

THE NORTHWEST SEAPORT ALLIANCE
INVITATION TO BID (ITB)
No. 092026-1057
Skid Mounted Mobile Shore Power Cable Reel

Issued by
The Northwest Seaport Alliance (NWSA)
One Sitcum Plaza
P.O. Box 1837
Tacoma, WA 98401-1837

The NWSA reserves the right to modify this schedule at the NWSA's discretion.
Notification of changes in the response due date would be posted on the NWSA website
or as otherwise stated herein.

ITB INFORMATION	
Contact:	Alex Compton, Procurement
Email Addresses:	procurement@portoftacoma.com
Phone:	253-888-4741
Deadline for Questions	OCTOBER 29, 2026 @ 2:00 PM (PST)
Bid Submittal Deadline	NOVEMBER 5, 2026 @ 2:00 PM (PST)

**PLEASE SUBMIT ALL QUESTIONS AND BIDS
VIA THE PROCUREMENT PORTAL
(LINK LOCATED ON THE LEFT SIDE OF THE PROCUREMENT PAGE)**

THE NORTHWEST SEAPORT ALLIANCE
Invitation to Bid (ITB) # 092026-1057
Skid Mounted Mobile Shore Power Cable Reel

In this solicitation the NWSA seeks to obtain one (1) new Skid Mounted Mobile Shore Power Cable Reel as detailed in the specification sheet of this ITB which will support the NWSA's terminal operations.

A. BACKGROUND

The NWSA is an operating partnership between the Ports of Seattle and Tacoma. Together, the ports comprise one of the leading container gateways in the United States. The region's marine cargo facilities also serve as a major hub for bulk, breakbulk, project and heavy-lift cargoes, automobiles, and trucks.

The NWSA is governed by the two ports as equal Managing Members, with each Managing Member consisting of the five commissioners in each port. Each port's commissioners are elected at large by the citizens of their respective counties. To learn more about the NWSA visit <https://www.nwseaportalliance.com/>.

The NWSA anticipates awarding one (1) contract to the selected organization for one (1) new Skid Mounted Mobile Shore Power Cable Reel.

The NWSA's Standard Terms and Conditions are included as Attachment B to this ITB. By submitting a bid, the Bidder represents that it has carefully read and agrees to be bound by the NWSA's Standard Terms and Conditions. Identify during the question submittal and response period, any sections you consider onerous, clarify why you consider these sections onerous, propose alternative language and describe why it is in the NWSA's best interests to adopt the alternative language.

Bids submitted with altered or conditioned Terms and Conditions without prior written agreement from the NWSA will be considered non-responsive and not considered for evaluation.

The NWSA, at its sole discretion, reserves the right to reject any and all responses, to waive any informalities or irregularities, and to negotiate modifications to this solicitation and responses in order to align the purchase to best meet the needs of the NWSA and granting agency.

B. SOLICITATION OBJECTIVES:

Through this ITB, the NWSA will consider bids from all qualified agencies. It is the intent of the NWSA that the Skid Mounted Mobile Shore Power Cable Reel meets or exceeds the specification requirements stated in Attachment C (Specification Requirements).

The NWSA expects to achieve these outcomes through this solicitation:

- To obtain a quality Skid Mounted Mobile Shore Power Reel which meets or exceeds specifications;
- Ready access to warranty support and repair parts;
- Using environmentally preferable products;

- Get the best value; and
- Accurate and timely invoicing.

C. SPECIFICATIONS:

See Attachment C for specifications on the Skid Mounted Mobile Shore Power Cable Reel.

Warranty Services and Performance:

Supplier warrants that the Skid Mounted Mobile Shore Power Cable Reel, along with all its equipment, appurtenances, materials, and services furnished under this Contract shall be new, free from defects in design, materials, and workmanship, and shall conform to the Contract requirements. Supplier shall provide a written manufacturer's warranty covering one hundred percent (100%) of parts and labor for the warranted equipment, which shall be honored by all authorized manufacturer service providers.

The warranty period shall be a minimum of five (5) years and shall commence on the earlier of: (a) the date the equipment is placed into service by NWSA; or (b) thirty (30) days after final payment.

Supplier shall provide technical support and any reasonable modifications necessary to achieve the specified operational performance for ninety (90) calendar days following the in-service date. Supplier shall be responsible for all costs associated with warranty repairs, including labor, materials, parts, transportation, shipping, and travel.

Upon notification of a warranty failure, Supplier shall begin corrective action within seventy-two (72) hours. If Supplier fails to do so, NWSA may perform or arrange the necessary repairs and Supplier shall reimburse NWSA for all reasonable costs incurred. NWSA shall submit an invoice documenting such costs, and Supplier shall remit payment within thirty (30) days of receipt.

Supplier may authorize NWSA personnel to perform warranty repairs when mutually beneficial. In such cases, Supplier shall reimburse NWSA for all reasonable labor, materials, parts, shipping, and related costs incurred in performing the repair.

Supplier shall maintain the capability to provide repair parts and product support for a minimum of ten (10) years following delivery of the equipment.

D. INSTRUCTIONS, INFORMATION, AND COMMUNICATION:

Bid Procedures and Process

This chapter details NWSA procedures for directing the ITB process. The NWSA reserves the right in its sole discretion to reject the Bid of any Supplier that fails to comply with any procedures outlined in this chapter.

Communications

All communications concerning this acquisition shall be directed to the ITB Coordinator shown below:

Alex Compton
(253) 888-4741

Unless authorized by the ITB Coordinator, no other NWSA official or NWSA employee is empowered to speak for the NWSA regarding this solicitation. Any Supplier seeking to obtain information, clarification, or interpretations from any other NWSA official or NWSA employee other than the ITB Coordinator is advised that such material is used at the Supplier's own risk. The NWSA will not be bound by any such information, clarification, or interpretation.

Following the bid deadline, Suppliers shall continue to direct communications to only the NWSA ITB Coordinator. The ITB Coordinator will send out information to responding companies as decisions are completed.

Questions

Suppliers are encouraged to submit questions they may have regarding this procurement. Getting answers during the procurement process allows Suppliers to make a more informed bid offer. Questions are to be submitted to the ITB Coordinator by the date and time on page 1, to allow sufficient time for the NWSA ITB Coordinator to consider the question before the bids are due. The NWSA requires such questions to be submitted through the **procurement portal**. Failure to request clarification of any inadequacy, omission, or conflict will not relieve the Supplier of any responsibilities under this Bid or any subsequent contract.

Changes to the ITB/Addenda

A change may be made by the NWSA if, in the sole judgment of the NWSA, the change will not compromise the NWSA's objectives in this acquisition. A change to this ITB will be made by formal written addendum issued by the NWSA's ITB Coordinator. Addenda issued by the NWSA shall become part of this ITB specification and will be included as part of the final Contract. The interested Supplier will assure that they have received Addenda.

Receiving Addenda and/or Question and Answers

The ITB Coordinator will try to provide you notice by posting addendums that have been on the NWSA website. Suppliers are encouraged to register as Plan Holders for the specific solicitation you are bidding on so automatic notifications are sent out any time changes are made. Notwithstanding efforts by the NWSA, it remains the obligation and responsibility of the Supplier to learn of any addendums, responses, or notices issued by the NWSA. Such efforts by the NWSA to provide notice or to make it available on the website do not relieve the Supplier from the sole obligation for learning of such material. Some third-party services independently post NWSA bids on their websites.

The NWSA does not guarantee that such services have accurately provided Suppliers with all information particularly Addendums or changes to bid date/time.

All Bids sent to the NWSA shall be compliant to all Addendums, with or without specific confirmation from the Supplier that the Addendum was received and incorporated. However, the ITB Coordinator can reject the Bid if it does not reasonably appear to have incorporated any published addendum. The ITB Coordinator could decide that the Supplier incorporated the Addendum information or could determine that the Supplier failed to incorporate the Addendum changes and that the changes were material so the ITB Coordinator must reject the Offer, or the ITB Coordinator may determine that the

Supplier failed to incorporate the Addendum changes but that the changes were not material and therefore the Bid may continue to be accepted by the ITB Coordinator.

Dealer Authorization

Bidders, if other than the manufacturer, shall provide a current, dated, and signed authorization from the manufacturer that the bidder is an authorized distributor, dealer or service representative and may sell the manufacturer's products. Failure to comply with this requirement may cause bid rejection.

Submittal Requirements

Suppliers have full responsibility to ensure the response arrives at the NWSA within the deadline and adheres to the requested submittal format. Late bids will be rejected.

Electronic Submittal

Bids must be received via the procurement portal on or before the date and time outlined on the front page of this proposal.

Procurement Submission Portal Instructions

Navigate to the procurement web page (referencing the bid number and name) via the following link [Procurement | NWSA](#). Find the corresponding procurement. While on the procurements page, click on the 'Procurement Submission Portal' link (located on the lefthand side of the page).

Full instructions on how to utilize the submission portal can be found on the Port's website, www.portoftacoma.com under 'Business -> Contracting -> Procurement'. See bold red heading above the bid search box "Bid and Question Submittal Instructions", to access the thorough instructions in PDF format.

It is the bidders' responsibility to verify the receipt of the submittal. Electronic verification will be provided. *Late bids will not be accepted by the NWSA. Bids received after the stated date and time will not be reviewed and shall be deemed non-responsive. All bids submitted shall be valid and binding on the submitting firm for a period of ninety (90) days following the submittal deadline and for any extension of time granted by the submitting firm.

Bid Opening

The Bids shall be accessed by the ITB coordinator after the due date and time indicated. Initial results will be posted online shortly thereafter

Bid and Price Specifications

Supplier shall provide their Offer on forms provided by the NWSA, indicating unit prices for each item, if applicable, attaching additional pages if needed. In the case of difference between the unit price and the extended price, the NWSA shall use the unit price. The NWSA may correct the extended price accordingly. Unless specified otherwise on the Offer Form, Supplier shall quote prices F.O.B. Destination, with freight prepaid and allowed. All prices are to be in US Dollars.

Do Not Submit Extra Comments, Explanations, Information or Changes

The NWSA will reject bids that the ITB Coordinator finds to be taking material exception to the NWSA specifications and NWSA contract. Therefore, be careful that you do not add information or explanations on your Offer form. Do not take exceptions, do not offer alternatives (unless the NWSA specifically requests), and do not mark the Offer with changes to specifications or the contract. Do not attach your own boilerplate. Even adding an explanation about your pricing could cause rejection of your bid. This decision will be made in the sole opinion of the ITB Coordinator. If the Offer Form doesn't seem to adequately address your concern or clarification, submit a question through the procurement portal for clarification.

Partial and Multiple Awards

Unless stated to the contrary in the Solicitation, the NWSA reserves the right to name a partial and/or multiple awards, in the best interest of the NWSA. Suppliers are to prepare pricing and offers given the NWSA's intention to utilize the right to a partial or multiple awards, in the best interest of the NWSA. Further, the NWSA may eliminate an individual line item when calculating award, to best meet the needs of the NWSA, if a particular line item is not routinely available or is a cost that exceeds the NWSA's funds.

Prompt Payment Discount

On the Offer form or submittal, the Supplier may state a prompt payment discount term, if the Supplier offers one to the NWSA. A prompt payment discount term of ten or more days will be considered for bid tabulation.

Contract Terms and Conditions

Suppliers are to carefully review all specifications, requirements, Terms and Conditions, and insurance requirements. Submittal of a response is agreement to all Terms and Conditions. All specifications, requirements, terms, and conditions are mandatory, and all submittals should anticipate full compliance with no exceptions to these Terms and Conditions.

Incorporation of ITB and Bid in Contract

This ITB and the Supplier's response, including all promises, warranties, commitments, and representations made in the successful Bid, shall be binding and incorporated by reference in the NWSA's contract with the Supplier.

Effective Dates of Offer

The prices offered in Bid must remain valid until NWSA completes award. Should any Supplier object to this condition, the Supplier must provide objection through a question and/or complaint to the ITB Coordinator prior to the bid closing date.

Cost of Preparing Bids

The NWSA will not be liable for any costs incurred by the Supplier in the preparation and presentation of Bids submitted in response to this ITB including, but not limited to, costs incurred in connection with the Supplier's participation in demonstrations and the pre-Bid conference.

Supplier Responsibility to Examine Documents

It is the Supplier responsibility to examine all specifications and conditions thoroughly and comply fully with specifications and all attached terms and conditions. Suppliers must comply with all Federal, State, and City laws, ordinances, and rules, and meet all registration requirements where required for Suppliers in the Washington Revised Statutes. By responding to this Invitation to Bid (ITB), Supplier agrees that he/she has read and understands all documents within this ITB package.

Supplier Responsibility to Provide Full Response

It is the Supplier's responsibility to respond and Offer Form that does not require interpretation or clarification by the ITB Coordinator. The Supplier is to provide all requested materials, forms, and information. The Supplier is responsible for ensuring the Offer properly and accurately reflects the Supplier specifications and offering. The NWSA does not accept materials to supplement the bid after the bid deadline; however, this does not limit the right of the NWSA to consider additional materials obtained by the NWSA such as references or past experience, even if such materials were not specifically submitted by the Supplier, or to seek clarifications from the Supplier as needed by the NWSA.

Do Not Attach Additional Materials with your Bid

Do not insert material sheets, extra product options, comments on boilerplate, supplemental or suggested contract terms, or other similar materials unless such materials are specifically requested by the NWSA or are necessary to show an "or equal" product specification. Such additional materials can compromise the clarity of your bid and result in rejection of your offer. If the materials conflict with your Offer, the NWSA will not be obligated to clarify or determine which has priority; the NWSA may instead reject your bid.

Changes or Corrections to Bids

Prior to the bid submittal closing date and time established for this ITB, a Supplier may make changes to its bid provided the change is initialed and dated by the Supplier. No change to a bid shall be made after the bid closing date and time. Note you cannot change, mark-up or cross-out any condition, format, provision, or term that appears on the NWSA's published Offer Form. If you need to change any of your own prices or answers you write on the Offer Form must be made in pen, initialed, and be clear in intent. Do not use white-out.

Errors in Bids

Suppliers are responsible for errors and omissions in their Bids. No such error or omission shall diminish the Supplier's obligations to the NWSA.

Withdrawal of Bid

A bid submittal may be withdrawn by written request of the submitter, prior to bid closing. After the closing date and time, the submittal may be withdrawn only with permission by the NWSA.

Rejection of Bids and Rights of Award

The NWSA reserves the right to reject any or all Bids at any time with no penalty. The NWSA may also waive immaterial defects and minor irregularities in any submitted Bid.

Bid Disposition

All material submitted in response to this ITB shall become the property of the NWSA upon delivery to the ITB Coordinator.

Minority & Women's Business Enterprises (WMBE)

The NWSA encourages participation in all its contracts by Minority & Women's Business Enterprises (MWBE) firms either self-identified or certified by the Office of Minority & Women's Business Enterprises (OMWBE). While the NWSA does not give preferential treatment, it seeks equitable representation from the minority and women's business community.

Participation may be directly in response to this Solicitation or as a Sub-Supplier to a Supplier. However, unless required by Federal statutes, regulations, grants, or contract terms referenced in the original Solicitation, no preference will be included in evaluating Bids, no minimum level of MWBE participation shall be required as a condition for receiving an award, and Bids will not be evaluated, rejected, or considered non-Responsive on that basis.

Any affirmative action requirements in Federal regulations or statutes included or referenced in the original Solicitation will apply. Suppliers may contact the Office of Minority & Women's Business Enterprises (OMWBE) at <https://omwbe.wa.gov/> to obtain information on certified firms for potential sub-contracting arrangements. Nothing in this section should prevent or discourage Suppliers from inviting participation from non-MWBE firms, MWBE firms, and Small and Emerging Businesses.

Requesting Disclosure of Public Records

The NWSA asks Suppliers/Sub-Suppliers and their companies to refrain from requesting public disclosure of proposal records until an intention to award is announced. This measure is intended to shelter the solicitation process, particularly during the evaluation and selection process or in the event of cancellation or re-solicitation. With this preference stated, the NWSA will continue to respond to all requests for disclosure of public records as required by State Law.

No Gifts and Gratuities

Suppliers shall not directly or indirectly offer anything of value (such as retainers, loans, entertainment, favors, gifts, tickets, trips, favors, bonuses, donations, special discounts, work, or meals) to any NWSA employee, volunteer or official, if it is intended or may appear to a reasonable person to be intended to obtain or give special consideration to the Supplier.

No Conflict of Interest

Supplier (including officer, director, trustee, partner or employee) must not have a business interest or a close family or domestic relationship with any NWSA official, officer or employee who was, is, or will be involved in selection, negotiation, drafting, signing, administration or evaluating Supplier performance. The NWSA shall make sole determination on compliance.

E. BID SUBMITTALS:

a) **Legal Name:** Submit a certificate, copy of webpage, or other documentation from the Corporation Commission in which you incorporated that shows your legal name as a company. Many companies use a “Doing Business As” name or a nickname in their daily business. However, the NWSA requires the legal name of your company, as it is legally registered. When preparing all forms below, use the proper company legal name. Your company’s legal name can be verified through the State Corporation Commission in the state in which you were established, which is often within the Secretary of State’s Office for each state at <http://www.coordinatedlegal.com/SecretaryOfState.html>.

b) **Bid Offer Form:** This response is mandatory.

Submittal Checklist

This checklist is for your convenience only. It need not be submitted with your bid. This checklist summarizes each form required to complete and submit your bid package to the NWSA.

Cover Sheet	Optional
Legal Name	Important
Attachment D - Bid Offer & Non-Collusion Form	Mandatory: See form for Options

Attachments:

ATTACHMENT A – SUBMITTAL INSTRUCTIONS

ATTACHMENT B – NWSA TERMS AND CONDITIONS

ATTACHMENT C – SPECIFICATION AND DRAWINGS FOR SKID MOUNTED

MOBILE SHORE POWER CABLE REEL

ATTACHMENT D – OFFER SHEET (REQUIRED)

ATTACHMENT “A”
SUBMITTAL INSTRUCTIONS

PROCUREMENT PROCESS

SOLICITATION TIMELINE:

Issuance of Solicitation	OCTOBER 8, 2026
Last Day to Submit Questions	OCTOBER 29, 2026 @ 2:00 PM (PST)
Bid Packets Due	NOVEMBER 5, 2026 @ 2:00 PM (PST)
Review/Shortlist*	NOVEMBER 6, 2026
Interviews (if required)*	N/A
Final Selection*	NOVEMBER 7, 2026
Execute Contract*	NOVEMBER 14, 2026

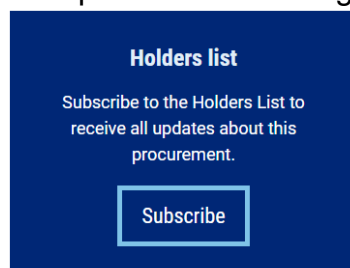
*Dates are tentative.

All status updates on the above solicitation timeline will be announced on the NWSA's website for this solicitation.

VENDOR OBLIGATION

The NWSA's Invitation to Bid, Request for Proposals and Request for Qualifications can be accessed on the NWSA's website, [Procurement | The Northwest Seaport Alliance](#) under 'Home -> About Us -> Do Business With Us -> Contracting -> Procurement'.

When viewing the details page for this procurement on the NWSA's Website firms have the option of subscribing to the Holder's List.



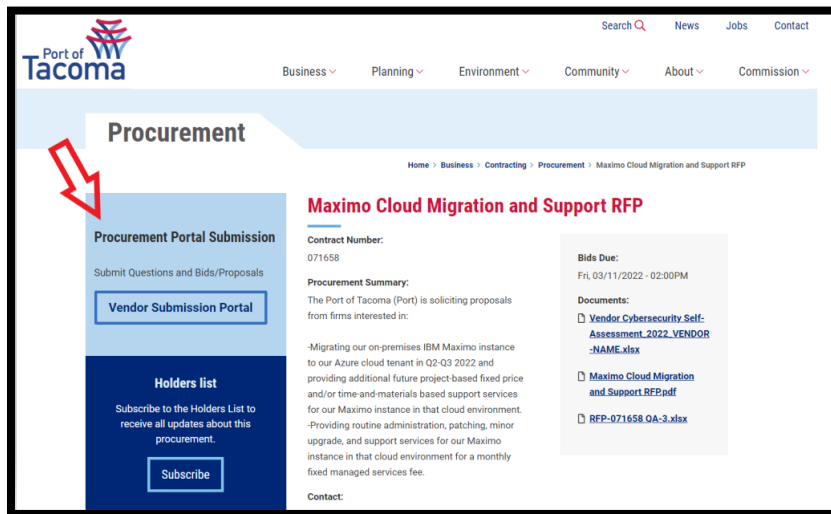
By subscribing to the Holder's List, firms will automatically be notified when new documents or changes relating to this procurement occur.

***Only those who have subscribed to the Holder's List will receive notifications throughout the procurement process, up until a firm is selected.**

COMMUNICATION / INQUIRES

Bidders who, relative to this scope of services, contact any individuals or Commission members representing the NWSA or the Port, other than the Procurement Representative listed on the solicitation may be disqualified from consideration.

Written questions about the meaning or intent of the Solicitation Documents shall only be submitted to the Procurement Department via the Procurement Portal (**Portal link is accessible via this specific procurements website. See left side of page.**).



Bidders who may have questions about provisions of these documents are to submit their questions by the date listed above. The NWSA/Port will respond to all written questions submitted by this deadline, and responses will be posted on the corresponding procurements website.

ADDENDA

The NWSA/Port may make changes to this Solicitation. Oral or other interpretations, clarifications or submittal instructions will be without legal effect. Any information modifying a solicitation will be furnished in a formal, written addendum. If at any time, the NWSA/Port changes, revises, deletes, increases, or otherwise modifies the Solicitation, the NWSA/Port will issue a written Addendum to the Solicitation. Addenda will be posted to the NWSA's web site and conveyed to those potential submitters who have requested to be placed on the Holder's List.

SUBMITTAL PROCESS

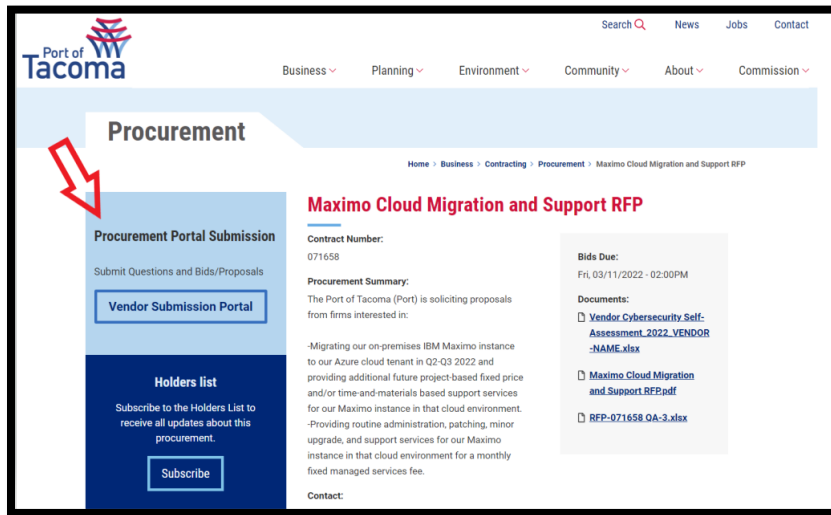
Electronic Submittal:

Bids must be received via the procurement portal on or before the date and time outlined on the front page of this proposal.

Procurement Submission Portal Instructions:

Navigate to this procurements web page (referencing the number and name) via the following link [Procurement | The Northwest Seaport Alliance](#). While on the

procurements page, click on the 'Procurement Submission Portal' link (located on the lefthand side of the page).



Full instructions on how to utilize the submission portal can be found on the Port's website, www.portoftacoma.com under 'Business -> Contracting -> Procurement'. See bold red heading above the bid search box "Bid and Question Submittal Instructions", to access the thorough instructions in PDF format.

Please submit bids, including all appendices and compensation in separate Adobe Acrobat PDF format. Submittals need to be limited to **9 MB in total email size**. Please provide one (1) non-redacted version of your PDF submittal. It is the **Consultant's responsibility to verify the receipt of the submittal. Electronic verification will be provided.**

***Late proposals will not be accepted by the NWSA/Port. Proposals received after the stated date and time will not be reviewed and shall be deemed non-responsive.**

All bids submitted shall be valid and binding on the submitting firm for a period of ninety (90) days following the submittal deadline and for any extension of time granted by the submitting firm.

Procedure When Only One Proposal is received

In the event that a single responsive proposal is received, the Proposer shall provide any additional data required by the NWSA/Port to analyze the proposal. The NWSA/Port reserves the right to reject such proposals for any reason.

GENERAL INFORMATION

News releases pertaining to this ITB, the services, or the project to which it relates, shall not be made without prior approval by, and then only in coordination with, the NWSA/Port.

COSTS BORNE BY PROPOSERS

All costs incurred in the preparation of a Proposal and participation in this ITB and negotiation process shall be borne by the proposing firms.

PROTEST PROCESS

A Bidder protesting for any reason the Bidding Documents, a Bidding procedure, the NWSA/Port's objection to a Bidder or a person or entity proposed by the Bidder, including but not limited to a finding of non-Responsibility, the Award of the Contract or any other aspect arising from or relating in any way to the Bidding shall cause a written protest to be filed with the NWSA/Port within two (2) business days of the event giving rise to the protest. (Intermediate Saturdays, Sundays, and legal holidays are not counted as business days.) The written protest shall include the name of the protesting Bidder, the bid solicitation number and title under which the protest is submitted, a detailed description of the specific factual and legal grounds for the protest, copies of all supporting documents, evidence that the apparent low bidder has been given notice of the protest, and the specific relief requested. The written protest shall be sent by email to procurement@portoftacoma.com

Consideration. Upon receipt of the written protest, the NWSA/Port will consider the protest. The NWSA may, within three (3) business days of the NWSA/Port's receipt of the protest, provide any other affected Bidder(s) the opportunity to respond in writing to the protest. If the protest is not resolved by mutual agreement of the protesting Bidder and the NWSA/Port, the Contracts Director of the NWSA/Port or his or her designee will review the issues and promptly furnish a final and binding written decision to the protesting Bidder and any other affected Bidder(s) within six (6) business days of the NWSA/Port's receipt of the protest. (If more than one (1) protest is filed, the NWSA/Port's decision will be provided within three (3), but no more than six (6) business days of the NWSA/Port's receipt of the last protest.) If no reply is received from the NWSA/Port during the six (6) business-day period, the protest will be deemed rejected.

Waiver. Failure to comply with these protest procedures will render a protest waived.

Condition Precedent. Timely and proper compliance with and exhaustion of these protest procedures shall be a condition precedent to any otherwise permissible judicial consideration of a protest.

SMALL BUSINESS AND DISADVANTAGED BUSINESS OPPORTUNITIES

The Northwest Seaport Alliance encourages participation in all of its contracts by MWBE firms certified by the Office of Minority and Women's Business Enterprises (OMWBE). Participation may be either on a direct basis in response to this solicitation/invitation or as a subSupplier to a Bidder/Proposer. However, unless required by federal statutes, regulations, grants, or contract terms referenced in the contract documents, no preference will be included in the evaluation of bids/submittals, no minimum level of MWBE participation shall be required as a condition for receiving an award and bids/submittals will not be rejected or considered non-responsive on that basis. Any affirmative action requirements set forth in federal regulations or statutes included or referenced in the contract documents will apply. The selected firm will be required to show evidence of outreach.

RIGHT TO CANCEL

The NWSA/Port reserve the right to cancel or reissue all or part of this Solicitation at any time, as allowed by law, without obligation or liability.

PROHIBITION ON ADVANCED PAYMENTS

The NWSA/Port does not accept requests for early payment, down payment, or partial payment, unless the ITB specifically allows such. Maintenance subscriptions may be paid up to one year in advance provided that should the NWSA/Port terminate early, the amount paid shall be reimbursed to the NWSA/Port on a prorated basis; all other expenses are payable net 30 days after receipt and acceptance of satisfactory compliance.

IDENTIFICATION

All invoices, correspondence, and other written materials associated with this Contract shall be identified by the Contract number or the applicable Purchaser's order number.

INVOICING

Invoices are to detail the services performed each month and must identify the Contract number or Purchase Order number on the invoice. Submit invoices electronically to accountspayable@portoftacoma.com.

SUBCONTRACTS AND ASSIGNMENT

Supplier shall not Subcontract, assign, or otherwise transfer its obligations under this Contract without the prior written consent of the Contract Administrator. Supplier shall provide a minimum of 30 calendar days advance notification of intent to Subcontract, assign, or otherwise transfer its obligations under this Contract. Violation of this condition may be a material breach establishing grounds for Contract termination. The Supplier shall be responsible for ensuring that all requirements of the Contract shall flow down to all Sub-Suppliers. The existence of a Subcontract shall not operate to release or reduce the liability of Supplier to the NWSA for any breach in the performance of the Supplier's duties.

SPECIFICATIONS BY REFERENCE

Any material specified by reference to the number, symbol or title of a specific standard such as a commercial standard, federal specifications, a trade association standard, or other similar standard, will comply with the requirements in the latest revision thereof, and any amendment or supplement thereof in effect on the date of the ITB, except as limited to type class or grade, or modified in the specification, shall have full force and effect as though printed in specifications.

SUBSTITUTIONS

The product, equipment, materials, or methods described or noted within the bidding documents are to establish a standard of quality, function, appearance, and dimension, and shall be deemed to be followed by the words "or equal". A proposed substitute shall have approved equal attributes and the NWSA shall be the sole judge of the equality of the product, equipment, materials, or methods offered in the substitution.

SUPPLIER AUTHORITY AND INFRINGEMENT

Supplier has authorization to sell under this Contract, only those services stated and allowed for by this Contract. Supplier shall not represent to any Purchasers they have the Contract authority to sell any other materials, supplies, services, and/or equipment. Further, Supplier may not intentionally infringe on other established NWSA Contracts.

ATTACHMENT “B”
PURCHASED GOODS & SERVICES TERMS AND CONDITIONS

1. Overview and Governing Terms

1.1 Entire Agreement

This Contract represents the entire agreement between the Buyer and the Seller and supersedes all prior discussions, negotiations, and agreements, whether written or oral. In the event of any conflict between contract documents or applicable laws, the most stringent requirement shall govern.

1.2 Governing Law and Venue

This Agreement shall be governed exclusively by the laws of the State of Washington both as to interpretation and performance without recourse to any principles of Conflicts of Laws. Any action at law, suit in equity or judicial proceeding for the enforcement of this Agreement or any provisions thereof shall be instituted and maintained only in any court of competent jurisdiction in Pierce County or King County, Washington. Seller agrees to comply with all local, state, tribal and federal laws and regulations applicable to the project, including building codes and permitting regulations existing at the time this Agreement is executed and those regarding employee safety and the workplace environment.

1.2.1. Attorney's Fees. In the event of litigation or other action brought to enforce this Contract, each party shall bear its own attorneys' fees and costs.

1.3 Contract Documents

The Contract includes all solicitation documents, specifications, plans, Buyer policies, and applicable Washington State laws, incorporated by reference.

1.4 Conflict of Interest

Seller warrants that it has no direct or indirect economic interest which conflicts in any manner with its performance of the services required under this Agreement. Seller warrants that it has not retained any person to solicit this Agreement and has not agreed to pay such person any compensation or other consideration contingent upon the execution of this Agreement.

2. Definitions

Buyer: Port of Tacoma and / or the Northwest Seaport Alliance.

Seller: Contracting party, including Sub-Suppliers, suppliers, and agents.

Order/Purchase Order: Contracting instrument and all referenced documents.

Supplier: Any company, manufacturer, distributor, vendor, or authorized representative that offers to furnish, deliver, and warranty the materials, equipment, or products in accordance with the requirements, specifications, terms, and conditions of this

solicitation. The supplier shall be responsible for the quality, delivery, compliance, and performance of the materials furnished under any resulting contract.

3. General Requirements

3.1 Acceptance

Acceptance is limited to the terms set out in this Contract. Additional or conflicting terms are rejected unless approved in writing by Buyers Contracts & Purchasing Manager or that person's designee. Buyer's acceptance of goods or payment for goods or services shall not constitute Buyer's acceptance of any additional terms appearing on Seller's invoices or acknowledgements. Seller certifies eligibility to participate in Washington public contracts and must comply with all applicable laws.

3.2 Independent Supplier

Seller is an independent Supplier and responsible solely for performance of the Services.

3.3 Equal Opportunity and Non-Discrimination

Seller shall comply with all federal, state, and local non-discrimination and equal opportunity laws, including but not limited to Title VII of the Civil Rights Act of 1964, the Americans with Disabilities Act (ADA), Section 504 of the Rehabilitation Act, the Age Discrimination in Employment Act, and chapter 49.60 RCW (Washington Law Against Discrimination). Failure to comply with these requirements shall be considered a material breach of this Contract subject to termination of this Contract for default under Paragraph 9.2.

4. Commercial Terms

4.1 Pricing and Price Adjustments

Pricing in this Contract excludes all sales and use taxes. Discussion on Taxes is in Section 4.3.

No additional charges. Unless otherwise approved in writing by the Buyer, pricing for all Goods and Services will be no greater than the prices quoted in the proposal or bid submitted to Buyer by Seller. Seller shall not include nor impose any additional charges including, but not limited to, charges for shipping, handling, insurance, or payment processing.

The Buyer will not be bound by invoice prices that are higher than those in the Contract unless the Buyer has accepted the higher price through an amendment to the Contract. The Seller will correct any incorrect invoice pricing.

4.2 Payment Terms

Payment is based on receipt of a proper invoice and goods. Seller shall submit detailed numbered invoices showing contract number, description of work items being invoiced, title of project, total authorized, total current invoice, balance of authorization, hours,

and hourly rate. Seller shall calculate and enter the appropriate state and local sales tax on all invoices. Tax is to be computed on new items after deduction of any trade-in in accordance with WAC 458-20-247.

Invoices shall be submitted not later than the 10th day of each month and will be paid within thirty (30) days of Buyer's receipt of invoice by the end of that current month, unless other terms are agreed to by the parties in writing. Invoices will not be processed for payment nor will the period of computation for cash discount commence until receipt of a properly completed invoice, or when invoiced items are received, whichever is later. Late payments will accrue interest equal to one percent (1%) per month. If an adjustment in payment is necessary due to damage or dispute, the cash discount period shall commence on the date final approval for payment is authorized.

Un-invoiced services performed through December 31st of each year shall be invoiced no later than the 12th day of January of the following year. If the Seller is unable to provide an invoice, they shall advise the Buyer in writing with a summary of the work completed and the accrual amount to be invoiced through December 31st of the current year.

Invoices shall be submitted electronically to cpinvoices@portoftacoma.com. Incomplete or improperly prepared invoices will be returned for correction without processing or payment. Invoices shall be submitted for services completed the previous calendar month and shall be computed pursuant to the rates and limitations set forth in the Contract. For any invoices submitted for payment ninety (90) days or more after the services were completed, Buyer may at its discretion withhold payment absent a demonstration of compelling circumstances justifying the delay. The Buyer does not accept requests for early payment, down payment or partial payment, unless the Bid or Proposal Submittal specifically allows such pre-payment proposals or alternates within the bid process.

4.3 Taxes

Unless otherwise specified, Buyer shall pay applicable Washington State sales or use tax. No charge by Seller shall be made for federal excise taxes and Buyer agrees to provide exemption certificates when required.

4.4 Brands

When a brand is named for a particular product or good, it shall be construed solely for the purpose of indicating the standard of quality, performance, or use described. Brands of equal quality, performance and use shall be considered, provided Seller specifies the brand and model and submits descriptive literature, when available. Any bid containing a brand which is not equal quality, performance, or use specified must be represented as an alternate and not as an equal, and failure to do so shall be sufficient reason to disregard the bid.

5. Performance and Delivery

5.1 Delivery

Time is of the essence. Delays require prior written approval. Seller shall promptly notify Buyer in writing of any anticipated or actual delay in the delivery of Goods or completion of Services, the reason for the delay, and the actions being taken by Seller to overcome or minimize the delay. Any order is subject to termination for failure to deliver as specified. Buyer's acceptance of late performance with or without objection or reservation shall not waive Buyer's right to claim damage for such breach nor constitute a waiver of the requirements for the timely performance of any obligation remaining to be performed by Seller.

The Supplier will have 190 calendar days from the date of contract execution to deliver the skid mounted mobile shore power cable reel assembly to the Port at Husky Terminal, 1101 Port of Tacoma Rd, Tacoma, WA 98421.

5.2 Shipping

Unless otherwise specified, shipments shall be FOB Destination and prepaid. When shipment is specified FOB origin, Seller agrees to prepay all shipping charges, route as instructed and, if instructions are not provided, route by most economical common carrier and to bill Buyer as a separate item on the invoice for said charges.

5.3 Handling and Identification

No handling charges are allowed unless specified. All invoices, packing lists, packages, shipping notices, instruction manuals, and other written documents affecting this order shall contain the purchase order number. Packing lists shall be enclosed in each and every box or package shipped pursuant to this order and shall specify contents therein.

6. Changes and Orders

6.1 Changes

No alteration in any of the terms, conditions, delivery, prices, quality, quantities, or specifications of this Contract will be effective without written order of the Purchasing Manager. Unauthorized substitutions will be made entirely at Seller's risk and, at Buyer's option, may be returned without prior authorization at Seller's expense.

6.2 Blanket Orders

No minimum or maximum quantities apply. Purchases are subject to price list provided by Seller. The Buyer may terminate blanket orders at any time for any reason upon written notice.

6.3 Assignments

This Contract may not be assigned without prior written approval of the Purchasing Manager. Shipment and billings made under any name other than Seller's must indicate that shipment is being made through and is subject to all instructions, terms and conditions of this Contract. Unless otherwise agreed, Seller guarantees prompt

performance of all obligations under this Contract unless Buyer has been notified and approved of the Seller's proposed assignment.

7. Risk, Warranty, and Liability

7.1 Risk of Loss

Seller bears all risk of loss until delivery is complete. Such loss, injury or destruction shall not release Seller from any obligation hereunder.

7.2 Warranties

Goods must conform to specifications and be fit for intended purposes. The Seller may have the opportunity to correct nonconforming goods or services at no additional cost to the Buyer by re-performing the work. Reductions in price may be appropriate to address less than satisfactory performance, as determined by agreement between the parties.

7.3 Indemnification

To the fullest extent permitted by law, Seller shall defend, protect, indemnify, and hold Buyer harmless from and against any claims, fines, damages, cost or liability for any negligence, tortious fault including injuries to persons or property arising from acts or omissions of Seller, its employees, agents, or Sub-Suppliers, or intentional misconduct. The parties agree that if there are any limitations of the Seller's liability, including a limitation of liability clause for anyone for whom the Seller is responsible, such limitations of liability shall not apply to injuries to persons, including death, or to damages to property.

7.4 Intellectual Property

To the fullest extent permitted by law, Seller shall defend, indemnify, and hold Buyer and its employees and agents harmless from and against any and all claims resulting from allegations of infringement of any patents, copyrights, trade secrets, or similar intellectual property rights covering the Goods or Services provided, or the use of the Goods or Services under this Contract. If Buyer's use of Goods or Services provided by Seller is enjoined based on an intellectual property infringement claim, Seller shall, at its own expense, either procure for Buyer the right to continue using the Goods or Services or, after consulting with Buyer and obtaining Buyer's consent, replace or modify the Goods or Services with substantially similar and functionally equivalent non-infringing Goods or Services.

7.5 Liens

All goods must be delivered free of liens or encumbrances. If Buyer receives notice of a lien caused by Seller, Buyer may withhold any payment otherwise due to Seller until Seller submits proof, in a form satisfactory to Buyer, that all lienable claims have been fully paid or waived and any liens removed.

8. Inspection and Default

Buyer shall have one hundred twenty (120) calendar days following delivery or completion to inspect and accept the Goods and/or Services. Buyer may reject any Goods or Services that are defective, incomplete, or otherwise fail to comply with this Contract. Seller shall promptly remove and replace, repair, or re-perform rejected Goods or Services at its sole cost and risk. Buyer's inspection, payment, acceptance, or use shall not relieve Seller of responsibility for latent defects, nonconformities, or warranty obligations.

9. Termination

9.1 Termination for Convenience

The Buyer may terminate this Contract at any time for convenience, in which case it shall provide notice to the Seller and reimburse the Seller solely for its costs and fees incurred prior to the notice of termination.

9.2 Termination for Default

In the event of breach by Seller of any of the provisions of this Contract, the Buyer reserves the right to terminate this Contract upon giving three (3) calendar days' written notice of default to Seller in which Seller shall have opportunity to cure within five (5) calendar days. Time allowed for cure shall not diminish nor eliminate Seller's liability for damages, and Seller shall be liable for damages suffered by Buyer resulting from Seller's breach of contract. A termination for default that is determined to be improper or illegal will be converted into and treated as a termination for convenience.

10. Compliance and Regulation

10.1 Public Records

Unless statutorily exempt from public disclosure, this Contract and all related records are subject to public disclosure as required by Washington's Public Records Act, chapter 42.56 RCW. If the Seller submits documents it claims to be confidential or proprietary, the Seller must clearly identify the records as such. To the extent allowed by chapter 42.56 RCW, the Buyer will assert applicable exemptions where appropriate but cannot guarantee nondisclosure. If no applicable exemption exists, any records will be released.

10.2 Records Retention and Audit

The Buyer is a public entity subject to applicable Washington State records management laws, including chapter 40.14 RCW and various local, state, and federal records retention schedules. The Seller must maintain all records related to this Contract for the minimum period required by law, which for contract documents is a minimum of six (6) years from the contract's expiration or termination. Upon request, the Seller shall provide the Buyer, State Auditor, and authorized representatives with timely and full access for audit, inspection, and copying of records related to this

Contract. Failure to comply with the requirements of this section shall constitute a material breach of this Contract.

10.3 Claims Process

A "Claim" is any demand for additional compensation, time extension, or dispute arising under or related to this Contract.

Notice of Claim: Seller must provide written notice to the Buyer's Purchasing Manager of any Claim within fifteen (15) calendar days of the event giving rise to the Claim.

Failure to provide timely notice constitutes waiver of the Claim.

Supporting Documentation: Within fifteen (15) calendar days of the Claim notice, Seller shall submit detailed supporting documentation including:

- Description of the issue.
 - Contract provisions at issue.
 - Cost and/or schedule impacts.
 - Supporting records.
- Review: The Buyer shall review and issue a written determination. The Seller must continue performance during the dispute.
- Administrative Resolution: Disputes shall first be addressed through good-faith negotiations between the parties.
- Mediation: If unresolved, the parties may agree to non-binding mediation prior to litigation.

Litigation: Venue shall be in the state or federal courts in Pierce County or King County, Washington.

- No Suspension of Work: Seller shall not delay or stop work due to a dispute unless authorized in writing by the Buyer.

10.4 Prevailing Wage

To the extent this Contract includes or is later determined to include "public work" or maintenance as defined under RCW 39.04.010 and Chapter 39.12 RCW, Seller shall comply with all requirements of Chapter 39.12 RCW and Chapter 296-127 WAC.

- Payment of Wages: Seller shall pay and shall ensure that all Sub-Suppliers of any tier pay an amount not less than the applicable "prevailing rate of wage" to all workers, laborers, and mechanics performing work under this Contract, in accordance with Chapter 39.12 RCW.
- Applicability: Prevailing wage requirements apply regardless of contract tier and include, but are not limited to:
 - Public works construction, alteration, repair, or improvement.
 - Maintenance performed by contract.
 - Fabrication or services determined by law to be subject to prevailing wages.
- Wage Rates: Applicable prevailing wage rates are those in effect in the county where the work is performed, as determined by the Washington State Department of Labor and Industries (L&I). The applicable wage rates are incorporated into this Contract by reference as though fully set forth herein.

- Intent and Affidavit: Where required, Seller shall file an Intent to Pay Prevailing Wages prior to beginning work and an Affidavit of Wages Paid upon completion, in accordance with L&I requirements. Failure to comply may result in withholding of payment.
- Responsibility: Seller is solely responsible for determining applicability of prevailing wage requirements and for full compliance, including Sub-Suppliers of any tier.
- Conflicts in Wage Rates: If multiple wage laws apply (e.g., state prevailing wage and federal Davis-Bacon), Seller shall pay the higher applicable wage rate.
- Disputes: Disputes regarding prevailing wage rates shall be resolved in accordance with RCW 39.12.060, and determinations by the Washington State Department of Labor and Industries shall be final and binding.
- Indemnification: Seller shall defend, indemnify, and hold harmless the Buyer from any claims, penalties, or liabilities arising from Seller's or its Sub-Suppliers failure to comply with prevailing wage laws.
- No Waiver: The Buyer's failure to identify applicable prevailing wage requirements shall not relieve the Seller of its obligations under this Section.
- Notification: The Buyer may identify work as subject to prevailing wage; however, such identification does not limit Seller's independent responsibility to comply.

11. Insurance

Seller shall maintain required insurance, including general liability, auto liability, workers compensation, and other coverage as applicable with insurers authorized to do business in the State of Washington and with a minimum AM Best rating of A- VII or better (unless otherwise approved in writing by the Buyer).

- All insurance shall be maintained for the duration of the Contract and any applicable warranty period.
- Minimum Insurance Coverages (all coverages with a parenthetical "if applicable" may be waived in writing by Buyer):
 - Commercial General Liability (CGL): Coverage to include bodily injury, property damage, products/completed operations, personal and advertising injury. Coverage shall be written on an occurrence basis.
 - \$2,000,000 each occurrence.
 - \$4,000,000 general aggregate.
- Additional Insured: The Buyer, its officers, officials, employees, and agents shall be named as Additional Insureds on the Commercial General Liability and Automobile Liability policies for ongoing and completed operations.
- Primary and Non-Contributory: Seller's insurance shall be primary and non-contributory with respect to any insurance maintained by the Buyer.
- Waiver of Subrogation: Seller and its insurers shall waive all rights of subrogation against the Buyer for losses covered by Seller's insurance.
- Evidence of Coverage: Seller shall provide a certificate of insurance and, upon request, copies of applicable endorsements prior to commencing work. Failure to

provide required insurance shall constitute grounds for suspension or termination of the Contract.

- Sub-Suppliers: Seller shall ensure that all Sub-Suppliers maintain insurance coverage meeting these requirements or as approved by the Buyer. Seller remains fully responsible for all Sub-Supplier compliance.
- No Limitation of Liability: Insurance requirements shall not be construed to limit Seller's liability under this Contract.
- Notice of Cancellation: Seller shall provide no less than thirty (30) days prior written notice to the Buyer of any cancellation, non-renewal, or material change in coverage (except ten (10) days for non-payment of premium).
- Special Coverages (as applicable): The Buyer reserves the right to require additional insurance depending on the nature of the work, including but not limited to:
 - Pollution Liability (for environmental or hazardous work).
 - Maritime or USL&H coverage (for waterfront or maritime operations).
 - Builder's Risk (for construction activities).

12. Additional Provisions

- Anti-Trust Assignment: To the fullest extent permitted by law, Seller irrevocably assigns, transfers, and conveys to Buyer all rights, title, and interest in and to any and all claims, causes of action, or rights of recovery for overcharges or damages arising under federal or state antitrust laws relating to goods or services provided under this Contract, including but not limited to claims arising from:
 - Price fixing, bid rigging, or market allocation.
 - Any conspiracy or restraint of trade affecting the pricing of goods or services furnished to Buyer.
 - This assignment includes the right to recover treble damages, penalties, costs, and attorneys' fees where authorized by law.
- Non-Waiver by Acceptance of Variation: No action by the parties, including any failure to enforce any provision of this Contract, shall be interpreted to constitute a waiver of that party's rights unless such waiver is explicit and in writing signed by the waiving party.
- Sustainability: Seller shall undertake all reasonable steps to support environmental compliance efforts by Buyer.
- Standard of Care: Seller shall perform its work to conform to generally accepted professional standards. Seller shall, without additional compensation, correct or revise any errors or omissions in such work.
- Seller shall obtain all professional licenses and permits required to complete the scope of work as defined.

12.1 Cooperative Purchasing

This Contract may be extended, at the sole discretion of the Buyer, for use by other public agencies in Washington State and, where permitted by law, agencies in other states (collectively "Participating Agencies"), in accordance with chapter 39.34 RCW

(Interlocal Cooperation Act) and applicable cooperative purchasing laws. The Buyer reserves the right to limit or exclude cooperative purchasing on a case-by-case basis.

- **Voluntary Participation:** Use of this Contract by any Participating Agency is strictly voluntary. The Buyer assumes no liability or responsibility for any purchases made by other agencies.
- **Independent Contractual Relationship:** Each Participating Agency shall contract directly with the Seller and shall be solely responsible for its own ordering, payment, and contract administration. The Buyer shall not be considered a party to, nor liable for, any such agreements.
- **Pricing and Terms:** Seller agrees to provide the same pricing, terms, and conditions offered to the Buyer to Participating Agencies, unless otherwise agreed in writing.
- **Compliance with Laws:** Participating Agencies are responsible for ensuring their own compliance with applicable procurement laws, including but not limited to Title 39 RCW and Chapter 39.26 RCW, where applicable.
- **No Guaranteed Volume:** The Buyer makes no guarantee of purchases by Participating Agencies and assumes no obligation for quantities beyond its own requirements.
- **Interlocal Agreements:** Where required, use of this Contract by another public agency shall be contingent upon the existence of a valid interlocal agreement or other cooperative purchasing authorization.
- **Seller Responsibility:** Seller shall honor purchase orders issued by Participating Agencies under the same terms unless the Seller elects to decline participation with specific agencies upon written notice to the Buyer.

13. Information Security

Seller shall comply with all applicable Federal and Washington State cybersecurity, privacy, and data protection laws and requirements, including 33 CFR Part 101 Subpart F, Chapter 43.105 RCW, Chapter 19.255 RCW, and RCW 42.56.590, and applicable Washington Technology Solutions (WaTech) cybersecurity policies, standards, and requirements (including SEC-series policies), or demonstrably equivalent controls meeting or exceeding such standards. Seller shall implement and maintain reasonable administrative, technical, and physical safeguards to protect Buyer data, consistent with industry standards (e.g., NIST, CIS). If seller stores or processes personal or confidential data, seller must encrypt data in transit and at rest and restrict access using least privilege principles. At a minimum and commensurate with the sensitivity of Buyer Data, seller shall:

- Maintain a written information security program aligned with NIST 800-53, NIST CSF, or equivalent framework.
- Perform periodic risk assessments and vulnerability management.
- Maintain endpoint protection, patching, and logging/monitoring controls.
- Require multi-factor authentication (MFA) for systems accessing Buyer data.
- Ensure Sub-Suppliers comply with equivalent cybersecurity standards.

- Incident Response:
 - Notify the Buyer in the most expedient time possible, without unreasonable delay upon discovery of a confirmed or suspected security incident.
 - Seller shall provide sufficient information and cooperation to enable Buyer to meet its legal obligations under RCW 19.255 and other applicable laws, including the 30-day notification requirement where applicable.
 - Seller shall provide written incident report upon completion of security incident assessment.
- Data Location & Ownership:
 - All Buyer data, including all data provided, accessed, processed, or generated under the Contract, including derivatives, remains property of the Buyer.
 - Seller shall not sell or share Buyer data without prior written approval.
 - Data shall not be stored outside the United States without prior written approval and is subject to equivalent protections.
 - Seller shall securely return or destroy data upon contract completion.
- Cybersecurity Risk Management:
 - The Buyer reserves the right to perform reasonable cybersecurity due diligence prior to contract award and throughout the term of the Agreement, proportionate to the services provided and associated cybersecurity risk. If Seller fails to meet applicable cybersecurity requirements, fails a cybersecurity assessment, or if Buyer identifies material cybersecurity risks that could reasonably impact its information, systems, or operations and such risks are not remediated within a reasonable timeframe specified by Buyer, such failure shall constitute a material breach. Buyer reserves the right to require corrective action, suspend affected services, or terminate the Agreement, in whole or in part, for cause.
 - Upon reasonable request, Seller shall provide documentation and information sufficient to support Buyer's cybersecurity risk assessments, audits, and compliance obligations.

SKID-MOUNTED MOBILE SHORE POWER CABLE REEL ASSEMBLY**PART 1 - GENERAL****1.1 SUMMARY**

- A. Section includes electrical design, fabrication, factory assembly, delivery, testing, commissioning, training, and documentation for mobile skid-mounted medium-voltage shore power cable reel assemblies used to safely extend existing shore power service from existing Port-owned outlet vaults to alternate vessel connection locations.
- B. The project consists of providing one skid-mounted shore power cable reel system that can connect to six existing bullrail shore power vaults at Husky Terminal to increase operational flexibility of berthing orientations and electrical connectivity frequency to connect container vessels for this two berth facility. The purpose of the assembly is to extend the existing 6.6 kV shore power connection without modification to the existing fixed shore power infrastructure on the dock. Equipment shall be electrically and operationally compatible with the existing Port shore power system. The reel assembly shall securely hold and transport the cable, ensuring stability and ease of movement to minimize impact to operations on the existing wharf. See Appendix A for figure showing approximate locations of existing bullrail receptacles along the length of the wharf.
- C. Provide one cable reel assembly as a complete, coordinated electrical system, including the following:
 - 1. Reeling cable assembly including two medium-voltage cables with plugs.
 - 2. Supplier/Manufacturer-engineered support platform/skid including:
 - a. Structural frame and support members
 - b. Forklift handling provisions
 - c. Prefabricated, pre-assembled and modular self-contained power distribution skid unit that integrates multiple electrical components into a single, portable unit designed to extend existing shore power to vessels. The support platform shall be integrated into the Supplier's equipment package and support all required ancillary components within the footprint.
 - d. Custom-designed skid geometry to allow the platform to be placed in limited space between the container cranes and face of bullrail (see Appendix A).
 - e. Stability and overturning restraint features (if necessary)
 - f. Semi-automatic Twistlock or other means to allow the cable reel to be utilized in either direction and on either side of the existing bullrail vaults.

SKID-MOUNTED MOBILE SHORE POWER CABLE REEL ASSEMBLY

3. Motor-operated cable reel system and associated electrical drive, brake, and controls.
4. Reel storage, cable routing, and electrical transfer arrangement, including rotating collector or collectorless design as applicable to the Supplier's proposed assembly.
5. Shore-side male plug assemblies and vessel-side female coupler assemblies (located within enclosure for connection to vessel cables), color-coded red and blue.
6. Pilot, permissive, interlock, and communications circuits carried through the complete assembly, including compatibility to extend the existing kirk key shore power interlock sequence through the mobile assembly.
7. Onboard generator to provide auxiliary power distribution for reel drive, controls, brakes, heaters, and other accessories.
8. Grounding and bonding provisions.
9. Electrical enclosures, local control station, emergency stop devices, status indication, wiring, terminations, labels/identification markings, and accessories.
10. Heavy-duty plastic channels (or other means previously utilized on a Port terminal wharf) to protect the cables against the bullrail when the maximum length of each cable is deployed (200 feet each). See Section 2.07.E for requirements.
11. Factory acceptance testing, field acceptance testing, startup, commissioning, demonstration, training, and operation and maintenance documentation.
12. The assembly shall be delivered and commissioned by the Supplier to the project site complete and in perfect functional condition.

D. Reference documents:

1. Appendix A includes drawings to show the anticipated coverage improvements for vessel connection that the cable reel will provide, as well as exhibits to illustrate the platform/skid footprint limitation requirements due to the existing bullrail geometric constraints and a schematic figure to supplement the performance requirements narrative found in Paragraph 1.05 of this section.
2. Appendix B provides geometric drawings of an existing gangway landing platform that is regularly used at the terminal and illustrates a platform design that fits within the same geometric constraints. This is provided for reference only to help the cable reel Supplier to consider potential platform/skid geometry. See Section 1.4 below which highlights that the Supplier is responsible to confirm final geometry.

SKID-MOUNTED MOBILE SHORE POWER CABLE REEL ASSEMBLY

1.2 GOVERNING CODES, STANDARDS, AND REFERENCES

A. Comply with the latest adopted editions of applicable codes and standards in effect on the date of Contract, including the following:

1. Electrical

- a. ANSI/IEEE C2, National Electrical Safety Code.
- b. NFPA 70, National Electrical Code.
- c. IEC/IEEE 80005-1, Utility Connections in Port, Part 1: High Voltage Shore Connection Systems, General Requirements.
- d. Applicable UL standards and requirements of an OSHA-recognized Nationally Recognized Testing Laboratory.
- e. Applicable state and local electrical codes and Port standards.
- f. IEC 62613-1 and IEC 62613-2, Plugs, socket-outlets and ship couplers for high-voltage shore connection systems.
- g. NFPA 70E, Standard for Electrical Safety in the Workplace.
- h. IEEE 45.1, Recommended Practice for Electrical Installations on Shipboard, Design.
- i. IEC 60228 for conductors and IEC 60332-1 for flame propagation.
- j. UL 1309 and IEEE 1580 where a UL-listed or UL field-evaluated cable construction is offered in lieu of an IEC construction.
- k. ISO 12100 and ANSI B11.0 for machinery risk assessment and guarding of the reel drive and rotating equipment.
- l. NETA: National Electrical Testing Association
- m. Supplier shall include in the bid all costs to have a Department of Labor & Industries certified firm evaluate the installation safety, and compliance with code as required per WAC 296-40-100 for any equipment specified or furnished that is not UL listed.

2. Structural

- a. ASTM A572 Grade 50, ASTM A992, or ASTM A36 for structural steel
- b. International Building Code (IBC), 2021 Edition, as amended by the City of Tacoma
- c. ASCE 7-16, Minimum Design Loads and Associated Criteria for Buildings and Other Structures
- d. AISC 360-16, Specification for Structural Steel Buildings
- e. AWS D1.1 2015, Structural Welding Code – Steel

SKID-MOUNTED MOBILE SHORE POWER CABLE REEL ASSEMBLY

- f. ASTM A123 for hot-dip galvanizing

1.3 DEFINITIONS

- A. Active Reeling Length: Usable cable length available for deployment from the reel, excluding dead wraps, internal routing, terminal allowances, and safety allowances.
- B. Existing Shore Power System: Port-owned 6.6 kV shore power outlet vaults, receptacles, pilot and communications provisions, switchgear, and key interlock system serving the Husky Terminal.
- C. Mobile Shore Power Cable Reel Assembly: The complete mobile equipment package specified in this Section, including cables, reel, connectors, (receptacles and plugs), mounting platform/skid, controls, interlocks, and auxiliary systems.
- D. SPO: Shore power outlet assembly located in an existing vault along the bullrail.

1.4 PERFORMANCE-BASED DESIGN RESPONSIBILITY

- A. Supplier/Manufacturer is responsible for design and coordination of the complete assembly to satisfy the requirements of the Contract Documents and the existing shore power system.
- B. Select conductor sizes, reel dimensions, collector ratings, drive capacity, torque, braking, cable guides, control architecture, and component arrangement to provide the specified performance without exceeding cable pulling tension or minimum bend radius.
- C. Delegated Design Requirements & Responsibility:
 - 1. The cable reel Supplier shall retain the services of a Professional Engineer to design the support platform/skid.
 - 2. Structural calculations and fabrication drawings shall be prepared and stamped by a Professional Engineer licensed in the State of Washington. See stability and calculation requirements in Section 2.4 of this Specification.
 - 3. The design professional shall verify field dimensions and compatibility for operation and deployment within the existing bullrail geometry constraints described herein.
- D. Where the proposed system or any individual component differs from the requirements of this Section, demonstrate equal or superior operation, safety, maintainability, and compatibility.

1.5 SYSTEM PERFORMANCE REQUIREMENTS

- A. Electrical characteristics. The assembly shall be suitable for continuous operation on the existing 6.6 kV, three-phase, 60 Hz shore power system.

SKID-MOUNTED MOBILE SHORE POWER CABLE REEL ASSEMBLY

1. Nominal system voltage: 6.6 kV.
 2. See Section 2 of this Specification for cable and receptacle requirements.
 3. Minimum short-circuit withstand in the medium-voltage current path: not less than the available fault current furnished by the Port at the shore power outlet, and in no case less than 16 kA for 1 second, which is typical for shore power outlets.
- B. Reeled-in ampacity governs. Size the cable and every component in the medium-voltage current path to carry not less than 350 A continuously per cable path with the maximum quantity of cable remaining on the reel, without exceeding conductor or insulation temperature limits. Ampacity in the fully deployed condition shall not be used as the basis of rating.
- C. Active reeling length
1. Active reeling length: not less than 200 feet for each cable assembly, as defined in Section 1.3.A and 2.5.B.
- D. Platform/Skid Requirements
1. The support platform shall safely support the cable reel and associated cable loads throughout all operating, service, storage, transport, and maintenance conditions.
 - a. The platform shall accommodate the cable reel Supplier's required operating clearances.
 2. The cable reel shall be installed on top of a forklift enabled skid/frame with forklift slots on all four sides to allow moving both along the length of the wharf and perpendicular to set/remove from bullrail. This frame shall be designed to allow the operator to lift the skid with a forklift for moving its location both back and forward. The platform shall be capable of repeated relocation within an active marine terminal environment.
 3. The support platform shall remain stable without permanent anchorage to the wharf, while not interfering with normal terminal/vessel operations when placed in its designated operating position.
 - a. The support platform shall fit within the geometric envelope indicated in the Exhibits in Appendix A. See Appendix A for geometry constraints due to limited space between the bullrail and the container cranes, including drawings defining the maximum 6'-8" platform width. The Professional Engineer described in Section 1.4.C shall perform a field visit to confirm that the final platform design fits around the bullrail in the field and meets the requirements described herein.

SKID-MOUNTED MOBILE SHORE POWER CABLE REEL ASSEMBLY

- b. Appendix B also includes reference shop drawings of an existing gangway landing platform used at the terminal to provide an example of a platform design that fits within the same geometric constraints. These shop drawings are provided for geometric reference only to illustrate the maximum width and potential geometry to rest on the bullrail. This new cable reel platform/skid shall include similar stop legs at the bullrail to fix the platform in place and prevent the platform from being pushed further waterside beyond its intended position.
 - c. The Supplier shall verify all clearances including one site visit prior to fabrication.
- 4. The support platform shall permit safe deployment and retrieval of cable in either operating direction as described in Section E below.
- 5. Removable handrail posts and chain handrails shall be provided for both long sides of the skid/platform.
- E. Bidirectional deployment. The cable reel assembly shall deploy to either side of a bullrail vault to provide maximum range to plug in vessels on either side of the existing outlet. See schematic Exhibit 6 in Appendix A to supplement the performance requirement narrative herein.
 - 1. The Supplier shall provide a special custom base that can rest across the top of the bullrail with a separate support to the asphalt behind the bullrail. The existing bullrail geometry likely does not allow for symmetrical platform along the width of the assembly, so it is anticipated that the Supplier will provide a similar separate base to allow the main reel assembly to be reoriented and connected to the platform with semi-automatic twistlocks to change the direction of the reel. Similar mobile reel systems have been provided with a separate ballast platform section that can connect or disconnect from the equipment base using semi-automatic Twistlocks.
 - 2. Separate secondary base is not requirement if the cable reel can pay-out in both directions and sit on the bullrail as shown in Appendix A.
- F. The cable reel shall be able to be controlled from either side of the skid without needing to be accessed from the waterside of the platform (regardless of which direction the reel is oriented). Control of the cable reel can be by control knobs/switches or hydraulic control levers. Redundant controls could be provided on each side of skid/platform, or by single remote pendant.
- G. Minimum bend radius. No component of the assembly or operating procedure shall subject the cable to a radius smaller than the requirements provided in Section 2.5.J.

SKID-MOUNTED MOBILE SHORE POWER CABLE REEL ASSEMBLY

- H. Service conditions. Exposed marine environment with salt spray, wind-driven rain, and ambient temperatures from 10 to 104 degrees F at an elevation near sea level.

1.6 SUBMITTALS

- A. Product Data: Manufacturer's technical literature for the complete assembly and each major electrical component, including ratings, dimensions, weights, environmental ratings, materials, paints/finishes, and installation requirements.
- B. Shop Drawings:
 - 1. Plan, elevation, and isometric views showing base geometry, as well as the location of electrical enclosures, reels, cable guides, connectors, controls, auxiliary-power inlet, grounding points, access spaces, and field connections.
 - a. Provide weights of full reel assembly including separate base/platform.
 - 2. Three-line power diagram from existing SPO connectors through both reel cable paths to vessel-side couplers.
 - 3. Elementary and interconnection diagrams for power, pilot, permissive, emergency-stop, interlock, communications, heater, brake, and control circuits.
 - 4. Terminal diagrams, connector pin assignments, cable schedules, wire numbers, and identification schedule.
 - 5. Key interlock diagram and written key sequence demonstrating compatibility with the existing Port system. Include as part of Operating Procedure below.
 - 6. Control-panel layout and bill of materials.
 - 7. Nameplate and warning-label schedule.
- C. Structural Design and Stability Calculations
 - 1. See Sections 1.4.C and 2.4 for requirements. Include Weight and Center of Gravity Calculations in stability calculations.
- D. Electrical Design Data and Calculations:
 - 1. Cable ampacity and derating calculations for the proposed cable and ambient conditions, for both the fully deployed and the fully reeled-in conditions.
 - 2. Voltage-drop calculation at 6.6 kV and 350 A for the complete extension assembly.
 - 3. Cable minimum bend radius, allowable pulling tension, reel torque, drive sizing, and braking calculations.

SKID-MOUNTED MOBILE SHORE POWER CABLE REEL ASSEMBLY

4. Collector or slip-ring continuous-current, temperature-rise, short-time withstand, insulation, and grounding-path ratings, where used.
 5. Auxiliary load calculation identifying connected load, demand load, required 480 V feeder rating, and overcurrent protection.
 6. Short-circuit withstand ratings for components in the medium-voltage current path and control-panel short-circuit current rating. See Section 1.5.A.3.
 7. Cable data sheet from the cable manufacturer stating construction, rated and maximum voltage, ampacity in the deployed and reeled-in conditions, outside diameter, weight, maximum allowable tensile load, and published minimum bend radius for reeling, for guided bends, and for reverse bends.
- E. Compatibility Submittal: Written certification that proposed connectors, pilot circuits, communications interfaces, and key interlocks are fully compatible and intermateable with the existing Port shore power system. Include dimensional interface data, pin assignments, keying details, electrical ratings, and proposed field-verification procedure. The existing terminal shore power system is compliant with IEEE standards, but site electrical drawings can be provided to the successful bidder for coordination.
- F. Operating Procedure: Submit a step-by-step connection and disconnection procedure including the key interlock sequence, equipment positioning and movements, lift and handling procedures, cable grip attachment points, and drum stop positions.
- G. Procurement and Delivery Schedule that shall include at least the following information: start and end dates for production and assembly, key component lead times, delivery, installation and commissioning.
- H. Test Procedures: Submit factory and field acceptance test procedures not less than 30 days before testing. Identify test equipment, acceptance criteria, recorded data, and witness points.
- I. Inspection and Test Certificates/Reports: Submit certified factory and field test reports documenting each test required by this Section.
- J. Product Training Plan/Schedule
- K. Product Warranty Documentation
- L. Operation and Maintenance Data: Submit manuals specified in Part 3 of this Section.
- M. Heavy-duty Cable Protection Channels (see Section 2.7.D below). Provide an example of product previously utilized to protect medium voltage cables on a Port terminal wharf.
- N. Qualifications.

SKID-MOUNTED MOBILE SHORE POWER CABLE REEL ASSEMBLY

1. See Supplier/Manufacturer Qualifications in Section 1.7 below.
2. Supplier shall have similar medium-voltage cable reel assemblies that are complete/operational and actively in use at two separate United States marine terminals, including 200 feet of usable length coverage.

1.7 QUALITY ASSURANCE

- A. Manufacturer Qualifications: Firm regularly engaged in design and manufacture of medium-voltage cable reeling or shore power cable management systems of comparable voltage, current, cable size, duty, and marine exposure, with not less than five years of documented successful in-service experience.
- B. Electrical components shall be listed or labeled by a Nationally Recognized Testing Laboratory where products of the required type are available. Where a listed complete assembly is not available, provide third-party field evaluation and labeling of the completed assembly by an accepted testing laboratory.
- C. Provide a single Supplier/Manufacturer with responsibility for integration, operation, and warranty of the complete mobile shore power cable reel assembly, including vendor-supplied components.
 1. The Supplier shall prepare a technical report indicating that all the components comply with the minimum specification values and requirements.
- D. Perform interface verification on site at the Husky Terminal before release for manufacture, as well as verifying platform/skid fits within existing geometric constraints without disrupting vessel berthing or container crane loading/unloading operations. Verify existing connector envelope, color and mechanical keying, pin configuration, key sequence, auxiliary-power characteristics, and communications interfaces without disturbing energized equipment.

1.8 DELIVERY, STORAGE, AND HANDLING

- A. Protect entire assembly including paint finishes, cables, connectors, collectors, enclosures, and controls from moisture, condensation, contamination, corrosion, impact, and ultraviolet exposure during shipment and storage.
- B. Ship connectors with protective caps installed. Secure cables and rotating components to prevent movement and damage during shipment.
- C. Provide temporary enclosure heating or other manufacturer-recommended condensation prevention when equipment is stored outdoors or in unconditioned spaces.

SKID-MOUNTED MOBILE SHORE POWER CABLE REEL ASSEMBLY

- D. Handle equipment only by designated lifting or mobility provisions furnished under the coordinated skid design. Do not lift by cables, reels, enclosures, or electrical components.

1.9 WARRANTY

- A. Provide Supplier/Manufacturer's standard warranty, but not less than Five (5) years from commence on the earlier of: (a) the date the equipment is placed into service by NWSA; or (b) thirty (30) days after final payment, covering the complete integrated electrical assembly, structural elements, cables, connectors, controls, interlocks, reel drive, collectors, and workmanship.

PART 2 - PRODUCTS

2.1 MANUFACTURERS

- A. Acceptable Supplier/Manufacturers: Subject to compliance with requirements, provide products by one of the following:
 - 1. Vahle Shore Power Skid (SPS)
 - 2. Cavotec Skid-Mounted PowerExtend
 - 3. Or approved equal (see Section 1.6.N above)

2.2 GENERAL ASSEMBLY REQUIREMENTS

- A. Provide components as a completely coordinated, factory-assembled package, wired and tested before shipment to the greatest extent practicable.
- B. The platform and component layout shall permit visual inspection and routine maintenance of all elements of the functional reel assembly, as well as adequate access for replacement of wear components.
- C. Provide wiring and components accessible for inspection, testing, adjustment, and replacement. Arrange components to permit maintenance without removal of unrelated equipment.
- D. All energized parts shall be guarded against accidental contact. Provide barriers and covers requiring tools for removal where access to energized parts is possible.
- E. Select metallic hardware and electrical components for marine corrosion resistance. Isolate dissimilar metals where galvanic corrosion could occur.
- F. Provide anti-condensation heaters in electrical enclosures where required to prevent condensation. Heaters shall be thermostatically or humidistatically controlled and guarded against accidental contact.

SKID-MOUNTED MOBILE SHORE POWER CABLE REEL ASSEMBLY

2.3 STRUCTURAL MATERIALS & SKID REQUIREMENTS

A. Support Platform Frame

1. Structural steel members shall conform to ASTM A572 Grade 50, ASTM A992, or ASTM A36 unless otherwise approved.
2. Aluminum components may be utilized when demonstrated to meet all structural and durability requirements.
3. Handling & Lifting: The support platform shall be relocatable using standard terminal forklifts.
 - a. Provide standard forklift pockets on all four sides of platform/skid to allow moving both along the length of the wharf and perpendicular to set/remove from bullrail.
 - b. Forklift pockets shall be designed for the maximum anticipated lifting loads based on the weight of the cable reel and platform.
 - c. Fork engagement locations shall be clearly marked.
 - d. The platform shall be capable of transport or lifting the full cable reel assembly.
 - e. Supplier shall identify required forklift capacity and assembly weight and post it on the assembly. See identification requirements.
 - f. Other handling and lifting requirements:
 - Lifting provisions shall be incorporated into the design.
 - Lifting points shall be engineered for transport and maintenance operations.
 - All lifting points shall be permanently marked with rated capacities.
 - Lift points shall not interfere with reel operation.

B. Fasteners

1. Exposed fasteners, nuts, washers, pins, and hardware shall be Type 316 stainless steel.
2. Dissimilar metals shall be electrically isolated.

C. Corrosion Protection

1. All exposed components shall be suitable for continuous exposure to a marine atmosphere.
2. Materials and details shall minimize galvanic corrosion in marine environments.

SKID-MOUNTED MOBILE SHORE POWER CABLE REEL ASSEMBLY

3. Paint: All steel surfaces shall be coated with a corrosion-resistant marine-grade protective paint suitable for severe marine exposure conditions or galvanized. The final color shall be defined in coordination with the Port.

2.4 STABILITY REQUIREMENTS

- A. The support platform shall be inherently stable under all design conditions, including:
 1. Empty reel condition.
 2. Fully loaded reel condition.
 3. Partial cable payout conditions.
 4. Cable deployment in either direction.
 5. Handling and transportation conditions.
 6. Wind exposure during operation and storage.
- B. The platform shall resist sliding, tipping, uplift, and overturning with a minimum factor of safety of 2.0 for each mode.
- C. The Supplier shall demonstrate stability through engineering calculations as described in Section 1.6.C.
- D. Ballast may be utilized if required by the Supplier/Manufacturer, but ballast systems shall be permanently secured and protected from accidental removal.

2.5 MEDIUM-VOLTAGE REELING CABLES

- A. Provide two complete medium-voltage flexible reeling cable assemblies, one identified red and one identified blue.
- B. Provide not less than 200 feet of active reeling length for each cable. Add cable for dead wraps, internal routing, terminations, connector pigtails, strain relief, and safety allowance without reducing active length.
- C. The cable reel shall be divided into two sections:
 1. External section: accommodates the male connectors and long section of cable (see active reeling length in Section B above) with male connectors that plugs into the existing bullrail vault receptacle (power supply).
 2. Internal section: accommodates the female connectors that the cables from the vessel are plugged into.
- D. Cable shall be specifically designed and manufactured for repeated reeling, unreeling, torsion, bending, and movement in outdoor marine shore power service.
- E. Cable electrical requirements:
 1. Operating voltage: 6.6 kV.

SKID-MOUNTED MOBILE SHORE POWER CABLE REEL ASSEMBLY

2. Voltage designation: 6/10 kV minimum, with maximum system voltage suitable for 7.2 kV-class shore power equipment.
 3. Phase conductors: Three copper conductors sized by the Supplier for not less than 350 A continuous duty with the maximum quantity of cable remaining on the reel. Refer to Section 1.5 B.
 4. Grounding conductors: Copper grounding conductor or conductors sized for the system duty and connector configuration and arranged to maintain continuous protective-earth continuity.
 5. Pilot conductors: Minimum three, sized and insulated for the existing pilot and permissive circuits.
 6. Communications: Provide shielded communications conductors required to reproduce all existing shore power communications and permissive functions through the extension assembly. Quantity, type, optical characteristics, shielding, and connectorization shall match the existing system, with spare capacity not less than that present in the existing fixed connection.
 7. Overall shield and individual conductor shielding as required for the voltage class and cable design.
- F. Cable jacket shall be oil resistant, sunlight resistant, moisture resistant, abrasion resistant, flame resistant, and resistant to salt water and common marine-terminal contaminants.
- G. Cable construction shall comply with IEC/IEEE 80005-1 and the cable manufacturer's standards for high-voltage shore connection reeling service.
- H. Provide permanent, flexible cable identification at each end identifying red or blue circuit, voltage, current rating, and equipment identification. Identification shall remain legible throughout the cable service life.
- I. Provide manufacturer-approved cable grips and strain-relief devices adjacent to connectors. Cable grips shall transfer pulling forces to designated support points and shall prevent connector housings and terminations from carrying cable tension.
- J. Minimum bend radius. No component of the assembly, and no step of the submitted operating procedure, shall subject the cable to a radius smaller than the following, measured to the cable centerline, where OD is the maximum cable outside diameter:
1. Reeling on the drum, including the innermost drum section measured at the innermost cable layer: 12 times OD.
 2. Over any roller, sheave, fairlead, guide, or support: 15 times OD.
 3. Any reverse bend, including a 180-degree turnaround on the apron: 20 times OD.

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4. State the cable manufacturer's published minimum bend radius for reeling, for guided bends, and for reverse bends. Where a published value is more restrictive than the value above, the published value governs.

2.6 REEL STORAGE, CABLE ROUTING, AND ELECTRICAL TRANSFER ARRANGEMENT

- A. Provide reel storage and cable routing arrangements suitable for the proposed Supplier's design and capable of accommodating both cable assemblies at the active reeling length required by Section 2.5.F.
- B. The assembly may use rotating collectors, slip rings, or a collectorless cable management arrangement, provided the completed assembly maintains electrical continuity, protects the cables and connectors, preserves the required connection sequence, and satisfies all active-length, safety, compatibility, and operational requirements.
- C. Reel diameter, compartment width, cable routing, connector storage, and internal transition points shall maintain the cable manufacturer's minimum dynamic and static bend radii at all times, and in no case shall any drum section produce a radius at the innermost cable layer smaller than 12 times the cable outside diameter. Refer to Section 2.5.I.
- D. Prevent cable crossover, crushing, pinching, overrun, twisting beyond cable manufacturer limits, and contact with sharp edges. Provide electrical or mechanical limits as required to prevent overtravel.
- E. Where the proposed design includes rotating collectors or slip rings, comply with the following:
 1. Provide separate insulated current paths for each phase of each cable assembly. Do not parallel the red and blue cable paths within the collector.
 2. Provide a dedicated protective-earth current path through the rotating assembly. Bond the protective-earth path to the reel and skid structure.
 3. Provide dedicated circuits for pilot conductors and communications. Power collectors shall not interfere with pilot or communication performance.
 4. Provide insulation system, clearances, creepage distances, barriers, and enclosure suitable for 7.2 kV-class service.
 5. Provide inspection access and replaceable wear components.
- F. Collectorless designs are acceptable where electrical continuity, cable protection, connection sequence, and active cable length requirements are maintained without disconnection of internal terminations during normal deployment and retrieval.

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2.7 CABLE GUIDES, FAIRLEADS, PROTECTION AND BEND SUPPORT

- A. Provide cable guides at every point where the cable changes direction between the reel and the footprint of the skid/platform. Guides shall be free-turning rollers or lined with ultra-high-molecular-weight polyethylene, shall develop a radius not less than 15 times the cable outside diameter, and shall have flared sides that retain the cable without pinching it.
- B. The guide at the point of cable exit from the assembly shall index not less than 180 degrees about a vertical axis and shall lock positively in each operating position, so that cable can be paid out to either side of the assembly without reversing the direction of curvature.
- C. Furnish cable support grips at each cable end and at each side of any reverse bend, together with the fixed attachment points required to take the reeling pull. No tension shall be carried through a bend or into a connector. Coordinate with Section 2.5.H.
- D. Provide heavy-duty plastic channels (or other approved means) to protect the cables when the full length of cable is deployed.
 - 1. Protective channels shall be Shore-Guard or Xtremeguard by Elasco, or other approved equal previously utilized to protect medium voltage cables on a Port terminal wharf.
 - 2. The two cables can be protected either together under one channel or each cable separately.
 - 3. Channels shall be heavy enough to stay in place during high wind, but light enough to be easily moved and placed by a single worker.

2.8 CONNECTOR ASSEMBLIES

- A. Provide two shore-side male plug assemblies and two vessel-side female coupler assemblies forming two complete extension paths.
- B. Connector requirements:
 - 1. Push-pull type suitable for medium-voltage shore power service.
 - 2. Maximum voltage rating: Not less than 7.2 kV ac.
 - 3. Continuous current rating: Not less than 350 A for each connector.
 - 4. Configuration: Three-phase plus equipment ground plus three pilot contacts.
 - 5. One complete path color-coded red and one complete path color-coded blue.
 - 6. Red and blue connectors mechanically keyed differently so each can mate only with the corresponding existing receptacle or vessel connector.

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7. Fully compatible and intermateable with existing Port shore power connectors without adapters.
 8. Minimum environmental protection when connected and when protective caps are installed: IP66 or equivalent protection suitable for the location.
 9. Silver-plated or equal corrosion-resistant, low-resistance power and grounding contacts designed for the specified duty.
 10. Compression-type detachable terminals for phase and grounding conductors.
 11. Contacts, insulators, seals, hardware, and connector shells replaceable using manufacturer-recommended service procedures.
- C. Provide automatic or captive protective covers and caps for plugs and couplers. Caps shall exclude water, salt, and debris and shall remain attached to the assembly when not in use.
- D. Provide features to support and retain connectors during transport and storage without loading the cable terminations.
- E. Provide warning labeling stating: DO NOT ENGAGE OR DISENGAGE CONNECTORS WHILE ENERGIZED.

2.9 CONNECTOR PROTECTION ENCLOSURE

- A. Provide an electrical protection enclosure for the female coupled assemblies that accept the male vessel-side connector pairs during operation.
- B. Enclosure shall protect connected couplers from precipitation, washdown, salt spray, physical impact, and unauthorized access while maintaining required cable bend radii and strain relief.
- C. Provide means to secure the enclosure closed. Opening the enclosure shall not defeat the trapped-key or pilot safety sequence.
- D. Bond enclosure to the equipment grounding system. Provide drain and ventilation features arranged to prevent water accumulation without reducing the required environmental protection.

2.10 KEY AND ELECTRICAL INTERLOCKS

- A. Provide key interlock necessary to extend the existing Port key sequence through the mobile assembly to match the functional sequence of the existing system. Coordinate key codes and quantities with the Port before fabrication.
- B. Provide pilot-circuit interlocking through the complete assembly. Opening an emergency stop or safety interlock shall open the shore power pilot or permissive circuit and initiate opening or inhibit closing of the shore supply circuit through the existing system interface.

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- C. Do not alter the existing Port key sequence or key codes without written authorization.

2.11 COMMUNICATIONS AND PILOT CIRCUITS

- A. Extend all existing pilot, permissive, emergency shutdown, monitoring, and communications circuits through both cable assemblies and rotating interfaces.
- B. Maintain circuit isolation, shielding, grounding, polarity, fiber type, optical performance, and pin assignments required by the existing Port system.
- C. Provide accessible termination or junction provisions for testing and replacement. Identify all conductors, fibers, connectors, and terminals at both ends and at intermediate junction points.
- D. Fiber-optic connections shall be protected from contamination and mechanical damage. Provide dust caps and manufacturer-approved cleaning provisions.
- E. Demonstrate that reel drive operation and medium-voltage current do not cause unacceptable interference or loss of pilot or communications functionality.

2.12 REEL DRIVE, BRAKE, AND CONTROL SYSTEM

- A. Provide powered reel-in and reel-out operation sized for the two cable assemblies under all specified operating conditions.
- B. Provide adjustable speed and torque control using a variable-frequency drive or equivalent controlled-drive system. Tune the drive to deploy and retrieve cable without exceeding allowable pulling tension.
- C. Provide a fail-safe brake that applies upon loss of control power, emergency-stop operation, or drive fault. Provide a controlled manual release or recovery method for emergency retrieval.
- D. Provide local controls including, at minimum:
 - 1. Lockable main auxiliary-power disconnect.
 - 2. Reel IN, OFF, and OUT functions using maintained or momentary controls coordinated with the Supplier's safe operating sequence.
 - 3. Emergency stop, red mushroom-head, maintained-contact, twist- or pull-to-release.
 - 4. Power available indication.
 - 5. Drive fault indication and fault reset.
 - 6. Brake status or brake-release indication.
 - 7. Cable fully retrieved and travel-limit indication where used by the proposed design.

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- E. Control system shall inhibit reel movement when the medium-voltage connection is energized. Control system shall also inhibit unsafe movement when cable or connector status is inconsistent with the Supplier's operating sequence.
- F. Provide fixed local controls for emergency operation. A radio remote control may be furnished as an additional operating interface, but shall not be the only means of control. See also Section 1.5.F for access requirements for reel controls.
- G. Control circuits shall be designed so restart does not occur automatically following restoration of power or reset of an emergency stop.

2.13 AUXILIARY GENERATOR POWER SYSTEM

- A. Provide an integral engine-driven gasoline generator as the source of 480V auxiliary power for the reel drive, brake, controls, heaters, battery charger, and electrical accessories. Size the generator for the full connected auxiliary load with the assembly operating at rated reeling speed.
 - 1. Fuel tank sized for not less than 8 hours of operation at full auxiliary load, with fill point and level indication accessible from grade.
 - 2. Sound-attenuated enclosure and spark arrestor, with exhaust discharging away from the operator position and the connector protection enclosure.
 - 3. Battery, battery charger, and both manual and automatic starting.
 - 4. Local alarm and shutdown for low oil pressure, high coolant temperature, overspeed, and low fuel.
- B. Supplier shall determine phase configuration, full-load current, feeder rating, connector rating, and overcurrent protection based on the submitted load calculation and the generator rating. Coordinate final connection configuration with the Port before fabrication.
- C. Provide internal disconnecting means, overcurrent protection, control-power transformation, motor protection, grounding, and branch-circuit protection required for a complete system.

2.14 ELECTRICAL ENCLOSURES AND CONTROL PANELS

- A. Outdoor electrical enclosures shall be NEMA 4X, stainless steel, or an approved equal construction suitable for marine corrosion exposure. Doors shall be gasketed and provided with lockable latches.
- B. Control panels shall have a short-circuit current rating not less than the available fault current at the 480 V connection point.

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- C. Provide internal wiring in wireways, terminal blocks for external and intercomponent wiring, ferrules or approved wire markers, and not less than 20 percent spare terminal capacity.
- D. Provide surge protective devices for sensitive controls where recommended by the control manufacturer.
- E. Provide space heaters and controls as required to prevent condensation. Heater circuits shall remain functional when the reel drive is not operating.

2.15 GROUNDING AND BONDING

- A. Provide a continuous, low-impedance equipment grounding path through each cable assembly, each connector, rotating transfer equipment, electrical enclosure, reel frame, and skid structure.
- B. Bond exposed non-current-carrying metallic parts to a common equipment grounding bus. Provide flexible bonding jumpers across hinges, bearings, rotating joints, and removable sections where electrical continuity cannot be assured through mechanical contact.
- C. Grounding and bonding conductors shall be copper, sized for the applicable overcurrent device and fault duty, and protected from mechanical damage and corrosion.
- D. Provide an accessible ground test point and labeled ground pad for field connection or testing.

2.16 IDENTIFICATION

- A. Provide engraved, laminated nameplates and durable cable markers identifying equipment, voltage, current rating, circuit designation, red or blue path, auxiliary source, and control function. Other affixed nameplates shall include:
 - 1. Supplier Name and Contact Information
 - 2. Loaded Weight
 - 3. Required Forklift Size
- B. Provide arc-flash and shock-hazard labels based on information furnished by the Port and applicable requirements. If incident-energy values are not available, provide equipment labels required by NFPA 70 pending completion of the Port's study.
- C. Provide operating and warning labels at connectors, control panels, protection enclosures, auxiliary-power inlet, emergency stops, and grounding points.
- D. Labels shall be suitable for ultraviolet exposure, salt spray, washdown, and outdoor marine service.

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2.17 SPARE PARTS AND SPECIAL TOOLS

- A. Provide Supplier/Manufacturer-recommended commissioning and two-year operational spare parts for connectors, seals, pilot contacts, communications connectors, collector wear parts, fuses, control relays, indicating lights, and other routine-wear electrical items.
- B. Provide special tools required for connector service, cable termination, brake release, collector inspection, communications cleaning, and control troubleshooting.
- C. Submit itemized spare-parts and special-tools schedule with associated unit pricing costs for Port selection before final procurement.

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Before fabrication, examine available record information and field-verify existing electrical and geometric interfaces through a minimum of one site visit. Notify the Engineer in writing of conflicts or conditions that prevent compliant installation or operation within the performance requirements.
- B. Prior to shipment, the Supplier shall verify:
 - 1. Operational clearances.
 - 2. Handling requirements.
 - 3. Transportation requirements.
 - 4. Cable reel compatibility.
- C. Before field connection or testing, verify that equipment is undamaged, dry, clean, correctly assembled, and suitable for energization.

3.2 INSTALLATION AND ASSEMBLY

- A. Install and assemble structural members and electrical equipment in accordance with approved shop drawings and Supplier/Manufacturer's written instructions.
 - 1. The Supplier/Manufacturer shall inspect completed fabrication for compliance with approved shop drawings.
 - 2. Welds shall be visually inspected.
 - 3. Coating and galvanizing work shall be inspected for completeness.
- B. Make cable terminations using trained personnel, manufacturer-approved tools, and written procedures. Maintain cable shield, stress-control, grounding, and environmental-sealing requirements.
- C. Bond electrical enclosures, reel, skid structure, guards, and other exposed metallic parts to the common equipment grounding system.

SKID-MOUNTED MOBILE SHORE POWER CABLE REEL ASSEMBLY

- D. Seal entries into outdoor electrical enclosures to maintain the specified environmental rating. Do not use common duct seal as the sole permanent water seal.
- E. Adjust torque, speed, limits, brakes, cable guides, and strain relief to prevent excessive cable tension, slack, binding, or overtravel.

3.3 FACTORY ACCEPTANCE TESTING

- A. Perform factory acceptance testing on each complete assembly before shipment. Give the Port and Engineer not less than 14 days of notice of testing and permit witnessing.
- B. Factory tests shall include, at minimum:
 - 1. Visual and dimensional inspection against approved submittals.
 - 2. Verification of component ratings, labels, wire identification, terminal tightness, and workmanship.
 - 3. Conductor continuity and phase-identification testing for power, ground, pilot, and copper communications conductors.
 - 4. Fiber-optic continuity, polarity, insertion-loss, and connector inspection testing.
 - 5. Insulation-resistance testing of medium-voltage cable assemblies and associated equipment using manufacturer-approved test voltage and procedure.
 - 6. Medium-voltage withstand testing where recommended by the cable and connector manufacturers and accepted in the approved test procedure.
 - 7. Protective-earth continuity and resistance testing through connectors, cables, collectors, reel, enclosures, and structure.
 - 8. Functional operation of reel IN and OUT, speed control, torque control, travel limits, brake, manual recovery, local controls, remote controls if provided, source selector, heaters, and indicators.
 - 9. Emergency-stop testing, including verification that the reel stops, the brake applies, and the shore pilot or permissive circuit opens.
 - 10. Complete key sequence demonstration for both red and blue cable paths using interface fixtures representative of the existing Port equipment.
 - 11. Simulation of abnormal conditions including loss of auxiliary power, drive fault, open pilot circuit, unsafe connector state, and attempted restart following power restoration.
 - 12. Operational deployment and retrieval of the full active cable length, demonstrating proper spooling and cable protection.

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13. Verification by measurement that the minimum bend radii required by Section 2.5.J are not violated at any point in the drum, guides, supports, or connector storage positions, in both deployment directions.
- C. Correct deficiencies and repeat affected tests before shipment. Submit certified test reports.

3.4 FIELD ACCEPTANCE TESTING AND COMMISSIONING

- A. Provide a factory-authorized service representative to inspect installation, perform startup, adjust the system, and conduct field acceptance testing.
- B. Coordinate outages, access, test boundaries, and connection to existing shore power equipment with the Port. Do not energize medium-voltage equipment without written authorization and an approved switching procedure.
- C. Field tests shall include, at minimum:
 1. Inspection for shipping damage, moisture, contamination, loose connections, and correct assembly.
 2. Verification of phase sequence and red/blue connector compatibility at each existing interface designated by the Port.
 3. Continuity and identification of phase, ground, pilot, copper communications, and fiber-optic paths.
 4. Insulation-resistance testing following installation and before connection to the existing system.
 5. Grounding and bonding continuity tests.
 6. Functional test of auxiliary-power distribution, controls, reel drive, brake, limits, emergency stops, and indicators.
 7. Complete key interlock and pilot-permissive sequence demonstration with the existing Port shore power system in a de-energized or approved test condition.
 8. Communications end-to-end functional testing through the complete mobile assembly.
 9. Full deployment and retrieval of both cable assemblies at full active reeling length.
 10. Energized no-load and load testing when directed by the Port and performed under an approved switching and safety plan.
 11. Trial deployment at not fewer than three bullrail vaults selected by the Port, including at least one deployment in each direction, confirming the usable reach required by Section 1.5 C.

SKID-MOUNTED MOBILE SHORE POWER CABLE REEL ASSEMBLY

12. Measurement of the actual bend radius developed at the vault entry and at any turnaround support during the trial deployment.
- D. Record final settings for drives, protective devices, controls, limits, and communications equipment. Include settings in the operation and maintenance manuals.
- E. Correct deficiencies and repeat affected tests. Equipment will not be accepted until test results comply with approved acceptance criteria.

3.5 IDENTIFICATION AND FINAL ADJUSTMENT

- A. Install final equipment labels, connector identification, cable markers, warning signs, and operating instructions after adjustments are complete.
- B. Verify that red and blue paths are consistently identified from shore-side plugs through cable, reel, internal wiring, and vessel-side couplers.
- C. Verify that protective caps, cable grips, transport restraints, connector supports, enclosure locks, and electrical guards are installed and functional.

3.6 DEMONSTRATION AND TRAINING

- A. Provide factory-authorized instruction for Port operations/ maintenance and tenant personnel. Conduct on-site training at the Husky Terminal using furnished equipment.
- B. Provide not less than two normal workdays of combined classroom and hands-on training covering:
 1. System purpose, ratings, limitations, and hazards.
 2. Pre-use inspection and safe deployment.
 3. Connection and disconnection sequence.
 4. Key interlock, pilot, permissive, and emergency-stop operation.
 5. Reel controls, auxiliary-power connection, generator operation, brake release, and emergency retrieval.
 6. Cable, connector, collector, grounding, control-panel, and communications inspection and maintenance.
 7. Troubleshooting and response to drive, interlock, communications, and auxiliary-power faults.
 8. Required personal protective equipment, lockout/tagout interfaces, and restrictions on energized connection or disconnection.
- C. Schedule training with the Port not less than fourteen days in advance. Provide training materials in electronic pdf format.

SKID-MOUNTED MOBILE SHORE POWER CABLE REEL ASSEMBLY

- D. After the skids are commissioned and accepted by the Port, the Supplier shall be available (provide on-call contact) for the following 90 days for any inquiry required by the Port in relation to the assembly provided.

3.7 OPERATION AND MAINTENANCE MANUALS

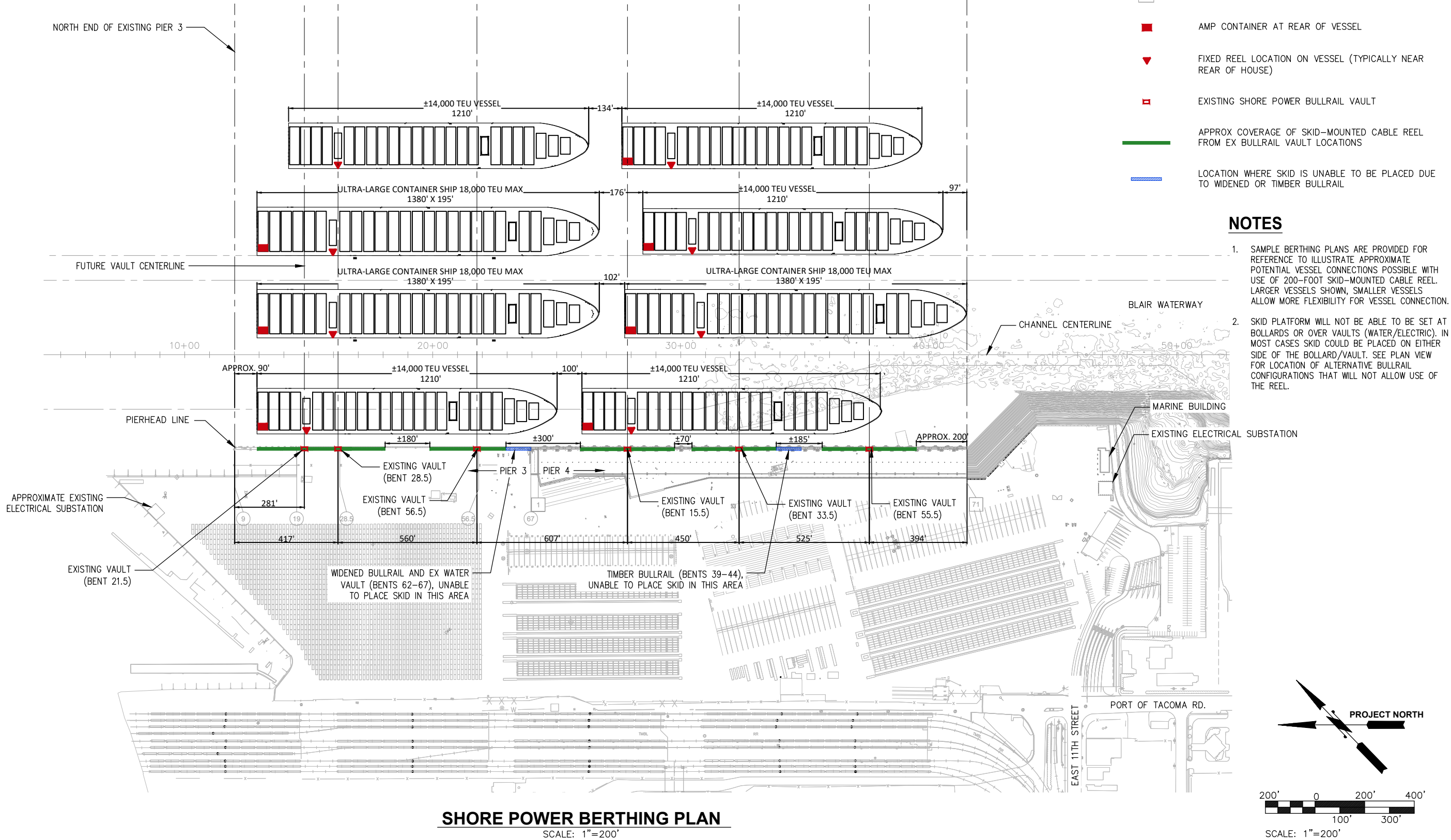
- A. Manuals shall include:
1. Structural shop drawings for full assembly including major footprint dimensions and weights.
 2. Approved product data, shop drawings, one-lines, wiring diagrams, interlock diagrams, terminal drawings, cable schedules, and connector pin assignments.
 3. System description and complete connection, disconnection, deployment, retrieval, relocation, storage, emergency, and lockout procedures.
 4. Final drive, brake, limit, control, protection, and communications settings.
 5. Inspection and preventive-maintenance schedules for cables, connectors, collector system, reel drive, brakes, enclosures, heaters, controls, interlocks, grounding, pilot circuits, and communications.
 6. Test procedures and acceptance criteria for periodic insulation, continuity, grounding, pilot, and communications testing.
 7. Troubleshooting charts, diagnostic codes, and corrective actions.
 8. Certified factory and field test reports.
 9. Spare-parts lists, recommended stock quantities, special tools, and Supplier/Manufacturer contact information.
 10. As-built equipment data and final interface verification record.

END OF SECTION

PORT OF TACOMA FILE: X:2026/2600102 Husky SP Portable Cable Reel Performance Spec/Drawings/Exhibits/2026-09-18 Berthing Exhibit and Performance Spec/EX-1 Shore Power Berthing Plan

APPENDIX A

Husky Cable Reel Performance Spec



2407 North 31st Street, Suite 100
Tacoma, Washington 98407
(253) 396-0130 Fax (253) 396-0162

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	PROJ. ENGR	DATE:
DIRECTOR ENG. DATE:	PRINTED BY:	SEP 21, 2026
PORT ADDRESS: ONE SITCUM PLAZA	TACOMA, WA 98401-1837	

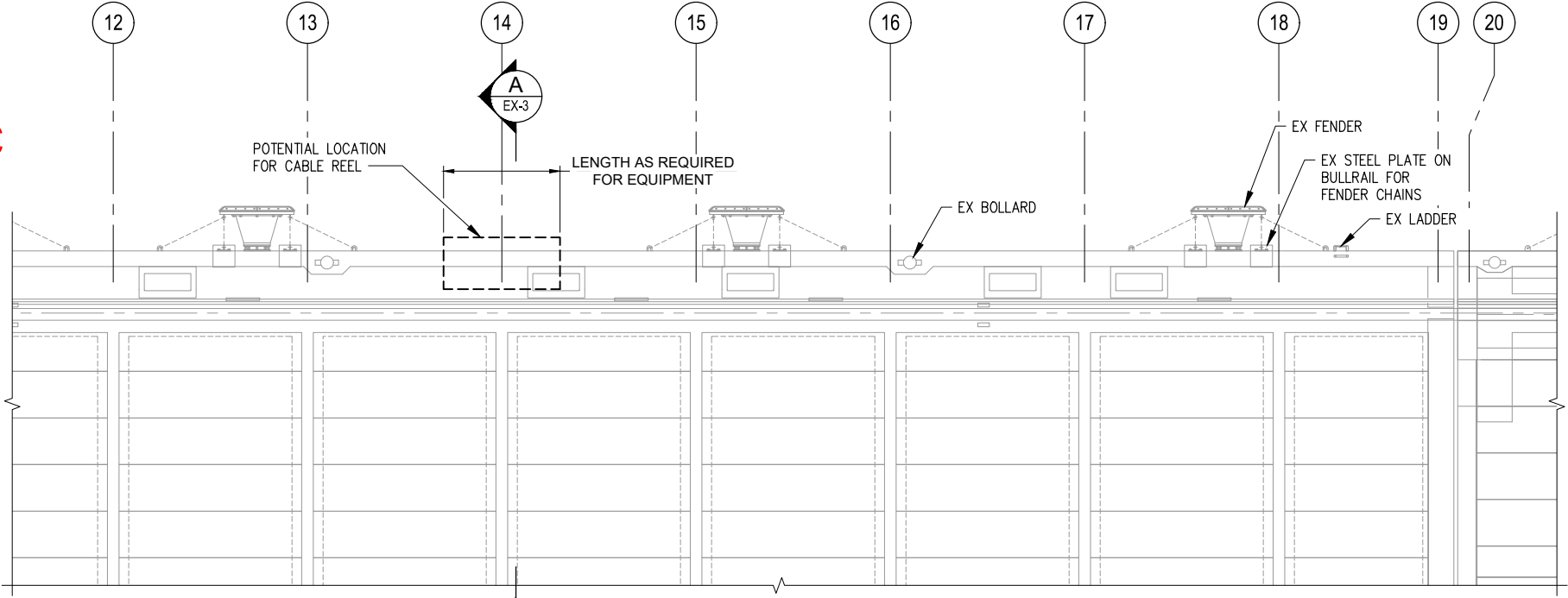
PORT OF TACOMA PIER 3 AND 4
HUSKY TERMINAL CABLE REEL PROCUREMENT
BERTHING LAYOUT (REFERENCE)

EX-1
1 of 6

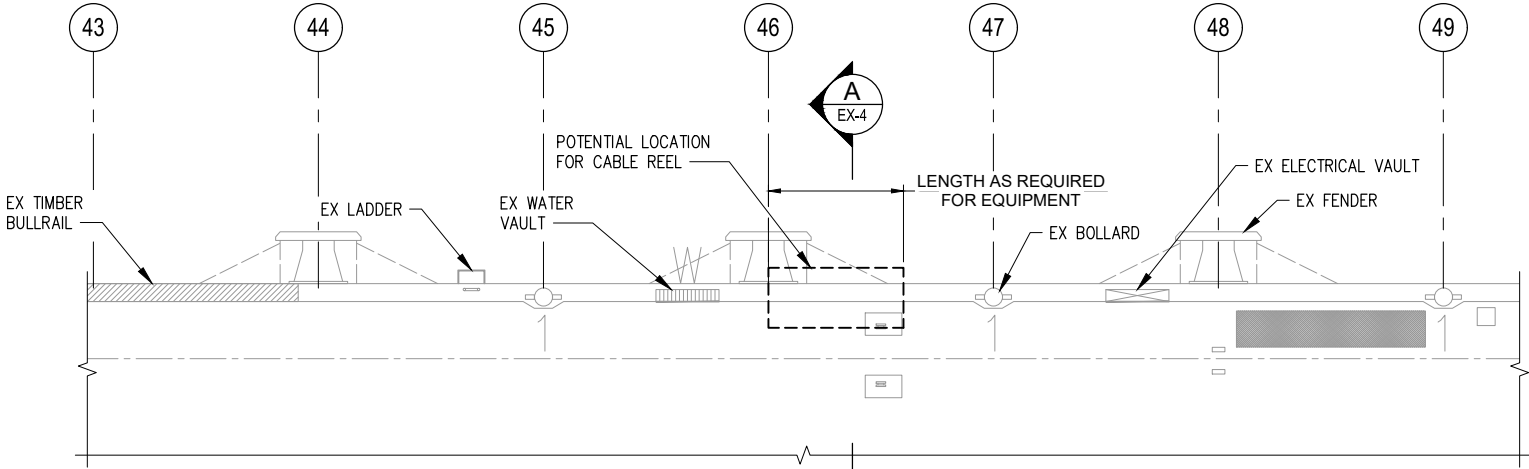
CONT/CONS:	TOWNSHIP:	RANGE:	SECTION:
M. ID:	DAT-HRZ:	WA83-SF	MLLW 19.39' @ Tide 22 1933
PHASE:	PARCEL:	DRAWING SCALE: AS NOTED	

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APPENDIX A
Husky Cable Reel
Performance Spec



TYPICAL PIER 3 PLAN VIEW
SCALE: 3/32" = 1'-0"



TYPICAL PIER 4 PLAN VIEW
SCALE: 3/32" = 1'-0"

NOTES

- 1. TYPICAL SKID PLACEMENT SHOWN.
- 2. SKID PLATFORM WILL NOT BE ABLE TO BE SET AT BOLLARDS OR OVER VAULTS (WATER/ELECTRIC). IN MOST CASES SKID COULD BE PLACED ON EITHER SIDE OF THE BOLLARD/VAULT. SEE EXHIBIT 1 FOR LOCATION OF ALTERNATIVE BULLRAIL CONFIGURATIONS THAT WILL NOT ALLOW USE OF THE REEL.

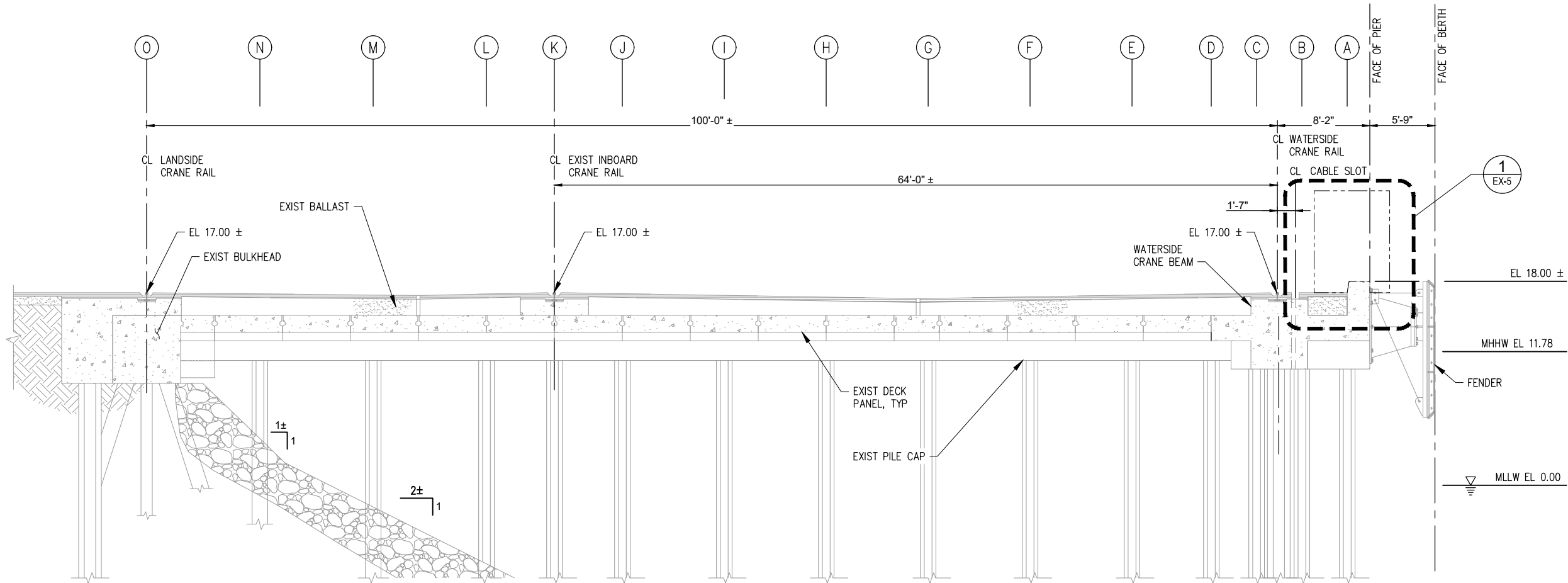
EX-2 2 of 6	PORT OF TACOMA PIER 3 AND 4				APPROVED:			
	HUSKY TERMINAL CABLE REEL PROCUREMENT						CHECKED BY	DATE
	TYPICAL PIER 3 & 4 PLAN VIEW				DIRECTOR ENG. DATE		PROJ. ENGR	DATE
					PRINTED BY: eowen		Sep 21, 2026	
					PORT ADDRESS:			
CONT/CONS:	TOWNSHIP:	RANGE:	SECTION:					
M. ID:	DAT-HRZ:	VERT:	DRAWING SCALE:					
PHASE:	PARCEL:							
				MARK:	REVISION:	BY:	DATE:	

PORT OF TACOMA FILE: X:2026\2600102 Husky SP Portable Cable Reel Performance Spec\Drawings\Exhibits\2026-09-18 Berthing Exhibit and Performance Spec\EX-3 PIER 3 SECTION

BINDING EDGE

APPENDIX A

Husky Cable Reel Performance Spec



A
EX-2
TYPICAL PIER 3 SECTION
SCALE: 3/16" = 1'-0"

FOR REFERENCE ONLY-NOT FOR CONSTRUCTION

EX-3 3 of 6	PORT OF TACOMA PIER 3 AND 4 HUSKY TERMINAL CABLE REEL PROCUREMENT TYPICAL PIER 3 SECTION				APPROVED:		CHECKED BY: DATE:	
	CONT/CONS:	TOWNSHIP:	RANGE:	SECTION:	DIRECTOR ENG. DATE	PROJ. ENGR DATE	MARK:	REVISION:
M. ID:	DAT-HRZ:	VERT:			PRINTED BY: eowen Sep 21, 2026		BY:	
PHASE:	PARCEL:				PORT ADDRESS:		DATE:	
					DRAWING SCALE:		APPR:	

P.O. BOX 1837 TACOMA, WA 98401 (206)383-5441

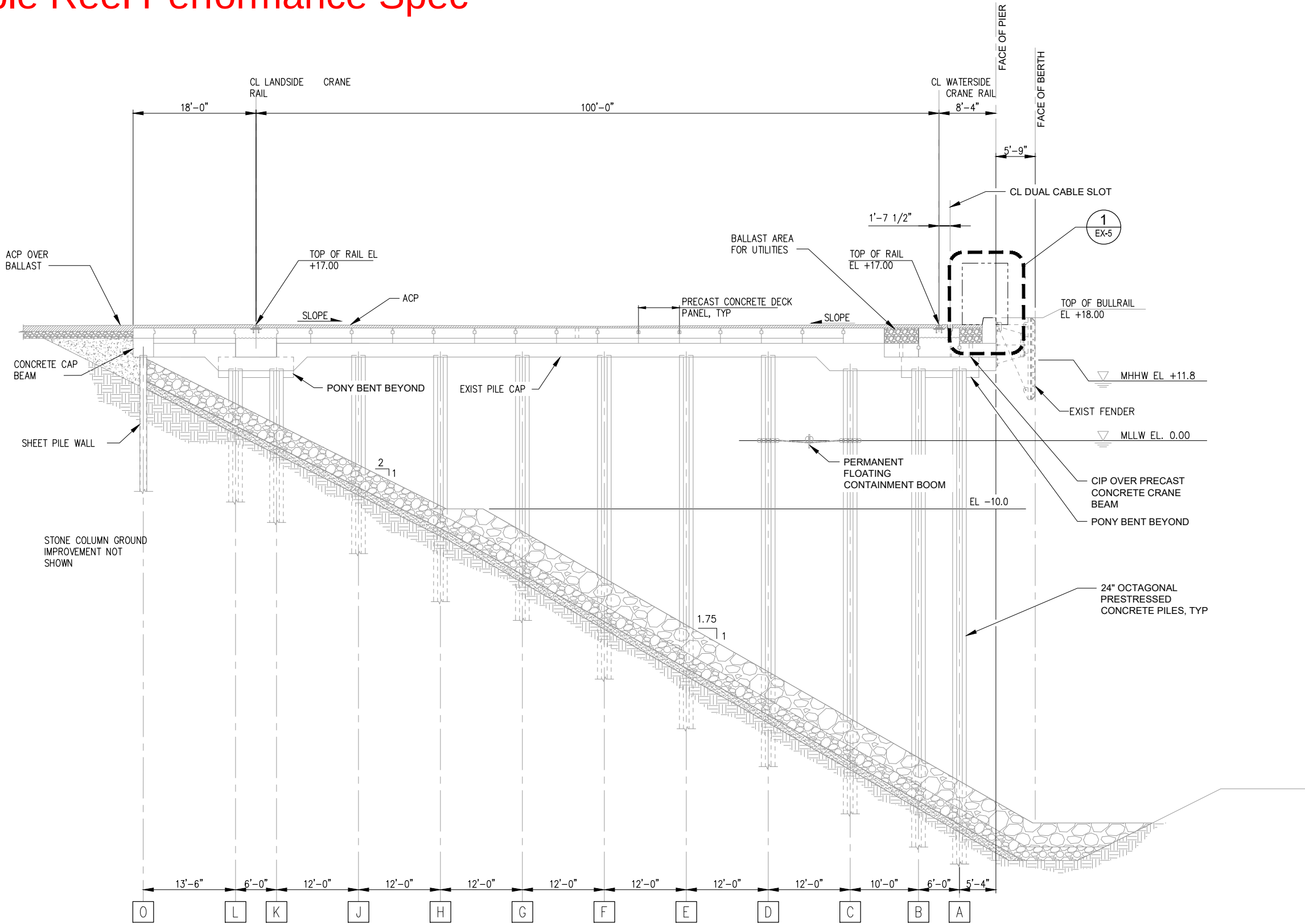
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PORT OF TACOMA FILE: X:\2026\2600102 Husky SP Portable Cable Reel Performance Spec\Drawings\Exhibits\2026-09-18 Berthing Exhibit and Performance Spec\EX-4 PIER 4 SECTION

BINDING EDGE

APPENDIX A

Husky Cable Reel Performance Spec



A TYPICAL PIER 4 SECTION
EX-2 SCALE: 1/8" = 1'-0"

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MARK: _____

REVISION: _____

BY: _____

APPR: _____

DATE: _____

APPROVED:

CHECKED BY: _____

DATE: _____

DIRECTOR ENG. DATE: _____

PRINTED BY: eowen Sep 21, 2026

PORT ADDRESS: _____

PORT OF TACOMA PIER 3 AND 4

HUSKY TERMINAL CABLE REEL PROCUREMENT

TYPICAL PIER 4 SECTION

EX-4

4 of 6

CONT/CONS: _____

M. ID: _____

PHASE: _____

TOWNSHIP: _____

DAT-HRZ: _____

RANGE: _____

VERT: _____

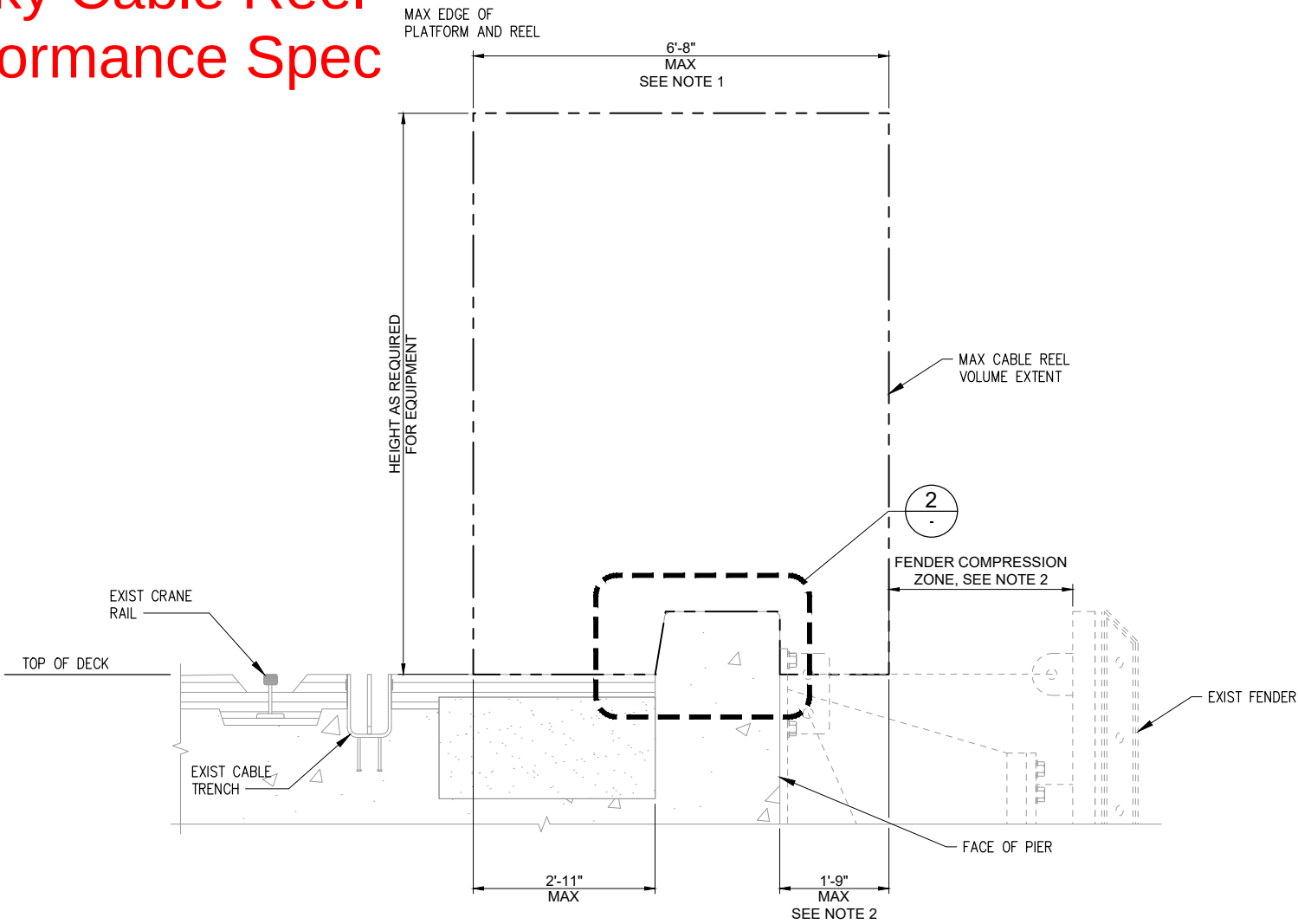
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DRAWING SCALE: _____

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APPENDIX A

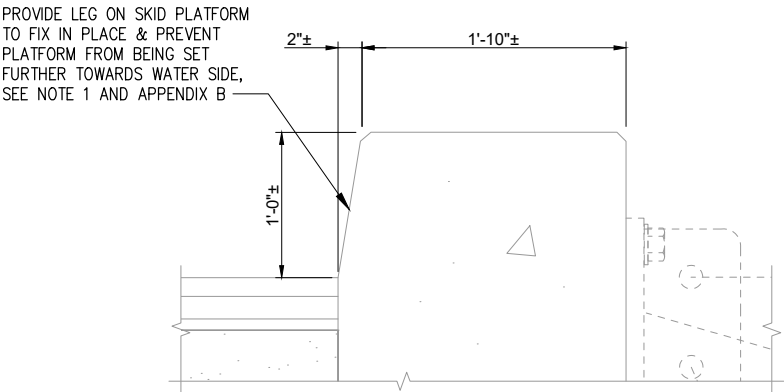
Husky Cable Reel Performance Spec



1 CABLE REEL VOLUME DETAIL
EX-3, EX-4 SCALE: 3/4" = 1'-0"

NOTES

- SEE PHOTO IN DETAIL 3 FOR EXISTING PORTABLE GANGWAY PLATFORM THAT IS CURRENTLY BEING USED ON TERMINAL. THAT PLATFORM IS PROVIDED AS REFERENCE TO SHOW THE MAXIMUM SIZE OF A PLATFORM THAT HAS BEEN UTILIZED FOR YEARS AND OCCUPIES A SIMILAR FOOTPRINT WHILE ALLOWING THE CONTAINER CRANES TO PASS. SEE ALSO APPENDIX B FOR SHOP DRAWINGS OF THAT PLATFORM PROVIDED FOR REFERENCE ONLY.
- THE MAX CABLE REEL/SKID WIDTH IS BASED ON AVOIDING INTERFERENCE WITH THE MAXIMUM FENDER COMPRESSION. SEE NOTE 1 ABOVE.
- SEE TECHNICAL SPECIFICATIONS AND EXHIBIT 6 FOR SKID-MOUNTED CABLE REEL PERFORMANCE REQUIREMENTS.



2 TYPICAL EX BULLRAIL DETAIL
SCALE: 1 1/2" = 1'-0"



3 GANGWAY PLATFORM PHOTO
SCALE: 1 1/2" = 1'-0"

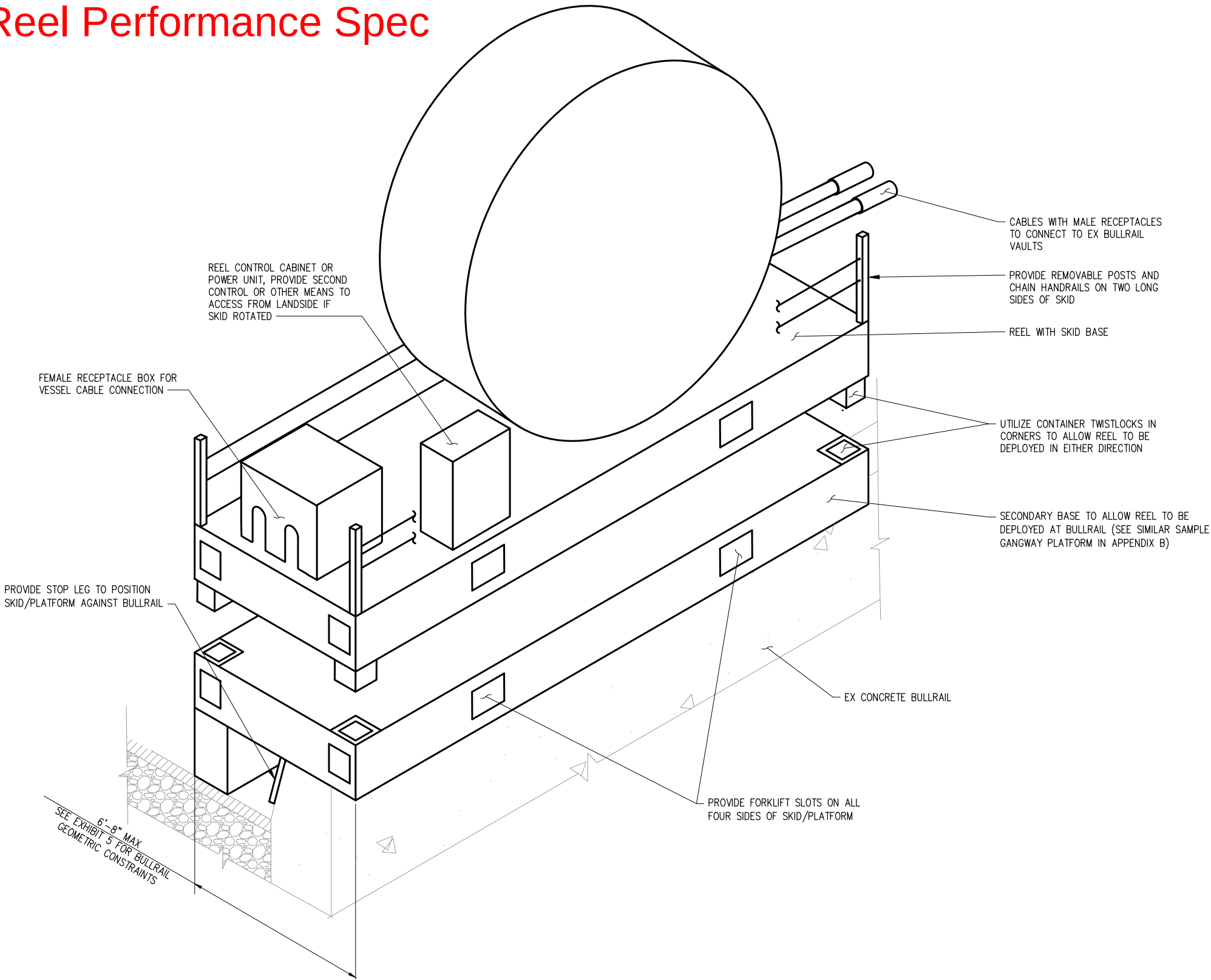
EX-5 5 of 6	PORT OF TACOMA PIER 3 AND 4 HUSKY TERMINAL CABLE REEL PROCUREMENT GEOMETRIC CONSTRAINT DETAILS				Port of Tacoma P.O. BOX 1837 TACOMA, WA 98401 (206)383-5441	
	CONT/CONS:	TOWNSHIP:	RANGE:	SECTION:	MARK:	REVISION:
M. ID:	DATE-HRZ:	VERT:	DRAWING SCALE:		BY:	APPR:
PHASE:	PORT ADDRESS:				DATE:	

PORT OF TACOMA FILE: X:2026\2600102 Husky SP Portable Cable Reel Performance Spec\Drawings\Exhibits\2026-09-18 Berthing Exhibit and Performance Spec\EX-6 SKID

BINDING EDGE

APPENDIX A

Husky Cable Reel Performance Spec



NOTES

- THIS EXHIBIT IS A SIMPLIFIED SCHEMATIC REPRESENTATION PROVIDED FOR REFERENCE ONLY TO ACCOMPANY THE PERFORMANCE REQUIREMENTS NARRATIVE PROVIDED IN PARAGRAPH 1.5 OF THE TECHNICAL SPECIFICATIONS. SPECIFIC COMPONENT LAYOUT AND GEOMETRY TO BE DETERMINED BY THE SUPPLIER.
- SUPPLIER SHALL ENGAGE PROFESSIONAL ENGINEER TO FINALIZE GEOMETRY AND CONFIRM STABILITY. SEE TECHNICAL SPECIFICATIONS FOR FURTHER REQUIREMENTS.

1 SKID-MOUNTED CABLE REEL
SCALE: NTS

FOR REFERENCE ONLY-NOT FOR CONSTRUCTION

EX-6 6 of 6	PORT OF TACOMA PIER 3 AND 4 HUSKY TERMINAL CABLE REEL PROCUREMENT SKID-MOUNTED CABLE REEL REQUIREMENTS				APPROVED:		Port of Tacoma P.O. BOX 1837 TACOMA, WA 98401 (206)383-5441	
	CONT/CONS:	TOWNSHIP:	RANGE:	SECTION:	DIRECTOR ENG. DATE	CHECKED BY	DATE	MARK: REVISION: BY: APPR: DATE:
	M. ID:	DAT-HRZ:	VERT:	PRINTED BY: eowen	PROJ. ENGR			
	PHASE:	PARCEL:	DRAWING SCALE:	PORT ADDRESS:	Sep 21, 2026			

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APPENDIX B
HUSKY CABLE REEL PERFORMANCE SPEC

STRUCTURAL NOTES

CODE REQUIREMENTS:
ALL DESIGN AND CONSTRUCTION SHALL CONFORM TO THE REQUIREMENTS OF THE 2012 INTERNATIONAL BUILDING CODE (IBC), AS AMENDED BY THE CITY OF TACOMA.

STEEL REFERENCE SPECIFICATIONS

STRUCTURAL STEEL — AISC — LOAD AND RESISTANCE FACTOR DESIGN SPECIFICATION FOR STRUCTURAL STEEL BUILDING — MARCH 2011

WELDING — AWS D1.1, TYPICAL

WELDER CERTIFICATION — AMERICAN WELDING SOCIETY (AWS) WASHINGTON ASSOCIATION OF BUILDING OFFICIALS (WABO)

STEEL MATERIALS:
STRUCTURAL STEEL — ASTM A 992

CONNECTION MATERIAL,
CHANNELS, ANGLES,
PLATES, AND MISC.
STEEL — ASTM A 36

STEEL CHECKERED PLATE — ASTM A 786

STRUCTURAL TUBES — ASTM A 500, GRADE B

WELDING ELECTRODES — 70 KSI, LOW HYDROGEN, TYPICAL

STRUCTURAL STEEL:
STRUCTURAL STEEL DESIGN, FABRICATION AND ERECTION SHALL CONFORM TO THE REQUIREMENTS OF CHAPTER 22 OF THE IBC. ALL MEMBERS ARE TO BE ERECTED WITH NATURAL MILL CAMBER, UNLESS OTHERWISE NOTED ON THE PLANS. SUBSTITUTION OF MEMBER SIZES OR STEEL GRADE WILL NOT BE ALLOWED WITHOUT PRIOR APPROVAL OF THE PORT OF TACOMA.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL ERECTION AIDS AND JOINT PREPARATIONS THAT INCLUDE, BUT ARE NOT LIMITED TO, ERECTION ANGLES, LIFT HOLES AND OTHER AIDS, WELDING PROCEDURES, REQUIRED ROOT OPENINGS, ROOT FACE DIMENSIONS, GROOVE ANGLES, BACKING BARS, COPES, SURFACE ROUGHNESS VALUES AND UNEQUAL PARTS.

THE GANGWAY PLATFORM ASSEMBLY SHALL BE COATED WITH OSHA SAFETY YELLOW PAINT AFTER FABRICATION. SURFACES SHALL BE PREPARED "WHITE METAL BLAST CLEANED" CONFORMING TO SSPC-SP5 PRIOR TO COATING. COATING MATERIALS SHALL BE SUITABLE FOR CORROSION PROTECTION IN AN AGGRESSIVE MARINE ENVIRONMENT. ADHERE TO THE MANUFACTURER'S PROVISIONS, DIRECTIONS, AND PROCEDURES FOR THE APPLICATION OF THE COATING.

WELDING:
ALL WELDING SHALL BE IN CONFORMANCE WITH AISC AND AWS STANDARDS AND SHALL BE PERFORMED BY AWS- WABO- CERTIFIED WELDERS USING 70 KSI ELECTRODES AND LOW HYDROGEN PROCESSES. ONLY WELDS THAT ARE PRE-QUALIFIED, AS DEFINED BY AWS, OR QUALIFIED BY TESTING SHALL BE USED. SHOP DRAWINGS SHALL SHOW ALL WELDING WITH AWS A2.4 SYMBOLS. WELDS SHOWN ON THE DRAWINGS ARE MINIMUM SIZES. INCREASE WELD SIZE TO AWS MINIMUM SIZES BASED ON PLATE THICKNESS. MINIMUM WELD SIZE SHALL BE 1/4 - INCH, UNLESS NOTED OTHERWISE. THE WELDS SHOWN ARE FOR THE FINAL CONNECTIONS. FIELD WELD SYMBOLS ARE SHOWN WHERE FIELD WELDS ARE REQUIRED BY THE STRUCTURAL DESIGN. THE CONTRACTOR IS RESPONSIBLE FOR DETERMINING IF A WELD SHOULD BE SHOP- OR FIELD-WELDED IN ORDER TO FACILITATE THE STRUCTURAL STEEL ERECTION.

STRUCTURAL DRAWING ABBREVIATIONS

B/	BOTTOM OF	FT	FEET	PSF	POUNDS PER SQ. FT.
BM	BEAM	GALV	GALVANIZED	PT	POINT
BOT	BOTTOM	HSS	STRUCTURAL STEEL	R	RADIUS
BRG	BEARING	ID	INSIDE DIAMETER	REINF	REINFORCING
CC	CENTER TO CENTER	IN	INCH	REQ'D	REQUIRED
CIP	CAST IN PLACE	K	KIP (1,000 LBS.)	SECT	SECTION
CL	CENTERLINE	KSF	KIPS PER SQ. FT.	SHT	SHEET
CLR	CLEAR	LB	POUNDS	SIM	SIMILAR
CONC	CONCRETE	LF	LINEAL FOOT	SQ	SQUARE
CONN	CONNECTION	LLH	LONG LEG HORIZONTAL	SS	STAINLESS STEEL
CONST	CONSTRUCTION	LLV	LONG LEG VERTICAL	STD	STANDARD
CONT	CONTINUOUS	MAX	MAXIMUM	STL	STEEL
CONTR	CONTRACTOR	MIN	MINIMUM	STRUCT	STRUCTURAL
CP	COMPLETE PENETRATION	MISC	MISCELLANEOUS	SYM	SYMMETRICAL
CTR	CENTER	NTS	NOT TO SCALE	T/	TOP OF
DIA	DIAMETER	OC	ON CENTER	T&B	TOP AND BOTTOM
DIAG	DIAGONAL	OD	OUTSIDE DIAMETER	TS	TUBE STEEL
DWG	DRAWING	OF	OUTSIDE FACE	TYP	TYPICAL
EA	EACH	OPNG	OPENING	UNO	UNLESS NOTED OTHERWISE
EF	EACH FACE	OPP	OPPOSITE	W/	WITH
EL	ELEVATION	PEN	PENETRATION		
ES	EACH SIDE	PL	PLATE		
EW	EACH WAY	PP	PARTIAL PENETRATION		
EX	EXISTING	PSI	POUNDS PER SQ. IN.		

DRAWING INDEX:

- S1.0 STRUCTURAL NOTES, ABBREVIATIONS, DESIGN CRITERIA AND DRAWING INDEX
- S2.0 PLAN AND DETAILS
- S3.0 SECTIONS AND DETAILS
- S4.0 DETAILS

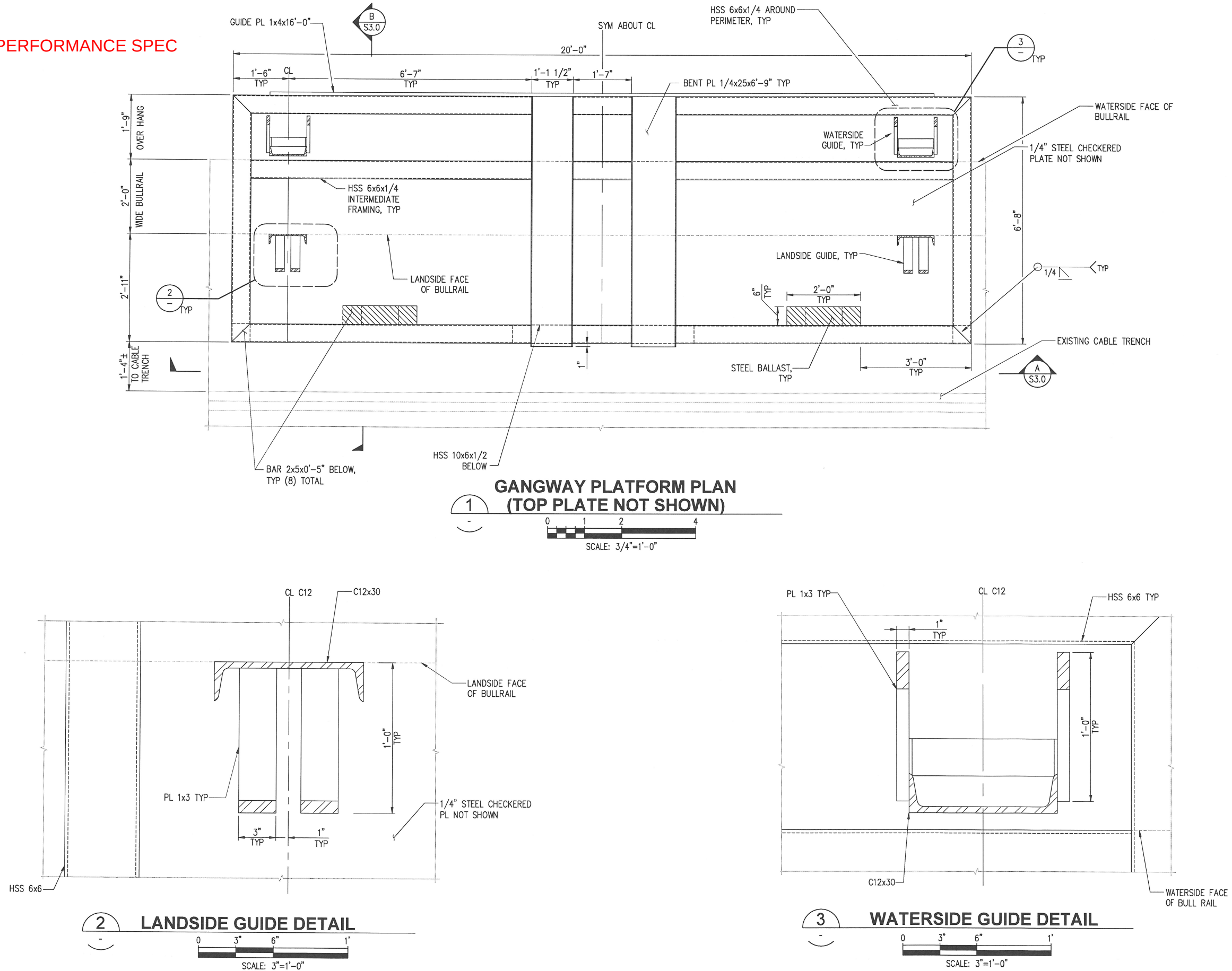
LANDING PLATFORM DESIGN INFORMATION

1. 3500 LB POINT LIVE LOAD
2. PLATFORM TOTAL WEIGHT = 5600#
3. PLATFORM MOVABLE WITH FORKLIFT
4. FACTOR OF SAFETY AGAINST OVERTURNING =2.0

S1.0 SH#2 OF 5	PIER 3 GANGWAY PLATFORM STRUCTURAL NOTES, ABBREVIATIONS, AND DRAWING INDEX	APPROVED:	SEK	7/24/15					
			CHECKED BY	DATE				APPR.	DATE:
			7/24/15						
			7/24/15						
DIRECTOR		ENG.	DATE	PROJ.	ENGR.	DATE	BY:		
PRINTED BY:		clebron Jul 28, 2015							
PORT		ADDRESS: ONE SITCUM PLAZA							
DRAWING		SCALE:		AS NOTED					

APPENDIX B

HUSKY CABLE REEL PERFORMANCE SPEC



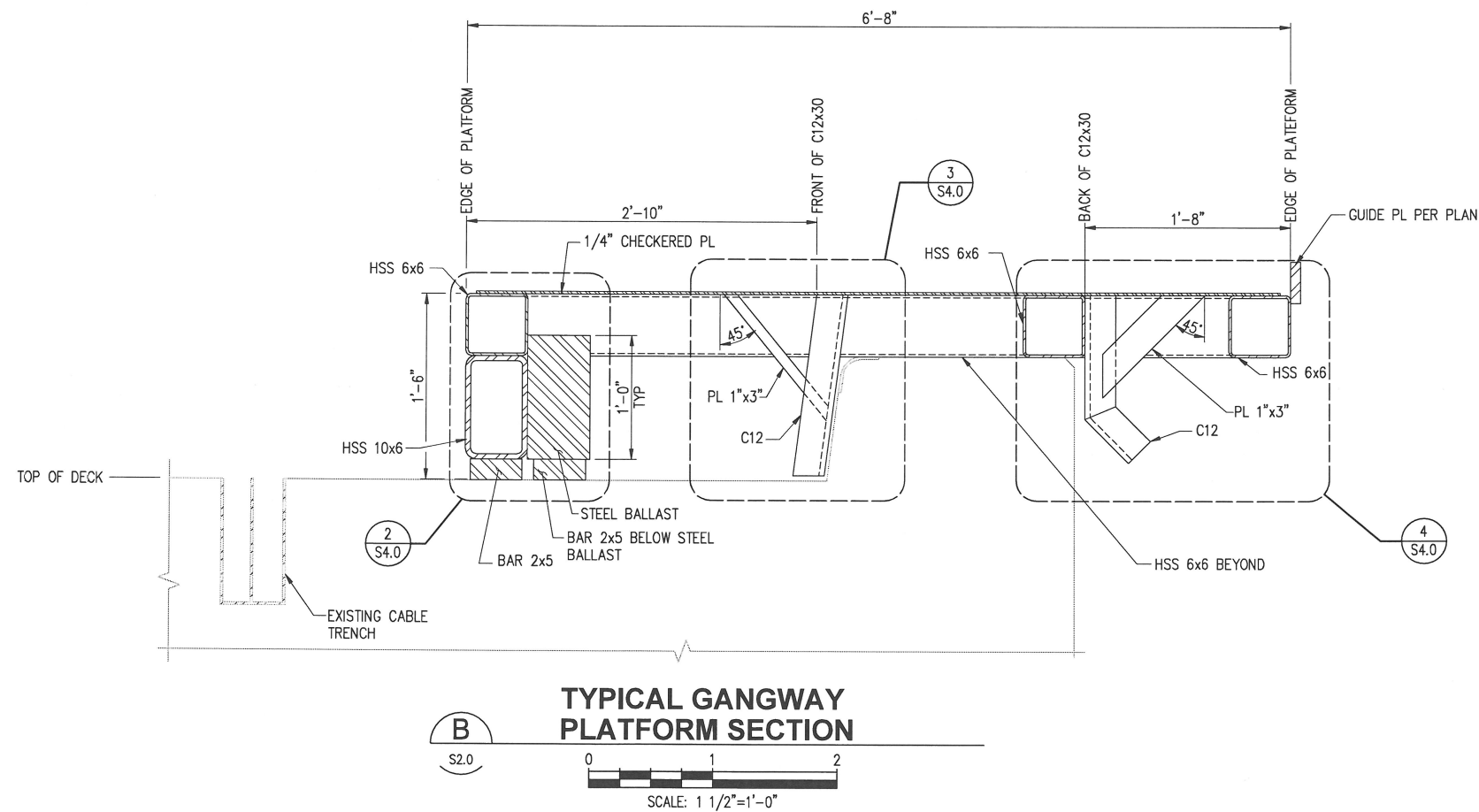
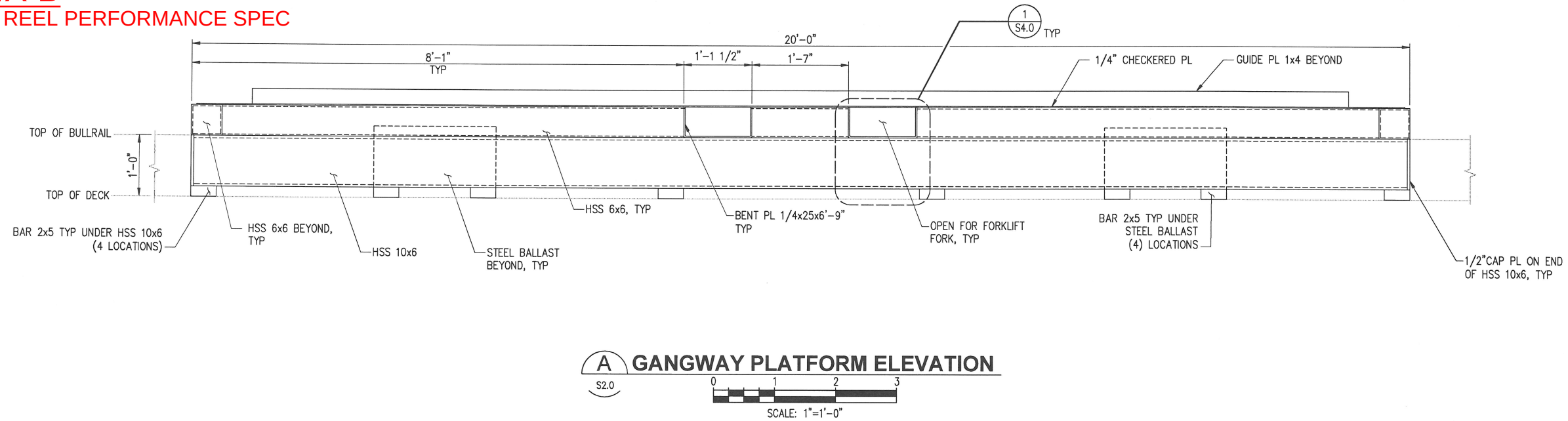
S2.0 SH#3 OF 5	PIER 3 GANGWAY PLATFORM					APPROVED:		SEK	7/24/15	
	PLAN AND DETAILS							CHECKED BY	DATE	
								APE	7/24/15	
						DIRECTOR	ENG.	DATE	PROJ. ENGR	DATE
	TOWNSHIP: 21N					RANGE: 3E	SECTION: 27	PRINTED BY: clebron Jul 28, 2015		
M. ID: 091535					DAT-HRZ: WA83-SF		VERT: MLLW 19.39' @ Tide 22 1933		PORT ADDRESS: ONE SITCUM PLAZA	
PHASE:					PARCEL:		DRAWING SCALE: AS NOTED		TACOMA, WA 98401-1837	
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kpff 2407 North 31st Street, Suite 100 Tacoma, Washington 98407 (253) 596-0150 Fax (253) 596-0162	 ST-92-1	MARK:		REVISION:	BY:	
		APPR:		DATE:		

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APPENDIX B

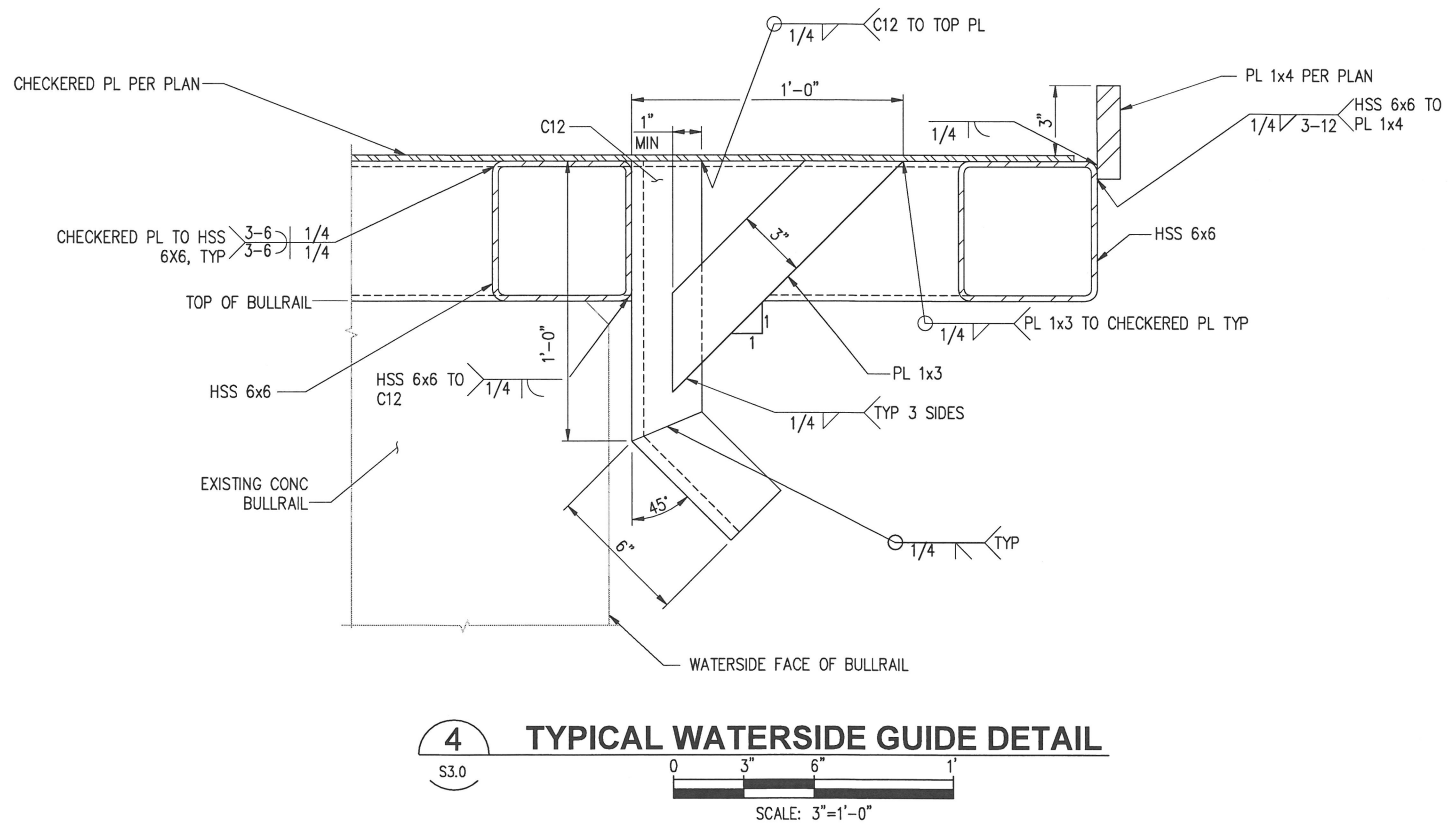
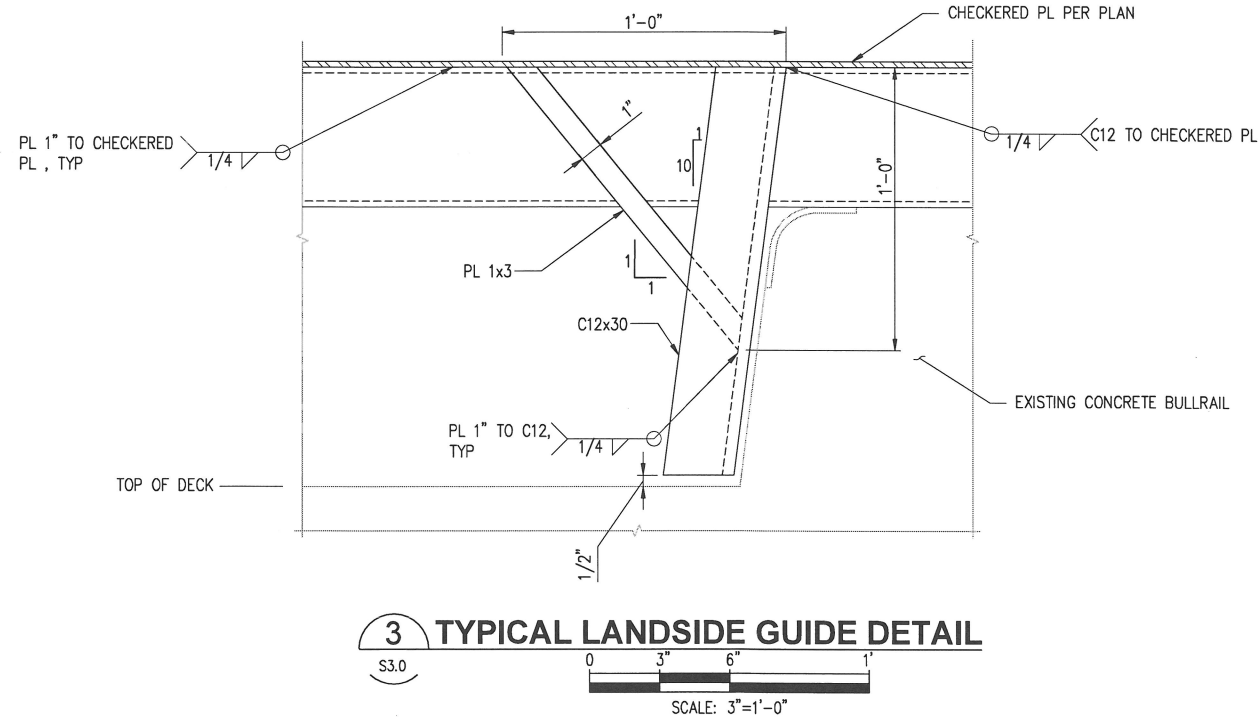
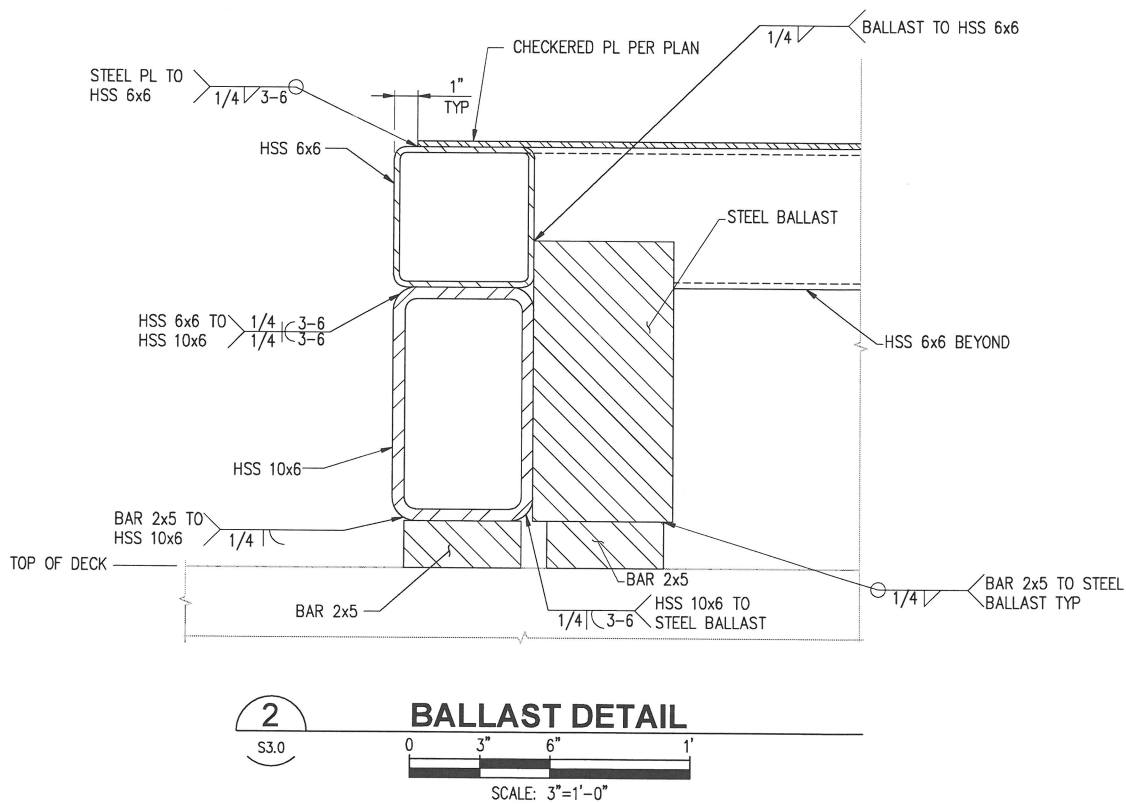
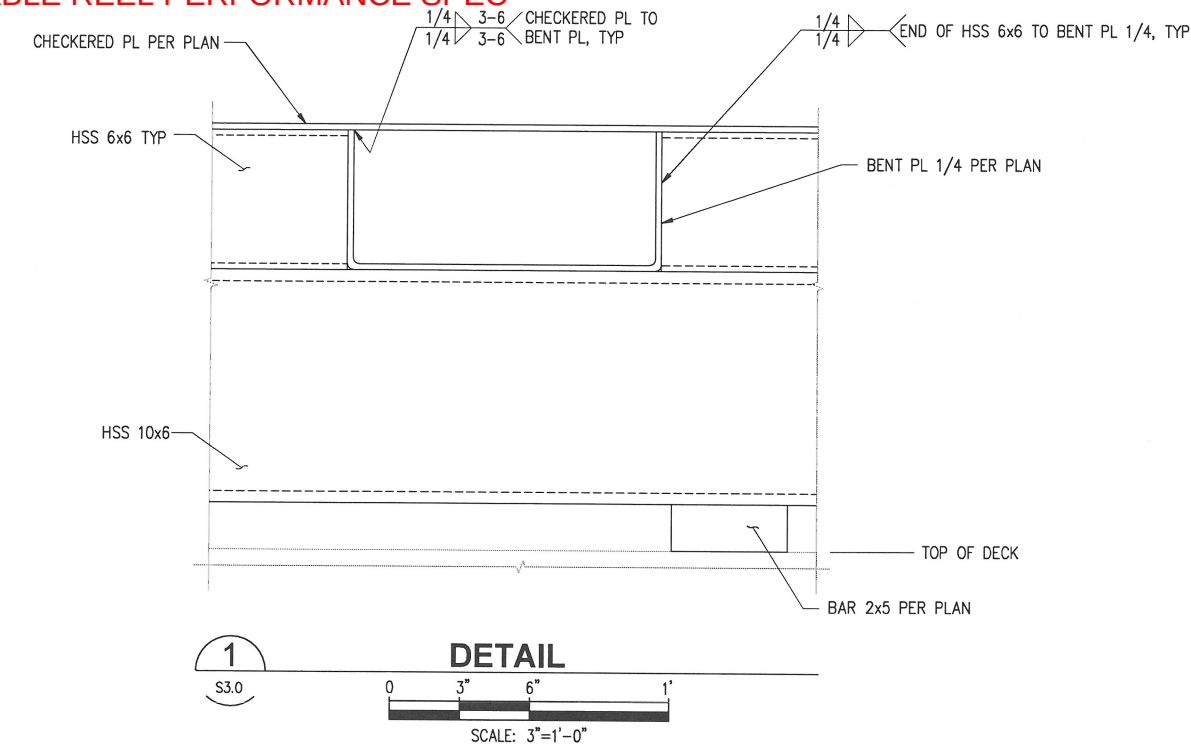
HUSKY CABLE REEL PERFORMANCE SPEC



NOTE:
STEEL BALLAST VOLUME SHALL BE 3456 CU. IN. EACH (980 LBS OF STEEL). THE BALLAST MAY BE IN COMBINATIONS OF 1/2" OR LARGER PLATE ARRANGED TO MEET GEOMETRICAL REQUIREMENTS SHOWN. BALLAST CONFIGURATION SHALL BE THE SAME IN EACH LOCATION. ALL BALLAST SHALL BE AFFIXED TO THE FRAMING WITH SEAL WELDS AND SHALL BE PAINTED.

S3.0 SH#4 OF 5 CONT/CONS: M. ID: 091535 PHASE:	PIER 3 GANGWAY PLATFORM				APPROVED:				SEK		7/24/15			
	SECTIONS AND DETAILS				TOWNSHIP: 21N		RANGE: 3E		SECTION: 27		CHECKED BY		DATE	
					DAT-HRZ: WA83-SF		VERT: MLW 19.39' @ Tide 22 1933		APE		7/24/15			
					PARCEL:		DRAWING SCALE: AS NOTED		DIRECTOR ENG. DATE		PROJ. ENGR DATE			
					PRINTED BY: clebron		Jul 28, 2015							
					PORT ADDRESS: ONE SITCUM PLAZA									
					TACOMA, WA 98401-1837									

APPENDIX B
HUSKY CABLE REEL PERFORMANCE SPEC



S4.0 5 OF 5	PIER 3 GANGWAY PLATFORM		DETAILS		APPROVED:	SEK	7/24/15
	CONTRACT/CONS:	TOWNSHIP: 21N	RANGE: 3E	SECTION: 27	DIRECTOR:	ENG. DATE	CHECKED BY DATE
	M. ID:	091535	DATE-HRZ:	WA89-SF	PRINTED BY:	clebron Jul 28, 2015	APR 7/24/15
	PHASE:	PARCEL:	DRAWING SCALE:	AS NOTED	PORT ADDRESS:	ONE SITCUM PLAZA	DATE
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kpff
2407 North 31st Street, Suite 100
Tacoma, WA 98401-1837
(253) 396-0150 Fax (253) 396-0162

SCOTT E. AULD
REGISTERED PROFESSIONAL ENGINEER
NO. 3588
WASHINGTON STATE
EXPIRATION DATE 12/31/2016

MARK:	REVISION:	BY:	APPR:	DATE:

ATTACHMENT D - OFFER SHEET

Page 1 of 1

NWSA**ITB# 092026-1057****Title: Skid Mounted Mobile Shore Power Cable Reel**

All freight and delivery charges are to be included in the cost of the line item. US dollar pricing only.
Skid Mounted Mobile Shore Power Cable Reel to be delivered to Husky Terminal, Tacoma WA, 1101
Port of Tacoma Rd, Tacoma, WA 98421 United States.

Item #	Description	Est. Qty.	U/M	Unit Price (MANDATORY)	Total Extended Price (excluding sales tax)
1	Option 1 = New Skid Mounted Mobile Shore Power Cable Reel as Specified in Attachments C.	1	EA	\$	\$

Additional Pricing may be shown below for options not specified in the matrix. The NWSA may at its discretion add from this list of options.

Item #	Description	Est. Qty.	U/M	Unit Price (MANDATORY)	Total Extended Price (excluding sales tax)
1				\$	\$
2				\$	\$
3				\$	\$
4				\$	\$
5				\$	\$

1. It is MANDATORY that you provide a Unit Price. If there is an error between the Unit Price and Extended Price, the NWSA will correct the Extended Price.
2. The bid prices shall include and cover all duties, handling and transportation charges and all charges incidental to the requested work excluding Sales Tax or Use Tax. The offer shall agree to all NWSA contract Terms and Conditions without exception.
3. Do not mark, write-in or add any exceptions to the specifications, schedule, terms, or conditions. Do not attach alternative boilerplate. Any such exceptions can invalidate your Offer and the Buyer can reject your Bid.
4. If you make an error in typing your prices or any corrections to your Offer Submittal, you may mark it in ink and initial the correction. If it is not marked in ink and or initialled, the Buyer may reject your bid. Do not use whiteout.
5. Prompt Payment Discount: _____%____ days. Note: Prompt payment discount periods equal to or greater than 10 calendar days will receive consideration and bid pricing will be reduced for evaluation by the amount of that discount.
6. Interlocal Agreement: The NWSA has entered Interlocal Agreements with other governmental agencies pursuant to RCW 39.34, in lieu of those agencies conducting a separate competitive bid. Does Vendor agree to provide this product or service to such agencies?

ITB No. 092026-1057

Skid Mounted Mobile Shore Power Cable Reel

Yes: ☐ No ☐

Non-collusion: The undersigned declares under penalty of perjury that the bid/proposal submitted is a genuine and not a sham or collusive bid, or made in the interest or on behalf of any person or firm not therein named. That the bidder/Supplier has not directly or indirectly induced or solicited any bidder on the above work or supplies to put in a sham bid, or any other person or corporation to refrain from bidding. Lastly, that said bidder/Supplier has not in any manner sought by collusion to secure to the bidder an advantage over any other bidder or bidders.

Mailing Address, City, State, Zip Code

Telephone Number _____ Fax Number _____

Email Address _____

Washington State Supplier's License No. _____ Date of Issue _____

Expiration Date _____

DUNNS Number _____

Unified Business Identifier (UBI) No. _____

Federal Tax Id No _____

Full Legal Name of Company: _____

Signed By:

Printed Name: _____ Date: _____