

# Metro Transit - University Bridge Trolley Pole Replacement

KC001609

## Section 00 90 00 Addendum Number 1

Prospective bidders are hereby notified that the bidding documents have been amended as hereinafter set forth:

Ref.	Section and Page or Drawing	Location and Description of Change
		<b>VOLUME 1 OF 3</b>
1.1	§00 10 00	<b>INVITATION TO BID</b> <b>DELETE</b> section in its entirety and <b>REPLACE</b> with revised section attached to this addendum. Note: Bid Due Date has been extended.
1.2	§00 40 00-A	<b>FORM OF BID - BIDDING SCHEDULE</b> <b>DELETE</b> Bidding Schedule in its entirety and <b>REPLACE</b> with revised Bidding Schedule attached to this addendum. Note: Schedule D has been added.
1.3	§00 43-43	<b>WAGE RATES</b> <b>DELETE</b> section in its entirety and <b>REPLACE</b> with revised section attached to this addendum.
		<b>VOLUME 2 OF 3</b>
1.4	§01 10 00	<b>SUMMARY</b> <b>DELETE</b> section in its entirety and <b>REPLACE</b> with revised section attached to this addendum.
1.5	§01 29 00	<b>MEASUREMENT AND PAYMENT</b> <b>DELETE</b> section in its entirety and <b>REPLACE</b> with revised section attached to this addendum.
1.6	§34 23 13	<b>ELECTRICAL POLES: STRUCTURAL STEEL STRAIN POLES AND INSTALLATION</b> <b>DELETE</b> section in its entirety and <b>REPLACE</b> with revised section attached to this addendum.
		<b>VOLUME 3 OF 3</b>
1.7	ST6.01	<b>TROLLEY POLE REPLACEMENT SCHEDULE</b> <b>DELETE</b> sheet 27 of 43 in its entirety and <b>REPLACE</b> with revised sheet 27 of 43 attached to this addendum.

### Attached To This Addendum:

- §00 10 00 INVITATION TO BID, Addendum 1
- §00 40 00-A FORM OF BID – BIDDING SCHEDULE, Addendum 1
- §00 43 43 WAGE RATES, Addendum 1

- §01 10 00 SUMMARY, Addendum 1
- §01 29 00 MEASUREMENT AND PAYMENT, Addendum 1
- §34 23 13 ELECTRICAL POLES: STRUCTURAL STEEL STRAIN POLES AND INSTALLATION, Addendum 1
- ST6.01 TROLLEY POLE REPLACEMENT SCHEDULE, Addendum 1

This Addendum shall be attached to and form a part of the Contract Documents. All bidders are reminded to acknowledge this Addendum in the E-Procurement system before a bid can be accepted.

*Bidders are also reminded to review Clarification documents in the E-Procurement system for responses to timely submitted questions.*

Issued: 3/12/2026

**SECTION 00 10 00**  
**INVITATION TO BID**

**Contract Title:** Metro Transit - University Bridge Trolley Pole Replacement

**Synopsis:** The Work under this Contract includes the installation of temporary wood poles and anchors, installation of temporary and permanent feeder cables and conduits, removal of existing steel poles, and installation of new steel poles complete with new anchor bolts and base plates on the bridge. The Work also includes, but is not limited to, associated excavation and demolition, construction of concrete pole foundations, and installation of street and pedestrian lighting luminaires and conduits. All Work shall be performed in preparation for the removal and subsequent re-installation of the overhead trolley wire system by King County.

**Bid Due Date/Time:** ~~3/19/2026~~[3/25/2026](#) / 1:30:59 PM

**Bid Opening:** Bids will be opened and read as soon as practicable after the Bid Due Date/Time. The Bid Opening will be conducted via Microsoft Teams:

- **Join on your computer or mobile app:**  
[Click here to join the meeting](#)
- **Or call in (audio only)**  
+1-425-653-6586, Phone conference ID: 461 468 348#

**Request for Information:** Submit all inquiries via email to the Contract Specialist and cc the Alternate Contract Specialist. No verbal answers by any County personnel or its agents and consultants will be binding on the County.

**Contract Specialist:**

Kelly McKeever, [kelly.mckeever@kingcounty.gov](mailto:kelly.mckeever@kingcounty.gov) , 206-263-9389

**Alternate Contract Specialist:**

Annette Hansford, [ahansford@kingcounty.gov](mailto:ahansford@kingcounty.gov), 206-492-6395

**Engineer's Estimate:** \$4,300,000.00

**Work site:** The work location is within the City of Seattle's public right-of-way, above the water of an active shipping lane, in a high-density urban area with high count vehicular and pedestrian activity. The bridge is just east and at a lower elevation than the Interstate 5 (I-5) Ship Canal Bridge, and spans over the Lake Washington Ship Canal water connecting Lake Union to the west and Portage Bay to the east.

**Pre-Bid Conference:** 3/5/2026 / 1:00PM

The Pre-Bid Conference will be conducted via Microsoft Teams. Firms may attend the conference as follows:

- **Join on your computer or mobile app**  
[Click here to join the meeting](#)
- **Or call in (audio only)**  
+1-425-653-6586, Phone conference ID: 387 253 142#

**Subcontracting Opportunities:** Traffic Control; Temporary Facility Installation and Removal, and Structural Survey.

**Apprenticeship Requirements:** 15% minimum Apprentice Utilization Requirement.

**FSBE Requirement:** 10% minimum Federal Small Business Enterprise (FSBE) Requirement.

**Federal Funding:** This contract may be funded, in part, by the U.S. Department of Transportation, Federal Transportation Administration and is subject to the requirements set forth in Grant WA-2024-052-00 (APP 1731-2024-8) and incorporated by reference as if fully set forth herein. In accordance with the requirements of the Grant and with USDOT's policy on the utilization of Federal Small Business Enterprises (FSBEs) in procurement under assistance programs, the Contractor shall comply with 49 CFR PART 26. It is the policy of King County to ensure that FSBEs, as defined by 49 CFR PART 26, have an equal opportunity to receive and participate in DOT-assisted contracts. View policy statement [here](#).

**Bid Guaranty:** Not less than five percent (5%) of the Total Bid Price.

**Document Holders:** Document Holders list can be viewed at the following website: <https://kingcounty.gov/depts/finance-business-operations/procurement/for-business/solicitation-resources.aspx>

This information is available in alternate formats for individuals with disabilities upon advance request by calling 206-263-9400, TTY Relay: 711.

**Note:** Bids received after Bid Due Date/Time will not be considered. Bidders accept all risks of late delivery, regardless of fault. King County is not responsible for any costs incurred in response to this Invitation to Bid.

**END OF SECTION**

**00 40 00-A FORM OF BID  
BIDDING SCHEDULE  
METRO TRANSIT - UNIVERSITY BRIDGE TROLLEY POLE REPLACEMENT**

Name of Bidder

Bid Item	Item Description	Unit	Est. Qty.	Unit Price	Lump Sum / Extended Amount
<b>SCHEDULE A</b>					
A1	Total Bid Price to perform all work identified in the Contract Documents with the exception of Bid Item A2, B1, B2, C1 and D1.	LS			\$
A2	Trench Excavation Safety System	LS			\$
<b>TOTAL SCHEDULE A BID PRICE (SUM OF BID ITEMS A1 - A2)</b>					<b>\$</b>
<b>SCHEDULE B - UNKNOWN SITE CONDITIONS</b>					
B1	Unknown Site Conditions-Potholing via Vactor Truck	HR	50	\$	\$
B2	Unknown Site Conditions-Locating existing rebar or existing structural steel material using non-destructive method	HR	45	\$	\$
<b>TOTAL SCHEDULE B BID PRICE (SUM OF BID ITEMS B1 - B2)</b>					<b>\$</b>
<b>SCHEDULE C - ALLOWANCE</b>					
C1	Allowance on Unknown Site Conditions other than Bid Items B1 and B2	AL			\$ 50,000.00
<b>TOTAL SCHEDULE C BID PRICE</b>					<b>\$</b>
<b>SCHEDULE D - PEDESTRIAN LIGHTS</b>					
D1	Pedestrian Lights	LS			\$
<b>TOTAL SCHEDULE D BID PRICE</b>					<b>\$</b>
<b>TOTAL BID PRICE (Sum of Bid Items A1, A2, B1, B2, C1, and D1)</b>					<b>\$</b>

**SECTION 00 43 43  
WAGE RATES**

**FEDERAL WAGE DETERMINATIONS ESTABLISHED BY THE DEPARTMENT OF LABOR  
FOR THE STATE OF WASHINGTON  
AND  
PREVAILING MINIMUM HOURLY WAGE RATES ESTABLISHED BY THE WASHINGTON  
STATE DEPARTMENT OF LABOR AND INDUSTRIES**

1. This section contains the federal wage determination(s) as well as the instructions to obtain the Washington State Prevailing wage rates.
  - a) In the event of a difference between federal and state rates and requirements, the Contractor shall pay the higher rate(s) and the cost of such compliance shall be deemed included in the Contract Price.
  - b) In accordance with Section 00 72 00, the Contractor shall indemnify and hold King County harmless from any claims related to the payment or non-payment of such wages by the Contractor.
2. Information for Washington State Prevailing Wage Rates for this solicitation is as follows:
  - a) Access the Washington State Labor and Industries Website at:  
<https://secure.lni.wa.gov>
  - b) The wage rates and corresponding benefit codes for this solicitation shall be those in effect as of: ~~3/19/2026~~[3/25/2026](#).
  - c) The work of this contract shall take place in King County.  
Note: Off-site work shall use the rates for the County where that off-site work is performed.
  - d) A copy of the prevailing wage rates for this project are available for review from King County Procurement & Payables office by contacting the Contract Specialist via email. Any questions regarding the state prevailing wage determinations should be addressed to:  
  
Industrial Statistician  
Department of Labor and Industries  
Prevailing Wage Office  
PO Box 98504-4540  
Olympia, WA 98504-4540  
Phone: 360-902-5335  
<https://secure.lni.wa.gov/wagelookup/ratespublication.aspx>
3. Current federal wage determinations established by the Department of Labor for the State of Washington are attached to this section.
  - a) Any questions regarding the applicable wage determinations should be addressed to:  
  
Administrator of the Wage and Hour Division,  
Branch of Construction Contract Wage Determination,  
Employment Standards Administration,  
Washington, D.C. 20210.
  - b) Refer to the Supplemental Terms and Conditions, Section 00 73 00 for additional information.
  - c) Obtain Davis Bacon rates at the hyperlink: <https://sam.gov>

**END OF SECTION**

## SECTION 01 10 00

### SUMMARY

#### PART 1 GENERAL

##### 1.01 SUMMARY

- A. Section Includes:
1. Project Information
  2. Work Covered by Contract Documents
  3. Type of Contract
  4. Construction Sequence and Work Constraints
  5. Construction Sequence
  6. Contract Time
  7. Coordination of Work
  8. Work Under Separate Contracts
  9. Access to Site, Use and Restrictions
  10. Liquidated Damages

##### 1.02 PROJECT INFORMATION

- A. Project Title: King County Metro Transit, University Bridge Trolley Pole Replacement.
- B. Project Location: The University Bridge is located in the right-of-way of Eastlake Avenue East between Portage Bay Place East at the south and Northeast Northlake Way/Northeast Pacific Street at the north in Seattle.
- C. Project Location Description: The work location is within the City of Seattle's public right-of-way, above the water of an active shipping lane, in a high-density urban area with high count vehicular and pedestrian activity. The bridge is just east and at a lower elevation than the Interstate 5 (I-5) Ship Canal Bridge, and spans over the Lake Washington Ship Canal water connecting Lake Union to the west and Portage Bay to the east.
- D. The County Project Representative (Project Representative): The Project Representative or their designee will oversee all Work of the Contract ensuring that the Contractor and all subcontractors comply with Contract requirements. Provide all submittals and other documentation to this Representative.
1. All references to the Project Representative in these Contract Documents refer to this Representative.

### 1.03 REFERENCE MATERIALS

- A. Reference materials relevant to the project are provided for informational purposes only and are not to be considered Contract Documents.
- B. Reference Materials are available on the County's E-Procurement site along with the Contract Documents for this solicitation at:

<https://kingcounty.gov/procurement/supplierportal>

- C. For the Work related to the Contract, the following are available Reference Materials:

- 1. University Bridge Design Plans-782-59

### 1.04 WORK COVERED BY CONTRACT DOCUMENTS

- A. The general elements of the project include the items below, as detailed in these Contract Documents:

- 1. Mobilization and traffic control.
- 2. Hazardous waste assessment.
- 3. Temporary facilities and environmental controls.
- 4. Overhead trolley wire removal by King County.
- 5. Excavation and Demolition.
- 6. Waste diversion and salvage requirements.
- 7. Selective demolition:
  - a. Joint use trolley and lighting poles
  - b. Street and pedestrian lighting luminaires.
  - c. Base plates and anchorage.
  - d. Concrete pole foundations.
  - e. Curbs, sidewalk and roadway as necessary to complete the Work.
  - f. Electrical service as Required by the Work.
- 8. Transportation of King County supplied items as indicated in the Contract Drawings:
  - a. Items will be located at King County Metro Transit facilities within 15 miles of the University Bridge.
  - b. Coordinate with Project Representative for material pickups.
- 9. Installation of new:
  - a. Concrete pole foundations.
  - b. Base plates and anchorage.
  - c. New poles and joint use poles.

- d. New street and pedestrian lighting luminaires. [Pedestrian lighting luminaires will be covered under Schedule D - Pedestrian Lights.](#)
- 10. Restoration of impacted curbs, sidewalk and roadway.
- 11. Preparation for overhead trolley wire system reinstallation By King County.
- 12. Electrical service restoration as required by the Work.
- 13. Project Record and Asset Documentation.

B. Work shall conform to the Contract Drawings and Specifications as follows:

1. The Technical Specifications for this Contract shall complement the requirements imposed by local jurisdictions and authorities whenever said requirements are shown on the Contract Drawings or listed as conditions for applicable Permits.
2. In case of conflict between the requirements in the Technical Specifications and the requirements imposed by local jurisdictions and authorities, the most stringent shall apply.
3. The Technical Specifications incorporate by reference selected Sections in the *2023 Standard Specifications for Road, Bridge, and Municipal Construction* published by the City of Seattle ("City of Seattle Standard Specifications"). Unless expressly stated otherwise, if an incorporated Section cross-references another Section in the City of Seattle Standard Specifications, the cross-referenced Section shall also apply.
4. King County's Division 00 and 01 files in this contract take precedence over cross-references in the City of Seattle Standard Specifications to City of Seattle Division 00 and 01. Measurement and payment shall be per the County's Division 00 and 01.

#### 1.05 TYPE OF CONTRACT

- A. Project will be executed under one Lump Sum Contract.

#### 1.06 CONSTRUCTION SEQUENCE AND WORK CONSTRAINTS

- A. Provide temporary equipment, provisions, and construction sequencing as required to ensure the continuous operation of the bascule bridge for the duration of the Contract. Once the Work has commenced, it shall continue in an uninterrupted manner during scheduled and approved working hours until completion, except blackout dates specified by the City of Seattle's Department of Transportation, including but not limited to:
1. University Street Fair
  2. Cherry Blossom Festival
  3. University of Washington Commencement
  4. FIFA World Cup 2026

- B. During the period which begins 7 Calendar Days Prior to the first scheduled 2026 FIFA World Cup game event in Seattle and ends 7 Calendar Days after the last scheduled game event in Seattle, there will be no roadway closures, lane closures, or sidewalk closures allowed.
- C. Work shall not begin without SDOT Construction Hub Coordination. Hub Coordination has a typical 10-day review cycle to receive comments.
- D. The Contractor will be required to follow approved haul routes designated by Seattle Commercial Vehicle Enforcement. [DOT\\_CVEO@seattle.gov](mailto:DOT_CVEO@seattle.gov)
- E. The Contractor must maintain full access to sidewalks, bus stations, driveways, and alleyways, for the duration of the Contract. The Contractor must provide initial notification of a potential restriction or closure, to the Project Representative, a minimum of 15 business days in advance of such closure along with a proposal for providing accommodations for alternate access, for approval. No full bridge closure is allowed without an approved Detour Plan.
- F. Comply with the requirements of these Contract Documents.

#### 1.07 CONSTRUCTION SEQUENCE

- A. The Work shall be completed by stages defined on the Drawings as the Suggested Construction Sequence, summarized as follows.
  - 1. Stage 1: Trolley OCS Removal on the Bridge.
    - ~~a. Temporary Pole Placement by Contractor.~~
    - ~~b. Overhead Catenary System Removal by Metro.~~
  - 2. Stage 2: Pole Replacement on One Side of the Bridge.
  - 3. Stage 3: Shift Construction to the Opposite side of the Bridge.
  - 4. Stage 4: Metro Installs Overhead Catenary System Wires.
  - 5. Stage 5: Contractor Removes Temporary Provisions.

#### 1.08 CONTRACT TIME

- A. Achieve Substantial Completion as defined in the General Terms and Conditions no later than 250 calendar days after the effective date of the "Notice to Proceed" letter.
- B. Upon execution of the Contract, the Contractor and the County shall collaborate to establish a mutually agreed-upon Notice to Proceed date.
- ~~B.C.~~ Achieve Final Acceptance no later than 60 days following issuance of Substantial Completion.

## 1.09 COORDINATION OF WORK

- A. Project Coordination: All pre-construction and construction work shall be coordinated through the Project Representative and shall be performed as required to minimize disruptions to existing facilities and properties in the vicinity of or adjacent to the Work.
  - 1. Provide advance notice of Work impacts to Metro, City of Seattle, and other jurisdictional authorities in accordance with their requirements.
  - 2. Comply with the requirements of these Contract Documents for permitting and construction communication.
- B. Coordinate with and schedule Trolley Overhead System Work in compliance with the requirements of King County Metro.
  - 1. Information regarding system impacts must be provided to King County Metro System Impacts Group, phone 206.477.1140 or 206.477.1150, website <https://kingcounty.gov/en/dept/metro/about/contractor-resources/transit-system-impacts> for notification information and guidelines.
  - 2. Trolley Overhead System Work [for Stage 1b and Stage 4](#) is limited to weekends only and must be scheduled a minimum of [twenty \(20\) business days](#) ~~three weeks~~ in advance. [Stage 1b work will require a minimum of four \(4\) weekends. Stage 4 work will require a minimum of six \(6\) weekends.](#)
- C. Project Schedule: Conform to the requirements of Section 013200 “Construction Progress Documentation”.
- D. Contractor Representative: The Contractor will provide a representative in accordance with the requirements of Section 00 72 00. Official project communication shall be conducted between the Contractor representative and the Project Representative.
- E. Project Meetings: The Project Representative will schedule and conduct meetings and conferences at the project site, including but not limited to a pre-construction conference, a pre-installation conference, and progress meetings on a bi-weekly basis or as needed during the Work.
  - 1. The preconstruction conference will be held before starting Work and pre-installation conference will be held prior to commencing field Work.
  - 2. Attendees shall include, at a minimum, representative of the Contractor, key subcontractors, and Project Representative.

## 1.10 WORK UNDER SEPARATE CONTRACTS

- A. General: Other contracts or agency work may occur adjacent to the Work within or overlapping the duration of this Contract.
- B. Cooperate fully with other contractors and agencies so their work may be carried out smoothly, without interference or delay.

1.11 ACCESS TO SITE, USE AND RESTRICTIONS

- A. General: Contractor shall have limited use of Project site for construction operations as indicated on Drawings by the Contract limits and as indicated by requirements of this Section.
- B. Contractor Vehicles On-Site: Parking shall be restricted per the requirements of permit(s) to be obtained by the Contractor. Refer to Section 01 41 26 "Permits, Licenses, Easements, and Rights of Way".
- C. Use of Site: Contractor shall have limited use of project site for construction activities. Establish Work staging area and travel paths prior to commencing construction, in compliance with requirements of permit(s) from jurisdictional authorities. Notify Project Representative of approved permits, in accordance with the requirements of these Contract Documents.
- D. Work Hours: Limit Work to normal business working hours from 6 a.m. to 6 p.m. Monday through Friday, unless otherwise specified in these Contract Documents or Approved Permit Conditions, including the following restrictions:
  - 1. If work hours outside normal hours are needed, submit a schedule of working hours outside normal work hours no less than Twenty (20) five (5) business days in advance for approval by the Project Representative.
- E. Work Requiring System Shutdown - Work that requires shutdown of equipment, systems, or power supplies shall be performed on weekends in coordination with Project Representative and shall be conducted to minimize duration of shutdown.
  - 1. Notify the Project Representative not less than Twenty (20) business days 72 hours in advance of activities that will affect the County's operations.
  - 2. Comply with the requirements of these Contract Documents.

1.12 LIQUIDATED DAMAGES

- A. Failure to achieve Substantial Completion within the Contract Time will result in liquidated damages assessed against the Contractor in the amount of \$6,996.00 per day for each day beyond the number of days established for Substantial Completion of the Work.
- B. Failure to achieve Final Acceptance within the Contract Time will result in liquidated damages assessed against the Contractor in the amount of \$2,308.00 per day for each day beyond the number of days established for Final Acceptance of the Work.

**PART 2      PRODUCTS      NOT USED**

**PART 3      EXECUTION      NOT USED**

**END OF SECTION**

## SECTION 01 29 00

### MEASUREMENT AND PAYMENT

#### PART 1 GENERAL

##### 1.01 SUMMARY

- A. Section includes specific requirements for the method of measurement and basis of payment to make an Application for Payment for work performed.

##### 1.02 MEASUREMENT & PAYMENT FOR WORK PERFORMED

- A. Payment will be made in accordance with Schedule of Values for work completed and accepted by the Project Representative.

##### 1.03 SCHEDULE OF VALUES

- A. Definition: Schedule of Values: A statement furnished by Contractor allocating portions of the Contract Work Order Sum to various portions of the Work and used as the basis for reviewing Contractor's Applications for Payment.
- B. General: This Article specifies the criteria for establishing a Schedule of Values for the Work performed under this Contract, and specific conditions for payment against those scheduled values.
- C. Coordination: Coordinate preparation of the Schedule of Values with preparation of Contractor's construction schedule:
  - 1. Coordinate line items in the Schedule of Values with other required administrative forms and schedules, including the following:
    - a. Application for Payment forms with continuation sheets.
    - b. Submittal schedule.
    - c. Items required to be indicated as separate activities in Contractor's Construction Schedule.
  - 2. Submit the Schedule of Values to the Project Representative.
  - 3. The Schedule of Value line items shall have a direct correlation to the Activities on the Construction Schedule, at a minimum. No single line item in the Schedule of Values shall exceed \$20,000 without the approval of the Project Representative. Provide additional line items as required per the Contract Work Order and as required by the PR to provide sufficient detail to facilitate evaluation of Applications for Payments.
  - 4. The following values will be specifically identified in the Schedule of Values: (percentages are determined by the total contract value and determination of full or partial payments will be by the Project Representative)
    - a. Mobilization: The value allocated to all mobilization activities shall not be more than 3 percent of the Contract Value.

- b. De-Mobilization: The value allocated to all de-mobilization activities shall not be less than 2 percent of the Contract Value.
- c. Final Contractor deliverables from Operations and Maintenance Manuals (Section 01 78 23), Project Record Documents (Section 01 78 39), Final Construction Waste Management Submittals (Section 01 74 19). The value allocated for these Contract requirements shall be at least 4 percent of the Contract Value.

#### 1.04 APPLICATIONS FOR PAYMENT

- A. Each Application for Payment following the initial Application for Payment shall be consistent with previous applications and payments, as certified by the Project Representative.
  - 1. Initial Application for Payment, Application for Payment at time of Substantial Completion, and final Application for Payment involve additional requirements.
- B. Submit Application for payment forms for approval to the Project Representative with initial submittal of Schedule of Values.
- C. Application Preparation: Complete every entry on form. Notarize and execute by a person authorized to sign legal documents on behalf of Contractor. Project Representative will return incomplete applications without action.
  - 1. Entries shall match data on the Schedule of Values and Contractor's construction schedule. Use updated schedules if revisions were made.
  - 2. Include amounts for work completed following previous Application for Payment, whether or not payment has been received. Include only amounts for work completed at time of Application for Payment.
  - 3. Include amounts of Change Orders and Construction Change Directives issued before last day of construction period covered by application.
  - 4. Indicate separate amounts for work being carried out under the County-requested project acceleration.
  - 5. Affirm that:
    - a. Project drawings and models at site have been updated with accepted change orders, and (add other information format; RFI S=ASI or other)
    - b. As built record drawings are being created as the work progresses and that construction information is recorded within 30 days of completion.
- D. Stored Materials: Include in Application for Payment amounts applied for materials or equipment purchased or fabricated and stored but not yet installed. Differentiate between items stored on-site and items stored off-site.
  - 1. Provide certificate of insurance, evidence of transfer of title to the County, and consent of surety to payment for stored materials.
  - 2. Provide supporting documentation that verifies amount requested, such as paid invoices. Match amount requested with amounts indicated on documentation; do not include overhead and profit on stored materials.
  - 3. Provide summary documentation for stored materials indicating the following:

- a. Value of materials previously stored and remaining stored as of date of previous Applications for Payment.
  - b. Value of previously stored materials put in place after date of previous Application for Payment and on or before date of current Application for Payment.
  - c. Value of materials stored since date of previous Application for Payment and remaining stored as of date of current Application for Payment.
- E. Transmittal: Submit three signed and notarized original copies of each Application for Payment to Project Representative by a method ensuring receipt within 24 hours. One copy shall include waivers of lien and similar attachments if required.
1. Transmit each copy with a transmittal form listing attachments and recording appropriate information about application.
- F. Initial Application for Payment: Administrative actions and submittals that must precede or coincide with submittal of first Application for Payment include the following:
1. List of subcontractors.
  2. Schedule of Values.
  3. Contractor's construction schedule per Section 01 77 00 "Closeout Procedures" and Section 01 32 00 "Construction Progress Documentation".
  4. Sustainable design action plans, including preliminary project materials cost data.
  5. Submittal schedule (preliminary if not final).
  6. List of Contractor's staff assignments with emergency contact information.
  7. List of Contractor's principal consultants.
  8. Copies of building permits.
  9. Copies of authorizations and licenses from authorities having jurisdiction for performance of the Work.
  10. Initial progress report.
  11. Report of preconstruction conference.
- G. Application for Payment at Substantial Completion:
1. Complete administrative actions, submittals, and Work preceding this application, as described in Section 01 77 00 "Closeout Procedures."
  2. This application shall reflect Certificate(s) of Substantial Completion issued previously for County [occupancy] of designated portions of the Work.
- H. Final Payment Application: After completing Project closeout requirements, submit final Application for Payment with releases and supporting documentation not previously submitted and accepted, including, but not limited, to the following:
1. Evidence of completion of Project closeout requirements.
  2. Certification of completion of final punch list items.
  3. Insurance certificates for products and completed operations where required and proof that taxes, fees, and similar obligations were paid.
  4. Updated final statement, accounting for final changes to the Contract Sum.

5. Evidence that claims have been settled.
  6. Final meter readings for utilities, a measured record of stored fuel, and similar data as of date of Substantial Completion or when the County took possession of and assumed responsibility for corresponding elements of the Work.
  7. Final liquidated damages settlement statement.
  8. Proof that taxes, fees, and similar obligations are paid.
  9. Waivers and releases.
- I. Lump Sum Basis: Work performed which is payable on a lump sum basis shall be measured for payment by percentage of work completed at the time each pay request is submitted.
  - J. Indirect costs, such as supervision and overheads, profit, and the general conditions specified in the Contract shall be equitably spread between each schedule of value item. No separate payment will be made to the Contractor for these items.

#### 1.05 BID ITEM MEASUREMENT AND PAYMENT

- A. The Bidding Schedule is divided into bid items which represent the entire scope of work covered by the Contract Documents, as defined in Section 00 40 00 "Form of Bid". Comply with requirements specified in Section 00 40 00.
- B. Schedule A Lump Sum Items: Perform all work as specified and shown in the Contract Documents to construct improvements specified below. Payment will be made in accordance with Schedule A Lump Sum Items for the Work completed and accepted by the Project Representative.
  1. Bid Item A1 - Work under Schedule A. Lump Sum Items shall include, but not be limited to, the performance, provision, and/or installation of the following:
    - a. Labor, superintendence, materials, equipment, planning, mobilization, site preparation, temporary construction facilities, sustainable design requirements, temporary site fencing, traffic control including flaggers, uniformed police officers, temporary bus stops, property restoration, stormwater and erosion control, and all construction work in compliance with all permit conditions, except for Work that is included under other bid items, for the lump sum price as indicated. Measurement and payment shall be based on the Schedule of Values percentage of completion method.
  2. Bid Item A2 - Trench Excavation Safety System Lump Sum.
    - a. The Contractor shall provide and maintain a trench excavation safety system at each location requiring protective systems, including shoring, shielding, and support systems for trench excavations that exceed four feet as defined in WAC 296-155-657, conforming to the requirements of RCW 39.04.180 (Trench Excavations – Safety systems required), Chapter 49.17 RCW (Washington Industrial Safety and Health Act), and WAC 296-155-650 (Excavation, Trenching, and Shoring). The costs of these safety systems shall not be considered as incidental to any other Contract item and any attempt to include the trench safety systems as an incidental cost is prohibited.

C. Schedule B Site Conditions Discovery Methods. These bid items shall only be used at the direction of the Project Representative. The Contractor will be paid for actual work performed using the Unit Price Method in accordance with Section 00 72 00, Article 6, as authorized by the Project Representative. If work under a Schedule B bid item is not performed or required, the Contractor will not be paid. If work exceeds the stated quantity in the bid item, the Contractor will be paid per actual work performed.

1. Bid Item B1 - Unknown Site Conditions: Potholing via Vactor Truck, per hour.
  - a. This bid item shall be used at the direction of the Project Representative. Payment shall be based on actual hours performed work by the potholers on site.
    - i. Costs such as equipment, tools, traffic control, flaggers, overhead, profit and other incidental costs shall be included in the unit price.
    - ii. The unit price shall be full compensation for all costs incurred to carry out the requirements of Contract Specifications except for those costs included in other items which are included in this Schedule.
2. Bid Item B2 - Unknown Site Conditions: Locating existing rebar or existing structural steel material using non-destructive methods per hour.
  - a. This bid item shall be used at the direction of the Project Representative. Payment shall be based on actual hours performing work by the company/operator for non-destructive method on site.
    - i. Costs such as equipment, tools, traffic control, flaggers, overhead, profit and other incidental costs shall be included in the unit price.
    - ii. The unit price shall be full compensation for all costs incurred to carry out the requirements of Contract Specifications except for those costs included in other items which are included in this Schedule.

D. Schedule C Allowance Item. Bid item C1 shall only be used at the direction of the Project Representative. The Contractor will be paid for actual work performed using the [Time and Materials](#) Method in accordance with Section 00 72 00, Article 6.2 F, as authorized by the Project Representative. If work under Schedule C bid item is not performed or required, the Contractor will not be paid. If work exceeds the stated quantity in the bid item, the Contractor will be paid per actual work performed.

1. Bid Item C1 - Allowance on Unknown Site Conditions - All Others.
  - a. This bid item shall only be used at the direction of the Project Representative. The Contractor will be entitled to reimbursement of the actual cost of these items plus markups.

E. Schedule D Pedestrian Lights. Bid item D1 shall only be used at the direction of the Project Representative. The County intends to exempt the pedestrian lights from BABA under USDOT's 2023 *de minimis* waiver for non-compliant manufactured products. The Contractor will be paid for actual work performed using the Lump Sum Method in accordance with Section 00 72 00, Article 6.2, as authorized by the Project Representative. If work under Schedule D bid item is not performed or required, the Contractor will not be paid.

1. Bid Item D1 – Pedestrian Lights - Lump Sum Purchase and Install.
  - a. This bid item shall be used at the direction of the Project Representative. Payment shall be based on Lump Sum amount for purchase and install including but not limited to the following.

b. Labor, superintendence, materials, equipment, planning, mobilization, site preparation, temporary construction facilities, sustainable design requirements, temporary site fencing, traffic control including flaggers, uniformed police officers, temporary bus stops, property restoration, stormwater and erosion control, and all construction work in compliance with all permit conditions, except for Work that is included under other bid items, for the lump sum price as indicated. Measurement and payment shall be based on the Schedule of Values percentage of completion method.

1.06 CONTRACT AMENDMENTS

- A. Upon approval of Change Orders, values for items contained within those Contract Changes will be incorporated into the project Schedule of Values.

**PART 2 PRODUCTS - NOT USED**

**PART 3 EXECUTION – NOT USED**

**END OF SECTION**

## SECTION 34 23 13

### ELECTRICAL POLES: STRUCTURAL STEEL STRAIN POLES AND INSTALLATION

#### PART 1 GENERAL

##### 1.01 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including “General Terms and Conditions, Supplementary Terms and Conditions”, Division 01 and Technical Specification Sections, apply to this Section.

##### 1.02 SUMMARY

- A. Section includes:
  - 1. Installation of steel strain poles per the Contract drawings and King County Trolley Overhead Standard SA drawings.
- B. Applicable Standards: Pertinent provisions of the following standards shall apply to this Section, except as modified herein, and are hereby made part of these Specifications to the extent required:
  - 1. “City of Seattle Street Illustrated.
  - 2. “Seattle Right-of-Way Improvements Manual” current edition.
  - 3. “City of Seattle Standard Specifications for Road, Bridge and Municipal Construction” (Seattle Standard Specifications), 2023 edition.
  - 4. City of Seattle Standard Plans for Municipal Construction (Seattle Standard Plans), 2023 edition.
  - 5. King County Trolley Overhead Standards SA Drawings, latest edition.
  - 6. King County Trolley Standards SP Drawings, latest edition.

##### 1.03 DEFINITIONS:

- A. Structural Steel Strain Joint Use Pole: A pole supporting King County overhead trolley line system contact attachments, in addition to street light(s) and/or traffic signals, signs and cables, telephone cables, power cables, and television cables.

##### 1.04 REFERENCES

- A. The current revision of the following documents is referenced, as specified and/or modified in this Section. In the case of conflict between the requirements of this Section and those of the following documents, the more stringent requirements shall prevail.
  - 1. American Society for Testing and Materials (ASTM)

- a. ASTM 780 - Repair of Damaged and Uncoated Areas of Hot-Dip Galvanized Coatings.
    - b. ASTM F593-13a - Stainless Steel Bolts, Hex Cap Screws, and Studs.
  - 2. Society for Protective Coatings (SSPC)
    - a. SSPC SP-1 - Solvent Cleaning
    - b. SSPC SP-6/NACE No.3 - Commercial Blast Cleaning
- 1.05 PRE-INSTALLATION MEETING
- A. Pre-installation Conference: Conduct conference at Project Site.
- 1.06 QUALITY ASSURANCE (FOR INFORMATION ONLY)
- A. Inspection by the Project Representative
  - B. Provisions shall be made for inspection of the fabrication and testing by the Project Representative. Two weeks advance notice shall be provided.
- 1.07 PRODUCT HANDLING
- A. The poles, pole cap sets, handhole covers sets, bracket arms and other accessories shall be handled and transported in a manner to preclude damage of any kind.

## PART 2 PRODUCTS

### 2.01 MATERIALS

- A. Steel Poles:
  - 1. King County shall furnish steel poles with luminaire flange plates, [lighting bracket arm](#), [pedestrian lighting bracket](#), [traffic sign mast arm](#), handhole, [handhole covers](#), festoon outlets, cable outlet details, [pole caps](#), and [associated hardware](#), in accordance with the requirements of City of Seattle Standard Plans No. 563.1a and 563.1b and the King County Metro Standard Plans SP.
  - 2. The pole manufacturer shall add pole numbers to the bottom of each pole for identification.
- B. Anchor Bolts, Plates, Nuts, and Washers (~~See Section 03-30-00, Cast-in-Place Concrete~~) shall be supplied by [King County and installed by](#) the ~~contractor~~ [Contractor](#).
- C. Grout shall be Burke Non-Ferrous Non-Shrink Grout, or approved equal.
- D. Zinc-rich paint shall conform to Federal Specification TT-P-641, Type II; and shall be Tnemec-Zinc Series 81 as manufactured by Tnemec Co., Inc.; Carbo-Zinc manufactured by Carboline; or approved equal.
- E. Galvanizing repair compound shall conform to Federal Specification No. DOD-O-21035; and shall be "Galvanox" as manufactured by Subox, Inc.; "Cold Galvanizing Compound"

as manufactured by ZRC Chemical Products Co.; or approved equal. No spray galvanizing shall be permitted. Use only brush on cold galvanizing.

### **PART 3 EXECUTION**

#### **3.01 DELIVERY, STORAGE AND HANDLING**

- A. Steel Poles and anchor bolts shall be delivered by the Contractor to the site complete with associated fittings and accessories, properly packed and protected against damage and loss of parts during delivery to storage area and Work sites.
- B. Steel Poles and anchor bolts shall be stored on wood dunnage a minimum of 4" above ground. Painted poles shall be wrapped or covered to protect paint.

#### **3.02 CONSTRUCTION**

##### **A. Steel Pole Setting**

##### **1. General**

- a. Anchor base steel poles shall be installed as located on the Contract Plan Drawings and in accordance with Contract Detail Drawings, ~~T2.00/SA 2.00 and T2.00/SA 2.01~~

##### **2. Anchor Base Steel Poles**

- a. Anchor base steel poles shall be raked by means of double nuts and washers applied above and below the pole base plate.
- b. Anchor bolt threads shall be coated or wrapped, without damaging the threads, to protect them from grout or concrete.
- c. Grouting underneath the base plate shall be done as required by the Contract Drawings.

##### **3. Handholes**

- a. Handhole orientation shall be verified by the Project Representative prior to installation.
- b. Contractor to install Handhole cover.

##### **4. Adjacent Sidewalk Concrete**

- a. Adjacent sidewalk concrete replaced as a part of this project shall be graded for drainage away from the poles, to the extent possible in conformance with the Applicable Standards in this Section.

##### **5. Additional Requirements**

- a. The Contractor shall verify that pole caps have been installed on all poles prior to setting of the pole.

- b. Where the pole is intended for joint use with other utilities or agencies, the Contractor shall coordinate with those utilities and agencies prior to erection of the pole, as indicated on the Contract Drawings.
  - c. The Contractor shall exercise care during erection of poles to prevent disfigurement. All imperfections on the steel poles shall be repaired as necessary to restore pole to condition acceptable by the Project Representative.
  - d. Caution is advised during steel pole erection to prevent damage to trees, contact with other overhead, and possibly energized utilities.
  - e. All steel poles installed by the Contractor shall be grounded per the Contract Detail sheets [and King County SA Standard Drawings](#), ~~T2.00, T2.01 SA-213, and SA-211.~~
  - f. Poles shall not be installed unless it can be shown that the concrete has reached a specified compressive strength of 4000 psi or greater.
  - g. Poles shall be installed by the contractor.
  - ~~h. Pole identification tags shall be installed by the Contractor as detailed in the King County SP drawings.~~
- B. Pole removal and disposal of existing poles shall be performed in accordance with Section 02 41 19 Selective Demolition.

### 3.03 FIELD REPAIR

- A. Damage to the galvanized coating of delivered poles, fittings, and accessories shall be repaired using the specified zinc repair paint. The zinc repair paint shall be applied in accordance with the manufacturer's instructions and recommendations. Poles, fittings, and accessories shall be touched up by the Contractor within five days after delivery.
- B. Damage to the paint of delivered poles and accessories shall be repaired per the paint manufacturer's recommendations.

**END OF SECTION**

POLE AND FOUNDATION SCHEDULE							
POLE NUMBER ON PLAN	ASSET NUMBER ON TAG	POLE TYPE	POLE DESIGNATION	FOUNDATION TYPE	POLE STATION	POLE OFFSET	EX. SIGNS ON POLE
1E	23E-161	SA-203-2	M, SL	SA-213-A	0+68.40	30.25 RT	
2E	23E-159	SA-203-2	M, PL	TYPE A	1+49.5	30.25 RT	ONE NO DRINK AND DRIVE SIGN
4E	23E-152	SA-203-2	M, SL	TYPE A	7+03	30.25 RT	
5E	23E-151	SA-203-2	M, PL	TYPE A	7+82.5	30.25 RT	
6E	23E-150	SA-203-2	M	TYPE A	8+62	30.25 RT	
7E	23E-149	SA-203-2	M, PL	TYPE A	9+41.5	30.25 RT	
8E	23E-148	SA-203-2	M, SL	TYPE A	10+19	30.25 RT	
9E	23E-147	SA-203-2	M, PL	TYPE A	10+94	30.25 RT	
10E	23E-145	SA-203-2	M	TYPE A	11+69	30.25 RT	
11E	23E-143	SA-203-2	M, PL	TYPE A	12+14	30.25 RT	FOUR GREEN DIRECTION SIGNS
13E	23E-141	SA-203-2	M, PL	TYPE B	13+95	30.25 RT	
14E	23E-140	SA-203-2	M, SN	TYPE B	14+70	30.25 RT	ONE GREEN AND TWO YELLOW SIGNS
15E	23E-139	SA-203-2	M, SL, PL	TYPE B	15+53	30.25 RT	ONE RIGHT TURN STOP SIGN
16E	23E-138	SA-203-2	M, PL	TYPE B	15+97.00	30.25 RT	
1W	23E-156	SA-203-2	M, PL	SA-213-A	0+68.40	30.25 LT	
2W	23E-155	SA-203-2	M, SL, F	TYPE A	1+49.5	30.25 LT	
3W	23E-153	SA-203-2	M, PL	TYPE A	2+49.5	30.25 LT	
4W	23E-137	SA-203-2	M, PL	TYPE A	7+03	30.25 LT	ONE BLUE AND ONE YELLOW SIGN
5W	23E-136	SA-203-2	M	TYPE A	7+82.5	30.25 LT	ONE YIELD TO PEDESTRIAN SIGN
6W	23E-135	SA-203-2	M, SL, PL	TYPE A	8+62	30.25 LT	
7W	23E-134	SA-203-2	M	TYPE A	9+41.5	30.25 LT	
8W	23E-133	SA-203-2	M, PL	TYPE A	10+19	30.25 LT	
9W	23E-132	SA-203-2	M	TYPE A	10+94	30.25 LT	
10W	23E-131	SA-203-2	M, SL, PL	TYPE A	11+69	30.25 LT	
11W	23E-130	SA-203-2	M	TYPE A	12+14	30.25 LT	
12W	23E-128	SA-203-2	M, PL	TYPE B	13+20	30.25 LT	ONE YIELD TO PEDESTRIAN SIGN
13W	23E-127	SA-203-2	M, F	TYPE B	13+95	30.25 LT	
14W	23E-126	SA-203-2	M, SL, F	TYPE B	14+70	30.25 LT	
15W	23E-124	SA-203-2	M, PL	TYPE B	15+53	30.25 LT	ONE SPEED LIMIT SIGN
16W	23E-122	SA-203-2	M, PL	SA-213-A	15+97.00	30.25 LT	ONE WAY SIGN
S1	23E-125	SA-201Z	M	SEE POLE FOUNDATION NOTES	14+13	33.50 RT	
S2	23E-123	SA-201Z	M	SEE POLE FOUNDATION NOTES	14+13	33.50 LT	

**POLE SCHEDULE NOTES**

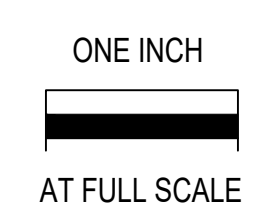



- POLE MANUFACTURER SHALL DESIGN POLE BASED ON THE DATA SHOWN HERE AND IN CONFORMANCE TO THE KING COUNTY METRO STANDARD PLAN SA AND SP DRAWINGS AND SPECIFICATIONS.
- MINIMUM WALL THICKNESS SHALL BE 3 GAGE. WALL SHALL BE SINGLE PLY AND THE SAME MATERIAL FULL LENGTH.
- MINIMUM GROUND LINE MOMENT AT YIELD SHALL BE NO LESS THAN (My) AS SPECIFIED IN THE TABLE.
- THE LATERAL DEFLECTION OF THE TOP OF EACH POLE RESULTING FROM THE WORKING LOAD SHALL NOT EXCEED 2.5% OF THE POLE LENGTH FOR POLE DIAMETERS ≥ 12" AND 3% FOR POLE DIAMETERS < 12".
- STRENGTH CALCULATIONS SHALL BE BASED ON GROUND LINE DIAMETER ONLY AND SHALL NOT INCLUDE THE REINFORCING SLEEVE.
- REFER TO SHEETS ST5.16 AND ST5.17 AND METRO STANDARD PLANS SP-201 FOR STEEL STRAIN POLE DETAILS AND SPECIFICATIONS.
- POLE DESIGNATION WITH JOINT USE ATTACHMENTS:  
M: METRO TROLLEY  
SL: STREET LIGHTING  
PL: PEDESTRIAN LIGHT  
SN: SIGN  
F: TROLLEY FEEDER POLE
- CONTRACTOR SHALL SUPPLY AND INSTALL STREET LUMINAIRES AND PEDESTRIAN LIGHTS BASED ON THE POLE SCHEDULE IN THIS SHEET. THE STREET LIGHTING LUMINAIRES SHALL BE SEATTLE CITY LIGHT STOCK NUMBER 5723.71, THE PEDESTRIAN LIGHTING LUMINAIRES SHALL BE SEATTLE CITY LIGHT STOCK NUMBER 5723.11. PEDESTRIAN LIGHTS WILL BE COVERED UNDER SCHEDULE D - PEDESTRIAN LIGHTS.
- CONTRACTOR SHALL SUPPLY AND INSTALL STREET LUMINAIRES TO EXISTING POLES 3E AND 12E THAT ARE NOT LISTED IN THE POLE SCHEDULE.
- CONTRACTOR SHALL PRESERVE AND REINSTALL ALL TRAFFIC SIGNS ON THE EXISTING POLES. CONTRACTOR SHALL MAINTAIN AN INVENTORY OF ALL EXISTING SIGNS AND MOUNTING HEIGHTS FOR EXISTING POLES TO BE REINSTALLED AFTER POLE REPLACEMENT, THESE SIGNS INCLUDE BUT ARE NOT LIMITED TO THE SIGNS SHOW IN THE POLE SCHEDULE TABLE. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING SIGNS AND MAINTAIN ALL TRAFFIC SIGNS DURING CONSTRUCTION.
- CONTRACTOR SHALL PLACE SEATTLE CITY LIGHT POLE INVENTORY TAGS IN ACCORDANCE WITH SEATTLE CITY LIGHT CONSTRUCTION STANDARD 0093.12. CONTRACTOR SHALL SURVEY THE EXISTING POLE TAGS AND USE THE SAME NUMBER ON NEW POLES AT EACH LOCATION.
- POLES, ANCHORS BOLTS, AND LUMINAIRE BRACKETS WILL BE SUPPLIED BY KING COUNTY. CONTRACTOR IS RESPONSIBLE FOR TRANSPORTING THESE PARTS FROM KING COUNTY STORAGE SITE TO THE BRIDGE SITE FOR CONSTRUCTION. CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE TO THE PARTS DURING TRANSPORTATION AND CONSTRUCTION.

POLE DETAIL SCHEDULE (WITHOUT SLEEVES)									
POLE TYPE	POLE STYLE	NORMAL LENGTH (FEET)	MAX. GROUND LINE ACROSS FLATS (INCHES)	WORKING LOAD (LB) @ 25' FOR Δ D ONLY	(MY) GROUND LINE MOMENT (LB-FT)	BASE PLATE DIMENSION (INCHES)	BASE PLATE THICKNESS (INCHES)	BASE PLATE BOLT CIRCLE DIAMETER (INCHES)	BASE PLATE BOLT HOLE DIAMETER (INCHES)
SA-203-2	ANCHOR BASE	28'-6"	10	2000	100,000	16X16	1 3/4	15	1 13/16
SA-201-Z	ANCHOR BASE	33'-6"	15	6600	330,000	23X23	2 1/2	22	2 13/16

**POLE FOUNDATION NOTES**

- TYPE A: POLE FOUNDATION ON BRIDGE STEEL APPROACH SPANS  
 TYPE B: POLE FOUNDATION ON BRIDGE CONCRETE APPROACH SPANS  
 TYPE SA-: METRO STANDARD POLE FOUNDATION ON GROUND  
 FOUNDATIONS FOR POLES S1 AND S2 ARE BRACKETS MOUNTED ON THE SUPERBENT, SEE SHEETS ST5.08 TO ST5.13 FOR MOUNTING DETAILS.  
 SEE SHEETS ST5.01 TO ST5.03 FOR TYPE A, TYPE B, AND TYPE SA FOUNDATION DETAILS.

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	 <p><b>RHC ENGINEERING</b>          WWW.RHCENGINEERING.COM          720 3RD AVE SUITE 1400          SEATTLE WA 98104          PH: 206.623.5984</p>		DESIGNED: J. LI	APPROVED: G. FRANCO		METRO TRANSIT CAPITAL DIVISION <b>TROLLEY OVERHEAD SYSTEM</b> UNIVERSITY BRIDGE TROLLEY POLE REPLACEMENT  <b>TROLLEY POLE REPLACEMENT SCHEDULE</b>	DATE: DECEMBER 2, 2025
			DRAWN: T. LOZADA	PROJECT NO: 1127254			DRAWING NO: ST6.01
ADDENDUM #1 TL JL 3/10/2026	REVISION BY APP'D DATE		CHECKED: G. CHEN	CONTRACT NO: -		SHEET NO. OF 27 43	