 Dollars (\$179,364,405) to Two Hundred Thirty One Million Seven Hundred Seventy-Seven Thousand Five Hundred and Eighty-Three and 00/100 Dollars (\$231,777,583); and

NOW, THEREFORE, in consideration of the premises and of the terms, covenants and conditions hereinafter contained to be kept and performed by the respective parties hereto, the parties do mutually agree that the Contract is HEREBY AMENDED AS FOLLOWS:

### AMENDMENT

**Amendment Section 1.** Section 3.0 of the Contract titled “Term of Contract” shall be amended and restated in its entirety as follows:

Notwithstanding any other provision herein, the term of this Contract shall commence on the date of issuance by LAWA to Design-Builder of a NTP and expire no later than five (5) years from that date, and subject to other termination provisions contained within the Contract Documents. Design-Builder will be assessed Liquidated Damages as set forth in the Contract Documents if it fails to meet the milestones and or completion dates as outlined in the Contract Documents, consistent with the intent of the Contract Documents. The term of the Contract may be extended by the Board subject to approval by the Los Angeles City Council.

**Amendment Section 2.** Section 4.0 of the Contract titled “Contract Price” shall be amended and restated as follows:

For all labor, all materials, all equipment and all services rendered, for all costs direct or indirect, and for all expenses incurred by Design-Builder pursuant to this Contract, and upon satisfactory completion of said Project in a final finished form consistent with the intent of the Contract Documents, the Contract Price is Not-to-Exceed Two Hundred Thirty One Million Seven Hundred Seventy-Seven Thousand Five Hundred and Eighty-Three and 00/100 Dollars (\$231,777,583), pursuant to the Contract Documents, subject to applicable Allowances and approved Change Orders. The Contract Price may be amended pursuant to the pricing model agreed to in PR-12 entitled “Lump Sum Proposals” subject to Board approval (and City Council approval if the term of the Contract is extended).

**Amendment Section 3.** The Contract shall be amended to add the eight (8) alternative Scopes of Work as detailed in PR-01A, attached hereto as Exhibit A, which is hereby incorporated herein, and made a part of the Contract.

**Amendment Section 4.** The Contract shall be amended to add the pricing terms for the eight (8) alternate Scopes of Work as detailed in PR-12A LUMP SUM PROPOSALS, attached hereto as Exhibit B, which is incorporated herein, and made part of the Contract.

**Amendment Section 5.** Special Condition GC-46 (A) of the Contract shall be amended and restated as follows:

**MODIFY GC-46(A) and replace with the following language on LIQUIDATED DAMAGES**

- A. “Failure of the Contractor to complete the Work within the time allowed will result in damages being sustained by LAWA. For each consecutive day in excess of the time specified for the completion of work, as adjusted in accordance with the General Condition, Extensions of Time, the Contractor shall pay to LAWA, or have withheld from monies due it. The amount of Liquidated Damages shall be as per the table of Liquidated Damages below. The amount of Liquidated Damages is outlined in the table below and shall be capped at 10% of the Contract Value.

Component of Work	Amount
Beneficial use of new CBIS/CBRA (Completion of iSAT & Ticket Counter Tie-ins) – 24 <sup>th</sup> October, 2025	\$10,000 / Day
Substantial completion of construction – 31 <sup>st</sup> March 2027	\$10,000 / Day

Beneficial use of TC 19 and Purge Line -- September 12 <sup>th</sup> , 2025	\$10,000 / Day
Beneficial use of Domestic and International Line -- August 7 <sup>th</sup> , 2026	\$10,000 / Day
Beneficial use of Suspect Transfer 1 and Future Domestic Claim Feedline -- April 17 <sup>th</sup> , 2026	\$10,000 / Day
Beneficial use of Domestic Recheck -- June 12 <sup>th</sup> , 2026	\$10,000 / Day
Beneficial use of fourth ICS Loader -- January 15 <sup>th</sup> , 2027	\$10,000 / Day

LAWA expressly denies that any progress payment made after the scheduled completion date constitutes a waiver of Liquidated Damages. All Liquidated damages shall be charged at the value indicated for amount of time or any part thereof that the Contract is late.”

**Amendment Section 6.** Except as specifically provided herein, this Amendment shall not in any manner alter, change, modify, or affect any of the rights, privileges, duties, or obligations of either of the parties hereto, under, or by reason of said Contract, as amended.

**Execution.** This Amendment and any other document necessary for the consummation of the transaction contemplated by this Amendment may be executed in counterparts, including counterparts that are manually executed and counterparts that are in the form of electronic records and are electronically executed. An electronic signature means a signature that is executed by symbol attached to or logically associated with a record and adopted by a party with the intent to sign such record, including facsimile or e-mail signatures. All executed counterparts shall constitute one Amendment, and each counterpart shall be deemed an original. The parties hereby acknowledge and agree that electronic records and electronic signatures, as well as facsimile signatures, may be used in connection with the execution of this Amendment and electronic signatures, facsimile signatures or signatures transmitted by electronic mail in so-called PDF format shall be legal and binding and shall have the same full force and effect as if a paper original of this Amendment had been delivered that had been signed using a handwritten signature. All parties to this Amendment (i) agree that an electronic signature, whether digital or encrypted, of a party to this Amendment is intended to authenticate this writing and to have the same force and effect as a manual signature; (ii) intended to be bound by the signatures (whether original, faxed, or electronic) on any document sent or delivered by facsimile or electronic mail or other electronic means; (iii) are aware that the other party(ies) will rely on such signatures; and, (iv) hereby waive any defenses to the enforcement of the terms of this Amendment based on the foregoing forms of

signature. If this Amendment has been executed by electronic signature, all parties executing this document are expressly consenting, under the United States Federal Electronic Signatures in Global and National Commerce Act of 2000 (“E-SIGN”) and the California Uniform Electronic Transactions Act (“UETA”) (California Civil Code §1633.1 et seq.), that a signature by fax, e-mail, or other electronic means shall constitute an Electronic Signature to an Electronic Record under both E-SIGN and UETA with respect to this specific transaction.

[Remainder of This Page Intentionally Left Blank; Signature Page Follows]

IN WITNESS WHEREOF, City has caused this Amendment to be executed on its behalf by the CEO, and Contractor has caused the same to be executed by its duly authorized officers, all as of the day and year first hereinabove written.

APPROVED AS TO FORM:  
Hydee Feldstein Soto, City Attorney

**CITY OF LOS ANGELES**  
By signing below, the signatory attests that they have no personal, financial, beneficial or familial interest in this Contract.

Date: \_\_\_\_\_

By: \_\_\_\_\_

John Ackerman  
Chief Executive Officer  
Department of Airports

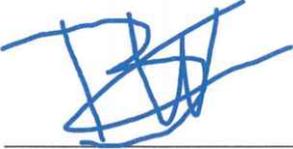
By: \_\_\_\_\_  
Deputy City Attorney

By: \_\_\_\_\_

Tatiana S. Starostina  
Chief Financial Officer  
Deputy Executive Director  
Department of Airports

ATTEST:

**VANDERLANDE INDUSTRIES, INC.**

By:   
Bart Witteveen  
Secretary

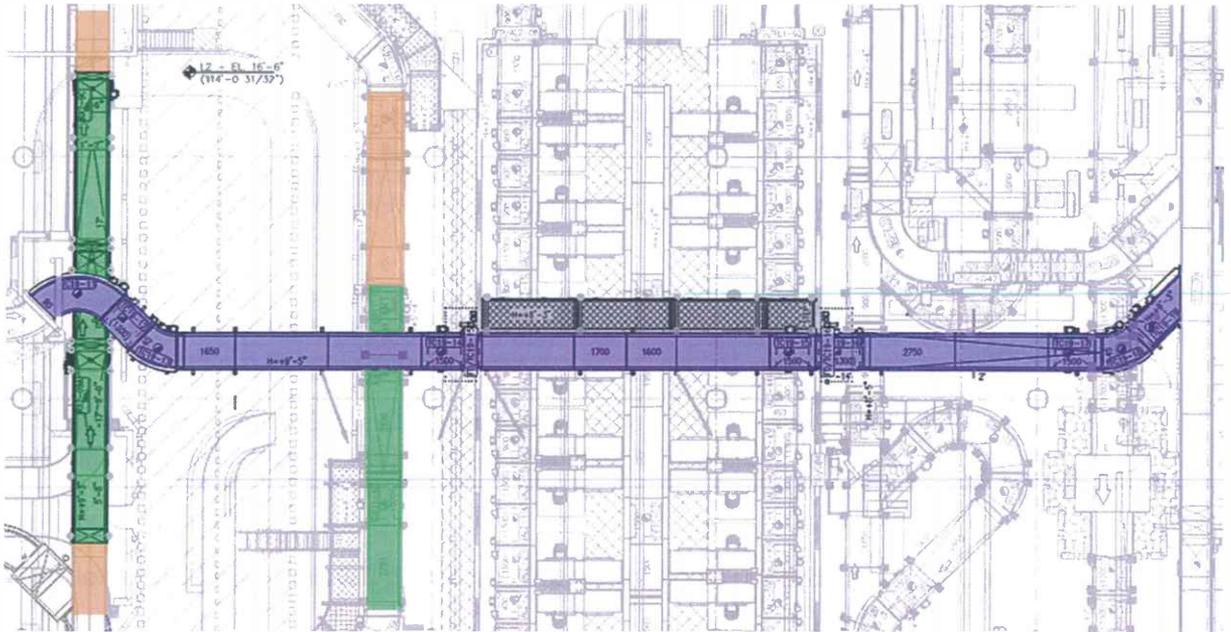
By:   
Nicholas Porter  
President of Airports & Parcel  
Solutions, North America

## EXHIBIT A - PR-01A

PR1A outlines scope of work summary for all eight alternates change orders. This document outlines overall scope and functionality requirements of these BHS functions.

### 1. Ticket Counter 19 (TC19)

Scope of work is to change Ticket Counter 19 from its existing function as a “clean” line into a “dirty” line. This is to enable removal of the front-of-house screening that exists today. This will be done by extending the downstream end of TC19 so that it merges into an existing Ticket Counter line (TC3).



**TC 19 Concept Layout. Purple is TC-19 conveyor, green is base scope conveyor requiring replacement, orange is base scope conveyor requiring modification, grey is catwalk.**

Scope of work of TC 19 line includes:

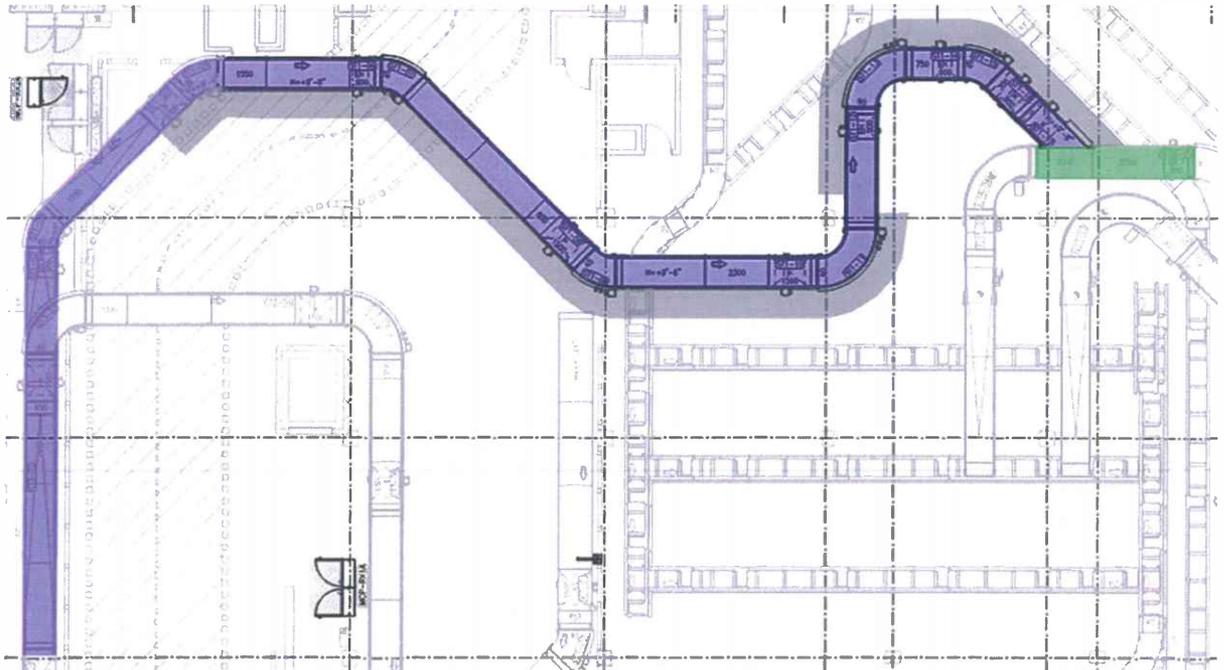
- New conveyors per manifest attached in PR, all ceiling hung.
- New catwalk & access.
- Modifications to RX2 to route under the new TC19 (3 drives).
- Modifications to CB11 design to route under the new TC19 (2 drives).
- Modifications to TC3 to enable TC19 merge.
- 2 new Fire doors.
- Bag portering required during Tie-in
- Design Builder scope includes but not limited to installation of BHS conveyor and catwalk but also resolve all utility clashes in right of way of new TC 19, demo within BHS right of way, fireproofing, electric house power for BHS conveyor.
- In addition to above listed scope of work, below is detailed scope summary of GC work:

- 3.07 **Ticket Counter, TC-19:**
- 3.08 Per "2024-04-30 TC-19 Clashes" dated 4.30.24, total of 42 pgs., total of 2 clashes, includes pricing for 14 clashes, 3 clashes are not in scope (by VI), 3 clashes are not in scope (by PBS)
- 3.09 Includes breakout costs for 1-hr catwalk enclosure over the new CBRA room as shown on drawings. Note these costs are currently accounted for in trades scope SAR's.
- 3.10 Clashes as follows:
- 3.11 Fire Protection:
- 3.12 Clash #380 - TC-19-15 Conv & CW vs Exstg Main Pipes, Conduits, Posts & Electrical Boxes - Cosco
- 3.13 Clash #381 - TC19-15 vs Existing Branch Sprinkler Pipe - Cosco
- 3.14 Clash #382 - TC19-15 vs Exstg Branch Sprinkler Pipe - Coscc
- 3.15 Clash #905 - TC19-15 vs Existing Branch pipe - Cosco
- 3.16 Mechanical:
- 3.17 Clash #378 - TC-19-14 vs Ducting - Murray
- 3.18 Clash #379 - TC-19-11 vs Ducting - Murray
- 3.19 Clash #565 - TC-19-11 & 12 CW Walkway vs HVAC Ducts- Murray
- 3.20 Clash #582 - TC-19-15 CW Walkway vs HVAC Ducts- Murray
- 3.21 Electrical:
- 3.22 Clash #380 - TC-19-15 Conv & CW vs EXS Pipes, Conduits, Posts & Electrical Boxes - GEC2.0 - Relocate existing conduit runs and electrical boxes
- 3.23 Clash #386 - TC-19-15 Conv & CW vs Exstg Conduit Racks - GEC2.0 - Relocate existing conduit rack
- 3.24 Clash #584 - TC-19-15 CW Walkways vs Exstg Electrical Box (Note: On the sketches, this clash has a strikethrough) GEC2.0 - Demolish existing electrical box
- 3.25 Clash #585 - TC-19-15 Conv & CW vs Exstg Conduits - GEC2.0 - relocate existing conduits
- 3.26 Clash #586 - TC-19-15 CW Walkway vs Exstg Conduits and Electrical Box - GEC2.0 - Relocate existing conduits and electrical box
- 3.27 Clash #597 - TC-19-16 CW Walkway vs Exstg Conduits - GEC2.0 OR Comet? Relocate existing conduit runs
- 3.28 Clash #904 - TC-19-15 CW Walkway vs Exstg Conduit - GEC2.0 OR Comet? Raise existing conduit run
- 3.29 Clash #906 - TC-19-16 CW Walkway vs Exstg Conduit Supports - GEC2.0 OR Comet? Relocate existing conduit supports
- 3.30 PBS - these clashes listed below are Excluded
- 3.31 Clash #383 - TC19-16 FD vs Exstg Pipe - PBS
- 3.32 Clash #902 - TC19-14 BHS + CW vs Recessed Lighting - PBS
- 3.33 Clash #903 - TC19-15 BHS + CW vs Recessed Lighting - PBS
- 3.34 Selective Demolition Allowance:
- 3.35 Removal of existing Fireproofing at MEPF clashes for equipment, hangers, unistrut, etc.; includes access for, masking & protection of existing BHS and clean-up of removed materials.
- 3.36 Fireproofing Allowance:

- 3.37 Fireproofing patching at removed MEPF clashes for equipment, hangers, unistrut, etc. are excluded, assumes existing to remain in-place.
- 3.38 Fireproofing patching at replaced MEPF clashes for equipment, hangers, unistrut, etc.

**2. Suspect Transfer Line (ST1)**

Scope of work is to design and install a new suspect transfer line. Suspect transfer line is a CBIS induction belt to rescreen certain arriving flights per TSA regulations. Project will relocate and install a new ST1 line for airline operation.



Suspect Transfer line concept layout. Purple is ST1 conveyor, green is base scope conveyor requiring replacement, grey is catwalk.

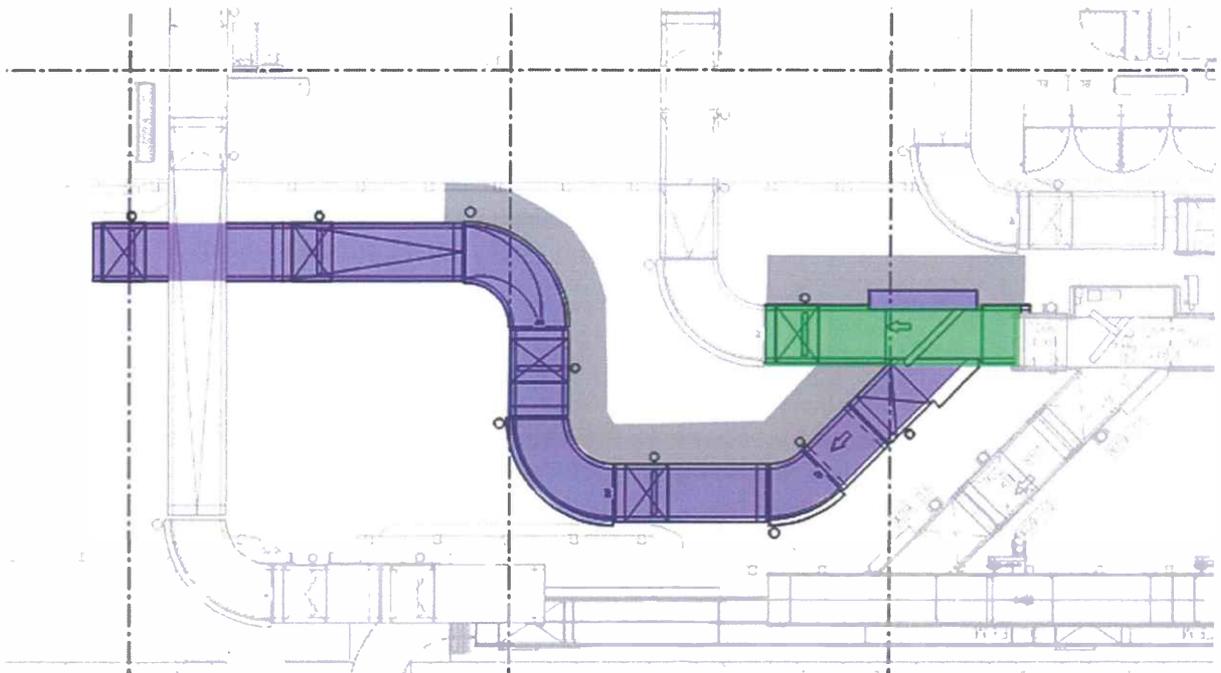
Scope of work for Suspect transfer line includes:

- New conveyors per manifest attached in PR, floor mounted and ceiling hung.
- New catwalk & access.
- Modification of TC18-05
- Design Builder scope includes but not limited to installation of BHS conveyor and catwalk but also resolve all utility clashes in right of way of new Suspect transfer line, demo within BHS right of way, fireproofing, electric house power for BHS conveyor.
- In addition to above listed scope of work, below is detailed scope summary of GC work:

- 3.39 **Suspect Transfer, ST-1:**
- 3.40 Per "2024-04-30 ST1 Clashes" dated 4.30.24, total of 18 pgs., total of 8 clashes, includes pricing for 8 clashes
- 3.41 **Mechanical:**
- 3.42 Clash #488 - ST1-14 Conv & CW Clearance vs Ducting - Murray
- 3.43 Clash #489 - ST1-12 CW Walkway vs Ducting - Murray
- 3.44 Clash #490 - ST1-08 Conv and CW Clearance vs MEP - Murray
- 3.45 Clash #494 - ST1-06 Conv and CW Clearance vs Ducts - Murray
- 3.46 Clash #607 - ST1-05 vs Round Duct - Murray
- 3.47 Clash #610 - ST1-02 Motor vs Duct - Murray / Vanderlande?
- 3.48 **Electrical:**
- 3.49 Clash #608 - ST1-03 vs Panels - GEC2; Relocate existing feeds for panelboard
- 3.50 Clash #609 - ST1-04 vs Lighting - GEC2; Relocate existing conduit run
- 3.51 **Selective Demolition Allowance:**
- 3.52 Removal of existing Fireproofing at MEPF clashes for equipment, hangers, unistrut, etc.; includes access for, masking & protection of existing BHS and clean-up of removed materials.
- 3.53 **Fireproofing Allowance:**
- 3.54 Fireproofing patching at removed MEPF clashes for equipment, hangers, unistrut, etc. are excluded, assumes existing to remain in-place.
- 3.55 Fireproofing patching at replaced MEPF clashes for equipment, hangers, unistrut, etc.

### 3. Purge Line

Scope of work is to design and install a purge line conveyor. The purge line is designed to flush all clear bags out of the system if all the loaders in the ICS system are not running. The crossovers in the system allow bags to transfer to other clear lines if one loader is down, so the runout pier will only be used if all the loaders are inoperable.



Purge line concept layout. Purple is Purge Line conveyor and HCD, green is base scope conveyor requiring replacement, grey is catwalk.

Scope of work of purge line installation includes:

- New conveyors per manifest attached in PR, all ceiling hung.
- Modified conveyor on CB11 line to accommodate a bed section and HCD.
- Roller-bed on wheels to stage bags at runout pier.
- Electric hoist with pendant/chain fall to lower conveyor when in use & raise when not in use.
- New catwalk & access.
- Controls as required, including addition of Contingency Mode function.
- This conveyor line will only send bags to the floor that are upstream of the various divert points. Bags already beyond the runout pier divert points, when contingency mode is enabled, will need to be manually handled as required if the downstream system is unavailable.
- Design Builder scope includes but not limited to installation of BHS conveyor and catwalk but also resolve all utility clashes in right of way of new purge line, demo within BHS right of way, fireproofing, electric house power for BHS conveyor.
- In addition to above listed scope of work, below is detailed scope summary of GC work:

- 3.56 **Purge Line/ Runout Pier - RP-1**
- 3.57 Per "2024-05-23 Runout Pier Clashes" dated 5.23.24, total of 22 pgs., total of 10 clashes
- 3.58 Mechanical:
- 3.59 Clash #1074: PU Catwalk Fire Clear vs Duct: Duct is in the fire clearance of catwalk - Murray
- 3.60 Electrical:
- 3.61 Clash #1067 - PU01 HCD + Bag Clear vs. Conduits: (2) Conduits hitting HCD frame & bag clearance
- 3.62 Clash #1071 - PU HCD / PU-01 vs Conduits: Conduits clashing with envelope and HCD
- 3.63 Clash #1073 - PU HCD Catwalk Fire Clear vs Antenna Box: Box clashing with fire clearance, is this a DAS Clash? - GEC2
- 3.64 Clash #1075 - X09-02 Catwalk Fire Clearance vs Conduits: (2) Conduits going through catwalk - GEC2
- 3.65 Electrical - these clashes listed below are Excluded, pending VI confirmation
- 3.66 (POSSIBLE) Clash #1068 - PU-01 vs. Conduits: VI to confirm if Conduits going through BHS - Will these be demoed with conveyor?
- 3.67 (POSSIBLE) Clash #1070 - PU-02 Envelope vs. Conduits: VI to Confirm if these conduits will be removed when BHS is demoed
- 3.68 BHS: three listed below are by VI
- 3.69
- 3.70 Clash #1065 - XO10 Catwalk Top Rail vs Building Steel: Demo by Vanderlande  
Clash #1069 PU Envelope vs. Existing Header (Demo existing header steel AND existing fireproofing by Vanderlande), existing header steel is clashing with BHS envelope
- 3.71 Clash #1072 - PU Catwalk vs Metal Tubing, Demo existing header steel AND existing fireproofing, to be by Vanderlande, is this part of BHS to be demoed?
- 3.72 Selective Demolition Allowance:
- 3.73 Removal of existing Fireproofing at MEPF clashes for equipment, hangers, unistrut, etc.; includes access for, masking & protection of existing BHS and clean-up of removed materials.

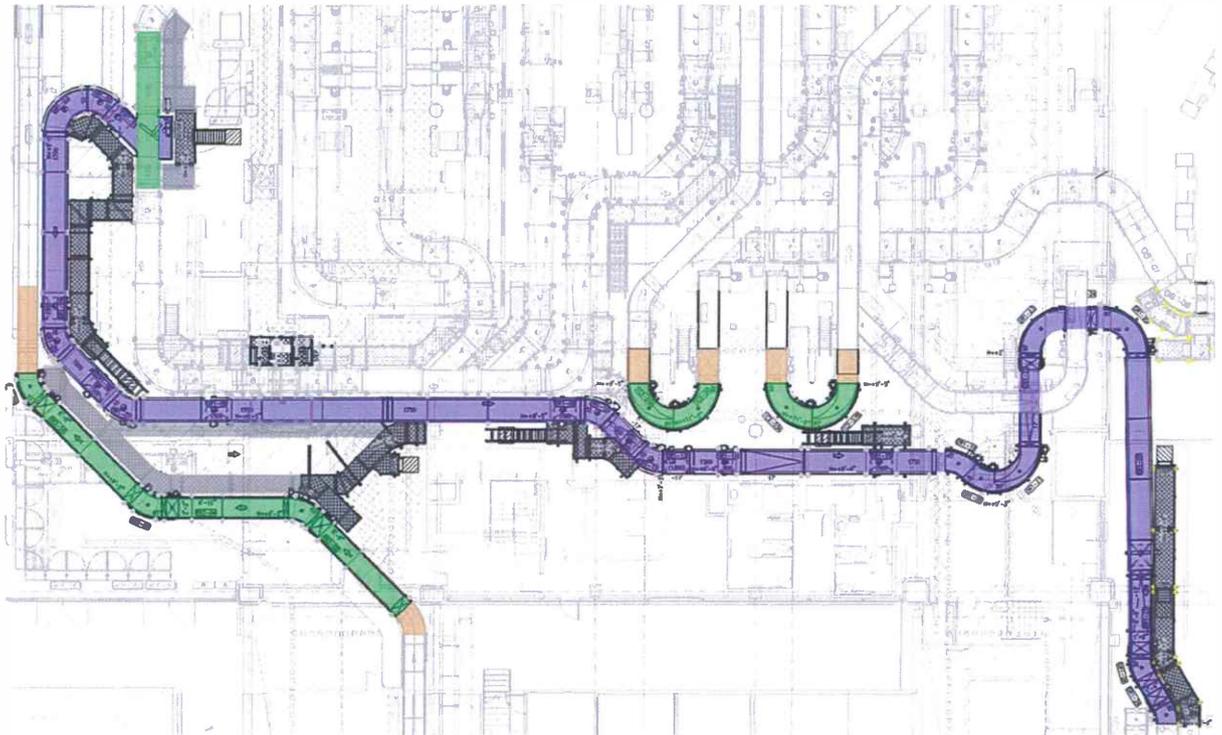
3.74 Fireproofing Allowance:

3.75 Fireproofing patching at removed MEPF clashes for equipment, hangers, unistrut, etc. are excluded, assumes existing to remain in-place.

3.76 Fireproofing patching at replaced MEPF clashes for equipment, hangers, unistrut, etc.

#### 4. Domestic Recheck 1 (DR1)

Scope of work includes reconfiguration of domestic recheck ticket counter conveyor due to demolition of south CBIS and associated conveyors, installation of clear bag line from new CBIS to T4 interline make up unit.



**Domestic Recheck Concept Layout.** Purple is Domestic Recheck conveyor and HCD, green is base scope conveyor requiring replacement, orange is base scope conveyor requiring modification, grey is catwalk.

Scope of work of DR1 installation includes:

- New conveyors
- New catwalk & access
- Modifications of TC2 and TC3 to shorten BF and install new BCs.
- Installation of catwalk by new ATR, RFID tunnel and new HCD in CB11 line.
- SD/DR1 will divert only bags with RFID labels attached during recheck and inducted on IR1.

- RFID label/sticker solution to be included.
- Installation of new DR1 equipment, and installation of part of new conveyor along RX2 to help fit DR1 line in designed location.
- Installation of one new curve and new one conveyor for IR line where it will be used temporarily for domestic and international recheck. The remainder of the line to be used and relocated temporary equipment.
- Standard SmartSort Flight configuration functionality is included.
- Diverter X02 would be a smart diverter. It will Divert the bags to south if the path to north pod is not available. For DR1 option we will be tracking TC3-15 to TC3-19 and all the bags lost in tracking will be sent to South Pod. All the bags coming from Re-induct line (RL1) will also be diverted to South Pod.
- DR1/2 and IR1 would become the same line, capacity would remain the same as IR1 of 1500 BPH
- Existing Controls functionality downstream of the new tie-in point at DR1, including the existing sortation to T4, is to remain as-is and will not be modified as part of this changed.
- PFD Clarification *Control Functionality to be defined in collaboration with LAWA.*
- Design Builder scope includes but not limited to installation of BHS conveyor and catwalk but also resolve all utility clashes in right of way of new DR1, demo within BHS right of way, fireproofing, electric house power for BHS conveyor, renovations at Domestic Recheck area along with relocation of ticket counter and exit gate.
- In addition to above listed scope of work, below is detailed scope summary of GC work:

### 3.77 **Domestic Recheck, DR-1 & DR-2**

3.78

Per "DR2 Clashes Document" dated 4.12.24, total of 40 pgs., total of 19 clashes  
Removals & Relocations of existing overhead utilities, to make way for new BHS system serving the Domestic Re-Check lines DR-2.

3.79

3.80 Preconstruction Services for Alternate DR-1: Includes

3.81 Continue Design Services from 30% to 100% - includes costs for R+C / PBS / JH / Kpff, (0-60% Design included w/ Base design costs)

3.82 Construction Administration (CA) Services

3.83 MEPF Clashes

3.84 Mechanical:

3.87 Other- Air Vent Brace; Clash #?: Move ductwork bracing/unistrut out of the way of the new BHS conveyor

3.88 Other- Air Vent; Clash #?: Move medium sized ductwork upward approx. 12"-15" higher

3.89 Per "4a DR1 Clashes Document" dated 2024-04-30, total of 10 pgs., total of 4 Mechanical clashes

3.90 Clash #620 - DR1-02 vs. MEP Model Duct: Duct is clashing with DR1-02 Conveyor, can this duct be reworked/removed to clear clash?, Murray

3.91 Clash #622 - DR1-07 vs. MEP Model Duct: Duct is clashing with conveyor sideguard, can this be removed/relocated?, Murray

3.92 Clash #625 - DR1-06 vs. MEP Model Duct: Duct is clashing with conveyor, can this be removed/relocated?, Murray

3.93 Clash #626 - DR1-08 vs. MEP Model Duct: Duct is clashing with BHS, can this duct be removed/relocated?, Murray

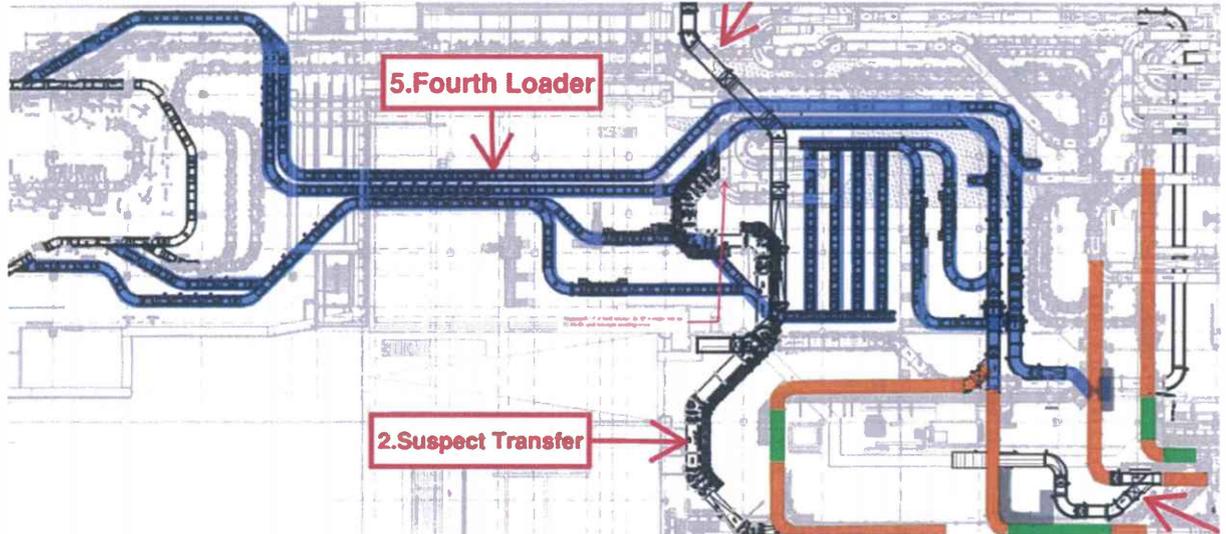
3.94 Electrical:

3.97 Clash #4: 28" Envelope; Clash #602?: Assume we will get exemption for 28" envelope, no pricing required

- 3.99 Clash #6: Conduit box in SG & Envelope; Class #600 & #605: Raise 2ea 18"x18" pullboxes & associated unistrut
- 4.00 Clash 8: Conduit at 9'-11" in SG and Envelope; Clash #599: Move single 2" data conduit, including 'sweep', upwards at least 12"-15" higher so BHS conveyor can clear this
- 4.02 Other Small Pipes; Clash #530 - move (3) small electrical conduits upward at least 12" to 15"
- 4.03 Other- Pipes Access issues and conduit in web; Clash #?: Move 3ea small electrical conduits upward at least 12"-15"
- 4.05 Exclusions:
- 4.06 Clash #4 - not included; Assumes project will receive an Exemptior
- 4.08 Plumbing
- 4.09 Clash 7: Water pipe along SG and in Bag Clear at 11'; Clash #603 & #546: Move waste/vent pipe, assume 4", upwards at lease 12"-15" higher so BHS conveyor can clear this
- 4.10 Clash 9: Water pipes in envelope sideguard; Clash #?: Move waste/vent pipe, assume 4", move upward at least 12"-15"
- 4.11 Fire Protection
- 4.12 Clash 3: Sprinkler; Clash #?: Rework FS Branch line, assume 2" pipe
- 4.13 Clash 6: Conduit box in SG & Envelope; Class #605: Move/raise fire sprinkler branch lines upward to avoid new BHS conveyors
- 4.14 Clash 7: 8'-10" Sprinkler in Envelope; Clash #604: Rework FS Branch line, assume 2" pipe
  
- 4.15 Move 6" riser line at K/57; The area circled (K/57) has the (2) 6" control valves and a check passing under beam K that then continues through the future CBIS buildout. Rerouting this will be a major issue but best done ASAP. I'll need to look into how to isolate and drain this. Is this going to be part of another hit list in the future? Do we have an alternate route modeled yet?
- 4.16 Selective Demolition Allowance:
- 4.17 Removal of existing Fireproofing at MEPF clashes for equipment, hangers, unistrut, etc.; includes access for, masking & protection of existing BHS and clean-up of removed materials.
- 4.18 Fireproofing Allowance:
- 4.19 Fireproofing patching at removed MEPF clashes for equipment, hangers, unistrut, etc. are exluded, assumes existing to remain in-place.
- 4.20 Fireproofing patching at replaced MEPF clashes for equipment, hangers, unistrut, etc.
- 4.21 Level 1 Domestic Recheck Area Renovations:
- 4.22 Per "Proposed Domestic Re-Check Level 1" sketches provided by R+C dated 05.20.24, SK-13 & SK-14-T, total of 2 sheets
- 4.23 Per email from DG at R+C dated 6.3.24, stating to carry costs for removing, salvaging & re-installation of existing FIDS Monitors.

5. Fourth ICS Loader

Scope of work includes design and installation of revised third ICS loader and new fourth ICS loader along with new separate ICS supply and return lines from ICS mixing box to loaders three and four. The new fourth loader concept shall enhance ICS capacity to 6400 BPH for TBIT-MSC complex.



Fourth Loader Concept Layout. Purple is the new conveyor, green is new equipment for modifications to existing equipment, grey is catwalk, and orange is modified conveyor.

Scope of work of 4<sup>th</sup> ICS loader installation includes:

- New conveyors and international carrier system (ICS) equipment
- Modifications to CB11, RX2, CB13, and CT3 to feed the loaders.
- Modifications of current ICS equipment in the mixing box area to help merge with the new ICS equipment.
- New catwalk & access
- Design Builder scope includes but not limited to installation of BHS conveyor and catwalk but also resolve all utility clashes in right of way of new DR1, demo within BHS right of way, fireproofing, electric house power for BHS conveyor, concrete and shotcrete at BHS tunnel opening, reconfiguration of TSA restrooms, reconfiguration of BHS control room.
- In addition to above listed scope of work, below is detailed scope summary of GC work:

- 4.24 **Fourth Loader, FL-4**
- 4.25 Per "2024-05-08 4th Loader Clashes" dated 5.8.24, total of 20 pgs., total of 10 clashes
- 4.26 Updated Clash Items Provided 5.24.24 - Published to subcontractors 5.31.24 via building connected Priority 2 Package
- 4.27 Work cannot happen until existing CBRA room is demolished.
- 4.28 MEPF Clashes
- 4.29 Fire Protection:
- 4.30 Clash #1008 - PU-03 vs. Pipe, Pipe clashing with PU-03 - Coscc
- 4.31 Clash #1005 - PU-04 vs. Pipe, Pipe is clashing with the Bag clearance - Cosco
- 4.32 Clash #1003 - PU-05 vs. Pipe & Conduit - Cosco
- 4.33 Clash #998 - PU-05 vs. Pipe, Pipe is clashing with Envelope and through BHS - Cosco
- 4.34 Mechanical:
- 4.35 Clash #1006: PU-01 vs. Duct: Duct is in the MEP --- Confirm if this is existing on site, Murray
- 4.36 Electrical:
- 4.37 Clash #996 - PU-05 vs. Conduit: Conduit going through baggage envelope, GEC2
- 4.38 Clash #999 - PU-05 vs. Conduits/ Pipes: Conduits in the way of PU-05, GEC2
- 4.39 Clash #1000: PU-03 vs. Bus Duct: Bus duct is in BHS Envelope, GEC2 (Note: this will never happen, but let's go ahead & price it)
- 4.40 Clash #1001: PU-03 vs. Conduits: No Description provided, GEC2
- 4.41 Selective Demolition Allowance:
- 4.42 Removal of existing Fireproofing at MEPF clashes for equipment, hangers, unistrut, etc.; includes access for, masking & protection of existing BHS and clean-up of removed materials.
- 4.43 Fireproofing Allowance:
- 4.44 Fireproofing patching at removed MEPF clashes for equipment, hangers, unistrut, etc. are exluded, assumes existing to remain in-place.
- 4.45 Fireproofing patching at replaced MEPF clashed equipment, hangers, unistrut, etc.
- 4.46 *New Pathway for (4) four new BHS Conveyors for 4th Loader work.*
- 4.47 ICS Room at Tunnel Area
- 4.48 Selective Demolition
- 4.49 Remove partial existing railing in front of knock-out panel
- 4.50 Remove existing CIP concrete 'Knock-out' panel - 14' w x 6' ht x 24" thick
- 4.51 Structural & Miscellaneous Steel
- 4.52 Reconfigure existing galvanized railing, provide new 4-line railing to close off pathway next to panel
- 4.53 Barricades / Protection
- 4.54 Temporary protection for Existing ICS Tunnel area
- 4.55 Level 1 Office area Removals:
- 4.56 Surveying
- 4.57 Layout & survey at L1 interior

- 4.58 Selective Demolition
- 4.59 Remove existing RR fixtures - 2 toilets, 1 urinal, 2 sinks, 1 mop sink & 1 faucet, 1 drain - 8 fixtures
- 4.60 Remove & salvage existing toilet partitions
- 4.61 Remove & salvage existing toilet specialties - TP dispenser, toilet seat cover dispenser, soap dispenser, paper towel dispenser
- 4.62 Remove existing Men's RR wall for new conveyors to come through wall above the door
- 4.63 Barricades / Protection
- 4.64 Temporary barricades at & protection for hallway & OSA offices
- 4.65
- 4.66 North Matrix Wall Opening Structural Strengthening
- 4.67 Conveyor routing through North Matrix Wall - per kpff memo dated 7.10.24 from M. Nadal, "Penetration removes ~20% of length of existing 16" thick concrete shear wall which will be considered a major alteration. Anticipate significant shotcrete reinforcing of shear wall (6-8" thickening) and potential for localized foundation strengthening at new opening iambs"
- 4.68 Selective demolition
- 4.69 Remove 1-sided drywall wall attached to TBIT concrete wall, 12' h
- 4.70 Remove CIP Concrete wall at TBIT interior side of knock-out panel - 14' w x 6' ht x 24" thick
- 4.71 Remove existing walls for new shotcrete panels adjacent to new opening in North matrix TBIT walls
- 4.72 Sawcut, break & remove existing slab on grade, 34' x 2.5' for new foundations strengthening
- 4.73 Excavate soils at existing footing, approx, 5.5 cy
- 4.74 Haul off & disposal of excavated soils
- 4.75 Concrete
- 4.76 At Tunnel Wall:
- 4.77 Add shotcrete walls to existing concrete walls, assume 10' wide at each side of new penetration, floor to clq 12' ht
- 4.78 Rebar for shotcrete wall, use 10#/sf, drill & dowel into existing concrete wal
- 4.79 At TBIT Wall:
- 4.80 Add shotcrete walls to existing concrete walls, assume 10' wide at each side of new penetration, floor to clq 12' ht
- 4.81 Add shotcrete walls to existing concrete walls, assume 10' wide at each side of new penetration, floor to clq 12' ht
- 4.82 Rebar for shotcrete wall, use 10#/sf, drill & dowel into existing concrete wal
- 4.83 New localized foundation strengthening, 34' l x 2'-6" w x 3' d w/ 200#/cy rebar doweled into exsting ftg, including formwork, rebar, concrete to match exsting slab, pumping, cleanup
- 4.84 GPR Testing for walls and foundations to avoid drilling into existing rebar
- 4.85 Expansion Joints
- 4.86 Furnish & install expansion joint between knock-out panel and TBIT concrete wall

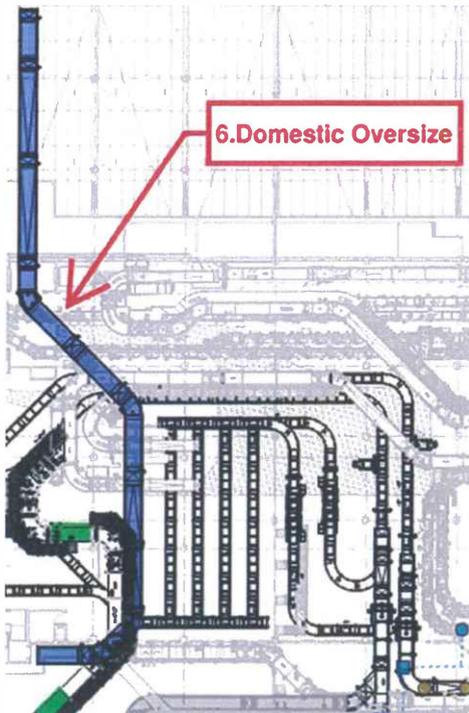
- 4.87
- 4.88 Level 1 Reconfiguration at RR's & Rooms
- 4.89 Rework of existing walls for new BHS pathway through Level 1 Men's RR, Existing BHS Control Rooms and Hallway next to OSA Office. Does not include any work inside of existing OSA office area
- 4.90 Metal Studs, Insulation, Drywall
- 4.91 Drywall budget from Swinerton drywal
- 4.92 Reconfigure Men's RR walls for conveyors to come through wall above the door
- 4.93 Infill, framing & drywall at knock-out panel wall
- 4.94 Infill, framing & drywall at new shotcrete walls
- 4.95 Framing for new large fire shutter assembly
- 4.96 Framing & drywall for new Men's RR & hallway
- 4.97 Framing & drywall for new ceilings
- 4.98 Install new ACT ceilings in hallway
- 4.99 Doors, Frames, Hardware
- 5.00 New HM frame and HM door at new reconfigured BHS control room
- 5.01 Painting
- 5.02 Paint new walls
- 5.03 Paint new ceiling
- 5.04 Paint new HM frame & HM door
- 5.05 Structural & Miscellaneous Steel
- 5.06 Misc Steel for fire shutters
- 5.07 Specialty Doors
- 5.08 Fire shutter assembly for large opening at knock-out panel
- 5.09 New Men's Restroom:
- 5.10 Assume new relocated Men's restroom and Janitors Closet with the same footprint and the same amount of fixtures. Assume the entire existing slab-on-grade will be removed to access new UG plumbing lines; assumes the new SOG will slope to the new drains per codes
- 5.11 Selective demolition
- 5.12 Sawcut, break & remove existing slab for new UG plumbing lines for new men's rr fixtures
- 5.13 Concrete
- 5.14 New slab-on-grade complete at new mens's rr, sloped to new drains
- 5.15 Metal Studs, Insulation, Drywal
- 5.16 New walls at new Men's RR
- 5.17 New gyp board ceiling at new RR
- 5.18 Set new HM frame
- 5.19 Painting
- 5.20 Paint new walls
- 5.21 Paint new ceiling
- 5.22 Paint new HM frame & HM door
- 5.23 Doors, Frames, Hardware
- 5.24 New HM frame and HM door at new RR
- 5.25 Ceramic Tile
- 5.26 New ceramic tile flooring
- 5.27 New ceramic tile wainscot on walls to 4' ht
- 5.28 Specialties
- 5.29 Install salvaged toilet room specialties
- 5.30 Install salvaged toilet partions
- 5.31 Install salvaged urinal screen
- 5.32 Install salvaged TP dispensers
- 5.33 Install salvaged toilet cover dispensers

- 5.34 Install salvaged soap dispenser
- 5.35 Install salvaged waste receptacle
- 5.36 Install salvaged mirrors
- 5.37 Sign for RR
- 5.38 Mechanical, Electrical, Plumbing & Fire Protection work, 4th Loader
- 5.39 Mechanical
- 5.40 HVAC budget from Murray Company
- 5.41 Safe-off existing exhaust fan in RR, rework ductwork for the new BHS conveyors space
- 5.42 New exhaust fan, new supply & return at new RF
- 5.43 Plumbing
- 5.44 Plumbing budget from Murray Company
- 5.45 Safe-off (8) existing fixtures at existing Men's room to be demolished by others,
- 5.46 Furnish and install complete (8) new fixtures in an adjacent area, Murray representative recommends using new instead of trying to salvage and reuse the existing fixtures
- 5.47 Murray quote does not include removal of concrete or pour-back at new restroom
- 5.48 Mechanical & Plumbing Relocations
- 5.49 HVAC budget from Murray Company
- 5.50 It is assumed there is existing ductwork & piping in the hallway ceilings that will need to be moved out of the way of the new hole and new BHS conveyors, this is a ROM cost from Murray for that work
- 5.51 HVAC for doghouse, not required per Murray Cc
- 5.52 Electrical
- 5.53 Electrical budget from GEC2.0
- 5.54 Trace & ID existing electrical & low voltage
- 5.55 Demolition for new BHS
- 5.56 Demo electrical at existing restroom
- 5.57 New BHS power and lighting
- 5.58 New restroom power & lighting
- 5.59 New fire life safety
- 5.60 ACAM doors
- 5.61 Power & lighting for doghouse
- 5.62 Fire Protection
- 5.63 Fire Protection budget from Coscc
- 5.64 Fire protection for Level 1 renovations
- 5.65 Fire protection for doghouse
- 5.66
- 5.67 Level 2 BHS area:
- 5.68 Surveying
- 5.69 Layout & Survey for floor opening & walls; 2-man crew
- 5.70 CADD Technician & PM time for As-building; Office calcs & As-building
- 5.71 Selective Demolition
- 5.72 Demolish existing L2 concrete deck for new floor opening - 20'-6" x 14'-6'
- 5.73 Dancefloor scaffolding underneath new hole at L1 - 26'-6" x 20'-6'
- 5.74 GPR Testing for walls and foundations to avoid drilling into existing rebar
- 5.75 Structural & Miscellaneous Steel

- 5.76 Excludes reinforcement of existing beams adjacent new openings. Per kpff direction we are not including work to upgrade existing girders. It is assumed that VI & Design team will cut a hole in the floor that will not significantly impact existing girder beams. If this is not the case, further detailed anlysis of the entire diaphragm adjacent to the new opening will need to be studied.
- 5.77 New galvanized safety railing at perimeter of L2 opening, inside new doghouse
- 5.78 Metal Studs, Insulation, Drywal
- 5.79 New Doghouse Structure, 1-hr rated:
- 5.80 1-hr walls at perimeter of new opening, 9' h'
- 5.81 1-hr ceiling / 'roof' at doghouse
- 5.82 Framing & set HM door frame for access to space
- 5.83 Framing for new large Fire Shutter door frame for BHS conveyors
- 5.84 Doors, Frames, Hardware
- 5.85 New 3070 Door for maintenance access
- 5.86 Specialty Doors
- 5.87 New custom fire shutter at doghouse wal
- 5.88 Painting
- 5.89 Painting doghouse walls & ceiling int & ext
- 5.90 Paint new frame & door
- 5.91 Corner Guards at exterior of doghouse
- 5.92

6. Domestic Oversize

Scope of work is to design and install a new domestic oversize conveyor line for inbound domestic oversize bags.



Scope of work of Domestic Oversize installation includes:

- New domestic oversize line equipment
- New inbound oversize line including load belt, and public facing with stainless at end.
- New catwalk & access
- New fire door
- Modifications of 2 bed section for the lengthening of ST1, so that Domestic Oversize fits on layout area
- Design Builder scope includes but not limited to installation of BHS conveyor and catwalk but also resolve all utility clashes in right of way of new Domestic oversize, demo within BHS right of way, electric house power for BHS conveyor, all work at domestic bag claim area including but not limited to building public facing enclosure for domestic oversize claim belt.
- In addition to above listed scope of work, below is detailed scope summary of GC work:

- 5.93 **Domestic Inbound, Alternate C:**
- 5.94 Per Alternate C Concept Sketches dated 5.20.24 by Rivers & Christian titled "2024 05 20\_Alt C Exhibits", total of one (1) sheet - SK 05-C. And per Narrative by R+C dated 5.20.24, total of 2 pages.
- 5.95 New Domestic Oversized Baggage Conveyor lines starting in the L2 Tug aisle to run from there snaking through existing L2 interior spaces; new OS conveyors will be installed in an enclosed 'doghouse' and run into the L1 Domestic Bag Claim area then dropping into that area for travelers to pick-up their oversized bags; doghouse is near gridline F/39.
- 5.96 Preconstruction Services for Alt C:
- 5.97 Design Services to 30% - includes costs for R+C / PBS / JH / Kpff, (0-60% Design included w/ Base design costs)
- 5.98 Credit base Alternate C remaining
- 5.99 Continue Design Services from 30% to 100% - includes costs for R+C / PBS / JH / Kpff, (0-60% Design included w/ Base design costs) included
- 6.00 Construction Administration (CA) Services included
- 6.01 New Canopy Area / Sitework (at Apron/Tarmac)
- 6.02 All work at Apron / Tarmac is Excluded
- 6.03 Interior Work at Pathway through bldg
- 6.04 All work at Pathway through Building is Excluded
- 6.05 Interior Work at Level 1 Bag Claim area:
- 6.06 Interior of L1:
- 6.07 Temporary Walls for L1, hard wall to 8', FR visqueen to clg above, removals
- 6.08 Protect existing Terrazzo floor to remain (use rubber mat & plywood
- 6.09 Site (outside of L1 on the flatwork & street)):
- 6.10 Temporary Walls at exterior L1
- 6.11 Protect existing exterior flatwork during concrete, steel & framing operations (use rubber mat & plywood)
- 6.12 Temporary concrete or water-filled barriers at street for ready-mix concrete, pumps, deliveries, etc. at the street
- 6.13 Protect existing exterior roadway during concrete, steel & framing operations (use rubber mat & plywood)
- 6.14 Traffic Control plans & permit for street usage
- 6.15 Traffic Control - flagging, 2 Laborers for 3 mos
- 6.16 Final cleaning, L1 Interior area
- 6.17 Polish existing terrazzo floor after renovations
- 6.18 Site (outside of L1):
- 6.19 Final cleaning, L1 Exterior area
- 6.20 Scaffolding
- 6.21 Interior of L1:
- 6.22 Scaffolding surrounding new enclosure doghouse, to 18' ht - furnish, install, maintain, removals
- 6.23 Scaffolding, dancefloor, in L1 for access to ceilings & deck
- 6.24 Demolition
- 6.25 Interior demolition at BHS pathway
- 6.26 Remove existing wall for BHS pathway, 39/F
- 6.27 Interior demolition at L1:

- 6.28 Remove & salvage existing baggage storage lockers; return to LAWA
- 6.29 Remove & salvage existing Baggage Service Office (BSO) millwork podiums with monitors / printers; return to LAWA
- 6.30 Demo existing BSO workstation canopy
- 6.31 Patch & repair Terrazzo as necessary, see Interior Finishes, Terrazzo below
- 6.32 Remove & salvage (2) existing wall mounted monitors; return to LAWA
- 6.33 Remove existing metal ceilings for new walls attaching to structure above (may need to be by ACT sub)
- 6.34 Remove existing metal ceilings for access to underside of deck, store, replace
- 6.35 Remove barricades at end of project at L1 - Arrivals area
- 6.36 Remove protection at existing terrazzo flooring during construction
- 6.37 Dumpsters, 1x/wk, 6 mos
- 6.38 Interior demolition at L1 for new footings:
- 6.39 Sawcut & Remove Existing Terrazzo & Slab at Level 1 for new footings
- 6.40 Dumpsters, 1x/wk, 6 mos
- 6.41 Concrete
- 6.42 New 5'-0" w x 9'-0" l x 15" thk, (3) ea, Concrete footing for new doghouse, includes spoil haul-off, rebar at 125#/cy & concrete, & epoxy dowel into existing slab, set (12) AB's provided by others

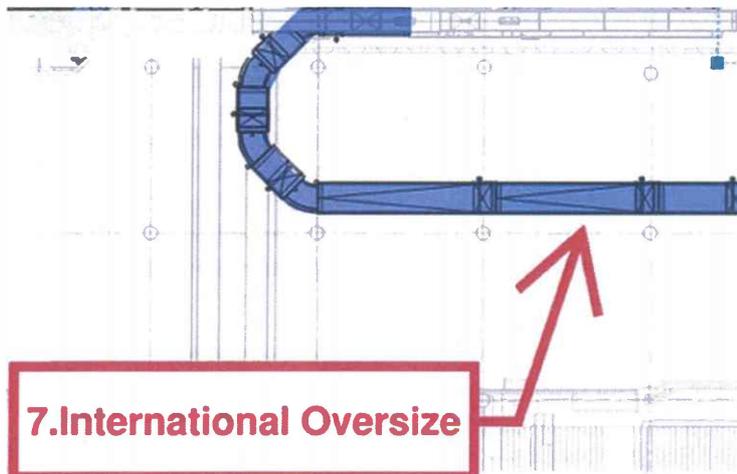
- 6.43 Slab patches (3) 9'x13'x8" w/ #4 rebar at 12" ocev
- 6.44 Based on 4-hour working days, 3rd shift; ready-mix & pump staging at World Way close to nearest door
- 6.45 Structural Steel
- 6.46 F/I TS columns & beams for support of new OS Conveying Elevator, AB's FOB jobsite
- 6.47 Include additional tonnage for waste, stiffener plates, base plates, cap plates, tab plates, shim plates, bolts, welds, anchor bolts, kicker angles, or connecting angles, finite coordination, adjustments to architectural plans, BHS plans, MEP supports, etc.; use 15%-25% additional of the total tonnage above, per KPFF narrative
- 6.48 Misc steel frame for new fire / security shutter at bottom of BHS decline
- 6.49 Smoke control devices for requirements due to welding operations within interior environment
- 6.50 Framing, Drywall & Rough Carpentry
- 6.51 Construct new BHS conveyor decline Enclosure - metal stud framing & drywall at Level 1, 18' ht; includes soffit under decline; does not include new soffit at perimeter of enclosure
- 6.52 Modify existing fire rated wall opening width for new oversized conveyor to fit near GL F/39
- 6.53 Millwork
- 6.54 New Phenolic Wall Panels around the decline enclosure, to 8.5' ht
- 6.55 Metal Base, SS, around Doghouse, 12" ht
- 6.56 Fireproofing
- 6.57 Miscellaneous fireproofing patching
- 6.58 Firestopping
- 6.59 Miscellaneous firestopping patching
- 6.60 Doors, Frames, Hardware
- 6.61 3070 Security controlled door to access the underside area of the new BHS conveyor decline enclosure
- 6.62 Overhead Coiling Doors
- 6.63 Fire Shutter / Security door at decline structure including draft curtain at public facing-side, furnished and installed - Vigneaux, to be by VI
- 6.64 Flooring
- 6.65 New flooring inside doghouse room, assume existing to remain
- 6.66 New rubber base inside doghouse
- 6.67 Terrazzo
- 6.68 Patch & repair Terrazzo at removed kiosk & lockers, power & data at floor
- 6.69 Ceiling
- 6.70 Replace and reinstall 'custom' metal ceilings that were removed for access to install new enclosure walls and to rework any above ceiling MEPF systems
- 6.71 Paint
- 6.72 Paint interior of doghouse
- 6.73 Paint exterior of doghouse to match existing finish
- 6.74 Paint new door & frame
- 6.75 General paint touch-up allowance
- 6.76 Wall Protection
- 6.77 Metal corner guards around new metal panels
- 6.78 Signage
- 6.79 Include new LAWA standard wayfinding signage at the Oversize Domestic Bag Claim carousel
- 6.80 Include modifications to ten (12) existing sign faces at TBIT L1 to direct passengers to the new Domestic Oversize Bag Claim carousel

- 6.81 Fire Extinguishers
- 6.82 Fire Extinguisher cabinets and fire extinguishers
- 6.83 Fire Sprinkler
- 6.84 New heads at doghouse
- 6.85 Rework existing heads in metal panel ceilings to accommodate new doghouse
- 6.86 New heads at BHS pathway
- 6.84 Plumbing
- 6.85 Plumbing Relocations for OS BHS through bldg
- 6.86 Rework existing plumbing in metal panel ceilings to accommodate new doghouse
- 6.87 HVAC
- 6.85 HVAC Relocations for OS BHS through building
- 6.86 Rework existing ducting in metal panel ceilings to accommodate new doghouse
- 6.87 Electrical / Fire Alarm / CCTV / ACAMS
- 6.88 Electrical / FA / LV budget
- 6.86 Electrical/Low Voltage Relocations for OS BHS through existing building
- 6.87 Fire life safety allowance
- 6.88 CCTV allowance
- 6.89 ACAMS allowance
- 6.90 Remove existing pendant light fixtures above new decline structure
- 6.91 New power for new OS fire shutters at new decline enclosure

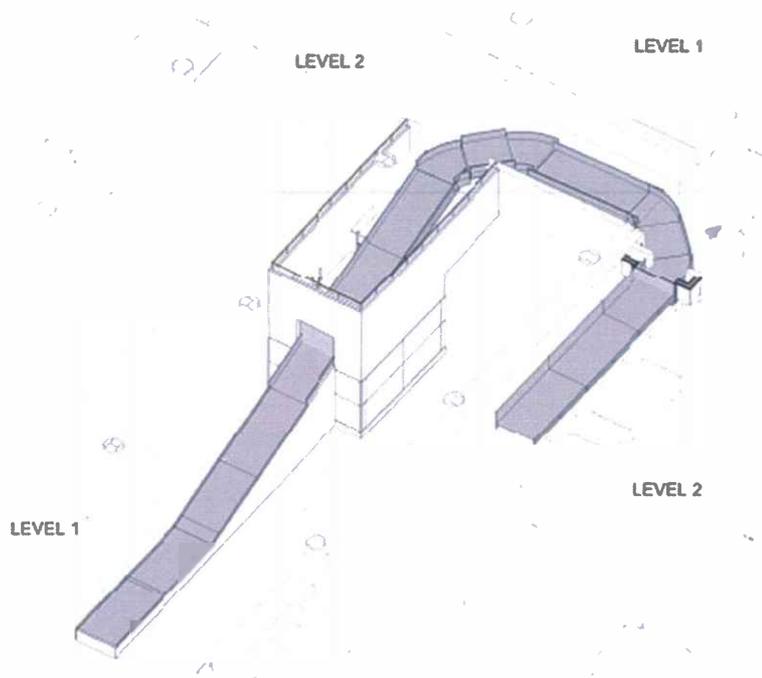
- 6.92 New ACAMs & Security cameras to service the new BHS OS conveyor fire shutter opening
- 6.93 Install Video Monitor and conduit
- 6.94 Door scanner assembly
- 6.95 Power to signage
- 6.96 Power for reworked HVAC equipment
- 6.97 Power for fire shutter
- 6.98 Power for conveyor equipment
- 6.99 Temp power & lighting
- 7.00 BHS
- 7.01 Installation of new baggage handling system oversize conveyors from L2 into L1 Domestic Arrivals hall, near GL F / 39
- 7.02 All public facing BHS conveyor surfaces shall have stainless steel finish, by VI
- 7.03 Infill at L1 Exit Doors:
- 7.04 Per verbal conversations with DG at R+C dated 6.5.24, the existing exit pathway 'pit', near GL 39 / F, is to be closed off permanently for exiting. This scope is to remove storefront system and install 1-hr wall, remove guard rail & stair rail, infill pit with high-density foam shapes, pour concrete to fill stairs to 42" height, then top with terrazzo to match existing
- 7.05 Demolition
- 7.06 Remove & disposal of existing storefront system
- 7.07 Remove & dispose of pair storefront doors
- 7.08 Remove 8-line stainless steel guard railing
- 7.09 Remove stainless steel stair railing
- 7.10 Concrete
- 7.11 See (with) Budget from Swin-Concrete above
- 7.12 4" thk built-up slab over existing stairs w/ #4 rebar at 12" ocev; place depressed concrete, ready for terrazzo floor finish
- 7.13 6" thk built up walls at approx. 4' ocev, w/ #4 rebar at 12" ocev, one face
- 7.14 Infill at stair 'pit' w/ foam shapes, approx. 160 CF of EPS15 structural foam fil
- 7.15 Drywall
- 7.16 Construct new 1-hr wall at removed storefront system
- 7.17 Construct new one-sided wall from top of new retaining wall to top of existing soffit
- 7.18 Millwork
- 7.19 New Phenolic Wall Panels at new infill wall
- 7.20 Terrazzo
- 7.21 New Terrazzo floor to match existing
- 7.22 Paint
- 7.23 Paint new wall at demoed storefront
- 7.24 General paint touch-up allowance
- 7.25 Electrical / Fire Alarm / CCTV / ACAMS
- 7.26 Electrical/Low Voltage removals, safe-off of existing power & lighting

## 7. International Oversize

Scope of work is to design and install a new international oversize conveyor line for inbound international oversize bags.



International Oversize Concept Layout, purple is new conveyor.



Scope of work of International Oversize installation includes:

- New international oversize equipment in CBP area, public facing with stainless steel.
- New catwalk & access
- 2 new fire/security doors
- Design Builder scope includes but not limited to installation of BHS conveyor and catwalk but also resolve all utility clashes in right of way of new international oversize, demo within BHS

right of way, electric house power for BHS conveyor, all work at FIS area including but not limited to building public facing enclosure for international oversize claim belt.

- In addition to above listed scope of work, below is detailed scope summary of GC work:

- 7.27 **International Inbound, Alternate D:**
- 7.28 Per Alternate D Concept Sketches dated 5.17.24 by Rivers & Christian titled "2024 05 17\_Alt D Exhibits", total of 3 sheets - SK 02-D, SK 03-D, SK 04-D. And per Narrative by R+C dated x.xx.xx, total of xx pages.
- 7.29 Work at Lvl 2 BHS Tug Aisle for the new International Oversized Baggage Conveyor lines to run from the existing doghouse near GL M/55 of the existing tug aisle; the new OS conveyors will be installed in the doghouse and run to the existing 'bridge' in L1 CBP area (by VI) of L1 International Baggage Claim/Customs then dropping into that area for travelers to pick-up their oversized bags; doghouse is near gridline N/55.
  - Preconstruction Services for Alt D
    - Design Services to 30% - includes costs for R+C / PBS / JH / Kpff, (0-60% Design included w/ Bas design costs)
    - Credit base Alternate D remaining
    - Continue Design Services from 30% to 100% - includes costs for R+C / PBS / JH / Kpff, (0-60% Design included w/ Base design costs) included
    - Construction Administration (CA) Services included
- 7.30 Level 2 Tug Area:
- 7.31 Barricades / Protection
- 7.32 Barricades for Tug traffic protection - concrete w/ fencing, by VI

- 7.33 Demolition
- 7.34 Demo existing CMU wall at BHS doghouse, prep for new wider OS BHS opening
- 7.35 Miscellaneous Steel
- 7.36 Misc steel frame for new fire / security shutter at 'doghouse'
- 7.37 Overhead Coiling Doors
- 7.38 Fire Shutter / Security door at L2, furnished and installed - Vigneaux, to be by VI
- 7.39 Drywall
- 7.40 Fire-rated wall at new OS BHS conveyor fire shutter at gridline M/55, from face of existing doghouse structure to align new shutter with the required gap in BHS conveyor
- 7.41 Painting
- 7.42 Painting of new 1-hr wall at L2 doghouse wall at gridline M/55
- 7.43 Electrical
- 7.44 Rework electrical power for new OS fire shutters at new 1-hr wall at L2 doghouse
- 7.45 Modify existing ACAMs & Security cameras to service the new BHS OS conveyor fire shutter opening
- 7.46 BHS
- 7.47 Remove existing standard gauge BHS conveyors at south side of existing bridge structure & extending back out to L2, by VI
- 7.48 Level 1 CBP Baggage Claim Area:
- 7.49 Barricades / Protection
- 7.50 Temporary Walls for L1, hard wall to 8', FR visqueen to clg above, removals
- 7.51 Protect existing Terrazzo floor to remain (use rubber mat & plywood)
- 7.52 Scaffolding
- 7.53 Scaffolding surrounding new enclosure doghouse, to 25' ht - furnish, install, maintain, removals
- 7.54 Demolition
- 7.55 Sawcut & Remove Existing Terrazzo & Slab at Level 1 for new footings
- 7.56 Remove a portion of existing decorative Column Cover, GL N/55

- 7.57 Demo portion of existing glass guardrail & drywall wall at south side of bridge structure to accommodate new BHS conveyor right-of-way
- 7.58 Scaffolding for bridge demolition, see Scaffolding below
- 7.59 Dumpsters, 1x/wk, 6 mos
- 7.60 Concrete
- 7.61 New 5'-0" w x 9'-0" l x 15" thk, (3) ea, Concrete footing for new doghouse, includes spoil haul-off, rebar at 125#/cy & concrete, & epoxy dowel into existing slab, set (12) AB's provided by others
- 7.62 Slab patches (3) 9'x13'x8" w/ #4 rebar at 12" ocev
- 7.63 Based on 4-hour working days, 3rd shift; ready-mix & pump staging at South side of terminal on Tarmac
- 7.64 Structural Steel
- 7.65 F/I TS columns & beams for support of new OS Conveying Elevator, AB's FOB jobsite
- 7.66 Include additional tonnage for waste, stiffener plates, base plates, cap plates, tab plates, shim plates, bolts, welds, anchor bolts, kicker angles, or connecting angles, finite coordination, adjustments to architectural plans, BHS plans, MEP supports, etc.; use 15%-25% additional of the total tonnage above, per KPFF narrative
- 7.67 Misc steel frame for new fire / security shutter at bottom of BHS decline
- 7.68 Smoke control devices for requirements due to welding operations within interior environment
- 7.69 Framing, Drywall & Rough Carpentry
- 7.70 Construct new BHS conveyor decline Enclosure - metal stud framing & drywall at Level 1, 18' ht; structure to be independent of existing bridge, TS above to be concealed within walls
- 7.71 New BHS conveyor decline Enclosure walls to match top of gypsum board side wall at existing bridge structure
- 7.72 Millwork
- 7.73 New Phenolic Wall Panels around the decline enclosure, to 8.5' ht
- 7.74 Metal Base, SS, around Doghouse, 12" ht

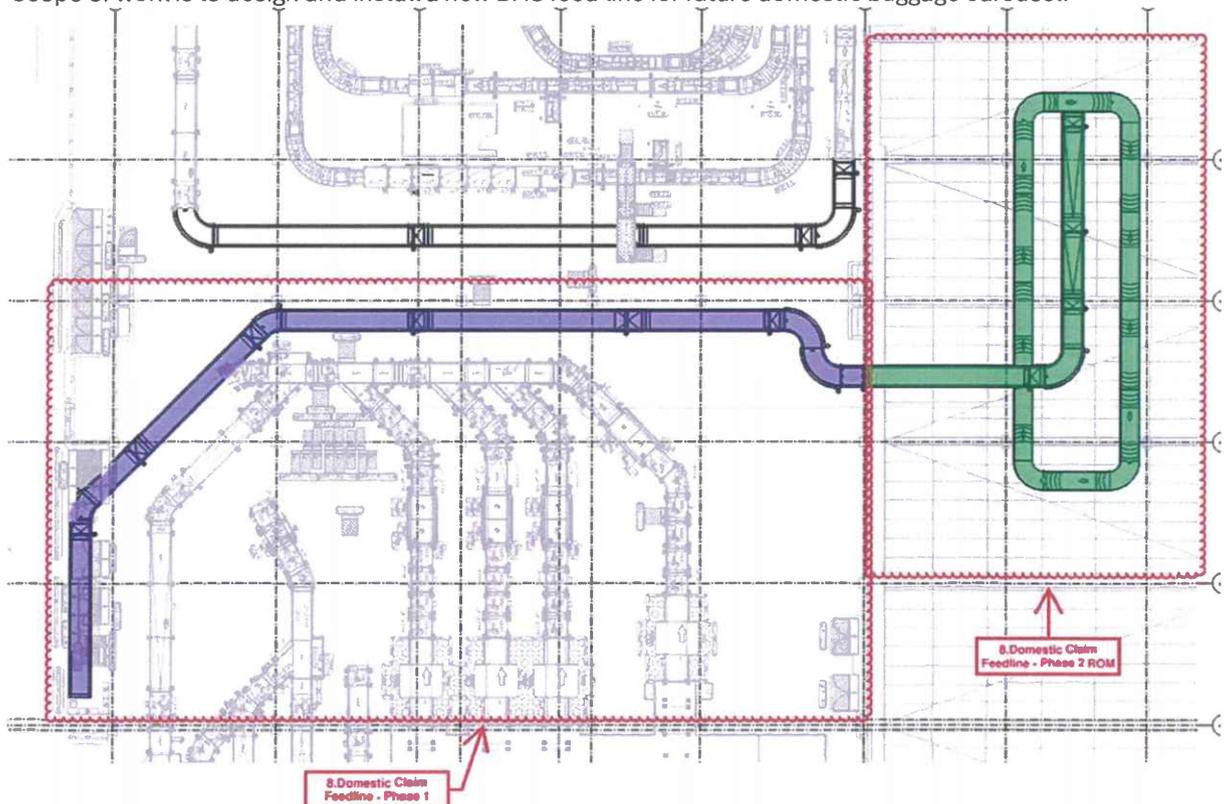
- 7.89 New flooring inside doghouse room, assume existing to remain
- 7.90 New rubber base inside doghouse
- 7.91 Paint
- 7.92 Paint interior of doghouse
- 7.93 Paint exterior of doghouse to match existing finish
- 7.94 Paint new door & frame
- 7.95 Paint Bridge Belt Wall
- 7.96 General paint touch-up allowance
- 7.97 Wall Protection
- 7.98 Metal corner guards around new metal panels
- 7.99 Signage
- 8.00 Include new LAWA standard wayfinding signage at the Oversize International Bag Claim carousel, mounted on North face of bridge & side of enclosure
- 8.01 Include modifications to ten (10) existing sign faces at TBIT L1 to direct passengers to the new International Oversize Bag Claim corousel
- 8.02 Fire Extinguishers
- 8.03 Fire Extinguisher cabinets and fire extinguishers, 2 each
- 8.04 Fire Sprinkler
- 8.05 New heads at doghouse, under BHS decline
- 8.06 Electrical / Fire Alarm / CCTV / ACAMS
- 8.07 Electrical / FA / LV budget
- 8.08 Electrical/Low Voltage Relocations for OS BHS through existing building
- 8.09 Fire life safety allowance
- 8.10 CCTV allowance
- 8.11 ACAMS allowance
- 8.12 Remove one (1) existing pendant light fixture above new decline structure
- 8.13 New power for new OS fire shutters at new decline enclosure
- 8.14 New ACAMs & Security cameras to service the new BHS OS conveyor fire shutter opening
- 8.15 Install Video Monitor and conduit
- 8.16 Door scanner assembly
- 8.17 Power to signage
- 8.18 Power for reworked HVAC equipment
- 8.19 Power for fire shutter
- 8.20 Power for conveyor equipment
- 8.21 Temp power & lighting

- 7.75 Modify existing column covers as required where new partitions are installed at two column locations, GL N/55 & N/56
- 7.76 Fireproofing
- 7.77 Miscellaneous fireproofing patching
- 7.78 Firestopping
- 7.79 Miscellaneous firestopping patching
- 7.80 Doors, Frames, Hardware
- 7.81 3070 Security controlled door to access the underside area of the new BHS conveyor decline enclosure
- 7.82 Overhead Coiling Doors
- 7.83 Fire Shutter / Security door at decline structure including draft curtain at public facing-side, furnished and installed - Vigneaux, to be by VI
- 7.84 Glass & Glazing
- 7.85 Provide new continuous glass panels along top of new decline enclosure walls to match existing bridge, w/ 4" shoe, 1/2" thk glass, w/ 1" x 1-3/8" trim cap on top of glass
- 7.86 Ceiling
- 7.87 Metal Ceiling panels, removals or reinstalls at existing ceiling at baggage hall, Excluded, no work at ceilings in bag hall
- 7.88 Flooring
- 7.89 New flooring inside doghouse room, assume existing to remain
- 7.90 New rubber base inside doghouse
- 7.91 Paint
- 7.92 Paint interior of doghouse
- 7.93 Paint exterior of doghouse to match existing finish
- 7.94 Paint new door & frame
- 7.95 Paint Bridge Belt Wall
- 7.96 General paint touch-up allowance
- 7.97 Wall Protection
- 7.98 Metal corner guards around new metal panels
- 7.99 Signage
- 8.00 Include new LAWA standard wayfinding signage at the Oversize International Bag Claim carousel, mounted on North face of bridge & side of enclosure
- 8.01 Include modifications to ten (10) existing sign faces at TBIT L1 to direct passengers to the new International Oversize Bag Claim carousel
- 8.02 Fire Extinguishers
- 8.03 Fire Extinguisher cabinets and fire extinguishers, 2 each
- 8.04 Fire Sprinkler
- 8.05 New heads at doghouse, under BHS decline
- 8.06 Electrical / Fire Alarm / CCTV / ACAMS
- 8.07 Electrical / FA / LV budget
- 8.08 Electrical/Low Voltage Relocations for OS BHS through existing building
- 8.09 Fire life safety allowance
- 8.10 CCTV allowance
- 8.11 ACAMS allowance
- 8.12 Remove one (1) existing pendant light fixture above new decline structure
- 8.13 New power for new OS fire shutters at new decline enclosure
- 8.14 New ACAMs & Security cameras to service the new BHS OS conveyor fire shutter opening

- shutter opening
- 8.15 Install Video Monitor and conduit
- 8.16 Door scanner assembly
- 8.17 Power to signage
- 8.18 Power for reworked HVAC equipment
- 8.19 Power for fire shutter
- 8.20 Power for conveyor equipment
- 8.21 Temp power & lighting
- 8.22 BHS
- 8.23 Installation of new baggage handling system oversize conveyors from L2 into L1 International Arrivals hall, parallel to GL N between 55 & 57, by VI
- 8.24 All public facing BHS conveyor surfaces shall have stainless steel finish, by VI

#### 8. Domestic Claim Feed Line

Scope of work is to design and install a new BHS feed line for future domestic baggage carousel.



**Domestic Claim Feed Line Concept Layout.** Purple is Domestic Claim feed conveyor included in phase 1, and green is Domestic Claim feed conveyor and claim device in phase 2. Phase 2 scope is not included in this scope of work and will be executed at a later time. Phase 2 is shown for reference only. **Catwalk will be required but not shown in drawings.**

Scope of work of Domestic Claim Feed line installation includes:

- New BHS equipment from feed to the wall
- Security door to cover hole in the wall
- Catwalk

- Design Builder scope includes but not limited to installation of BHS conveyor and catwalk but also resolve all utility clashes in right of way of new Domestic claim feed line , demo within BHS right of way, electric house power for BHS conveyor.
- In addition to above listed scope of work, below is detailed scope summary of GC work:

- 8.25 **Domestic Baggage Claim #32 - DC-32**
- 8.26 CBIS Area L2 scope is to cut a hole in the CMU wall and install a new fire shutter (by VI). It is assumed all work will be on the CBIS side. Does not include any work in Level 1 Arrivals Baggage Hall.
- 8.27 Does NOT include any MEPF Relocations for BHS Pathway through Level 2 CBIS including Fireproofing Patching, etc., no clashes have been provide at time of this estimate.
- 8.28 Work at F Line Wall:
- 8.29 Surveying
- 8.30 Field Layout and survey - two-man crew for L1
- 8.31 Office Calculations and Digital As-Builts
- 8.32 Demolition
- 8.33 Interior demolition remove existing wall for BHS pathway, 46-47/F
- 8.34 Steel
- 8.35 Steel framing for new fire shutter
- 8.36 Overhead Coiling Doors
- 8.37 Fire Shutter / Security door at decline structure including draft curtain at public facing-side, furnished and installed - Vigneaux, to be by VI
- 8.38 Drywall
- 8.39 Temp protection at opening
- 8.40 Framing, Drywall work at opening
- 8.41 Firestopping at new opening
- 8.42 Painting
- 8.43 Repaint wall
- 8.44 Electrical / Fire Alarm / CCTV / ACAMS
- 8.45 Power & LV work for fire shutter installed at GL F wal
- 8.46 Work at Tug Aisle

8.47	Per Sketch by M. Prata & per jobwalk notes dated 8.28.24
8.48	Surveying
8.49	Field Layout and survey - two-man crew for L1
8.50	Office Calculations and Digital As-Builts
8.51	Demolition
8.52	Remove existing CMU walls at existing doghouse
8.53	Remove existing concrete curbs & pads
8.54	Concrete
8.55	New concrete pads & curbs for panels
8.56	Fireproofing
8.57	Fireproofing patching
8.58	Drywall
8.59	Framing, Drywall work at doghouse that was demolishec
8.60	Electrical / Fire Alarm / CCTV / ACAMS
8.61	Power & LV work for new feeders from existing panels to relocated, replace equipment, etc.
8.62	MEPF Relocations for Clearance
8.63	Fire Protection relocations
8.64	Plumbing relocations
8.65	HVAC relocations
8.66	Electrical & LV relocations
8.67	
8.68	Interior Work at Level 1 Bag Claim area:
8.69	All Work at Level 1 Arrivals Baggage Hall is Excluded

#### Reference Documents

- DOCUMENT 1 - OVERALL LAX BOP2 SYSTEM LAYOUT ALL LEVELS DATED JUNE 30, 2024
- DOCUMENT 2 - DOMESTIC RECHECK PROCESS FLOW DIAGRAM DATED JULY 10, 2024
- DOCUMENT 3 – BHS EQUIPMENT MANIFEST



**Baggage Handling System  
For  
LAWA - Los Angeles Worlds Airports**

**Process Flow Diagram**

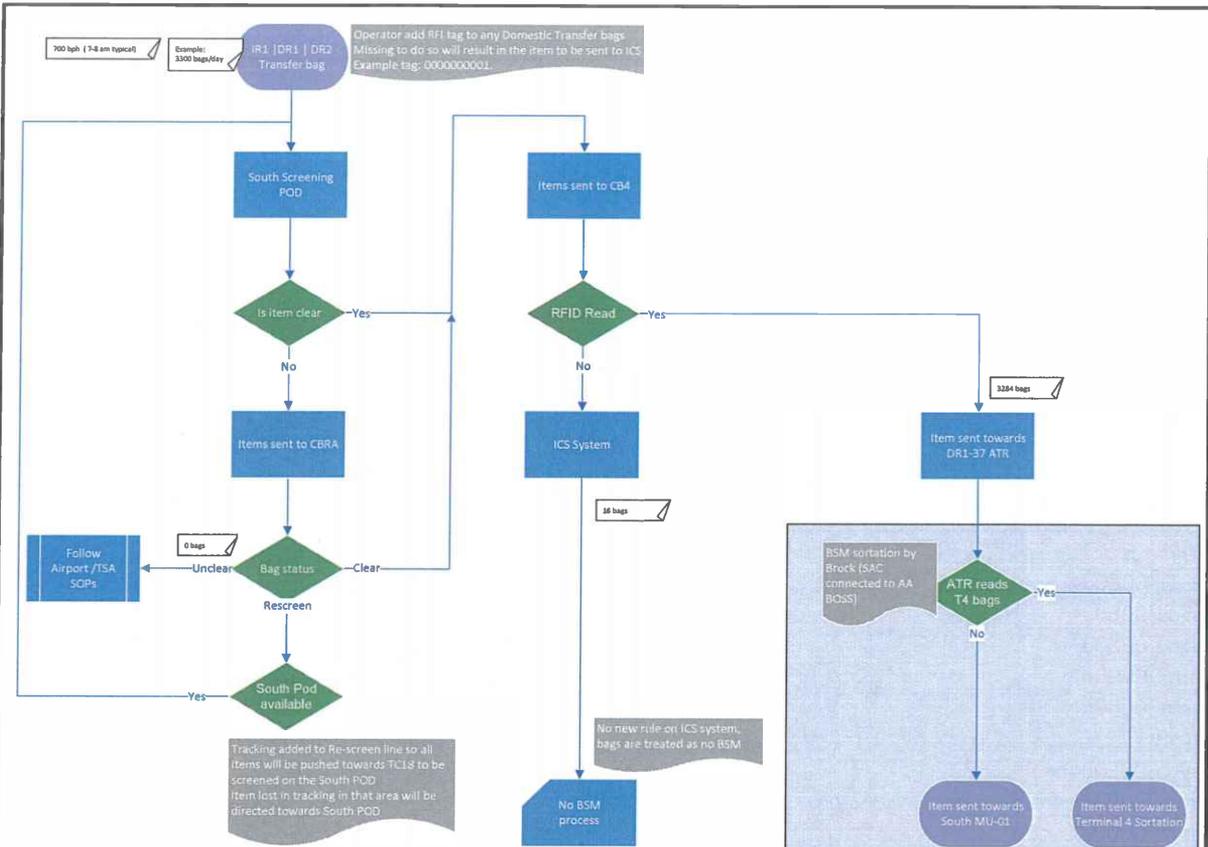


**14703-031-00002-EN-A06**

## Revision History

Revision	Date	Author	Remarks
A01	May 21, 2024	T Sanchez	Initial.
A02	May 22, 2024	T Sanchez	Add # bags
A04	May 24, 2024	T Sanchez	Following meeting with Brock
A05	June 25, 2024	T Sanchez	Following meeting with Brock and LAWA
A06	July 10, 2024	T Sanchez	Update to reflect new process with Option 4.2 (use of RFID reader)

Name: catsa	Title: Process Flow Diagram
Date: July 10, 2024	Vanderlande_Doc_ID: 14703-031-00002-EN-A06
Scale: not applicable	Additional info:



**Open items:**

- Contingency cases

Listed below some examples under which item are sent to ICS

- RFID ID reader not available
- RFID tag no placed on bag
- South screening system not available
- Bag lost in tracking between RFID reader and pusher

Numbers shown below are achievable only under perfect conditions

		# Bags		
DR		3300		100%
South POD	L1 Clear	2442	2871	74%
	L2 Clear	429		50%
CBRA		429		
Re-insert		5		1%
South POD	L1 Clear	4	5	74%
	L2 Clear	1		50%
Going to ICS		0		0.00%

	3300	100%
CB4 ATR No Read	16	0.5%
CB4 ATR Good Read	3284	99.5%
Valid BSM	3284	N/A
Goind to ICS	16	0.48%

<b>Total going to ICS</b>	<b>16</b>	<b>0.48%</b>
---------------------------	-----------	--------------

Total ICS Item with no BSM	N/A	N/A
Total ICS Item Going to new Process	N/A	N/A
<b>Total Item Going to South System</b>	<b>3284</b>	<b>99.52%</b>

LAWA		VANDERLANDE	
Item name	Title	Process Flow Diagram	
Date	Version/Rev. Desc. No.	July 10, 2024 14703-031-00002-EN-A06	
Scale: not applicable	Additional info.	Airlinewant: Domestic re-check	

# Equipment Manifest for TC19

## Mechanical Conveyor Equipment

Activity	Description (Prices per Unit includes freight, taxes, and tariffs but excludes all other cost)	MC	Width	Unit	Unit Price	Quantity
<b>Belt Floor Conveyor (BF)</b>						
400000	<b>BF5.2 Transport Conveyor Drive Lmax=1.5m</b> Including Floor Supports, Sideguard and Underguarding	BF - Drive	1200	each	\$ 15,959.36	2
400000	<b>BF5.2 Transport Conveyor Drive Lmax=12m</b> Including Floor Supports, Sideguard and Underguarding	BF - Drive	1200	each	\$ 17,698.74	5
400000	<b>BF5.2 Transport Conveyor Drive Lmax=40m</b> Including Floor Supports, Sideguard and Underguarding	BF - Drive	1200	each	\$ 21,354.60	
400000	<b>BF5.2 Transport Conveyor Bed Section</b> Including Floor Supports, Sideguard and Underguarding	BF - Bed	1200	LF	\$ 1,050.79	132
400000	<b>BF5.2 Conveyor 45 Degree Merge</b> Belt Junction Floor Supported - 45°	BJ	1200	each	\$ 47,433.21	1
400000	<b>BF5.2 Power Curve 30 Degree</b> Floor Supported - 30°	BC-30	1200	each	\$ 20,575.37	
400000	<b>BF5.2 Power Curve 45 Degree</b> Floor Supported - 45°	BC-45	1200	each	\$ 22,641.99	2
400000	<b>BF5.2 Power Curve 90 Degree</b> Floor Supported - 90°	BC-90	1200	each	\$ 31,559.35	1
400000	<b>BF5.2 Noseover</b> Including Floor Supports	BF - Noseover	1200	each	\$ 4,323.77	1
400000	<b>BF5.2 Brake</b> Conveyor Drive	BR - Brake	1200	each	\$ 896.44	2
400000	<b>BF5.2 Vertical Sorter SVD or MVD</b> 3 Conv / Control Cabinet	SVD	n/a	each	\$ 97,912.71	
400000	<b>BF5.2 High Speed Diverter HCD II</b> HMI, Control Cabinet	HCD	n/a	each	\$ 77,775.88	
400000	<b>Transport Standard Conveyor Drive VI Standard</b> Transport Conveyor Drive (6 3/4' Drive) w/ VFD Including Floor Supports, Sideguard and Underguarding	BF - Drive	39"	each	\$ 34,289.99	3
400000	<b>Transport Standard Conveyor Drive VI Standard</b> Transport Conveyor Drive (8 3/4" Drive) w/ VFD including Floor Supports, Sideguard and Underguarding	BF - Drive	39"	each	\$ 43,091.45	
400000	<b>Transport Standard Conveyor Bed VI Standard</b> Transport Conveyor Bed Section Including Floor Supports, Sideguard and Underguarding	BF - Bed	39"	LF	\$ 3,056.70	51
400000	<b>Transport Standard Conveyor Queue VI Standard 6 3/4'</b> Drive 2HP w/ VFD Including Floor Supports, Sideguard and Underguarding	BFQ	39"	each	\$ 36,550.69	
400000	<b>45 Degree Merge VI Standard Conveyor</b> Belt Junction	BJ	39"	each	\$ 42,471.18	
400000	<b>Standard Curve</b> Floor Supported - 45°	BC-45	39"	each	\$ 28,163.45	
400000	<b>Standard Curve</b> Floor Supported - 90°	BC-90	39"	each	\$ 37,600.97	
400000	<b>Transport Conveyor Noseover</b>	BF - Noseover	39"	each	\$ 3,118.06	2

400000	Brake for Standard Conveyor Drive	BR - Brake	39"	each	\$	3,597.97	2
400000	add. Movimot VFD 2 HP	VFD	39"	each	\$	3,525.29	
400000	add. Movimot VFD 3 HP	VFD	39"	each	\$	4,901.33	
400000	add. Movimot VFD 5 HP	VFD	39"	each	\$	5,322.30	
400000	Transport Standard Conveyor Drive VI Standard 8 3/4 Drive 3HP w VFD Including Floor Supports, Sideguard and Underguarding	BF - Drive	57"	each	\$	45,272.52	
400000	Transport Standard Conveyor Bed VI Standard Transport Conveyor Bed Section Including Floor Supports, Sideguard and Underguarding	BF - Bed	57"	LF	\$	1,865.20	
400000	Standard Spiral Curve Floor Supported	BCS	57"	each	\$	80,148.95	
400000	Standard Curve Floor Supported - 90°	BC-90	57"	each	\$	56,633.48	
<b>Individual Carrier System (ICS)</b>							
400000	ICS Merge Belt (IFZ)	IFZ01	950	each	\$	51,438.15	
400000	Divert Module (OFZ)	OFZ01 (DW)	950	each	\$	58,957.38	
400000	Divert Module (OFZ) - MCSM	OFZ08 (DW)	950	each	\$	89,973.63	
400000	ICS Merge (LRJ) - Live Roller Junction for high capacity merge, includes supports & underguarding	LRJ	950	each	\$	9,084.82	
400000	ICS Curve (LWC) - Live Wheel Curve 30 Degrees includes supports and underguarding	LWC	1000	each	\$	12,309.94	
400000	ICS Curve (LWC) - Live Wheel Curve 45 Degrees includes supports and underguarding	LWC	1000	each	\$	13,977.76	
400000	ICS Curve (LWC) - Live Wheel Curve 60 Degrees includes supports and underguarding	LWC	1000	each	\$	15,583.95	
400000	ICS Curve (LWC) - Live Wheel Curve 90 Degrees includes supports and underguarding	LWC	1000	each	\$	19,549.37	
400000	ICS Curve (LWC) - Start Stop Function per 90 Degree Curve and Above	LWC	n/a	each	\$	6,748.38	
400000	ICS Curve (LWC) - additional drives for 180, 225, 150 and 225 degrees	LWC	1000	each	\$	39,888.47	
400000	Tube Stacker / DeStacker	SKZ	n/a	each	\$	80,563.50	
400000	Twin Belt (TB) - 1600mm Long includes drive, twin belts, sideguards & floor supports	TB	1050	each	\$	6,162.99	
400000	Twin Belt (TB) - 2000mm Long includes drive, twin belts, sideguards & floor supports	TB	1050	each	\$	7,457.22	
400000	Twin Belt (TB) - 2400mm Long includes drive, twin belts, sideguards & floor supports	TB	1050	each	\$	8,055.76	
400000	Twin Belt (TB) - 3600mm Long includes drive, twin belts, sideguards & floor supports	TB	1050	each	\$	9,123.95	
400000	Brake - ICS Element Inclines / Declines	TB - Brake	n/a	each	\$	1,146.26	
400000	LMS Local Motor Starter Cabinet- Including Conveyor mounted controls assembly: Photoeyes, Shaft Encoder, RFID Reader per drive. Field Wiring (wiring from the conduit tray to the LMS/motor) and Cable Tray	LMS	n/a	each	\$	8,844.27	
400000	ICS Loader Section	LDZ	1300	each	\$	98,308.24	
400000	ICS Unloader Section	UNZ	1500	each	\$	108,139.55	

400000	Fencing		n/a	LF	\$	204.41	
<b>Other Conveyor Equipment</b>							
400000	Temporary Chute (CH) - standard fixed steel chutes for	CHU	n/a	each	\$	11,413.98	
400100	Tubs - Small 1200X950	SBT	950	each	\$	823.50	
400100	Anti-fatigue Floor Mats for CBRA Area	budget	n/a	sqft	\$	125.78	
400100	Transition sideguard BF5.2/Raw		n/a	each	\$	1,176.98	
400100	Transition sideguard Raw/BF5.2		n/a	each	\$	882.73	
400100	CBRA Shrouding		n/a	LF	\$	386.17	
400300	Fire / Security Door 48" w x 48" h	FD	n/a	each	\$	15,631.57	2
<b>ICS Controls Conveyor Equipment</b>							
460300	Main Controls Cabinet: Includes Touch Panel (KTP400 color), Power Panel for Conveyor, Fans, HMI/Light, Cabinet Meter, Ethernet Protection, PLC Hot backup and PLC interfaces.	PLC		n/a	each	\$	163,548.16
460300	Safety Controls Cabinet: Includes Aircon, UPS backup +/- 15 min, Ethernet Protection, PLC and PLC interfaces.	ECC		n/a	each	\$	142,647.16
460300	Local Control Cabinet - Profinet Coupler			n/a	each	\$	11,214.16
460300	Local Control ASI - Profinet Gateway			n/a	each	\$	13,799.72
460000	Emergency Push Button w/ wiring	EMM	n/a	each	\$	1,411.78	
460000	Warning Light/Sound Element w/ wiring	EMM	n/a	each	\$	4,429.32	
460300	Profinet Network: Includes cabling and cable tray covering	PLC	n/a	LF	\$	174.12	
460000	Jam Resets Control Station	EMM	n/a	each	\$	10,446.30	
460000	Manual Coding Station	Essentials	n/a	each	\$	11,361.45	
<b>Platforms &amp; Steelworks</b>							
610000	Ship Ladder w safety gate - 24" Wide x 8' High	PF	n/a	each	\$	6,071.28	1
610000	Fixed Vertical Ladder w Safety Gate - 24" W x 8' H	PF	n/a	each	\$	2,091.35	
610000	Aluminum Swing Ladder	PF	n/a	each	\$	4,892.45	
610000	Pan Catwalk 10' Section - 27" Wide 10' Section	PF	n/a	each	\$	933.29	15
610000	42" H Single Sided Handrail 10' Section	PF	n/a	each	\$	451.99	15
610000	Sway Bracing Angle Kit - L=180"	PF	n/a	each	\$	229.66	30
610000	3" X 3" X 120" 1/4 ANGLE	PF	n/a	each	\$	164.91	30
610000	Header Steel B-B C Channel 150"	PF	n/a	each	\$	412.28	40
610000	Header Steel B-B C Channel 120"	PF	n/a	each	\$	329.83	39
610000	Header Connection Kit	PF	n/a	each	\$	141.70	80
610000	Hanging Kits - Sill, Drop Rods, Hardware	PF	n/a	each	\$	296.85	40
610000	Fail Safe Catwalk - 40ft cw + 5 ladders	PF	n/a	each	\$	39,677.07	
610000	Platform 125 psf - 3 ft wide x 40 ft long x 7ft high, 6 stairs each, railing w/kick plate 40 ft both sides	PF	n/a	each	\$	43,268.52	
<b>Hardware and Licenses</b>							
521000	Computer Hardware	ICS	n/a	unit	\$	38,601.17	
525000	Network Hardware	ICS	n/a	unit	\$	29,797.27	
527000	Licenses	ICS	n/a	unit	\$	148,934.45	

# Equipment Manifest for ST1

## Mechanical Conveyor Equipment

Activity	Description (Prices per Unit includes freight, taxes, and tariffs but excludes all other cost)	MC	Width	Unit	Unit Price	Quantity
<b>Belt Floor Conveyor (BF)</b>						
400000	BF5.2 Transport Conveyor Drive Lmax=1.5m Including Floor Supports, Sideguard and Underguarding	BF - Drive	1200	each	\$ 15,959.36	
400000	BF5.2 Transport Conveyor Drive Lmax=12m Including Floor Supports, Sideguard and Underguarding	BF - Drive	1200	each	\$ 17,698.74	9
400000	BF5.2 Transport Conveyor Drive Lmax=40m Including Floor Supports, Sideguard and Underguarding	BF - Drive	1200	each	\$ 21,354.60	
400000	BF5.2 Transport Conveyor Bed Section Including Floor Supports, Sideguard and Underguarding	BF - Bed	1200	LF	\$ 1,050.79	167
400000	BF5.2 Conveyor 45 Degree Merge Belt Junction Floor Supported - 45°	BJ	1200	each	\$ 47,433.21	1
400000	BF5.2 Power Curve 30 Degree Floor Supported - 30°	BC-30	1200	each	\$ 20,575.37	
400000	BF5.2 Power Curve 45 Degree Floor Supported - 45°	BC-45	1200	each	\$ 22,641.99	5
400000	BF5.2 Power Curve 90 Degree Floor Supported - 90°	BC-90	1200	each	\$ 31,559.35	2
400000	BF5.2 Noseover Including Floor Supports	BF - Noseover	1200	each	\$ 4,323.77	
400000	BF5.2 Brake Conveyor Drive	BR - Brake	1200	each	\$ 896.44	2
400000	BF5.2 Vertical Sorter SVD or MVD 3 Conv / Control Cabinet	SVD	n/a	each	\$ 97,912.71	
400000	BF5.2 High Speed Diverter HCD II HMI, Control Cabinet	HCD	n/a	each	\$ 77,775.88	
400000	Transport Standard Conveyor Drive VI Standard Transport Conveyor Drive (6 3/4" Drive) w/ VFD Including Floor Supports, Sideguard and Underguarding	BF - Drive	39"	each	\$ 34,289.99	
400000	Transport Standard Conveyor Drive VI Standard Transport Conveyor Drive (8 3/4" Drive) w/ VFD Including Floor Supports, Sideguard and Underguarding	BF - Drive	39"	each	\$ 43,091.45	
400000	Transport Standard Conveyor Bed VI Standard Transport Conveyor Bed Section Including Floor Supports, Sideguard and Underguarding	BF - Bed	39"	LF	\$ 3,056.70	
400000	Transport Standard Conveyor Queue VI Standard 6 3/4" Drive 2HP w/ VFD Including Floor Supports, Sideguard and Underguarding	BFQ	39"	each	\$ 36,550.69	
400000	45 Degree Merge VI Standard Conveyor Belt Junction	BJ	39"	each	\$ 42,471.18	
400000	Standard Curve Floor Supported - 45°	BC-45	39"	each	\$ 28,163.45	
400000	Standard Curve Floor Supported - 90°	BC-90	39"	each	\$ 37,600.97	
400000	Transport Conveyor Noseover	BF - Noseover	39"	each	\$ 3,118.06	
400000	Brake for Standard Conveyor Drive	BR - Brake	39"	each	\$ 3,597.97	
400000	add. Movimot VFD 2 HP	VFD	39"	each	\$ 3,525.29	
400000	add. Movimot VFD 3 HP	VFD	39"	each	\$ 4,901.33	
400000	add. Movimot VFD 5 HP	VFD	39"	each	\$ 5,322.30	

400000	Transport Standard Conveyor Drive VI Standard 8 3/4 Drive 3HP w VFD Including Floor Supports, Sideguard and Underguarding	BF - Drive	57"	each	\$	45,272.52	
400000	Transport Standard Conveyor Bed VI Standard Transport Conveyor Bed Section Including Floor Supports, Sideguard and Underguarding	BF - Bed	57"	LF	\$	1,865.20	
400000	Standard Spiral Curve Floor Supported	BCS	57"	each	\$	80,148.95	
400000	Standard Curve Floor Supported - 90°	BC-90	57"	each	\$	56,633.48	
<b>Individual Carrier System (ICS)</b>							
400000	ICS Merge Belt (IFZ)	IFZ01	950	each	\$	51,438.15	
400000	Divert Module (OFZ)	OFZ01 (DW)	950	each	\$	58,957.38	
400000	Divert Module (OFZ) - MCSM	OFZ08 (DW)	950	each	\$	89,973.63	
400000	ICS Merge (LRJ) - Live Roller Junction for high capacity merge, includes supports & underguarding	LRJ	950	each	\$	9,084.82	
400000	ICS Curve (LWC) - Live Wheel Curve 30 Degrees includes supports and underguarding	LWC	1000	each	\$	12,309.94	
400000	ICS Curve (LWC) - Live Wheel Curve 45 Degrees includes supports and underguarding	LWC	1000	each	\$	13,977.76	
400000	ICS Curve (LWC) - Live Wheel Curve 60 Degrees includes supports and underguarding	LWC	1000	each	\$	15,583.95	
400000	ICS Curve (LWC) - Live Wheel Curve 90 Degrees includes supports and underguarding	LWC	1000	each	\$	19,549.37	
400000	ICS Curve (LWC) - Start Stop Function per 90 Degree Curve and Above	LWC	n/a	each	\$	6,748.38	
400000	ICS Curve (LWC) - additional drives for 180, 225, 150 and 225 degrees	LWC	1000	each	\$	39,888.47	
400000	Tub Stacker / DeStacker	SKZ	n/a	each	\$	80,563.50	
400000	Twin Belt (TB) - 1600mm Long includes drive, twin belts, sideguards & floor supports	TB	1050	each	\$	6,162.99	
400000	Twin Belt (TB) - 2000mm Long includes drive, twin belts, sideguards & floor supports	TB	1050	each	\$	7,457.22	
400000	Twin Belt (TB) - 2400mm Long includes drive, twin belts, sideguards & floor supports	TB	1050	each	\$	8,055.76	
400000	Twin Belt (TB) - 3600mm Long includes drive, twin belts, sideguards & floor supports	TB	1050	each	\$	9,123.95	
400000	Brake - ICS Element Inclines / Declines	TB - Brake	n/a	each	\$	1,146.26	
400000	LMS Local Motor Starter Cabinet- Including Conveyor mounted controls assembly: Photoeyes, Shaft Encoder, RFID Reader per drive. Field Wiring (wiring from the conduit tray to the LMS/motor) and Cable Tray.	LMS	n/a	each	\$	8,844.27	
400000	ICS Loader Section	LDZ	1300	each	\$	98,308.24	
400000	ICS Unloader Section	UNZ	1500	each	\$	108,139.55	
400000	Fencing		n/a	LF	\$	204.41	
<b>Other Conveyor Equipment</b>							
400000	Temporary Chute (CH) - standard fixed steel chutes for	CHU	n/a	each	\$	11,413.98	
400100	Tubs - Small 1200x950	SBT	950	each	\$	823.50	
400100	Anti-fatigue Floor Mats for CBRA Area	budget	n/a	sqft	\$	125.78	
400100	Transition sideguard BFS.2/Raw		n/a	each	\$	1,176.98	
400100	Transition sideguard Raw/BFS.2		n/a	each	\$	882.73	
400100	CBRA Shrouding		n/a	LF	\$	386.17	
400300	Fire / Security Door 48' w x 48'h	FD	n/a	each	\$	15,631.57	
<b>ICS Controls Conveyor Equipment</b>							

460300	Main Controls Cabinet: Includes Touch Panel (KTP400 color), Power Panel for Conveyor, Fans, HMI/Light, Cabinet Meter, Ethernet Protection, PLC Hot backup and PLC interfaces.	PLC	n/a	each	\$ 163,548.16	
460300	Safety Controls Cabinet: Includes Aircon, UPS backup +/- 15 min, Ethernet Protection, PLC and PLC interfaces.	ECC	n/a	each	\$ 142,647.16	
460300	Local Control Cabinet - Profinet Coupler		n/a	each	\$ 11,214.16	
460300	Local Control ASI - Profinet Gateway		n/a	each	\$ 13,799.72	
460000	Emergency Push Button w/ wiring	EMM	n/a	each	\$ 1,411.78	
460000	Warning Light/Sound Element w/ wiring	EMM	n/a	each	\$ 4,429.32	
460300	Profinet Network: Includes cabling and cable tray covering	PLC	n/a	LF	\$ 174.12	
460000	Jam Resets Control Station	EMM	n/a	each	\$ 10,446.30	
460000	Manual Coding Station	Essentials	n/a	each	\$ 11,361.45	
<b>Platforms &amp; Steelworks</b>						
610000	Ship Ladder w safety gate - 24" Wide x 8' High	PF	n/a	each	\$ 6,071.28	3
610000	Fixed Vertical Ladder w Safety Gate - 24" W x 8' H	PF	n/a	each	\$ 2,091.35	1
610000	Aluminum Swing Ladder	PF	n/a	each	\$ 4,892.45	
610000	Pan Catwalk 10' Section - 27" Wide 10' Section	PF	n/a	each	\$ 933.29	16
610000	42" H Single Sided Handrail 10' Section	PF	n/a	each	\$ 451.99	16
610000	Sway Bracing Angle Kit - L=180"	PF	n/a	each	\$ 229.66	32
610000	3" X 3" X 120" 1/4 ANGLE	PF	n/a	each	\$ 164.91	32
610000	Header Steel B-B C Channel 150"	PF	n/a	each	\$ 412.28	54
610000	Header Steel B-B C Channel 120"	PF	n/a	each	\$ 329.83	35
610000	Header Connection Kit	PF	n/a	each	\$ 141.70	108
610000	Hanging Kits - Sill, Drop Rods, Hardware	PF	n/a	each	\$ 296.85	54
610000	Fail Safe Catwalk - 40ft cw + 5 ladders	PF	n/a	each	\$ 39,677.07	
610000	Platform 125 psf - 3 ft wide x 40 ft long x 7ft high, 6 stairs each, railing w/kick plate 40 ft both sides	PF	n/a	each	\$ 43,268.52	
<b>Hardware and Licenses</b>						
521000	Computer Hardware	ICS	n/a	unit	\$ 38,601.17	
525000	Network Hardware	ICS	n/a	unit	\$ 29,797.27	
527000	Licenses	ICS	n/a	unit	\$ 148,934.45	

# Equipment Manifest for Domestic Recheck

## Mechanical Conveyor Equipment

Activity	Description (Prices per Unit includes freight, taxes, and tariffs but excludes all other cost)	MC	Width	Unit	Unit Price	Quantity
<b>Belt Floor Conveyor (BF)</b>						
400000	BF5.2 Transport Conveyor Drive Lmax=1.5m Including Floor Supports, Sideguard and Underguarding	BF - Drive	1200	each	\$ 15,959.36	1
400000	BF5.2 Transport Conveyor Drive Lmax=12m Including Floor Supports, Sideguard and Underguarding	BF - Drive	1200	each	\$ 17,698.74	7
400000	BF5.2 Transport Conveyor Drive Lmax=40m Including Floor Supports, Sideguard and Underguarding	BF - Drive	1200	each	\$ 21,354.60	
400000	BF5.2 Transport Conveyor Bed Section Including Floor Supports, Sideguard and Underguarding	BF - Bed	1200	LF	\$ 1,050.79	178
400000	BF5.2 Conveyor 45 Degree Merge Belt Junction Floor Supported - 45°	BJ	1200	each	\$ 47,433.21	1
400000	BF5.2 Power Curve 30 Degree Floor Supported - 30°	BC-30	1200	each	\$ 20,575.37	
400000	BF5.2 Power Curve 45 Degree Floor Supported - 45°	BC-45	1200	each	\$ 22,641.99	5
400000	BF5.2 Power Curve 90 Degree Floor Supported - 90°	BC-90	1200	each	\$ 31,559.35	1
400000	BF5.2 Noseover Including Floor Supports	BF - Noseover	1200	each	\$ 4,323.77	
400000	BF5.2 Brake Conveyor Drive	BR - Brake	1200	each	\$ 896.44	2
400000	BF5.2 Vertical Sorter SVD or MVD 3 Conv / Control Cabinet	SVD	n/a	each	\$ 97,912.71	
400000	BF5.2 High Speed Diverter HCD II HMI, Control Cabinet	HCD	n/a	each	\$ 77,775.88	1
400000	Transport Standard Conveyor Drive VI Standard Transport Conveyor Drive (6 3/4" Drive) w/ VFD Including Floor Supports, Sideguard and Underguarding	BF - Drive	39"	each	\$ 34,289.99	10
400000	Transport Standard Conveyor Drive VI Standard Transport Conveyor Drive (8 3/4" Drive) / VFD Including Floor Supports, Sideguard and Underguarding	BF - Drive	39"	each	\$ 43,091.45	1
400000	Transport Standard Conveyor Bed VI Standard Transport Conveyor Bed Section Including Floor Supports, Sideguard and Underguarding	BF - Bed	39"	LF	\$ 3,056.70	160
400000	Transport Standard Conveyor Queue VI Standard 6 3/4 Drive 2HP w/ VFD Including Floor Supports, Sideguard and Underguarding	BFQ	39"	each	\$ 36,550.69	
400000	45 Degree Merge VI Standard Conveyor Belt Junction	BJ	39"	each	\$ 42,471.18	
400000	Standard Curve Floor Supported - 45°	BC-45	39"	each	\$ 28,163.45	6
400000	Standard Curve Floor Supported - 90°	BC-90	39"	each	\$ 37,600.97	7
400000	Transport Conveyor Noseover	BF - Noseover	39"	each	\$ 3,118.06	
400000	Brake for Standard Conveyor Drive	BR - Brake	39"	each	\$ 3,597.97	9
400000	add. Movimot VFD 2 HP	VFD	39"	each	\$ 3,525.29	
400000	add. Movimot VFD 3 HP	VFD	39"	each	\$ 4,901.33	
400000	add. Movimot VFD 5 HP	VFD	39"	each	\$ 5,322.30	

400000	Transport Standard Conveyor Drive VI Standard 8 3/4 Drive 3HP w VFD Including Floor Supports, Sideguard and Underguarding	BF - Drive	57"	each	\$	45,272.52	
400000	Transport Standard Conveyor Bed VI Standard Transport Conveyor Bed Section Including Floor Supports, Sideguard and Underguarding	BF - Bed	57"	LF	\$	1,865.20	
400000	Standard Spiral Curve Floor Supported	BCS	57"	each	\$	80,148.95	
400000	Standard Curve Floor Supported - 90°	BC-90	57"	each	\$	56,633.48	
<b>Individual Carrier System (ICS)</b>							
400000	ICS Merge Belt (IFZ)	IFZ01	950	each	\$	51,438.15	
400000	Divert Module (OFZ)	OFZ01 (DW)	950	each	\$	58,957.38	
400000	Divert Module (OFZ) - MCSM	OFZ08 (DW)	950	each	\$	89,973.63	
400000	ICS Merge (LRJ) - Live Roller Junction for high capacity merge, includes supports & underguarding	LRJ	950	each	\$	9,084.82	
400000	ICS Curve (LWC) - Live Wheel Curve 30 Degrees includes supports and underguarding	LWC	1000	each	\$	12,309.94	
400000	ICS Curve (LWC) - Live Wheel Curve 45 Degrees includes supports and underguarding	LWC	1000	each	\$	13,977.76	
400000	ICS Curve (LWC) - Live Wheel Curve 60 Degrees includes supports and underguarding	LWC	1000	each	\$	15,583.95	
400000	ICS Curve (LWC) - Live Wheel Curve 90 Degrees includes supports and underguarding	LWC	1000	each	\$	19,549.37	
400000	ICS Curve (LWC) - Start Stop Function per 90 Degree Curve and Above	LWC	n/a	each	\$	6,748.38	
400000	ICS Curve (LWC) - additional drives for 180, 225, 150 and 225 degrees	LWC	1000	each	\$	39,888.47	
400000	Tub Stacker / DeStacker	SKZ	n/a	each	\$	80,563.50	
400000	Twin Belt (TB) - 1600mm Long includes drive, twin belts, sideguards & floor supports	TB	1050	each	\$	6,162.99	
400000	Twin Belt (TB) - 2000mm Long includes drive, twin belts, sideguards & floor supports	TB	1050	each	\$	7,457.22	
400000	Twin Belt (TB) - 2400mm Long includes drive, twin belts, sideguards & floor supports	TB	1050	each	\$	8,055.76	
400000	Twin Belt (TB) - 3600mm Long includes drive, twin belts, sideguards & floor supports	TB	1050	each	\$	9,123.95	
400000	Brake - ICS Element Inclines / Declines	TB - Brake	n/a	each	\$	1,146.26	
400000	LMS Local Motor Starter Cabinet- Including Conveyor mounted controls assembly: Photoeyes, Shaft Encoder, RFID Reader per drive. Field Wiring (wiring from the conduit tray to the LMS/motor) and Cable Tray	LMS	n/a	each	\$	8,844.27	
400000	ICS Loader Section	LDZ	1300	each	\$	98,308.24	
400000	ICS Unloader Section	UNZ	1500	each	\$	108,139.55	
400000	Fencing		n/a	LF	\$	204.41	
<b>Other Conveyor Equipment</b>							
400000	Temporary Chute (CH) - standard fixed steel chutes for	CHU	n/a	each	\$	11,413.98	
400100	Tubs - Small 1200X950	SBT	950	each	\$	823.50	
400100	Anti-fatigue Floor Mats for CBRA Area	budget	n/a	sqft	\$	125.78	
400100	Transition sideguard BF5.2/Raw		n/a	each	\$	1,176.98	2
400100	Transition sideguard Raw/BF5.2		n/a	each	\$	882.73	
400100	CBRA Shrouding		n/a	LF	\$	386.17	
400300	Fire / Security Door 48" w x 48" h	FD	n/a	each	\$	15,631.57	1
<b>ICS Controls Conveyor Equipment</b>							

460300	Main Controls Cabinet: Includes Touch Panel (KTP400 color), Power Panel for Conveyor, Fans, HMI/Light, Cabinet Meter, Ethernet Protection, PLC Hot backup and PLC interfaces.	PLC	n/a	each	\$ 163,548.16	
460300	Safety Controls Cabinet: Includes Aircon, UPS backup +/- 15 min, Ethernet Protection, PLC and PLC interfaces.	ECC	n/a	each	\$ 142,647.16	
460300	Local Control Cabinet - Profinet Coupler		n/a	each	\$ 11,214.16	
460300	Local Control ASI - Profinet Gateway		n/a	each	\$ 13,799.72	
460000	Emergency Push Button w/ wiring	EMM	n/a	each	\$ 1,411.78	
460000	Warning Light/Sound Element w/ wiring	EMM	n/a	each	\$ 4,429.32	
460300	Profinet Network: Includes cabling and cable tray covering	PLC	n/a	LF	\$ 174.12	
460000	Jam Resets Control Station	EMM	n/a	each	\$ 10,446.30	
460000	Manual Coding Station	Essentials	n/a	each	\$ 11,361.45	
<b>Platforms &amp; Steelworks</b>						
610000	Ship Ladder w safety gate - 24" Wide x 8' High	PF	n/a	each	\$ 6,071.28	1
610000	Fixed Vertical Ladder w Safety Gate - 24" W x 8' H	PF	n/a	each	\$ 2,091.35	2
610000	Aluminum Swing Ladder	PF	n/a	each	\$ 4,892.45	3
610000	Pan Catwalk 10' Section - 27" Wide 10' Section	PF	n/a	each	\$ 933.29	30
610000	42" H Single Sided Handrail 10' Section	PF	n/a	each	\$ 451.99	30
610000	Sway Bracing Angle Kit - L=180"	PF	n/a	each	\$ 229.66	60
610000	3" X 3" X 120" 1/4 ANGLE	PF	n/a	each	\$ 164.91	60
610000	Header Steel B-B C Channel 150"	PF	n/a	each	\$ 412.28	154
610000	Header Steel B-B C Channel 120"	PF	n/a	each	\$ 329.83	79
610000	Header Connection Kit	PF	n/a	each	\$ 141.70	308
610000	Hanging Kits - Sill, Drop Rods, Hardware	PF	n/a	each	\$ 296.85	154
610000	Fail Safe Catwalk - 40ft cw + 5 ladders	PF	n/a	each	\$ 39,677.07	
610000	Platform 125 psf - 3 ft wide x 40 ft long x 7ft high, 6 stairs each, railing w/kick plate 40 ft both sides	PF	n/a	each	\$ 43,268.52	
<b>Hardware and Licenses</b>						
521000	Computer Hardware	ICS	n/a	unit	\$ 38,601.17	
525000	Network Hardware	ICS	n/a	unit	\$ 29,797.27	
527000	Licenses	ICS	n/a	unit	\$ 148,934.45	

# Equipment Manifest for Domestic Feedline

## Mechanical Conveyor Equipment

Activity	Description (Prices per Unit includes freight, taxes, and tariffs but excludes all other cost)	MC	Width	Unit	Unit Price	Quantity
<b>Belt Floor Conveyor (BF)</b>						
400000	<b>BF5.2 Transport Conveyor Drive Lmax=1.5m</b> Including Floor Supports, Sideguard and Underguarding	BF - Drive	1200	each	\$ 15,959.36	1
400000	<b>BF5.2 Transport Conveyor Drive Lmax=12m</b> Including Floor Supports, Sideguard and Underguarding	BF - Drive	1200	each	\$ 17,698.74	6
400000	<b>BF5.2 Transport Conveyor Drive Lmax=40m</b> Including Floor Supports, Sideguard and Underguarding	BF - Drive	1200	each	\$ 21,354.60	
400000	<b>BF5.2 Transport Conveyor Bed Section</b> Including Floor Supports, Sideguard and Underguarding	BF - Bed	1200	LF	\$ 1,050.79	192
400000	<b>BF5.2 Conveyor 45 Degree Merge</b> Belt Junction Floor Supported - 45°	BJ	1200	each	\$ 47,433.21	
400000	<b>BF5.2 Power Curve 30 Degree</b> Floor Supported - 30°	BC-30	1200	each	\$ 20,575.37	
400000	<b>BF5.2 Power Curve 45 Degree</b> Floor Supported - 45°	BC-45	1200	each	\$ 22,641.99	2
400000	<b>BF5.2 Power Curve 90 Degree</b> Floor Supported - 90°	BC-90	1200	each	\$ 31,559.35	3
400000	<b>BF5.2 Noseover</b> Including Floor Supports	BF - Noseover	1200	each	\$ 4,323.77	
400000	<b>BF5.2 Brake Conveyor Drive</b>	BR - Brake	1200	each	\$ 896.44	2
400000	<b>BF5.2 Vertical Sorter SVD or MVD</b> 3 Conv / Control Cabinet	SVD	n/a	each	\$ 97,912.71	
400000	<b>BF5.2 High Speed Diverter HCD II</b> HMI, Control Cabinet	HCD	n/a	each	\$ 77,775.88	
400000	<b>Transport Standard Conveyor Drive VI Standard</b> Transport Conveyor Drive (6 3/4" Drive) w/ VFD Including Floor Supports, Sideguard and Underguarding	BF - Drive	39"	each	\$ 34,289.99	
400000	<b>Transport Standard Conveyor Drive VI Standard</b> Transport Conveyor Drive (8 3/4" Drive) w/ VFD Including Floor Supports, Sideguard and Underguarding	BF - Drive	39"	each	\$ 43,091.45	
400000	<b>Transport Standard Conveyor Bed VI Standard</b> Transport Conveyor Bed Section Including Floor Supports, Sideguard and Underguarding	BF - Bed	39"	LF	\$ 3,056.70	
400000	<b>Transport Standard Conveyor Queue VI Standard</b> 6 3/4" Drive 2HP w/ VFD Including Floor Supports, Sideguard and Underguarding	BFQ	39"	each	\$ 36,550.69	
400000	<b>45 Degree Merge VI Standard Conveyor</b> Belt Junction	BJ	39"	each	\$ 42,471.18	
400000	<b>Standard Curve Floor Supported - 45°</b>	BC-45	39"	each	\$ 28,163.45	
400000	<b>Standard Curve Floor Supported - 90°</b>	BC-90	39"	each	\$ 37,600.97	
400000	<b>Transport Conveyor Noseover</b>	BF - Noseover	39"	each	\$ 3,118.06	
400000	<b>Brake for Standard Conveyor Drive</b>	BR - Brake	39"	each	\$ 3,597.97	
400000	add. Movimot VFD 2 HP	VFD	39"	each	\$ 3,525.29	
400000	add. Movimot VFD 3 HP	VFD	39"	each	\$ 4,901.33	
400000	add. Movimot VFD 5 HP	VFD	39"	each	\$ 5,322.30	

400000	Transport Standard Conveyor Drive VI Standard 8 3/4 Drive 3HP w VFD Including Floor Supports, Sideguard and Underguarding	BF - Drive	57"	each	\$ 45,272.52	
400000	Transport Standard Conveyor Bed VI Standard Transport Conveyor Bed Section Including Floor Supports, Sideguard and Underguarding	BF - Bed	57"	LF	\$ 1,865.20	
400000	Standard Spiral Curve Floor Supported	BCS	57"	each	\$ 80,148.95	
400000	Standard Curve Floor Supported - 90°	BC-90	57"	each	\$ 56,633.48	
<b>Individual Carrier System (ICS)</b>						
400000	ICS Merge Belt (IFZ)	IFZ01	950	each	\$ 51,438.15	
400000	Divert Module (OFZ)	OFZ01 (DW)	950	each	\$ 58,957.38	
400000	Divert Module (OFZ) - MCSM	OFZ08 (DW)	950	each	\$ 89,973.63	
400000	ICS Merge (LRJ) - Live Roller Junction for high capacity merge, includes supports & underguarding	LRJ	950	each	\$ 9,084.82	
400000	ICS Curve (LWC) - Live Wheel Curve 30 Degrees includes supports and underguarding	LWC	1000	each	\$ 12,309.94	
400000	ICS Curve (LWC) - Live Wheel Curve 45 Degrees includes supports and underguarding	LWC	1000	each	\$ 13,977.76	
400000	ICS Curve (LWC) - Live Wheel Curve 60 Degrees includes supports and underguarding	LWC	1000	each	\$ 15,583.95	
400000	ICS Curve (LWC) - Live Wheel Curve 90 Degrees includes supports and underguarding	LWC	1000	each	\$ 19,549.37	
400000	ICS Curve (LWC) - Start Stop Function per 90 Degree Curve and Above	LWC	n/a	each	\$ 6,748.38	
400000	ICS Curve (LWC) - additional drives for 180, 225, 150 and 225 degrees	LWC	1000	each	\$ 39,888.47	
400000	Tub Stacker / DeStacker	SKZ	n/a	each	\$ 80,563.50	
400000	Twin Belt (TB) - 1600mm Long includes drive, twin belts, sideguards & floor supports	TB	1050	each	\$ 6,162.99	
400000	Twin Belt (TB) - 2000mm Long includes drive, twin belts, sideguards & floor supports	TB	1050	each	\$ 7,457.22	
400000	Twin Belt (TB) - 2400mm Long includes drive, twin belts, sideguards & floor supports	TB	1050	each	\$ 8,055.76	
400000	Twin Belt (TB) - 3600mm Long includes drive, twin belts, sideguards & floor supports	TB	1050	each	\$ 9,123.95	
400000	Brake - ICS Element Inclines / Declines	TB - Brake	n/a	each	\$ 1,146.26	
400000	LMS Local Motor Starter Cabinet- Including Conveyor mounted controls assembly: Photoeyes, Shaft Encoder, RFID Reader per drive. Field Wiring (wiring from the conduit tray to the LMS/motor) and Cable Tray	LMS	n/a	each	\$ 8,844.27	
400000	ICS Loader Section	LDZ	1300	each	\$ 98,308.24	
400000	ICS Unloader Section	UNZ	1500	each	\$ 108,139.55	
400000	Fencing		n/a	LF	\$ 204.41	
<b>Other Conveyor Equipment</b>						
400000	Temporary Chute (CH) - standard fixed steel chutes for	CHU	n/a	each	\$ 11,413.98	
400100	Tubs - Small 1200X950	SBT	950	each	\$ 828.50	
400100	Anti-fatigue Floor Mats for CBRA Area	budget	n/a	sqft	\$ 125.78	
400100	Transition sideguard BF5.2/Raw		n/a	each	\$ 1,176.98	
400100	Transition sideguard Raw/BF5.2		n/a	each	\$ 882.73	
400100	CBRA Shrouding		n/a	LF	\$ 386.17	
400300	Fire / Security Door 48" w x 48" h	FD	n/a	each	\$ 15,631.57	2
<b>ICS Controls Conveyor Equipment</b>						

460300	Main Controls Cabinet: Includes Touch Panel (KTP400 color), Power Panel for Conveyor, Fans, HMI/Light, Cabinet Meter, Ethernet Protection, PLC Hot backup and PLC interfaces.	PLC	n/a	each	\$ 163,548.16	
460300	Safety Controls Cabinet: Includes Aircon, UPS backup +/- 15 min, Ethernet Protection, PLC and PLC interfaces.	ECC	n/a	each	\$ 142,647.16	
460300	Local Control Cabinet - Profinet Coupler		n/a	each	\$ 11,214.16	
460300	Local Control ASI - Profinet Gateway		n/a	each	\$ 13,799.72	
460000	Emergency Push Button w/ wiring	EMM	n/a	each	\$ 1,411.78	
450000	Warning Light/Sound Element w/ wiring	EMM	n/a	each	\$ 4,429.32	
460300	Profinet Network: Includes cabling and cable tray covering	PLC	n/a	LF	\$ 174.12	
460000	Jam Resets Control Station	EMM	n/a	each	\$ 10,446.30	
460000	Manual Coding Station	Essentials	n/a	each	\$ 11,361.45	
<b>Platforms &amp; Steelworks</b>						
610000	Ship Ladder w safety gate - 24" Wide x 8' High	PF	n/a	each	\$ 6,071.28	
610000	Fixed Vertical Ladder w Safety Gate - 24" W x 8' H	PF	n/a	each	\$ 2,091.35	
610000	Aluminum Swing Ladder	PF	n/a	each	\$ 4,892.45	
610000	Pan Catwalk 10' Section - 27" Wide 10' Section	PF	n/a	each	\$ 933.29	
610000	42" H Single Sided Handrail 10' Section	PF	n/a	each	\$ 451.99	
610000	Sway Bracing Angle Kit - L=180"	PF	n/a	each	\$ 229.66	
610000	3" X 3" X 120" 1/4 ANGLE	PF	n/a	each	\$ 164.91	
610000	Header Steel B-B C Channel 150"	PF	n/a	each	\$ 412.28	
610000	Header Steel B-B C Channel 120"	PF	n/a	each	\$ 329.83	
610000	Header Connection Kit	PF	n/a	each	\$ 141.70	
610000	Hanging Kits - Sill, Drop Rods, Hardware	PF	n/a	each	\$ 296.85	
610000	Fail Safe Catwalk - 40ft cw + 5 ladders	PF	n/a	each	\$ 39,677.07	
610000	Platform 125 psf - 3 ft wide x 40 ft long x 7ft high, 6 stairs each, railing w/kick plate 40 ft both sides	PF	n/a	each	\$ 43,268.52	
<b>Hardware and Licenses</b>						
521000	Computer Hardware	ICS	n/a	unit	\$ 38,601.17	
525000	Network Hardware	ICS	n/a	unit	\$ 29,797.27	
527000	Licenses	ICS	n/a	unit	\$ 148,934.45	

# Equipment Manifest for Domestic Oversize

## Mechanical Conveyor Equipment

Activity	Description (Prices per Unit includes freight, taxes, and tariffs but excludes all other cost)	MC	Width	Unit	Unit Price	Quantity
Belt Floor Conveyor (BF)						
400000	BF5.2 Transport Conveyor Drive Lmax=1.5m Including Floor Supports, Sideguard and Underguarding	BF - Drive	1200	each	\$ 15,959.36	
400000	BF5.2 Transport Conveyor Drive Lmax=12m Including Floor Supports, Sideguard and Underguarding	BF - Drive	1200	each	\$ 17,698.74	
400000	BF5.2 Transport Conveyor Drive Lmax=40m Including Floor Supports, Sideguard and Underguarding	BF - Drive	1200	each	\$ 21,354.60	
400000	BF5.2 Transport Conveyor Bed Section Including Floor Supports, Sideguard and Underguarding	BF - Bed	1200	LF	\$ 1,050.79	
400000	BF5.2 Conveyor 45 Degree Merge Belt Junction Floor Supported - 45°	BJ	1200	each	\$ 47,433.21	
400000	BF5.2 Power Curve 30 Degree Floor Supported - 30°	BC-30	1200	each	\$ 20,575.37	
400000	BF5.2 Power Curve 45 Degree Floor Supported - 45°	BC-45	1200	each	\$ 22,641.99	
400000	BF5.2 Power Curve 90 Degree Floor Supported - 90°	BC-90	1200	each	\$ 31,559.35	
400000	BF5.2 Noseover Including Floor Supports	BF - Noseover	1200	each	\$ 4,323.77	
400000	BF5.2 Brake Conveyor Drive	BR - Brake	1200	each	\$ 896.44	
400000	BF5.2 Vertical Sorter SVD or MVD 3 Conv / Control Cabinet	SVD	n/a	each	\$ 97,912.71	
400000	BF5.2 High Speed Diverter HCD II HMI, Control Cabinet	HCD	n/a	each	\$ 77,775.88	
400000	Transport Standard Conveyor Drive VI Standard Transport Conveyor Drive (6 3/4" Drive) w/ VFD Including Floor Supports, Sideguard and Underguarding	BF - Drive	39"	each	\$ 34,289.99	2
400000	Transport Standard Conveyor Drive VI Standard Transport Conveyor Drive (8 3/4" Drive) w/ VFD Including Floor Supports, Sideguard and Underguarding	BF - Drive	39"	each	\$ 43,091.45	
400000	Transport Standard Conveyor Bed VI Standard Transport Conveyor Bed Section Including Floor Supports, Sideguard and Underguarding	BF - Bed	39"	LF	\$ 3,056.70	30
400000	Transport Standard Conveyor Queue VI Standard Drive 2HP w/ VFD Including Floor Supports, Sideguard and Underguarding	BFQ	39"	each	\$ 36,550.69	
400000	45 Degree Merge VI Standard Conveyor Belt Junction	BJ	39"	each	\$ 42,471.18	
400000	Standard Curve Floor Supported - 45°	BC-45	39"	each	\$ 28,163.5	
400000	Standard Curve Floor Supported - 90°	BC-90	39"	each	\$ 37,600.97	
400000	Transport Conveyor Noseover	BF - Noseover	39"	each	\$ 3,118.06	
400000	Brake for Standard Conveyor Drive	BR - Brake	39"	each	\$ 3,597.97	
400000	add. Movimot VFD 2 HP	VFD	39"	each	\$ 3,525.29	
400000	add. Movimot VFD 3 HP	VFD	39"	each	\$ 4,901.33	
400000	add. Movimot VFD 5 HP	VFD	39"	each	\$ 5,322.30	

400000	Transport Standard Conveyor Drive VI Standard 8 3/4 Drive 3HP w VFD Including Floor Supports, Sideguard and Underguarding	BF - Drive	57"	each	\$ 45,272.52	11
400000	Transport Standard Conveyor Bed VI Standard Transport Conveyor Bed Section Including Floor Supports, Sideguard and Underguarding	BF - Bed	57"	LF	\$ 1,865.20	199
400000	Standard Spiral Curve Floor Supported	BCS	57"	each	\$ 80,148.95	2
400000	Standard Curve Floor Supported - 90°	BC-90	57"	each	\$ 56,633.48	
<b>Individual Carrier System (ICS)</b>						
400000	ICS Merge Belt (IFZ)	IFZ01	950	each	\$ 51,438.15	
400000	Divert Module (OFZ)	OFZ01 (DW)	950	each	\$ 58,957.38	
400000	Divert Module (OFZ) - MCSM	OFZ08 (DW)	950	each	\$ 89,973.63	
400000	ICS Merge (LRJ) - Live Roller Junction for high capacity merge, includes supports & underguarding	LRJ	950	each	\$ 9,084.82	
400000	ICS Curve (LWC) - Live Wheel Curve 30 Degrees includes supports and underguarding	LWC	1000	each	\$ 12,309.94	
400000	ICS Curve (LWC) - Live Wheel Curve 45 Degrees includes supports and underguarding	LWC	1000	each	\$ 13,977.76	
400000	ICS Curve (LWC) - Live Wheel Curve 60 Degrees includes supports and underguarding	LWC	1000	each	\$ 15,583.95	
400000	ICS Curve (LWC) - Live Wheel Curve 90 Degrees includes supports and underguarding	LWC	1000	each	\$ 19,549.37	
400000	ICS Curve (LWC) - Start Stop Function per 90 Degree Curve and Above	LWC	n/a	each	\$ 6,748.38	
400000	ICS Curve (LWC) - additional drives for 180, 225, 150 and 225 degrees	LWC	1000	each	\$ 39,888.47	
400000	Tub Stacker / DeStacker	SKZ	n/a	each	\$ 80,563.50	
400000	Twin Belt (TB) - 1600mm Long includes drive, twin belts, sideguards & floor supports	TB	1050	each	\$ 6,162.99	
400000	Twin Belt (TB) - 2000mm Long includes drive, twin belts, sideguards & floor supports	TB	1050	each	\$ 7,457.22	
400000	Twin Belt (TB) - 2400mm Long includes drive, twin belts, sideguards & floor supports	TB	1050	each	\$ 8,055.76	
400000	Twin Belt (TB) - 3600mm Long includes drive, twin belts, sideguards & floor supports	TB	1050	each	\$ 9,123.95	
400000	Brake - ICS Element Inclines / Declines	TB - Brake	n/a	each	\$ 1,146.26	
400000	LMS Local Motor Starter Cabinet- Including Conveyor mounted controls assembly: Photoeyes, Shaft Encoder, RFID Reader per drive. Field Wiring (wiring from the conduit tray to the LMS/motor) and Cable Tray	LMS	n/a	each	\$ 8,844.27	
400000	ICS Loader Section	LDZ	1300	each	\$ 98,308.24	
400000	ICS Unloader Section	UNZ	1500	each	\$ 108,139.55	
400000	Fencing		n/a	LF	\$ 204.41	
<b>Other Conveyor Equipment</b>						
400000	Temporary Chute (CH) - standard fixed steel chutes for	CHU	n/a	each	\$ 11,413.98	
400100	Tubs - Small 1200X950	SBT	950	each	\$ 823.50	
400100	Anti-fatigue Floor Mats for CBRA Area	budget	n/a	sqft	\$ 125.78	
400100	Transition sideguard BF5.2/Raw		n/a	each	\$ 1,176.98	
400100	Transition sideguard Raw/BF5.2		n/a	each	\$ 882.73	
400100	CBRA Shrouding		n/a	LF	\$ 386.17	
400300	Fire / Security Door 48" w x 48" h	FD	n/a	each	\$ 15,631.57	2
<b>ICS Controls Conveyor Equipment</b>						

460300	Main Controls Cabinet: Includes Touch Panel (KIP400 color), Power Panel for Conveyor, Fans, HMI/Light Cabinet Meter, Ethernet Protection, PLC Hot backup and PLC interfaces.	PLC	n/a	each	\$ 163,548.16	
460300	Safety Controls Cabinet: Includes Aircon, UPS backup +/- 15 min, Ethernet Protection, PLC and PLC interfaces.	ECC	n/a	each	\$ 142,647.16	
460300	Local Control Cabinet - Profinet Coupler		n/a	each	\$ 11,214.16	
460300	Local Control ASI - Profinet Gateway		n/a	each	\$ 13,799.72	
460000	Emergency Push Button w/ wiring	EMM	n/a	each	\$ 1,411.78	
460000	Warning Light/Sound Element w/ wiring	EMM	n/a	each	\$ 4,429.32	
460300	Profinet Network: Includes cabling and cable tray covering	PLC	n/a	LF	\$ 174.12	
460000	Jam Resets Control Station	EMM	n/a	each	\$ 10,446.30	
460000	Manual Coding Station	Essentials	n/a	each	\$ 11,361.45	
<b>Platforms &amp; Steelworks</b>						
610000	Ship Ladder w safety gate - 24" Wide x 8' High	PF	n/a	each	\$ 6,071.28	1
610000	Fixed Vertical Ladder w Safety Gate - 24" W x 8' H	PF	n/a	each	\$ 2,091.35	1
610000	Aluminum Swing Ladder	PF	n/a	each	\$ 4,892.45	1
610000	Pan Catwalk 10' Section - 27" Wide 10' Section	PF	n/a	each	\$ 933.29	11
610000	42" H Single Sided Handrail 10' Section	PF	n/a	each	\$ 451.99	11
610000	Sway Bracing Angle Kit - L=180"	PF	n/a	each	\$ 229.66	22
610000	3" X 3" X 120" 1/4 ANGLE	PF	n/a	each	\$ 164.91	22
610000	Header Steel B-B C Channel 150"	PF	n/a	each	\$ 412.28	15
610000	Header Steel B-B C Channel 120"	PF	n/a	each	\$ 329.83	34
610000	Header Connection Kit	PF	n/a	each	\$ 141.70	30
610000	Hanging Kits - Sill, Drop Rods, Hardware	PF	n/a	each	\$ 296.85	15
610000	Fail Safe Catwalk - 40ft cw + 5 ladders	PF	n/a	each	\$ 39,677.07	
610000	Platform 125 psf - 3 ft wide x 40 ft long x 7ft high, 6 stairs each, railing w/kick plate 40 ft both sides	PF	n/a	each	\$ 43,268.52	
<b>Hardware and Licenses</b>						
521000	Computer Hardware	ICS	n/a	unit	\$ 38,601.17	
525000	Network Hardware	ICS	n/a	unit	\$ 29,797.27	
527000	Licenses	ICS	n/a	unit	\$ 148,934.45	

# Equipment Manifest for Fourth Loader

## Mechanical Conveyor Equipment

Activity	Description (Prices per Unit includes freight, taxes, and tariffs but excludes all other cost)	MC	Width	Unit	Unit Price	Quantity
<b>Belt Floor Conveyor (BF)</b>						
400000	BF5.2 Transport Conveyor Drive Lmax=1.5m Including Floor Supports, Sideguard and Underguarding	BF - Drive	1200	each	\$ 15,959.36	2
400000	BF5.2 Transport Conveyor Drive Lmax=12m Including Floor Supports, Sideguard and Underguarding	BF - Drive	1200	each	\$ 17,698.74	5
400000	BF5.2 Transport Conveyor Drive Lmax=40m Including Floor Supports, Sideguard and Underguarding	BF - Drive	1200	each	\$ 21,354.60	
400000	BF5.2 Transport Conveyor Bed Section Including Floor Supports, Sideguard and Underguarding	BF - Bed	1200	LF	\$ 1,050.79	84
400000	BF5.2 Conveyor 45 Degree Merge Belt Junction Floor Supported - 45°	BJ	1200	each	\$ 47,433.21	1
400000	BF5.2 Power Curve 30 Degree Floor Supported - 30°	BC-30	1200	each	\$ 20,575.37	
400000	BF5.2 Power Curve 45 Degree Floor Supported - 45°	BC-45	1200	each	\$ 22,641.99	1
400000	BF5.2 Power Curve 90 Degree Floor Supported - 90°	BC-90	1200	each	\$ 31,559.35	1
400000	BF5.2 Noseover Including Floor Supports	BF - Noseover	1200	each	\$ 4,323.77	
400000	BF5.2 Brake Conveyor Drive	BR - Brake	1200	each	\$ 896.44	7
400000	BF5.2 Vertical Sorter SVD or MVD 3 Conv / Control Cabinet	SVD	n/a	each	\$ 97,912.71	
400000	BF5.2 High Speed Diverter HCD II HMI, Control Cabinet	HCD	n/a	each	\$ 77,775.88	1
400000	Transport Standard Conveyor Drive VI Standard Transport Conveyor Drive (6 3/4" Drive) w/ VFD Including Floor Supports, Sideguard and Underguarding	BF - Drive	39"	each	\$ 34,289.99	
400000	Transport Standard Conveyor Drive VI Standard Transport Conveyor Drive (8 3/4" Drive) w/ VFD Including Floor Supports, Sideguard and Underguarding	BF - Drive	39"	each	\$ 43,091.45	
400000	Transport Standard Conveyor Bed VI Standard Transport Conveyor Bed Section Including Floor Supports, Sideguard and Underguarding	BF - Bed	39"	LF	\$ 3,056.70	
400000	Transport Standard Conveyor Queue VI Standard 6 3/4" Drive 2HP w/ VFD Including Floor Supports, Sideguard and Underguarding	BFQ	39"	each	\$ 36,550.69	
400000	45 Degree Merge VI Standard Conveyor Belt Junction	BJ	39"	each	\$ 42,471.18	
400000	Standard Curve Floor Supported - 45°	BC-45	39"	each	\$ 28,163.45	
400000	Standard Curve Floor Supported - 90°	BC-90	39"	each	\$ 37,600.97	
400000	Transport Conveyor Noseover	BF - Noseover	39"	each	\$ 3,118.06	
400000	Brake for Standard Conveyor Drive	BR - Brake	39"	each	\$ 3,597.97	
400000	add. Movimot VFD 2 HP	VFD	39"	each	\$ 3,525.29	
400000	add. Movimot VFD 3 HP	V D	39"	each	\$ 4,901.33	
400000	add. Movimot VFD 5 HP	VFD	39"	each	\$ 5,322.30	

400000	Transport Standard Conveyor Drive VI Standard 8 3/4 Drive 3HP w VFD Including Floor Supports, Sideguard and Underguarding	BF - Drive	57"	each	\$	45,272.52	
400000	Transport Standard Conveyor Bed VI Standard Transport Conveyor Bed Section Including Floor Supports, Sideguard and Underguarding	BF - Bed	57"	LF	\$	1,865.20	
400000	Standard Spiral Curve Floor Supported	BCS	57"	each	\$	80,148.95	
400000	Standard Curve Floor Supported - 90°	BC-90	57"	each	\$	56,633.48	
<b>Individual Carrier System (ICS)</b>							
400000	ICS Merge Belt (IFZ)	IFZ01	950	each	\$	51,438.15	6
400000	Divert Module (OFZ)	OFZ01 (DW)	950	each	\$	58,957.38	1
400000	Divert Module (OFZ) - MCSM	OFZ08 (DW)	950	each	\$	89,973.63	6
400000	ICS Merge (LRJ) - Live Roller Junction for high capacity merge, includes supports & underguarding	LRJ	950	each	\$	9,084.82	2
400000	ICS Curve (LWC) - Live Wheel Curve 30 Degrees includes supports and underguarding	LWC	1000	each	\$	12,309.94	3
400000	ICS Curve (LWC) - Live Wheel Curve 45 Degrees includes supports and underguarding	LWC	1000	each	\$	13,977.76	40
400000	ICS Curve (LWC) - Live Wheel Curve 60 Degrees includes supports and underguarding	LWC	1000	each	\$	15,583.95	4
400000	ICS Curve (LWC) - Live Wheel Curve 90 Degrees includes supports and underguarding	LWC	1000	each	\$	19,549.37	
400000	ICS Curve (LWC) - Start Stop Function per 90 Degree Curve and Above	LWC	n/a	each	\$	6,748.38	
400000	ICS Curve (LWC) - additional drives for 180, 225, 150 and 225 degrees	LWC	1000	each	\$	39,888.47	
400000	Tub Stacker / DeStacker	SKZ	n/a	each	\$	80,563.50	4
400000	Twin Belt (TB) - 1600mm Long includes drive, twin belts, sideguards & floor supports	TB	1050	each	\$	6,162.99	167
400000	Twin Belt (TB) - 2000mm Long includes drive, twin belts, sideguards & floor supports	TB	1050	each	\$	7,457.22	14
400000	Twin Belt (TB) - 2400mm Long includes drive, twin belts, sideguards & floor supports	TB	1050	each	\$	8,055.76	20
400000	Twin Belt (TB) - 3600mm Long includes drive, twin belts, sideguards & floor supports	TB	1050	each	\$	9,123.95	54
400000	Brake - ICS Element Inclines / Declines	TB - Brake	n/a	each	\$	1,146.26	16
400000	LMS Local Motor Starter Cabinet- Including Conveyor mounted controls assembly, Photoeyes, Shaft Encoder, RFID Reader per drive. Field Wiring (wiring from the conduit tray to the LMS/motor) and Cable Tray	LMS	n/a	each	\$	8,844.27	317
400000	ICS Loader Section	LNZ	1300	each	\$	98,308.24	2
400000	ICS Unloader Section	UNZ	1500	each	\$	108,139.55	
400000	Fencing		n/a	LF	\$	204.41	
<b>Other Conveyor Equipment</b>							
400000	Temporary Chute (CH) - standard fixed steel chutes for transfer	CH	n/a	each	\$	11,413.98	
400100	Tubs - Small 1200X950	SBT	950	each	\$	823.50	450
400100	Anti-fatigue Floor Mats for CBRA Area	budget	n/a	sqft	\$	125.78	
400100	Transition sideguard BF5.2/Raw		n/a	each	\$	1,176.98	
400100	Transition sideguard Raw/BF5.2		n/a	each	\$	882.73	
400100	CBRA Shrouding		n/a	LF	\$	386.17	
400300	Fire / Security Door 48' w x 48" h	FD	n/a	each	\$	15,631.57	8
<b>ICS Controls Conveyor Equipment</b>							

460300	Main Controls Cabinet: Includes Touch Panel (KTP400 color), Power Panel for Conveyor, Fans, HMI/Light Cabinet Meter, Ethernet Protection, PLC Hot backup and PLC interfaces.	PLC	n/a	each	\$ 163,548.16	5
460300	Safety Controls Cabinet: Includes Aircon, UPS backup +/- 15 min, Ethernet Protection, PLC and PLC interfaces.	ECC	n/a	each	\$ 142,647.16	2
460300	Local Control Cabinet - Profinet Coupler		n/a	each	\$ 11,214.16	12
460300	Local Control ASI - Profinet Gateway		n/a	each	\$ 13,799.72	20
460000	Emergency Push Button w/ wiring	EMM	n/a	each	\$ 1,411.78	80
460000	Warning Light/Sound Element w/ wiring	EMM	n/a	each	\$ 4,429.32	56
460300	Profinet Network: Includes cabling and cable tray covering	PLC	n/a	LF	\$ 174.12	3065
460000	Jam Resets Control Station	EMM	n/a	each	\$ 10,446.30	8
460000	Manual Coding Station	Essentials	n/a	each	\$ 11,361.45	2
<b>Platforms &amp; Steelworks</b>						
610000	Ship Ladder w safety gate - 24" Wide x 8' High	PF	n/a	each	\$ 6,071.28	0
610000	Fixed Vertical Ladder w Safety Gate - 24" W x 8' H	PF	n/a	each	\$ 2,091.35	4
610000	Aluminum Swing Ladder	PF	n/a	each	\$ 4,892.45	0
610000	Pan Catwalk 10' Section - 27" Wide 10' Section	PF	n/a	each	\$ 933.29	13
610000	42" H Single Sided Handrail 10' Section	PF	n/a	each	\$ 451.99	13
610000	Sway Bracing Angle Kit - L=180"	PF	n/a	each	\$ 229.66	26
610000	3" X 3" X 120" 1/4 ANGLE	PF	n/a	each	\$ 164.91	26
610000	Header Steel B-B C Channel 150"	PF	n/a	each	\$ 412.28	18
610000	Header Steel B-B C Channel 120"	PF	n/a	each	\$ 329.83	26
610000	Header Connection Kit	PF	n/a	each	\$ 141.70	36
610000	Hanging Kits - Sill, Drop Rods, Hardware	PF	n/a	each	\$ 296.85	18
610000	Fail Safe Catwalk - 40ft cw + 5 ladders	PF	n/a	each	\$ 39,677.07	
610000	Platform 125 psf - 3 ft wide x 40 ft long x 7ft high, 6 stairs each, railing w/kick plate 40 ft both sides	PF	n/a	each	\$ 43,268.52	
<b>Hardware and Licenses</b>						
521000	Computer Hardware	ICS	n/a	unit	\$ 38,601.17	
525000	Network Hardware	ICS	n/a	unit	\$ 29,797.27	
527000	Licenses	ICS	n/a	unit	\$ 148,934.45	

# Equipment Manifest for International Oversize

## Mechanical Conveyor Equipment

Activity	Description (Prices per Unit includes freight, taxes, and tariffs but excludes all other cost)	MC	Width	Unit	Unit Price	Quantity
<b>Belt Floor Conveyor (BF)</b>						
400000	<b>BF5.2 Transport Conveyor Drive Lmax=1.5m</b> Including Floor Supports, Sideguard and Underguarding	BF - Drive	1200	each	\$ 15,959.36	
400000	<b>BF5.2 Transport Conveyor Drive Lmax=12m</b> Including Floor Supports, Sideguard and Underguarding	BF - Drive	1200	each	\$ 17,698.74	
400000	<b>BF5.2 Transport Conveyor Drive Lmax=40m</b> Including Floor Supports, Sideguard and Underguarding	BF - Drive	1200	each	\$ 21,354.60	
400000	<b>BF5.2 Transport Conveyor Bed Section</b> Including Floor Supports, Sideguard and Underguarding	BF - Bed	1200	LF	\$ 1,050.79	
400000	<b>BF5.2 Conveyor 45 Degree Merge</b> Belt Junction Floor Supported - 45°	BJ	1200	each	\$ 47,433.21	
400000	<b>BF5.2 Power Curve 30 Degree</b> Floor Supported - 30°	BC-30	1200	each	\$ 20,575.37	
400000	<b>BF5.2 Power Curve 45 Degree</b> Floor Supported - 45°	BC-45	1200	each	\$ 22,641.99	
400000	<b>BF5.2 Power Curve 90 Degree</b> Floor Supported - 90°	BC-90	1200	each	\$ 31,559.35	
400000	<b>BF5.2 Noseover</b> Including Floor Supports	BF - Noseover	1200	each	\$ 4,323.77	
400000	<b>BF5.2 Brake Conveyor Drive</b>	BR - Brake	1200	each	\$ 896.44	
400000	<b>BF5.2 Vertical Sorter SVD or MVD</b> 3 Conv / Control Cabinet	SVD	n/a	each	\$ 97,912.71	
400000	<b>BF5.2 High Speed Diverter HCD II</b> HMI, Control Cabinet	HCD	n/a	each	\$ 77,775.88	
400000	<b>Transport Standard Conveyor Drive VI Standard</b> Transport Conveyor Drive (6 3/4" Drive) w/ VFD Including Floor Supports, Sideguard and Underguarding	BF - Drive	39"	each	\$ 34,289.99	
400000	<b>Transport Standard Conveyor Drive VI Standard</b> Transport Conveyor Drive (8 3/4" Drive) w/ VFD Including Floor Supports, Sideguard and Underguarding	BF - Drive	39"	each	\$ 43,091.45	
400000	<b>Transport Standard Conveyor Bed VI Standard</b> Transport Conveyor Bed Section Including Floor Supports, Sideguard and Underguarding	BF - Bed	39"	LF	\$ 3,056.70	
400000	<b>Transport Standard Conveyor Queue VI Standard 6 3/4</b> Drive 2HP w/ VFD Including Floor Supports, Sideguard and Underguarding	BFQ	39"	each	\$ 36,550.69	
400000	<b>45 Degree Merge VI Standard Conveyor</b> Belt Junction	BJ	39"	each	\$ 42,471.18	
400000	<b>Standard Curve Floor Supported - 45°</b>	BC-45	39"	each	\$ 28,163.45	
400000	<b>Standard Curve Floor Supported - 90°</b>	BC-90	39"	each	\$ 37,600.97	
400000	<b>Transport Conveyor Noseover</b>	BF - Noseover	39"	each	\$ 3,118.06	1
400000	<b>Brake for Standard Conveyor Drive</b>	BR - Brake	39"	each	\$ 3,597.97	4
400000	<b>add. Movimot VFD 2 HP</b>	VFD	39"	each	\$ 3,525.29	
400000	<b>add. Movimot VFD 3 HP</b>	VFD	39"	each	\$ 4,901.33	
400000	<b>add. Movimot VFD 5 HP</b>	VFD	39"	each	\$ 5,312.00	

400000	Transport Standard Conveyor Drive VI Standard 8 3/4 Drive 3HP w VFD Including Floor Supports, Sideguard and Underguarding	BF - Drive	57"	each	\$ 45,272.52	7
400000	Transport Standard Conveyor Bed VI Standard Transport Conveyor Bed Section Including Floor Supports, Sideguard and Underguarding	BF - Bed	57"	LF	\$ 1,865.20	102
400000	Standard Spiral Curve Floor Supported	BCS	57"	each	\$ 80,148.95	
400000	Standard Curve Floor Supported - 90°	BC-90	57"	each	\$ 56,633.48	
<b>Individual Carrier System (ICS)</b>						
400000	ICS Merge Belt (IFZ)	IFZ01	950	each	\$ 51,438.15	
400000	Divert Module (OFZ)	OFZ01 (DW)	950	each	\$ 58,957.35	
400000	Divert Module (OFZ) - MCSM	OFZ08 (DW)	950	each	\$ 89,973.63	
400000	ICS Merge (LRJ) - Live Roller Junction for high capacity merge, includes supports & underguarding	LRJ	950	each	\$ 9,084.82	
400000	ICS Curve (LWC) - Live Wheel Curve 30 Degrees includes supports and underguarding	LWC	1000	each	\$ 12,309.94	
400000	ICS Curve (LWC) - Live Wheel Curve 45 Degrees includes supports and underguarding	LWC	1000	each	\$ 13,977.76	
400000	ICS Curve (LWC) - Live Wheel Curve 60 Degrees includes supports and underguarding	LWC	1000	each	\$ 15,583.95	
400000	ICS Curve (LWC) - Live Wheel Curve 90 Degrees includes supports and underguarding	LWC	1000	each	\$ 19,549.37	
400000	ICS Curve (LWC) - Start Stop Function per 90 Degree Curve and Above	LWC	n/a	each	\$ 6,748.38	
400000	ICS Curve (LWC) - additional drives for 180, 225, 150 and 225 degrees	LWC	1000	each	\$ 39,888.47	
400000	Tub Stacker / DeStacker	SKZ	n/a	each	\$ 80,563.50	
400000	Twin Belt (TB) - 1600mm Long includes drive, twin belts, sideguards & floor supports	TB	1050	each	\$ 6,162.99	
400000	Twin Belt (TB) - 2000mm Long includes drive, twin belts, sideguards & floor supports	TB	1050	each	\$ 7,457.22	
400000	Twin Belt (TB) - 2400mm Long includes drive, twin belts, sideguards & floor supports	TB	1050	each	\$ 8,055.76	
400000	Twin Belt (TB) - 3600mm Long includes drive, twin belts, sideguards & floor supports	TB	1050	each	\$ 9,123.95	
400000	Brake - ICS Element Inclines / Declines	TB - Brake	n/a	each	\$ 1,146.26	
400000	LMS Local Motor Starter Cabinet- Including Conveyor mounted controls assembly: Photoeyes, Shaft Encoder, RFID Reader per drive. Field Wiring (wiring from the conduit tray to the LMS motor) and Cable Tray	LMS	n/a	each	\$ 8,844.27	
400000	ICS Loader Section	LDZ	1300	each	\$ 98,308.24	
400000	ICS Unloader Section	UNZ	1500	each	\$ 108,139.55	
400000	Fencing		n/a	LF	\$ 204.41	
<b>Other Conveyor Equipment</b>						
400000	Temporary Chute (CH) - standard fixed steel chutes for	CHU	n/a	each	\$ 11,413.98	
400100	Tubs - Small 1200X950	SBT	950	each	\$ 823.50	
400100	Anti-fatigue Floor Mats for CBRA Area	budget	n/a	sqft	\$ 125.78	
400100	Transition sideguard BF5.2/Raw		n/a	each	\$ 1,176.98	
400100	Transition sideguard Raw/BF5.2		n/a	each	\$ 882.73	
400100	CBRA Shrouding		n/a	LF	\$ 386.17	
400300	Fire / Security Door 48" w x 48" h	FD	n/a	each	\$ 15,631.57	2
<b>ICS Controls Conveyor Equipment</b>						

460300	Main Controls Cabinet: Includes Touch Panel (KIT400 color), Power Panel for Conveyor, Fans, HMI/Light, Cabinet Meter, Ethernet Protection, PLC Hot backup and PLC interfaces.	PLC	n/a	each	\$ 163,548.16	
460300	Safety Controls Cabinet: Includes Aircon, UPS backup +/- 15 min, Ethernet Protection, PLC and PLC interfaces.	ECC	n/a	each	\$ 142,647.16	
460300	Local Control Cabinet - Profinet Coupler		n/a	each	\$ 11,214.16	
460300	Local Control ASI - Profinet Gateway		n/a	each	\$ 13,799.72	
460000	Emergency Push Button w/ wiring	EMM	n/a	each	\$ 1,411.78	
460000	Warning Light/Sound Element w/ wiring	EMM	n/a	each	\$ 4,429.32	
460300	Profinet Network: Includes cabling and cable tray covering	PLC	n/a	LF	\$ 174.12	
460000	Jam Resets Control Station	EMM	n/a	each	\$ 10,446.30	
460000	Manual Coding Station	Essentials	n/a	each	\$ 11,361.45	
<b>Platforms &amp; Steelworks</b>						
610000	Ship Ladder w safety gate - 24" Wide x 8' High	PF	n/a	each	\$ 6,071.28	
610000	Fixed Vertical Ladder w Safety Gate - 24" W x 8' H	PF	n/a	each	\$ 2,091.35	2
610000	Aluminum Swing Ladder	PF	n/a	each	\$ 4,892.45	
610000	Pan Catwalk 10' Section - 27" Wide 10' Section	PF	n/a	each	\$ 933.29	2
610000	42" H Single Sided Handrail 10' Section	PF	n/a	each	\$ 451.99	2
610000	Sway Bracing Angle Kit - L=180"	PF	n/a	each	\$ 219.66	4
610000	3" X 3" X 120" 1/4 ANGLE	PF	n/a	each	\$ 164.91	4
610000	Header Steel B-B C Channel 150"	PF	n/a	each	\$ 412.28	3
610000	Header Steel B-B C Channel 120"	PF	n/a	each	\$ 329.83	6
610000	Header Connection Kit	PF	n/a	each	\$ 141.70	6
610000	Hanging Kits - Sill, Drop Rods, Hardware	PF	n/a	each	\$ 296.85	3
610000	Fail Safe Catwalk - 40ft cw + 5 ladders	PF	n/a	each	\$ 39,677.07	
610000	Platform 125 psf - 3 ft wide x 40 ft long x 7ft high, 6 stairs each, railing w/kick plate 40 ft both sides	PF	n/a	each	\$ 43,268.52	
<b>Hardware and Licenses</b>						
521000	Computer Hardware	ICS	n/a	unit	\$ 38,601.17	
525000	Network Hardware	ICS	n/a	unit	\$ 29,797.27	
527000	Licenses	ICS	n/a	unit	\$ 148,934.45	

# Equipment Manifest for Purge Line

## Mechanical Conveyor Equipment

Activity	Description (Prices per Unit includes freight, taxes, and tariffs but excludes all other cost)	MC	Width	Unit	Unit Price	Quantity
<b>Belt Floor Conveyor (BF)</b>						
400000	BF5.2 Transport Conveyor Drive Lmax=1.5m Including Floor Supports, Sideguard and Underguarding	BF - Drive	1200	each	\$ 15,959.36	1
400000	BF5.2 Transport Conveyor Drive Lmax=12m Including Floor Supports, Sideguard and Underguarding	BF - Drive	1200	each	\$ 17,698.74	2
400000	BF5.2 Transport Conveyor Drive Lmax=40m Including Floor Supports, Sideguard and Underguarding	BF - Drive	1200	each	\$ 21,354.60	
400000	BF5.2 Transport Conveyor Bed Section Including Floor Supports, Sideguard and Underguarding	BF - Bed	1200	LF	\$ 1,050.79	31
400000	BF5.2 Conveyor 45 Degree Merge Belt Junction Floor Supported - 45°	BJ	1200	each	\$ 47,433.21	1
400000	BF5.2 Power Curve 30 Degree Floor Supported - 30°	BC-30	1200	each	\$ 20,575.37	
400000	BF5.2 Power Curve 45 Degree Floor Supported - 45°	BC-45	1200	each	\$ 22,641.99	1
400000	BF5.2 Power Curve 90 Degree Floor Supported - 90°	BC-90	1200	each	\$ 31,559.35	2
400000	BF5.2 Noseover Including Floor Supports	BF - Noseover	1200	each	\$ 4,323.77	
400000	BF5.2 Brake Conveyor Drive	BR - Brake	1200	each	\$ 896.44	2
400000	BF5.2 Vertical Sorter SVD or MVD 3 Conv / Control Cabinet	SVD	n/a	each	\$ 97,912.71	
400000	BF5.2 High Speed Diverter HCD II HMI, Control Cabinet	HCD	n/a	each	\$ 77,775.88	1
400000	Transport Standard Conveyor Drive VI Standard Transport Conveyor Drive (6 3/4" Drive) w/ VFD Including Floor Supports, Sideguard and Underguarding	BF - Drive	39"	each	\$ 34,289.99	
400000	Transport Standard Conveyor Drive VI Standard Transport Conveyor Drive (8 3/4" Drive) w/ VFD Including Floor Supports, Sideguard and Underguarding	BF - Drive	39"	each	\$ 43,091.45	
400000	Transport Standard Conveyor Bed VI Standard Transport Conveyor Bed Section Including Floor Supports, Sideguard and Underguarding	BF - Bed	39"	LF	\$ 3,056.70	
400000	Transport Standard Conveyor Queue VI Standard 6 3/4" Drive 2HP w/ VFD Including Floor Supports, Sideguard and Underguarding	BFQ	39"	each	\$ 36,550.69	
400000	45 Degree Merge VI Standard Conveyor Belt Junction	BJ	39"	each	\$ 42,471.18	
400000	Standard Curve Floor Supported - 45°	BC-45	39"	each	\$ 28,163.45	
400000	Standard Curve Floor Supported - 90°	BC-90	39"	each	\$ 37,600.97	
400000	Transport Conveyor Noseover	BF - Noseover	39"	each	\$ 3,118.06	
400000	Brake for Standard Conveyor Drive	BR - Brake	39"	each	\$ 3,597.97	
400000	add. Movimot VFD 2 HP	VFD	39"	each	\$ 3,525.29	
400000	add. Movimot VFD 3 HP	VFD	39"	each	\$ 3,901.13	
400000	add. Movimot VFD 5 HP	VFD	39"	each	\$ 3,322.30	

400000	Transport Standard Conveyor Drive VI Standard 8 3/4 Drive 3HP w VFD Including Floor Supports, Sideguard and Underguarding	BF - Drive	57"	each	\$	45,272.52	
400000	Transport Standard Conveyor Bed VI Standard Transport Conveyor Bed Section Including Floor Supports, Sideguard and Underguarding	BF - Bed	57"	LF	\$	1,865.20	
400000	Standard Spiral Curve Floor Supported	BCS	57"	each	\$	80,148.95	
400000	Standard Curve Floor Supported - 90°	BC-90	57"	each	\$	56,633.48	
<b>Individual Carrier System (ICS)</b>							
400000	ICS Merge Belt (IFZ)	IFZ01	950	each	\$	51,438.15	
400000	Divert Module (OFZ)	OFZ01 (DW)	950	each	\$	58,957.38	
400000	Divert Module (OFZ) - MCSM	OFZ08 (DW)	950	each	\$	89,973.63	
400000	ICS Merge (LRJ) - Live Roller Junction for high capacity merge, includes supports & underguarding	LRJ	950	each	\$	9,084.82	
400000	ICS Curve (LWC) - Live Wheel Curve 30 Degrees includes supports and underguarding	LWC	1000	each	\$	12,309.94	
400000	ICS Curve (LWC) - Live Wheel Curve 45 Degrees includes supports and underguarding	LWC	1000	each	\$	13,977.76	
400000	ICS Curve (LWC) - Live Wheel Curve 60 Degrees includes supports and underguarding	LWC	1000	each	\$	15,583.95	
400000	ICS Curve (LWC) - Live Wheel Curve 90 Degrees includes supports and underguarding	LWC	1000	each	\$	19,549.37	
400000	ICS Curve (LWC) - Start Stop Function per 90 Degree Curve and Above	LWC	n/a	each	\$	6,748.38	
400000	ICS Curve (LWC) - additional drives for 180, 225, 150 and 225 degrees	LWC	1000	each	\$	39,888.47	
400000	Tub Stacker / DeStacker	SKZ	n/a	each	\$	80,563.50	
400000	Twin Belt (TB) - 1600mm Long includes drive, twin belts, sideguards & floor supports	TB	1050	each	\$	6,162.99	
400000	Twin Belt (TB) - 2000mm Long includes drive, twin belts, sideguards & floor supports	TB	1050	each	\$	7,457.22	
400000	Twin Belt (TB) - 2400mm Long includes drive, twin belts, sideguards & floor supports	TB	1050	each	\$	8,055.76	
400000	Twin Belt (TB) - 3600mm Long includes drive, twin belts, sideguards & floor supports	TB	1050	each	\$	9,123.95	
400000	Brake - ICS Element Inclines / Declines	TB - Brake	n/a	each	\$	1,146.26	
400000	LMS Local Motor Starter Cabinet- Including Conveyor mounted controls assembly, Photoeyes, Shaft Encoder, RFID Reader per drive. Field Wiring (wiring from the conduit tray to the LMS/motor) and Cable Tray	LMS	n/a	each	\$	8,844.27	
400000	ICS Loader Section	LDZ	1300	each	\$	98,308.24	
400000	ICS Unloader Section	UNZ	1500	each	\$	108,139.55	
400000	Fencing		n/a	LF	\$	204.41	
<b>Other Conveyor Equipment</b>							
400000	Temporary Chute (CH) - standard fixed steel chutes for	CHU	n/a	each	\$	11,413.98	
400100	Tubs - Small 1200X950	SBT	950	each	\$	823.50	
400100	Anti-fatigue Floor Mats for CBRA Area	budget	n/a	sqft	\$	125.78	
400100	Transition sideguard BFS.2/Raw		n/a	each	\$	1,176.98	
400100	Transition sideguard Raw/BFS.2		n/a	each	\$	882.73	
400100	CBRA Shrouding		n/a	LF	\$	386.17	
400300	Fire / Security Door 48" w x 38" h	FD	n/a	each	\$	15,631.57	
<b>ICS Controls Conveyor Equipment</b>							

460300	Main Controls Cabinet: Includes Touch Panel (KTP400 color), Power Panel for Conveyor, Fans, HMI/Light, Cabinet Meter, Ethernet Protection, PLC Hot backup and PLC interfaces.	PLC	n/a	each	\$ 163,548.16	
460300	Safety Controls Cabinet: Includes Aircon, UPS backup +/- 15 min, Ethernet Protection, PLC and PLC interfaces.	ECC	n/a	each	\$ 142,647.16	
460300	Local Control Cabinet - Profinet Coupler		n/a	each	\$ 11,214.16	
460300	Local Control ASI - Profinet Gateway		n/a	each	\$ 13,799.77	
460000	Emergency Push Button w/ wiring	EMM	n/a	each	\$ 1,411.78	
460000	Warning Light/Sound Element w/ wiring	EMM	n/a	each	\$ 4,429.32	
460300	Profinet Network: Includes cabling and cable tray covering	PLC	n/a	LF	\$ 174.12	
460000	Jam Resets Control Station	EMM	n/a	each	\$ 10,446.30	
460000	Manual Coding Station	Essentials	n/a	each	\$ 11,361.45	
<b>Platforms &amp; Steelworks</b>						
610000	Ship Ladder w safety gate - 24" Wide x 8' High	PF	n/a	each	\$ 6,071.28	
610000	Fixed Vertical Ladder w Safety Gate - 24" W x 8' H	PF	n/a	each	\$ 2,091.35	1
610000	Aluminum Swing Ladder	PF	n/a	each	\$ 4,892.45	1
610000	Pan Catwalk 10' Section - 27" Wide 10' Section	PF	n/a	each	\$ 933.29	5
610000	42" H Single Sided Handrail 10' Section	PF	n/a	each	\$ 451.99	5
610000	Sway Bracing Angle Kit - L=180"	PF	n/a	each	\$ 229.66	10
610000	3" X 3" X 120" 1/4 ANGLE	PF	n/a	each	\$ 164.91	10
610000	Header Steel B-B C Channel 150"	PF	n/a	each	\$ 412.28	8
610000	Header Steel B-B C Channel 120"	PF	n/a	each	\$ 329.83	11
610000	Header Connection Kit	PF	n/a	each	\$ 141.70	16
610000	Hanging Kits - Sill, Drop Rods, Hardware	PF	n/a	each	\$ 296.85	8
610000	Fail Safe Catwalk - 40ft cw + 5 ladders	PF	n/a	each	\$ 39,677.07	
610000	Platform 125 psf - 3 ft wide x 40 ft long x 7ft high, 6 stairs each, railing w/kick plate 40 ft both sides	PF	n/a	each	\$ 43,268.52	
<b>Hardware and Licenses</b>						
521000	Computer Hardware	ICS	n/a	unit	\$ 38,601.17	
525000	Network Hardware	ICS	n/a	unit	\$ 29,797.27	
527000	Licenses	ICS	n/a	unit	\$ 148,934.45	

## EXHIBIT B - PR12A LUMP SUM PROPOSALS

1. **PRICING MODEL:** This exhibit contains the summary of the pricing terms for the Alternates Change Order delivery method utilized on the Project and is only applicable for the Alternates Change Order. Alternates Change Order scope is defined in PR-01A.
  - A. All Work performed pursuant to the Contract is compensated on a fixed price, lump sum basis, except as otherwise provided in the General Conditions section Changes and Directives. DESIGN-BUILDER shall submit an invoice based on the value of the Work contributed to the Project in any given month.
  - B. At the point of Contract execution, the Parties have estimated not to exceed budget for the work to be performed by subcontractors to Swinerton Construction Company ("Swinerton"), a general contractor, for the trades listed in Section 3.B ("Trade Subcontract Work"), and therefore created an allowance to represent its not to exceed estimated value ("Initial Trade Allowance"). Following the selection of the subcontractor bids for the Trade Subcontract Work, the total value of the bids, plus a fixed percentage of 10.211201% representing a fee for Swinerton ("Swinerton Fee") and a separate fixed percentage of 8.96% representing a fee for DESIGN-BUILDER ("DESIGN-BUILDER Fee"), shall be issued as a Task Order for the Trade Subcontract Work.
  - C. Notwithstanding anything in the Contract Documents to the contrary, no Work executed pursuant to this Contract shall be performed on the basis of cost-plus with guaranteed maximum price. All Work described in the Contract Documents is performed for a fixed-price, Lump Sum basis, as described in this PR-12A exhibit. The Parties expressly agree that this PR-12A exhibit takes precedence over any provision or requirement to the contrary in the Contract Documents, without regard to any other order of precedence clause.

### 2. LUMP SUM WORK

- A. The following costs shall serve as a schedule of values to be paid on a lump sum basis:

No.	Scope of Work	Base Scope	Alternates	Revised Price
1	BHS Equipment	\$ 34,478,641	\$ 11,966,502	\$ 46,445,143
2	BHS Equipment—3 <sup>rd</sup> Party	\$ 1,339,010	\$ 1,265,491	\$ 2,604,501
3	BHS mechanical subcontractor	\$ 14,104,966	\$ 5,318,284	\$ 19,423,250
4	BHS Electrical subcontractor	\$ 12,688,265	\$ 3,384,986	\$ 16,073,251
5	BHS Installation—Refurbished Conveyor	\$ 317,289	\$ -	\$ 317,289
6	BHS Controls—Brock Solutions	\$ 14,820,623	\$ 1,779,380	\$ 16,600,003
7	Swinerton—preconstruction services	\$ 3,059,857	\$ 573,371	\$ 3,633,228
8	Swinerton—general conditions	\$ 10,150,096	\$ 3,240,419	\$ 13,390,515
9	Swinerton—general requirements	\$ 3,309,948	\$ 559,403	\$ 3,869,351
10	Swinerton—Design	\$ 10,909,571	\$ -	\$ 10,909,571

11	Design-Builder—Preconstruction Services	\$ 2,060,358	\$ 465,902	\$ 2,526,260
12	Design-Builder—Construction management	\$ 8,321,518	\$ 8,619,903	\$ 16,941,421
13	Design-Builder—BHS Engineering	\$ 10,508,431	\$ 1,509,544	\$ 12,017,975
14	Design-Builder—BHS Controls (Vanderlande)	\$ 2,029,287	\$ 349,726	\$ 2,379,013
15	Design-Builder—BHS integration, testing & commissioning	\$ 2,884,180	\$ 1,372,477	\$ 4,256,657
16	Warehousing, Office, Tools, Equipment	\$ 4,373,179	\$ 739,584	\$ 5,112,763
17	Travel expenditure	\$ 1,388,222	\$ 29,416	\$ 1,417,638
18	QA/QC & Labor Compliance	\$ 3,403,546	\$ -	\$ 3,403,546
19	Warehouse labor (LSBE)	\$ 1,460,074	\$ 727,048	\$ 2,187,122
20	TSA professional services	\$ 676,038	\$ -	\$ 676,038
21	Structural professional engineering	\$ 317,289	\$ 35,339	\$ 352,628
22	Permits/plan & check fees	\$ 1,228,721	\$ 635,012	\$ 1,863,733
24	<b>Lump Sum Work Subtotal</b>	<b>\$ 143,829,109</b>	<b>\$ 42,571,788</b>	<b>\$ 186,400,897</b>
25	Warehousing, Office, Tools, Equipment ( Test bag Credit)		\$ (487,700)	
26	Permits/plan & check fees		\$ (189,122)	
27	<b>Lump Sum Work Subtotal</b>	<b>\$ 143,829,109</b>	<b>\$ 41,894,966</b>	<b>\$ 185,724,075</b>

**B. Billing:** All items listed in paragraph (2)(A) shall be billed on a lump sum basis. Billing shall be monthly as follows

- a. BHS Equipment (Line-items No.1 and 2): DESIGN-BUILDER shall provide a manifest of equipment and transportation records for monthly invoicing of equipment. BHS equipment included in this scope of work is referenced in Table 1. BHS Equipment ordered and stored on site, but not yet installed (Line-Item No. 1): can be invoiced if backed up with a manifest, insurance and evidence it is in a local warehouse.
- b. BHS & GC Field Work (Line-Items No.: 3, 4, and 5, Scope identified in section 3.B) shall be invoiced monthly based on actual percentage complete.
- c. BHS Controls –Brock Solutions (Line Item 6) and Design Builder – BHS Controls (Line Item 14): Design Builder shall identify milestones for the following work phases and invoice upon completion of those milestones: Mobilization, Functional Specification approval, Factory Acceptance Testing, MCP/DIO delivery, Commissioning, ISAT, Demobilization and step plan milestones.
- d. Swinerton – General conditions and General Requirements (Line item No.8,9): This item shall be invoiced monthly based on applicable percent completion of the Swinerton field work based on trade subcontract allowance.
- e. Design Builder – Construction Management (Line item No.12): Design Builder shall itemize the following work phases and cost items: Bonds, Project Management, and Site Management. Bond shall be invoiced with the regular monthly pay application following receipt of invoice from Design-Builder's

surety. Project management shall be billed monthly based on percent completion of overall contract, Site management shall be billed monthly based on percent completion of BHS field work.

- f. Warehousing, office Tools, Equipment (Line item No. 16): This item shall be billed monthly based on percent completion of overall contract value.
- g. Travel Expenditure (Line item No. 17): This item shall be billed monthly based on percent completion of overall contract value.
- h. QA/QC & Labor Compliance (Line item No. 18): Design Builder shall itemize the following work phases and cost items: preconstruction QA/QC, construction phase QA/QC, and Labor compliance. It shall be billed monthly based on percent complete of each of these categories.
- i. Warehouse Labor (Line item No.19): Design Builder shall itemize the following work phases and cost items: general labor for warehouse material handling and pre-assembly labor. General labor shall be billed monthly based on percent completion of contract value and pre-assembly labor shall be billed monthly based on percent completion of pre-assembly work.
- j. TSA Professional Services (Line item No. 20): This item shall be billed monthly based on completion of following milestones: TSA 15% submittal, TSA 30% submittal, TSA 70% submittal, TSA 100% submittal, ISAT completion.
- k. Structural Professional Engineering (Line item No.21): This item shall be billed monthly based on completion of following milestones: 60% BHS Submittal, 90% BHS submittal, 100% BHS Submittal, BHS Permit Set and CA Services.
- l. Design Services and Preconstruction Services (Line-Item No. 7, 10, 11 & 13): DESIGN-BUILDER shall submit schedule of values for these line items for LAWA review and approval prior to billing.
- m. Permit and Plan Check Fees (line item 22) shall be invoiced in full upon receipt of applicable permits.
- n. Integration, Testing and Commissioning (Line-Item No. 15) shall be invoiced monthly based on field work percentage complete for this said work item.
- o. It is assumed that this project will require 1,400 test bags for testing, if during the project duration required test bag quantity is reduced, LAWA shall be credited for those reduced test bags at \$97.73 each, or if increased, LAWA will pay an additional \$97.73 per bag. DESIGN BUILDER to submit written evidence of transportation of test bags for billing.

### **3. Trade Subcontract Allowance:**

**A. Development on the Alternates Initial Trade Allowance amount.** The Parties agree that the total value of the Trade Subcontract Work has not yet been determined as of the date of execution for this Contract. Therefore, the Parties have estimated not to exceed amount of \$11,274,156 for the trade subcontracts discussed in paragraph 3(B) below, exclusive of fees. Inclusive of fees, the Initial Trade Allowance shall be:

1. \$11,274,156; plus
2. Swinerton's Fee of 10.211201% on (1) above, or \$1,151,227; plus
3. DESIGN-BUILDER's Fee of 8.96% on the sum of (1) and (2)

above, or \$1,113,314; plus

4. Gross Receipts Tax of 0.101%; or \$13,674
5. Based on 1—4 above, the Parties establish the value of the Initial Trade Allowance to be \$13,552,371. When added to the Lump Sum Work subtotal above, the initial value of the Contract Price is \$231,777,583.

I

- B.** Alternates Initial Trade allowance has been established with not to exceed amount of \$13,551,371. This trade allowance consists of \$3,034,159 funds saved from base contract Initial Trade Allowance and hence will be applied against Alternates Initial Trade Allowance as a deduct. This trade allowance is to cover all non-BHS trades under Swinerton.

28	Base Contract Initial Trade Allowance	\$ 35,535,296	\$ 13,363,027	
29	Swinerton Allowance Deduct		\$ (3,034,159)	
30	VI Allowance to shift to Lump Sum		\$ 189,344	
31	<b>Allowance Subtotal</b>	<b>\$ 35,535,296</b>	<b>\$ 10,518,212</b>	<b>\$ 46,053,508</b>

- C.** With the Initial Trade Allowance having been established, the Parties will, pursuant to Contract General Condition no. 9 (entitled “Subcontracts”), commence procurement of competitive bids for the Trade Subcontract Work using the Competitive Sealed Proposal Selection Process (CSPSP) to provide the best value to LAWA for the following scopes of work:

Code	Category
01400	Clean Up
01451	Testing and inspection services
01548	Scaffolding
01710	Surveying
01740	Final Cleaning
02110	Hazardous material abatement
02220	Demolition
03200	Concrete reinforcing steel
03300	Cast-in-place concrete
03490	Glass-Fiber-Reinforced (FRP)
03500	Floor Leveling / Floor Covering at FRP
05100	Structural steel
05500	Miscellaneous metals
06100	Rough carpentry
07180	Traffic Coatings
07810	Fireproofing
07840	Firestopping
08100	Metal doors / frames
08800	Glass & glazing
09200	Lath & plaster
09250	Drywall/Metal Studs/Insulation

09251	Temporary Barricades
09510	Acoustical ceilings
09650	Resilient flooring
09900	Painting
10260	Wall & corner guards
10400	Signage / identifying devices
10520	Fire extinguishers & cabinets
21000	Fire protection
22000	Plumbing
23000	HVAC & controls
26000	Electrical
32170	Pavement markings / wheel stops
32310	Fences & gates
n/a	Unforeseen

- D. **Collaboration with LAWA.** DESIGN-BUILDER shall record all bids or proposals received for the Trade Contract Work and submit said proposals to LAWA for review. Swinerton and the DESIGN-BUILDER shall analyze the bid results for potential errors with scope of work or pricing. Pursuant to GC-9(K) DESIGN-BUILDER shall make a recommendation for each trade to LAWA as to the responsive and responsible bidder. LAWA shall be invited to trade contractor scope and buyout interviews before DESIGN BUILDER makes recommendation to LAWA for task order execution. A Task Order shall be issued for each scope of work above.
1. Each Task Order shall reflect the total cost to LAWA to complete that scope, inclusive of Swinerton's fee of 10.211201%, and DESIGN-BUILDER's Fee of 8.96%. DESIGN-BUILDER's fee shall be calculated by multiplying 8.96% against the sum total of the trade subcontract plus Swinerton's fee.
  2. DESIGN-BUILDER shall coordinate all scope of work issued in the Task Orders and shall further adhere to the schedule duration submitted as part of this Contract. Task Order request proposals shall be provided in a format that clearly itemizes all fees, labor quantities and labor rates, material quantities and material rates, and equipment costs to perform the Work. Any work performed by DESIGN-BUILDER's subcontractors shall also be itemized as above.
- E. Upon execution of the Trade Subcontract Work Task Orders, the value will be applied against the Alternates Initial Trade Allowance. if the sum of all Task Orders is less than the Trade Subcontract Allowance and Fees, then the Parties will execute a deductive change order equal to the amount of the difference, plus Fees.
1. Each Task Order shall set forth the value of the Trade Subcontract Work; Swinerton's Fee; DESIGN-BUILDER's Fee, and other documentation and information required by LAWA, which shall all be made part of this Contract.
  2. By way of example, if the final value of the Trade Subcontract Work is \$25,000,000, then the Change Order shall reflect the final

Contract Sum, which shall be computed as follows:

- i. Lump Sum Work of \$143,829,109; plus
- ii. Trade Subcontract Work of \$25,000,000; plus
- iii. Swinerton's Fee of \$2,552,800; plus
- iv. Design-Builder's Fee of \$2,468,731; plus
- v. Gross Receipts Tax of \$30,322; equals
- vi. a final Contract Sum of \$173,880,962.

- F. Design-Builder's Design, Preconstruction Services, General Conditions, General Requirements are already part of Lump Sum agreement. Design Builder shall be entitled to additional General Conditions and General Requirements only if time extension for allowance work is approved by LAWA.
- G. Design Builder shall waive all change orders or claim to LAWA for additional General Conditions and General Requirements for base contract work based on baseline schedule submission dated September 04,2024. It is understood that with LAWA approval of these alternates and associated additional General conditions and General requirements, Design Builder's project overhead is covered up to new substantial completion date, which is based upon the alternates design work starting in October 2024.

**4. Change Orders:**

- A. All additional Swinerton General Conditions, Preconstruction; Construction Management; BHS engineering; BHS Controls; Integration, Testing, commissioning hourly rates for future change orders shall be billed as hourly rates outlined in Table 2,3,4, if applicable and approved by LAWA. DESIGN BUILDER shall not proceed with additional changed work without approval subject to General Conditions section on Change Orders and Change Directives
- B. All BHS material and equipment rates for future change orders shall be billed as unit rates outlined in Table 1, if applicable and approved by LAWA. DESIGN BUILDER shall not proceed with additional changed work without approval subject to General Conditions section on Change Orders and Change Directives
- C. Design Builder's General Conditions and General Requirements like Project management, Site supervision, warehouse, office, tools, warehouse equipment, travel cost, QA/ QC, Warehouse labor, bag portering are already covered under base scope for duration of contract. Any additional change orders shall not bill for above General Conditions and General Requirements items if the duration of change order scope falls within the base contract duration unless agreed by LAWA that the scope of the change order work, conflicts with the baseline schedule durations, due to the work being performed in different areas or shifts that are not scheduled for base scope work) . Refer Table 5, Table 6, Table 7 for unit cost of GR items and duration of GR item covered under base contract.

**5. Reference Documents:** The following documents shall be incorporated as exhibits to this document for purposes of calculating the values of future change orders:

**A. DESIGN-BUILDER's Unit Rate Exhibit :**

1. Table 1 – Vanderlande Hourly Rates and Alternate Change Order Staffing

Plan

2. Table 2 – Swinerton Preconstruction, General Conditions, General Requirements Backup, Staffing Plan and Hourly Rates
3. BHS Manifest and Unit Rate referenced in PR01A

**END OF PR-12A Lump Sum Proposals**



**VANDERLANDE**

2023                      2024                      2025                      2026                      2027                      2028

VANDERLANDE	QTY	Unit Rate Full*	TOTAL	TOTAL PRICE												
Key Personnel or Staff Position																
110.000 - Project Director		\$406.39		\$422.64		\$439.55		\$457.13		\$475.41		\$494.43	-	\$	-	Total Shown on Cost Summary per Activity Code
120.000 - Project Management		\$292.26		\$303.95		\$316.11		\$328.76		\$341.91		\$355.58	-	\$	-	Total Shown on Cost Summary per Activity Code
130.000 - Coordination & Integration Mgt		\$275.56		\$286.59		\$298.05		\$309.97		\$322.37		\$335.26	-	\$	-	Total Shown on Cost Summary per Activity Code
140.000 - Finance, Support & Administration		\$278.35		\$289.48		\$301.06		\$313.10		\$325.63		\$338.65	-	\$	-	Total Shown on Cost Summary per Activity Code
150.000 - Estimating		\$233.81		\$243.16		\$252.89		\$263.01		\$273.53		\$284.47	-	\$	-	Total Shown on Cost Summary per Activity Code
151.000 - Supply Chain		\$194.84		\$202.64		\$210.74		\$219.17		\$227.94		\$237.06	-	\$	-	Total Shown on Cost Summary per Activity Code
152.000 - Project Procurement		\$194.84		\$202.64		\$210.74		\$219.17		\$227.94		\$237.06	-	\$	-	Total Shown on Cost Summary per Activity Code
153.000 - Project Planning		\$194.84		\$202.64		\$210.74		\$219.17		\$227.94		\$237.06	-	\$	-	Total Shown on Cost Summary per Activity Code
211.000 - Project Leader Eng. Project		\$242.16		\$251.85		\$261.92		\$272.40		\$283.29		\$294.63	-	\$	-	Total Shown on Cost Summary per Activity Code
213.000 - Project Leader Eng. IT Software		\$208.76		\$217.11		\$225.79		\$234.83		\$244.22		\$253.99	-	\$	-	Total Shown on Cost Summary per Activity Code
215.000 - Project Leader Eng. IT Infrastructure		\$233.81		\$243.16		\$252.89		\$263.01		\$273.53		\$284.47	-	\$	-	Total Shown on Cost Summary per Activity Code
221.000 - System Engineering & Architecture		\$292.26		\$303.95		\$316.11		\$328.76		\$341.91		\$355.58	-	\$	-	Total Shown on Cost Summary per Activity Code
225.000 - Simulation		\$233.81		\$243.16		\$252.89		\$263.01		\$273.53		\$284.47	-	\$	-	Total Shown on Cost Summary per Activity Code
226.000 - Emulation		\$233.81		\$243.16		\$252.89		\$263.01		\$273.53		\$284.47	-	\$	-	Total Shown on Cost Summary per Activity Code
231.000 - Coördination Doc. & Manuals		\$194.84		\$202.64		\$210.74		\$219.17		\$227.94		\$237.06	-	\$	-	Total Shown on Cost Summary per Activity Code
232.000 - Func. Specification		\$242.16		\$251.85		\$261.92		\$272.40		\$283.29		\$294.63	-	\$	-	Total Shown on Cost Summary per Activity Code
234.000 - Func. Specification IT Software		\$208.76		\$217.11		\$225.79		\$234.83		\$244.22		\$253.99	-	\$	-	Total Shown on Cost Summary per Activity Code
236.000 - System Configuration		\$242.16		\$251.85		\$261.92		\$272.40		\$283.29		\$294.63	-	\$	-	Total Shown on Cost Summary per Activity Code
250.000 - Special Design Work		\$192.06		\$199.74		\$207.73		\$216.04		\$224.68		\$233.67	-	\$	-	Total Shown on Cost Summary per Activity Code
271.000 - Mechanical Engineering		\$192.06		\$199.74		\$207.73		\$216.04		\$224.68		\$233.67	-	\$	-	Total Shown on Cost Summary per Activity Code
276.000 - Mechanical Specifications		\$192.06		\$199.74		\$207.73		\$216.04		\$224.68		\$233.67	-	\$	-	Total Shown on Cost Summary per Activity Code
281.000 - Site Engineer & Commissioning		\$192.06		\$199.74		\$207.73		\$216.04		\$224.68		\$233.67	-	\$	-	Total Shown on Cost Summary per Activity Code
301.000 - OT Hardware Specification		\$203.19		\$211.32		\$219.77		\$228.56		\$237.71		\$247.22	-	\$	-	Total Shown on Cost Summary per Activity Code
306.000 - OT Software Programming		\$197.63		\$205.53		\$213.75		\$222.30		\$231.19		\$240.44	-	\$	-	Total Shown on Cost Summary per Activity Code
311.000 - SCADA Programming		\$175.36		\$182.37		\$189.67		\$197.25		\$205.14		\$213.35	-	\$	-	Total Shown on Cost Summary per Activity Code
321.000 - IT Infra Configuration		\$203.19		\$211.32		\$219.77		\$228.56		\$237.71		\$247.22	-	\$	-	Total Shown on Cost Summary per Activity Code
322.000 - IT Software Design		\$203.19		\$211.32		\$219.77		\$228.56		\$237.71		\$247.22	-	\$	-	Total Shown on Cost Summary per Activity Code
328.000 - IT Software Build		\$247.73		\$257.64		\$267.94		\$278.66		\$289.81		\$301.40	-	\$	-	Total Shown on Cost Summary per Activity Code
334.000 - IT Software Inhouse test		\$203.19		\$211.32		\$219.77		\$228.56		\$237.71		\$247.22	-	\$	-	Total Shown on Cost Summary per Activity Code
341.000 - OT Software Commissioning		\$197.63		\$205.53		\$213.75		\$222.30		\$231.19		\$240.44	-	\$	-	Total Shown on Cost Summary per Activity Code
346.000 - SCADA commissioning		\$197.63		\$205.53		\$213.75		\$222.30		\$231.19		\$240.44	-	\$	-	Total Shown on Cost Summary per Activity Code
361.000 - IT Software Commissioning		\$247.73		\$257.64		\$267.94		\$278.66		\$289.81		\$301.40	-	\$	-	Total Shown on Cost Summary per Activity Code
366.000 - Integration, Testing and Acceptance		\$214.33		\$222.90		\$231.82		\$241.09		\$250.73		\$260.76	-	\$	-	Total Shown on Cost Summary per Activity Code
710.000 - Site Management		\$247.73		\$257.64		\$267.94		\$278.66		\$289.81		\$301.40	-	\$	-	Total Shown on Cost Summary per Activity Code
720.000 - Site Supervision installation		\$180.93		\$188.16		\$195.69		\$203.52		\$211.66		\$220.12	-	\$	-	Total Shown on Cost Summary per Activity Code
730.000 - Site Support / Safety officer		\$256.08		\$266.32		\$276.98		\$288.05		\$299.58		\$311.56	-	\$	-	Total Shown on Cost Summary per Activity Code
381.000 - Training		\$155.87		\$162.11		\$168.59		\$175.34		\$182.35		\$189.64	-	\$	-	Total Shown on Cost Summary per Activity Code
387.000 - Service Take Over		\$180.93		\$188.16		\$195.69		\$203.52		\$211.66		\$220.12	-	\$	-	Total Shown on Cost Summary per Activity Code

\* (excludes escalation, which shall be no more than 4%/per year by position)

1.04

# SWINERTON



Design (Alt 4) 9-months  
 Design (Alt 5) 9-months  
 Design (Alt 6) 9-months  
 Design (Alt 7) 9-months  
 Design (Alt 8) 9-months

Estimating (Alt 4) 4-months + SAR/TO 3-months  
 Estimating (Alt 5) 4-months + SAR/TO 3-months  
 Estimating (Alt 6) 4-months + SAR/TO 3-months  
 Estimating (Alt 7) 4-months + SAR/TO 3-months  
 Estimating (Alt 8) 4-months + SAR/TO 3-months

Base: Close

PRECONSTRUCTION STAFF		Preconstruction																
		Aug 2024	Sep 2024	Oct 2024	Nov 2024	Dec 2024	Jan 2025	Feb 2025	Mar 2025	Apr 2025	May 2025	Jun 2025	Jul 2025	Aug 2025	Sep 2025	Oct 2025	Nov 2025	
			1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	
PJEXEC	Project Executive		0%	0%	0%	0%	0%	0%	0%	0%	9%	9%	9%	9%	2%	2%	2%	
PRJMGR	Project Manager		0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	
FLOPMG	Field Operations Manager		0%	0%	0%	0%	0%	0%	0%	0%	9%	9%	9%	9%	2%	2%	2%	
PRECONM	Preconstruction Manager		50%	50%	50%	50%	50%	50%	50%	50%	50%	50%	50%	50%	0%	0%	0%	
CHFEST	Chief Estimator		0%	0%	0%	0%	0%	0%	0%	0%	5%	5%	5%	5%	0%	0%	0%	
SRESTM	Sr Estimator		0%	0%	0%	0%	0%	0%	0%	0%	100%	100%	100%	100%	50%	50%	50%	
LDESTM	Lead Estimator		0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	
SRSCHD	Sr Scheduler		0%	0%	9%	9%	0%	0%	0%	9%	5%	5%	5%	5%	5%	5%	5%	







LAX BOP 2 - Alternates  
LAWA  
General Conditions Summary

9/5/2024

Description	Conversion	Quantity	Rate	Extension
<b>010000 Staffing</b>				<b>\$ 2,695,690</b>
013011	Operations Manager	48 hour	\$ 339.36 / hour	\$ 16,289
013191	Project Executive	192 hour	\$ 273.64 / hour	\$ 52,539
013017	Project Manager	2,595 hour	\$ 256.99 / hour	\$ 666,881
013025	Sr Project Engineer	2,595 hour	\$ 131.07 / hour	\$ 340,118
013060	Sr Superintendent	2,422 hour	\$ 256.82 / hour	\$ 622,014
013065	Superintendent	1,903 hour	\$ 220.95 / hour	\$ 420,468
013180	Sr Scheduler	352 hour	\$ 196.81 / hour	\$ 69,278
	Sr VDC Engineer	128 hour	\$ 155.91 / hour	\$ 19,957
013194	MEP Superintendent	176 hour	\$ 193.20 / hour	\$ 34,002
013200	Safety Manager	2,249 hour	\$ 175.74 / hour	\$ 395,249
013087	Project Accountant	96 hour	\$ 117.37 / hour	\$ 11,267
013095	Sr Project Field Administrator	192 hour	\$ 111.08 / hour	\$ 21,327
013225	Personnel Parking	Yes	405 day \$ 65.00 / day	\$ 26,301
<b>015000 Field Office Expense</b>				<b>\$ 6,342</b>
015213	Storage Box, 8 x 40' - monthly rental	Yes	1 Each	25 month \$ 180.00 / month \$ 4,492
015213	Storage Box - in/out			1 Isum \$ 600.00 / Isum \$ 600
015813	Project Sign - material			0 each \$ 5,000.00 / each \$ 1,250
<b>013500 Safety/First Aid Office Expenses</b>				<b>\$ 2,000</b>
015216	First Aid	Trailer	1 each \$ 1,000.00 / each	\$ 1,000
015116	Fire Extinguishers	Trailer	2 each \$ 500.00 / each	\$ 1,000
<b>19300 Office Administration</b>				<b>\$ 51,011</b>
015230	Office Supplies		14 mnth \$ 1,000.00 / mnth	\$ 13,959
015227	Postage & Shipping		14 mnth \$ 100.00 / mnth	\$ 1,396
015290	Reproduction Costs (Record Drawings)	2 set	300 sht / set	600 sht \$ 1.50 / sht \$ 900
015253	Drinking Water - Trailer		14 mnth \$ 50.00 / mnth	\$ 698
015136	Construction Water - Trailer		1 Isum \$ 1,000.00 / Isum	\$ 1,000
015255	IT Equipment - Ethernet - 11- 20 Employees On Site		14 mnth \$ 1,000.00 / mnth	\$ 13,959
015257	Field Network Services		14 mnth \$ 725.00 / mnth	\$ 10,120
015250	Copier / Fax / Scanner / Printer	1 each	14 mnth / each	14 mnth \$ 500.00 / mnth \$ 6,979
015214	Furniture - Stand Alone		1 Isum \$ 1,000.00 / Isum	\$ 1,000
015214	Furniture - Built In		1 Isum \$ 1,000.00 / Isum	\$ 1,000



LAX BOP 2 - Alternates  
LAWA  
General Requirements Summary

9/5/2024

Description	Conversion	Quantity	Rate	Extension	
<b>013000 Safety</b>				<b>\$ 21,674</b>	
013500 Jobsite Safety		1 Isum	\$ 7,500.00 / Isum	\$ 7,500	
013520 Personal Protection Equipment - Job Site Laborers		2,249 hours	\$ 1.50 / hours	\$ 3,374	
013520 Personal Protection Equipment - Non Craft & Guests		1 Isum	\$ 3,000.00 / Isum	\$ 3,000	
013500 Safety Signage		1 Isum	\$ 6,000.00 / Isum	\$ 6,000	
015116 Fire Extinguishers	1 Levels	1 Per Level	\$ 300.00 / each	\$ 300	
015216 First Aid		1 Isum	\$ 1,500.00 / Isum	\$ 1,500	
<b>014000 Quality</b>				<b>\$ 18,471</b>	
013170 Water + 5 Testing	Based on Project Size & Specs	3 test	\$ 2,500.00 / test	\$ 7,500	
014523 3rd Party Envelope Drawing Review		2 day	\$ 600.00 / day	\$ 1,200	
014000 BIM 360/Field data management - Construction		14 months	\$ 700.00 / months	\$ 9,771	
<b>015400 Equipment</b>				<b>\$ 48,228</b>	
015435 Jobsite Truck		5 mnth	\$ 1,000.00 / mnth	\$ 5,000	
015455 Small Tools & Consumables		25 mnth	\$ 1,550.00 / mnth	\$ 38,678	
015458 Fuel, Oil & Lubrication	1 each	520 month / ea	\$ 325.00 / month	\$ 4,550	
<b>017000 Housekeeping</b>				<b>\$ 299,366</b>	
017413 Carpenter Foreman		2,249 hour	\$ 127.37 / hour	\$ 286,454	
017413 General Clean Up Material		14 mnth	\$ 125.00 / mnth	\$ 1,745	
017419 Debris Boxes - 40 cy	14 mnth	1 load / mnth	\$ 800.00 / load	\$ 11,167	
<b>015600 Temporary Construction &amp; Services</b>				<b>\$ 18,273</b>	
015519 Craft Parking	Parking Req'd	Yes	2,249 hour	\$ 8.13 / hour	\$ 18,273

		LAWA APPROVED RATES						Est Avg Rate/Project PRE CON	Est Avg Rate/Project CONSTRUCTION
			Adjusted	4.00%	4.00%	4.00%	4.00%		
5/1/2023			5/1/2023	5/1/2024	5/1/2025	5/1/2026	5/1/2027		
Operations Manager	OPSMGR	\$ 302.01	302.01	314.09	326.65	339.72	353.31	320.77	331.03
Project Executive	PJEXEC	\$ 243.52	243.52	253.26	263.39	273.93	284.88	258.65	266.92
Project Manager	PRJMGR	\$ 228.70	228.70	237.85	247.36	257.26	267.55	242.91	250.68
Sr Project Engineer	SRPJEN	\$ 116.64	116.64	121.31	126.16	131.20	136.45	123.89	127.85
Field Operations Manager	FLOPMG	\$ 326.81	326.81	339.88	353.48	367.62	382.32	347.11	358.22
Sr Superintendent	SRSUPT	\$ 228.55	228.55	237.69	247.20	257.09	267.37	242.75	250.51
Superintendent	SUPRTD	\$ 196.63	196.63	204.50	212.68	221.18	230.03	208.85	215.53
Preconstruction Manager	PRECONMGR	\$ 210.37	210.37	218.78	227.54	236.64	246.10	223.44	230.59
Chief Estimator	CHFEST	\$ 252.81	252.81	262.92	273.44	284.38	295.75	268.52	277.11
Sr Estimator	SRESTM	\$ 163.93	163.93	170.49	177.31	184.40	191.77	174.11	179.68
Lead Estimator	LDESTM	\$ 163.52	163.52	170.06	176.86	183.94	191.30	173.68	179.23
Sr Scheduler	SRSCHD	\$ 175.15	175.15	182.16	189.44	197.02	204.90	186.03	191.98
Sr VDC Engineer	SVDCBN	\$ 138.75	138.75	144.30	150.07	156.07	162.32	147.37	152.08
VDC Engineer	VDSCPE	\$ 113.13	113.13	117.66	122.36	127.26	132.35	120.16	124.00
MEP Superintendent	MESUPT	\$ 171.93	171.93	178.81	185.96	193.40	201.13	182.61	188.45
Safety Manager	SFTYMG	\$ 156.40	156.40	162.66	169.16	175.93	182.97	166.12	171.43
Project Quality Manager	QACTMG	\$ 157.32	157.32	163.61	170.16	176.96	184.04	167.09	172.44
Project Accountant	PJACCT	\$ 104.45	104.45	108.63	112.97	117.49	122.19	110.94	114.49
Labor Compliance Manager	LBRCMGR	\$ 113.75	113.75	118.30	123.03	127.95	133.07	120.82	124.68
Sr Compliance Specialist	SRCOMSPC	\$ 117.58	117.58	122.28	127.17	132.26	137.55	124.88	128.88
Compliance Specialist	COMSPEC	\$ 117.58	117.58	122.28	127.17	132.26	137.55	124.88	128.88
			-	-	-	-	-		
Sr Project Field Administrator	SRPFAD	\$ 98.85	98.85	102.80	106.92	111.19	115.64	104.99	108.35
Project Field Administrator	PJFLAD	\$ 112.58	112.58	117.08	121.77	126.64	131.70	119.57	123.40
Sr Project Assistant	SRPJAS	\$ 117.58	117.58	122.28	127.17	132.26	137.55	124.88	128.88
Project Assistant	PJASST	\$ 113.61	113.61	118.15	122.88	127.80	132.91	120.67	124.53
Sr Administrative Assistant	SRAAST	\$ 117.58	117.58	122.28	127.17	132.26	137.55	124.88	128.88
Administrative Assistant	ADMAST	\$ 113.61	113.61	118.15	122.88	127.80	132.91	120.67	124.53
			Adjusted	4.00%	4.00%	4.00%	4.00%		
			5/1/2023	5/1/2024	5/1/2025	5/1/2026	5/1/2027		
Carpenter Foreman	CARF	\$ 113.35	113.35	117.88	122.60	127.50	132.60	120.39	124.24

**Exhibit L**  
Additional Work – Labor Rates

**Labor Rates**

The below billing rates are applicable for additional work performed on an hourly basis, when so authorized by Contractor in accordance with the GC Article IX.

Hourly Rates	
Title	Hourly Rates for 2023/2024
Project Executive	\$ 243.52
Design Build Manager	\$ 249.00
Project Manager	\$ 228.70
Assistant Project Manager	\$ 141.32
Superintendent	\$ 196.63
Night Superintendent	\$ 226.12
Assistant Superintendent	\$ 152.72
Night Assistant Superintendent	\$ 165.69
Safety Manager	\$ 156.40
Night Safety Manager	\$ 179.87
Quality Control Manager	\$ 157.32
Night Quality Control Manager	\$ 180.92
Sr. Project Engineer	\$ 116.64
Outreach Manager	\$ 98.77
Compliance Manager	\$ 113.75
Sr Scheduler	\$ 175.15
VDC Engineer	\$ 113.13
Project Accountant	\$ 104.45
Sr Project Field Admin	\$ 98.85
Admin Assistant	\$ 95.51
Chief Estimator	\$ 252.81
Estimating Coordinator	\$ 74.25
Estimator	\$ 163.52
Field Operation Manager	\$ 326.81
Operations Manager	\$ 302.01
Preconstruction Director	\$ 237.91
Preconstruction Manager	\$ 210.37
Project Field Admin	\$ 94.64
Sr Estimator	\$ 163.93
Sr Mech/Elec/Plumb Superintendent	\$ 171.93
VDC Manager	\$ 165.27

Escalation of no more than 4% shall be applied annually to the rates above starting May 1, 2024 and every year afterwards.