SECTION 01 30 00
ADMINISTRATIVE REQUIREMENTS

PART 1 – GENERAL

1.01 SUMMARY

A. Section includes the following:

1. Project coordination.
2. Preconstruction meeting.
3. Preinstallation meetings.
4. Weekly project meetings.
5. RFI (Request for Information) meetings.
6. Schedule for forms.

1.02 PROJECT COORDINATION

A. General: Coordinate construction activities to ensure efficient and orderly performance of the Work and avoidance of interference with Owner's transfer station operations.

B. Utilities:

1. Coordinate construction activities with utility service providers required for performance of the Work.

C. Be responsible for completion, and administration of required forms.

1. The Owner will provide required and suggested forms and formats during and after the Preconstruction Meeting.

D. Forms not prescribed by the Owner may be of the Contractor's own design, subject to the following.

1. Contractor-designed forms shall use Arial typeface, 11 point type size, and shall be double-sided printed.
2. Submit draft forms for review and approval by the Project Representative.

1.03 PRECONSTRUCTION MEETING

A. Schedule:

1. The Project Representative will schedule the Preconstruction Meetings.

2. It is anticipated that the initial Preconstruction Meeting will be held within 5 calendar days of Contract Execution.

    a. Notice To Proceed is anticipated within 5 calendar days following the Preconstruction Meeting.

B. Purpose:

1. Establish lines of communication at the project working level.

2. Discuss and review administrative requirements of the Contract.

3. Review forms required to be used by the Contractor in administration of the Work.

4. Review and discuss design intent, user and concurrent operations issues, and permitting issues including requirements of authorities having jurisdiction.

5. Definition of and interpretation of roles, and responsibilities in performance of the Contract.

6. Review and discuss Contract Documents including Drawings and Specifications.

7. Review and discuss facility and site access, flagging activities, security, and procedural issues.

8. Discuss administration, and performance of sign-in and sign-out responsibilities.

9. Coordinate safety activities, including performance of the required Contractor's Health and Safety Plan.

10. Coordinate mobilization activities.

C. Notification: The Project Representative will notify the Contractor and required attendees not less than 2 calendar days in advance of the proposed meeting time.

D. Required Attendees:

1. Construction Manager.

2. Project Representative.

3. Transfer Station Operations Representative(s).

4. A/E Representative.

5. Contractor, including its project manager, superintendent, and the safety officer.

6. Significant subcontractors pertinent to the agenda.

E. Meeting Minutes: The Project Representative will prepare and distribute the minutes from the Preconstruction Meeting.

F. Authorities having jurisdiction may require their own preconstruction meeting with the Contractor and the Owner.

1. Refer to individual permits for preconstruction meeting requirements.

2. Contractor is responsible for arranging for these meetings.

1.04 PRE-INSTALLATION MEETINGS

A. Pre-installation meetings will be scheduled for various portions of the Work as the Work progresses.

B. The agenda of each pre-installation meeting shall include the following:

1. Project conditions, including anticipated temperature and weather conditions, readiness of the substrate for installation; and project-specific issues affecting the Work of this section.

2. Installation schedule, sequencing, and coordination with Work of other trades.

3. Installation procedures.

4. Quality assurance procedures; specifically Contractor accommodation of Project Representative inspections of the Work of the relevant section and other quality expectations.

C. The following is a partial list of systems, assemblies, and products for which pre-installation meetings are required:

1. Earthwork.

2. Metal roofing.

3. Membrane roofing.

4. Metal siding.

5. Field painting and coating.

6. Steel erection.

7. Cast-in-place concrete work.

8. Special concrete work.

9. Paving.

10. Pavement striping.

11. Landscaping and tree planting.

12. Mechanical systems and equipment (multiple meetings as necessary).

13. Electrical systems and equipment (multiple meetings as necessary).

14. Interior finishes (multiple meetings as necessary).

15. Underground utilities.

16. Others as determined by the Project Representative.

1.05 WEEKLY PROJECT MEETINGS

A. Weekly Project Meetings will be directed, and led by the Project Representative.

B. The Project Representative will prepare, coordinate, convene, and arrange Weekly Project Meetings.

C. Purpose:

1. Maintain and improve lines of communication.

2. Demonstrate performance of administrative requirements of the Contract.

3. Complete and maintain forms required to be used by the Contractor in administration of the Work.

4. Review and discuss the Weekly Look Ahead Schedule.

5. Review and discuss design intent, user and concurrent operations issues, work quality issues, and permitting issues including requirements of authorities having jurisdiction.

6. Review and discuss specific Contract Documents including Drawings and Specifications.

7. Maintain and improve facility and site access, flagging activities, security, and procedural issues.

8. Review and improve ongoing safety activities including performance of the required Health and Safety Plan.

D. Attend weekly project meetings; be prepared to discuss the agenda items identified in this section.

E. Follow the direction of the Project Representative in preparation for weekly meetings, including:

1. Ensure that the Contractor's project manager, superintendent, safety officer, representatives of subcontractors, and others are present in accordance with provisions of this section.

2. Ensure that required attendees are prepared, and familiar with the Project and the Project Schedule.

3. Coordinate the time and place of the weekly meetings with the Project Representative.

4. Ensure the Project Representative has been consulted in advance of the meeting with respect to the proposed attendees, and their relationship to the Project.

5. Submit the Weekly Look Ahead Schedule at least twenty-four (24) hours in advance of the meeting.

6. Submit Weekly Reports:

    a. Include a narrative describing the Work accomplished the preceding week.

    b. Identify the completion of milestones, and work activities.

    c. Indicate problems and resolution of problems occurring during the week.

F. Attendance at Weekly Project Meetings:

1. Construction Manager.

2. Project Representative.

3. Transfer Station Operations Representative(s).

4. A/E Representative.

5. Contractor, including its project manager, superintendent, safety officer, and others as requested by the Project Representative.

6. Subcontractors and vendors pertinent to the agenda.

7. Representatives of authorities having jurisdiction.

G. Agenda for Weekly Project Meetings:

1. Be prepared to discuss the following, to the extent deemed appropriate by the Project Representative:

    a. Safety Report by the Contractor-designated safety representative.

    b. Weekend work request, if any is requested by the Contractor for the coming week.

    c. TESC discharge request, in the event discharge is needed or anticipated within the coming week.

    d. Review and approve minutes or record of previous meeting.

    e. Review work progress during the preceding week.

    f. Note field observations, problems, and decisions.

    g. Identify problems that impede planned progress.

h. Coordinate activities to the Project Representative's satisfaction, to permit the Project Schedule to be maintained, or improved.

i. Review off-site fabrication processes, and status.

j. Develop corrective measures, and procedures to maintain or improve the Project Schedule.

k. Discuss progress of preparation and maintenance of administrative documents required in accordance with this section.

l. Discuss updates to the Monthly Update Schedule in accordance with Section 01 32 13, "Scheduling."

m. Review planned work identified in the Weekly Look Ahead Schedule in accordance with Section 01 32 13, "Scheduling."

n. Review impacts of Changes on the Project Schedule.

o. Discuss status, and action related to Changes.

p. Discuss additional scope, costs, schedule impacts, deviations, substitutions, and other Changes.

q. Review safety measures, including compliance with the required Health and Safety Plan, and cooperation with governmental agencies, and authorities having jurisdiction.

r. Review Apprenticeship and Subcontractor Opportunities.

s. Maintenance and improvement of quality, work standards, and competence.

t. Resolution of construction non-conformities.

u. Review of status logs of submittals, RFIs, and Change Orders.

H. Meeting Minutes: The Project Representative will prepare and distribute minutes from each Weekly Progress Meeting.

1.06 REQUESTS FOR INFORMATION (RFI) MEETINGS

A. RFI Meetings will be directed, and led by the Project Representative.

1. RFI responses are prepared by the Project Representative only, and in writing and are binding.

2. Verbal responses, and discussions about RFIs are unofficial, non-final, and non-binding on the parties.

3. RFI meetings will be scheduled to occur immediately following the weekly progress meeting.

B. Purpose:

1. Maintain and improve lines of communication about Contractor-initiated questions, and questions from subcontractors.

2. Prioritize RFI responses to the Contractor.

3. Review and discuss specific Contract Documents including Drawings and Specifications.

C. Attend RFI meetings; be prepared to discuss the agenda items identified in this section.

D. Follow the direction of the Project Representative in preparation for RFI meetings, including:

1. Ensure that the persons responsible for preparation of RFIs are present.

2. Ensure that required attendees are prepared to discuss the RFIs with the A/E Representative, in detail.

E. Attendance:

1. Construction Manager.

2. Project Representative.

3. A/E Representative.

4. Contractor, including its project manager, superintendent, and the Contractor's designated field engineer.

F. Agenda:

1. Review of previous RFI responses, and actions taken.

2. Review and discussion of current RFIs, and proposed responses by the Project Representative, when available.

3. Discussion of forthcoming RFIs anticipated by the Contractor, when available.

G. Meeting Minutes: The Project Representative will prepare and distribute minutes from each RFI Meeting if such minutes are deemed necessary.

1.07 DOCUMENTS

A. Electronic Document Control System (DCS) to be used per Sub Section E (below) unless otherwise required by owner.

B. For documents created by the Contractor and/or its subcontractors:

1. Text: Submit electronically in Microsoft Word, current version.

2. Tables: Submit electronically in Microsoft Excel, current version.

3. Schedules: Submit electronically in Primavera (P3), or Approved Equal.

4. Figures and pictures: Submit electronically as PDF or JPG files.

5. Cut sheets from catalogs, and similar items: Scan, and submit as Adobe PDFs.

6. Drawings: Submit as PDF files, except:

    a. Provide AutoCAD version of files when requested by the Project Representative.

7. For electronic files larger than 5 MB, download the electronic version as PDF to Owner's document control system.

8. Obtain prior approval from the Owner to submit an electronic version in a format other than those specified here.

C. Environmental Quality Monitoring:

1. For information such as sediment quality data and water quality data, submit the data in an Excel file, or

2. Use a format compatible with the Washington State Department of Ecology's SEDQUAL Database format.

D. Security and Reliability:

1. The Contractor is required to provide its own back up of electronic files that have been submitted.

2. The Contractor is required to keep a current paper copy of every document used or created for the Project.

E. Electronic Document Control System (DCS):

1. The Contractor is required to transmit and receive documents electronically, utilizing the Document Control System (DCS) provided by Owner.

2. Internet connection will be required for Contractor personnel to utilize the DCS.

3. Training of Contractor's personnel in the use of the DCS will be provided by Owner once, and is expected to require approximately 4 hours. Instruction to any subsequent Contractor personnel will be the responsibility of Contractor.

4. Cost of single DCS instruction will be borne by Owner, exclusive of Contractor's labor cost.

5. The DCS system document storage capacity does not relieve Contractor's responsibilities to maintain and protect separate electronic and hardcopy versions of all Contract Documents.

1.08 SUBMITTALS

A. General: Submit the following in accordance with general terms and conditions of the Contract and Section 01 33 00, "Submittal Procedures."

B. Contractor Staffing and Organization Chart:

1. Submit an Organization Chart showing the Contractor personnel and key points of contact with the Owner within 3 weeks following the First Notice to Proceed.

2. Submit a list of Contractor's personnel and subcontractors, to include their responsibilities and contact information within 3 weeks following the First Notice to Proceed.

    a. Include the project superintendent, safety officer, and Contractor project manager.

    b. Provide telephone numbers with voice mail service, and email addresses monitored daily for each designee of the Contractor.

    c. Indicate emergency and after-hours contacts, and the means of reaching these people.

    d. Post copies of the list in the construction trailers.

    e. Revise the list as approved by the Project Representative whenever changes in staffing may occur.

PART 2 – PRODUCTS (NOT USED)

PART 3 – EXECUTION

3.01 UTILITY AND AGENCY CONTACT INFORMATION

UTILITY/AGENCY	CONTACT PERSON	CONTACT INFORMATION
PUGET SOUND ENERGY (Electrical Power)	Scott Tuscani, Customer and System Projects Southwest Electrical Distribution	360-689-3709 Scott.Tuscani@pse.com
Lumen Technologies (Century Link) (Communications)	Royce Klein	360-649-3045 Royce.Klein1@Lumen.com
Kitsap Public Utility District (KPUD) (High Speed Internet)	Scott Gard Paul Avis	sgard@kpud.org 360-626-7746 paul@kpud.org 360-626-7731
Kitsap County Fire Marshal Office (Fire Safety and Prevention Authority Having Jurisdiction)	Mathew Bryant, Assistant Deputy Fire Marshal	360-337-5777

SILVERDALE WATER DISTRICT (Water Supply)	Mike Pleasants, District Engineer Nolan Corpus, Engineer	(360) 447-3500
(Sewer)		

END OF SECTION

ADDENDUM No. 3 12/9/2025 DSM

SECTION 01 41 00
REGULATORY REQUIREMENTS

PART 1 – GENERAL

1.01 SUMMARY

A. Section includes the following:

1. Compliance with codes, laws, regulations and rules.

2. Fees.

3. Permits.

1.02 REFERENCES

A. The following is a partial list of Codes and Regulations central to the Project:

1. Kitsap County Code, TITLE 17 Zoning, TITLE 18 Environment, TITLE 19 Critical Areas Ordinance.

2. Kitsap County Surface Water Design Manual. Kitsap County, Washington. 2021.

3. 2024 Department of Ecology Stormwater Management Manual for Western Washington.

4. 2021 International Building Code, including the following amendments:

   a. Washington State Amendments.

   b. Kitsap County Amendments.

5. RCRA – Resource Conservation and Recovery Act.

1.03 PERFORMANCE

A. Be fully informed of regulations which impact the Work.

B. In event of conflict between standards, codes, and regulations;

1. Inform the Project Representative at the earliest opportunity.

2. The Project Representative will determine the appropriate direction and communicate with the Contractor.

C. Permits by Contractor:

1. Permit Milestones: Coordinate permit responsibilities and tasks with preparation and maintenance of schedules and other administrative activities in accordance with Section 01 30 00, “Administrative Requirements.”

2. Provide (apply and pay for) the following permits:

   a. ~~Fire Detection and Alarm System Permit.~~ ADDENDUM No. 3 12/9/2025 RWR

   b. All necessary street use permits in connection with Contractor's operations.

   c. Any permits required for temporary facilities or utilities.

   d. Sewer Connection Permit

   e. Electrical Construction Permit

   f. All other permits not specifically listed below as obtained by Owner.

3. Fulfill the obligations and conditions on each permit affecting the Work.

4. Bring conflicting requirements to the attention of the Project Representative, who will arrange for a determination to be made.

D. Permits paid for and obtained by Owner:.

   1. Washington State Department of Ecology:

      a. NPDES Construction Stormwater General Permit.

   2. Kitsap County Department of Community Development:

      a. Administrative Conditional Use Permit and State Environmental Policy Act (SEPA) Approval.

      b. Site Development Activity Permit (includes Timber Harvest Approval).

      c. Timber Harvest Application.

      d. Commercial Construction Building Permits.

      e. Mechanical and Plumbing Permit (included with the building permit review).

      f. ~~Fire Alarm – New System or Major Modification Permit.[Does Contract obtain???]~~ ADDENDUM No. 3 12/9/2025 RWR

      g. Sign Permit

      h. Demolition Permit

   3. Kitsap County Public Works:

      a. Right-of-Way Use Permit.

      b. Sewer Availability Agreement

4. Kitsap Public Health District:

    a. Solid Waste Handling Facility Operating Permit (permit ready, cannot be issued until existing permit is expired. New permit will go into effect January 1, 2026.)

    b. Sewered Building Clearance

5. Silverdale Water District:

    a. Construction Agreement

    b. Water Availability

6. Bonneville Power Administration:

    a. Land Use Permit.

7. Puget Sound Energy (PSE):

    a. Customer-Generator Systems Agreement.

E. General: Submit the following in accordance with Section 01 33 00, "Submittal Procedures."

1. Permits:

    a. Provide copies of Contractor-obtained permits to the Project Representative within three 3 days of the date of issuance by the permitting agencies.

    b. Provide copies of permit cards that include progress notations made by inspectors acknowledging completeness of Work, for those permits requiring several inspections.

    c. Provide copies of permit approvals to the Project Representative, when these become available.

1.04 ADDITIONAL REQUIREMENTS

A. Work performed under permits must be inspected by the authority having jurisdiction prior to being considered part of the Work.

B. Contractor shall be responsible for satisfactory completion of all Work required to obtain regulatory approval and sign off of permits applied to this Contract.

C. Permit Posting:

1. Post all permits at the site in a protected location.

2. Use clear plastic pockets mounted on a wood panelboard for storage.

3. Post project permits in one location.

4. Do not post permits in unprotected or exterior locations.

PART 2 – PRODUCTS (NOT USED)

PART 3 – EXECUTION (NOT USED)

END OF SECTION

SECTION 01 92 13
OPERATION AND MAINTENANCE MANUALS

PART 1 – GENERAL

1.01 SUMMARY

A. Section includes preparation of operation and maintenance (O&M) manuals.

1.02 SCHEDULE

A. Submit initial draft of the O&M Manual no later than 90 days prior to the request for issuance of the Substantial Completion certificate for Milestone 2 work.

B. Submit the final O&M Manual no later than 30 days prior to issuance of the Substantial Completion certificate for Milestone 3 work.

1.03 OPERATION AND MAINTENANCE MANUALS

A. Coordinate, assemble, and submit four final sets of O&M Manuals that include O&M information for each product, material, system and piece of equipment or equipment assembly specified in the Contract Documents as noted below.

Item	Description	Specification Section
1.	Various Division 09, 10, 11 and 12 Architectural sections not specifically listed below	Refer to Sections
2.	Architectural Woodwork	06 40 00
3.	Standing-Seam Metal Roofing	07 41 00
4.	Membrane Roofing	07 50 00
5.	Firestopping	07 84 00
6.	Access Doors	08 31 00
7.	Fixed Aluminum Windows	08 51 13
8.	Motorized Service Window	08 56 59
9.	Door Hardware	08 71 00
10.	Toilet and Bath Accessories	10 28 00
11.	Fire Suppression Systems	21 10 00
12.	Heat Trace Systems	22 05 33
13.	Electric Water Heaters	22 33 00
14.	Plumbing Fixtures	22 40 00
15.	Emergency Eyewash and Showers	22 45 00
16.	HVAC Controls	23 09 23
17.	Fans and Ventilators	23 34 00

Item	Description	Specification Section
18.	Air Filters	23 41 00
19.	Heat Pumps and Air Conditioners	23 81 26
20.	Electric Heating Equipment	23 83 13
21.	Grounding and Bonding	26 05 26
22.	Panelboards	26 24 16
23.	Electricity Metering	26 05 33
24.	Wiring Devices	26 27 26
25.	Standby Engine Generator	26 36 13
26.	Automatic Transfer Switches	26 36 26
27.	Lighting	26 50 00
~~28.~~	~~Intercom Systems~~	~~28 15 23~~
~~29.~~	~~Fire Detection and Alarm System~~	~~28 31 00~~
~~30.~~	~~Temporary Irrigation System~~	~~32 80 00~~
31.	Landscaping	32 90 00
32.	Water System Valves, Hydrants and Appurtenances	33 10 00
33.	Sanitary Sewerage	33 30 00
34.	Oil/Water Separators including Coalescing Plates	33 40 00
35.	Control Systems Equipment	40 67 00

ADDENDUM No. 3
12/9/2025 RWR

Include any additional listed equipment in the specifications.

B. The O&M Manual shall be assembled as a single combined manual.

C. All manufacturers' literature in each manual shall be original, not copies.

D. Manuals shall be bound in a series of three inch, D-ring binders with durable plastic covers.

1. The front cover shall be imprinted with the title of the Project (Silverdale Recycling and Garbage Facility), the name of the Owner (Kitsap County– Solid Waste Division), and the name of the Contractor.

2. The back edge (spine) shall be imprinted with the abbreviated name of the Project (Silverdale Recycling and Garbage Facility), Owner (Kitsap County Solid Waste Division), and the year of completion of the Project.

3. Manuals shall be 8-1/2 by 11 inches in size except for oversize drawings, which shall be bound in fold-out fashion or folded and placed inside a bound-in envelope.

4. Multiple, thinner binders are preferred to extra-large and bulky binders where subdivisions of the contents permit.

5. Manual volumes shall not exceed 3 inches in thickness.

6. Internally subdivide the binder contents with permanent page dividers, logically organized as described below; with tab titling clearly printed under reinforced laminated plastic tabs.

7. Equipment operating instructions and test reports shall be bound in front of maintenance instructions and other materials.

E. Each O&M manual shall include the following:

1. A title indicating its contents permanently labeled on the outside of the binder.

2. A cover sheet identifying equipment with the process or assembly in which it is used according to (1) location, (2) specification section number and title, and (3) Contract Document drawing number.

3. Table of Contents for each volume, with material, equipment, or system description identified, typed on white paper. Each volume shall have a complete table of contents showing the volume divisions and other information.

4. Instructions and data prepared by the manufacturer, including the following as applicable:

a. Equipment operating instructions including startup and shutdown procedures, safety precautions, and instructions on specific controls.

b. Electrical test reports, including electrical system and motor test reports.

c. A complete set of applicable reviewed approval submittals.

1) A complete set of applicable reviewed product data clearly identifying the system, assembly, material or product using the names or terminology for the system, assembly, material or product in the Contract Documents

d. Assembly drawings.

e. Complete parts lists.

f. Bill of materials.

g. Wiring diagrams.

h. Maintenance and repair instructions to cover any routine operation required to ensure satisfactory performance and longevity of the product, material or equipment, such as lubrication instructions and lists of lubricants, cleaning, adjustment, replacement of parts, etc.

i. Maintenance summary forms.

j. Copy of extended warranty.

5. Divide manuals into the following sections:

    a. Part 1: Directory, listing names, addresses, and telephone numbers of A/E Representative, Contractor, subcontractors, and major equipment suppliers.

    b. Part 2: Operation and maintenance instructions, arranged by system and subdivided by specification section. For each category, identify names, addresses, and telephone numbers of subcontractors and suppliers. Identify the following:

        1) Significant design criteria.

        2) List of equipment.

        3) Parts list for each component.

        4) Operating instructions.

        5) Maintenance instructions for equipment and systems.

        6) Maintenance instructions for special finishes, including recommended cleaning methods and materials, and special precautions identifying detrimental agents.

        7) Summary listing of warranty dates.

    c. Part 3: Project documents and certificates, including the following:

        1) Shop drawings and product data.

        2) Certificates.

        3) Photocopies of warranties.

F. Three unbound copies of each volume shall be submitted for approval.

    1. After review by the Project Representative, revise content as required by Project Representative's comments and submit the number specified.

    2. All copies of the final O&M Manual shall be submitted to the Project Representative before final payment will be made.

G. Three bound copies of the final approved O&M Manual will be submitted.

PART 2 – PRODUCTS (NOT USED)

PART 3 – EXECUTION (NOT USED)

END OF SECTION

SECTION 26 08 00
ELECTRICAL TESTING AND COMMISSIONING

PART 1 – GENERAL

1.01 SUMMARY

A. This section specifies the acceptance testing of electrical materials, equipment, and systems. It is intended to cover the testing of all electrical distribution equipment furnished under this Contract. Electrical tests shall be conducted per the requirements specified in the NETA Acceptance Testing Specifications (NETA ATS, most recent published edition) as described and/or modified within this section.

B. Testing specified within this section shall include all electrical equipment specified in Division 26, all electrical rotating and any power distribution electrical apparatus specified under other specification sections in this Contract. Where testing in accordance with this section is required, the required tests, including correction of defects and retesting, shall be completed prior to energization of material, equipment, or systems.

C. Test instruments shall be calibrated to references traceable to the National Institute of Standards and Testing and shall have a current sticker showing date of calibration per manufacturer's specifications, deviation from standard, name of calibration laboratory and technician, and date of recalibration.

D. Where existing conductors are disconnected from existing equipment, salvaged, and connected to new equipment, electrical test shall be conducted on the existing conductors per the requirements specified in the NETA Maintenance Testing Specification (NETA MTS, most recent published edition).

1.02 SUBMITTALS

A. Procedures: In accordance with Section 26 05 11, "Basic Electrical Methods and Materials."

B. Proposed testing procedures, including proposed test report forms and listing of equipment that will be tested.

C. Test report, including documentation for all tests performed.

D. Execution plan, including schedule.

E. Name and qualifications of the independent testing firm that will be performing the testing work. Submitted information shall confirm that qualifications are to NETA ATS requirements.

F. Inspection and acceptance testing reports for new electrical equipment per NETA ATS, Paragraph 5.4 for equipment for which tests are required in this and other Division 26 sections.

G. Field test results specified in this section.

1.03 QUALITY ASSURANCE

A. Referenced Standards: This section incorporates by reference the latest revisions of the following documents. In case of conflict between the requirements of this section and the listed documents, the requirements of the Contract Specifications shall prevail. Specified references within the NETA Acceptance Testing Specifications also shall apply.

1. National Electrical Manufacturers Association (NEMA).

2. International Electrical Testing Association Inc. Acceptance Testing Specifications (NETA).

3. NFPA 70 – National Electrical Code (NEC).

B. Testing shall be conducted by a NETA accredited testing agency as described in the NETA Acceptance Testing Specifications except as noted elsewhere within this section. Where the testing agency is referred to in this specification, it shall be in reference to this NETA accredited testing firm.

1.04 DAMAGED PRODUCTS

A. See Section 26 05 11 in the event that any equipment or material is damaged.

PART 2 – PRODUCTS (NOT USED)

PART 3 – EXECUTION

3.01 CONSTRUCTION INSPECTIONS

A. Commissioning of electrical systems will require inspection of individual elements of the electrical systems construction throughout the construction period. The Contractor shall coordinate with the Owner to schedule electrical systems inspections as required to support the commissioning process.

3.02 TESTING PROCEDURES

A. General:

1. Electrical testing requirements per NETA ATS are to be applied for testing of new electrical equipment provided under this Contract as noted within this section. Where NETA is mentioned in these testing procedures, it is understood that this is a reference to the NETA ATS standards.

2. Existing conductors disconnected from existing equipment, salvaged, and connected to new equipment or replacement equipment shall be electrically tested. Electrical test shall be conducted on the existing conductors per the requirements specified in the NETA Maintenance Testing Specification.

3. Conduct insulation tests and the functional checkouts called for in the following paragraphs on equipment prior to energization.

B. Division of Responsibility:

1. Contractor responsibilities for providing information required by the testing agency that are listed in NETA ATS are as follows:

   a. The Contractor shall provide an approved copy of the short-circuit analysis, coordination study and protective device setting report that are specified in Section 26 05 73.

   b. The Contractor shall provide the required equipment instruction manuals requested by the testing agency.

   c. The Contractor shall provide a copy of the list of equipment that will be tested under this Contract.

   d. The Contractor shall be responsible for providing suitable power for testing as required by the testing agency.

   e. The Contractor shall be responsible for coordinating the scheduling of testing with the testing agency, and the Owner and shall be responsible for ensuring that equipment is prepared as required for testing by the testing agency.

   f. The Contractor shall be responsible for providing the site-specific hazard and safety training called for in NETA ATS.

   g. The Contractor shall notify the Owner 14 days ahead of planned testing.

2. Testing agency responsibilities shall be as listed in NETA ATS.

3. The Owner will provide a set of up-to-date Contract Documents for the testing agency.

C. Safety, Test Equipment Calibration and Reports NETA ATS:

1. Conform to the safety requirements specified in NETA ATS.

2. Test equipment shall be calibrated to the requirements specified in NETA ATS.

3. Test reports shall include all the requirements listed in NETA ATS. Equipment identification shall include the equipment name and number per project Drawings.

D. Thermographic Surveys: In the following specified testing for bolted connections, a choice is generally given for testing via thermographic means or millivolt drop testing or torque-tightening verification. In such cases, either the millivolt drop test or torque-tightening verification shall be conducted in addition to the thermographic scan. It is acknowledged that thermographic scan testing may be limited in efficacy due to the limited loading that may be available at the time of testing.

1. Thermographic surveys are to be conducted only after all the loads have been connected to the equipment such that the testing can be conducted under loading sufficient to provide indication of the joints that are not properly connected.

E. Optional Tests: Testing requirements referenced in the Specifications include all the NETA ATS applicable test requirements for the equipment type. Tests identified as optional in the NETA documents are required only where specifically called for in the Specifications.

F. Communications and Controls: Testing of Modbus, Ethernet, DeviceNet, ControlNet, or Foundation Fieldbus circuits and communications is specified in Division 40.

G. Test Reports:

1. Provide test reports in conformance with the NETA guidelines for test reports.

2. Use the project full equipment name and equipment number for equipment identification.

3. Provide a copy of the final test report in both electronic Microsoft Word format and PDF. Images in the report may be in JPEG or Adobe Acrobat PDF format.

H. Testing organization shall perform acceptance tests and inspections. Test methods, procedures, and test values shall be performed and evaluated in accordance with NETA ATS, the manufacturer's recommendations, and the paragraph titled "Field Quality Control" of each applicable specification section.

1. Tests identified as optional in NETA ATS are not required unless otherwise specified.

2. Equipment shall be placed in service only after completion of required tests and evaluation of the test results have been completed.

3. Contractor shall supply to the testing organization complete sets of shop drawings, settings of adjustable devices, and other information necessary for an accurate test and inspection of the system prior to the performance of any final testing.

4. Owner shall be notified at least 14 days in advance of when tests will be conducted by the testing organization.

I. Perform acceptance tests and inspections on applicable equipment and systems specified in the following sections:

1. Section 26 05 19, "Low-Voltage Wire and Cable."

2. Section 26 24 16, "Panelboards."

3. Section 26 27 26, "Wiring Devices."

4. Section 26 33 53, "Uninterruptable Power Supplies (UPS)."

5. Section 26 36 13, "Engine Generator."

6. Section 26 36 26, "Automatic Transfer Switch."

7. Section 26 50 00, "Lighting."

8. Section 28 15 23, “Audio Intercom System.”

9. Section 28 31 00, “Fire Alarm System.”

ADDENDUM No. 3 12/9/2025 RWR

J. Function testing of the process controls related to equipment is specified in Division 40 of these Specifications. Only those devices that are related to the protection of electrical equipment such as interlocks, alarms, fail safe devices will be tested.

K. Electrical functional testing may be performed by qualified electricians (not required to be done by an independent test agency) or by the independent testing agency under this section.

L. Perform the functional testing per NETA ATS guidelines for function tests and the requirements of this paragraph prior to energizing of the equipment.

M. Application-specific electrical functional performance testing of equipment is described in the individual equipment specifications.

N. System Functional Performance Testing:

1. The Functional Performance Testing Procedures approved by the Engineer will be used to document the inspection and testing of the equipment and systems. Provide all necessary manpower and have the appropriate subcontractor and/or manufacturer’s representative present during the testing and demonstrate, to the Designer’s satisfaction, the full operation of all electrical and lighting systems. Coordinate the schedule of the testing so that the Engineer and Owner can be present.

2. Prior to starting the final testing of the systems, ensure that all equipment and systems were initially started up and initialized as prescribed by the manufacturer’s instructions or by the manufacturer’s representative and that the Contractor has performed a complete inspection and test of all electrical and lighting equipment and systems.

3. Demonstrate to the Owner proper operation of the ATS and generator by simulating a utility power outage and a restoration of utility power. Demonstrate generator starts and power is transferred to the generator and the RAGF has power.

4. Demonstrate to the Owner proper operation of the site exterior lighting system. Demonstrate the following:

a. Hand control stations in the Attendant Building.

1) General Public Area.

2) Container Truck Lower Service Road.

b. Hand control station near Gate 2.

1) Truck Driver push button switch.

c. The automatic controls.

1) Photocell control.

2) Timer Relay Control.

d. The exterior lighting which remains ON all night.

1) Gate 1.

2) Old Gate.

3) Gate 2.

4) Single light north island Attendant Bldg.

5) Single light north-end of Recycle Area.

6) Single light rear of Refuse Shed A and D.

7) Light fixtures at the LHHW single man doors.

8) Light fixtures at the Operator Warming Station warming room door.

5. Demonstrate to the Owner the proper operation of the Attendant Call System. Demonstrate the following:

a. Master Attendant Call Station.

b. The Operator Warming Station Call Station.

c. The LHHW Building Call Station.

6. Demonstrate to the Owner the proper operation of the following:

a. Service Entrance Disconnect Switch.

b. Main Distribution Panel (MDP).

c. Electrical and lighting at the following locations:

1) Including in the demonstration to the Owner that each duplex receptable is properly wired by using a Klein Tool Receptacle Tester Model RT110.

a) Demonstrate the “correct” indictor light sequence are illuminated as showning the receptacle is correctly wired.

2) Attendant Bldg.

   a) Each Room.

   b) UPS in Server Room.

   c) Surge Protection in Server Room.

   d) ~~Fire Alarm Panel including remote annunciator.~~ ADDENDUM No. 3 12/9/2025 RWR

   e) HVAC power controls:

      i. Heater Relay.

      ii. Motorized Damper, Supply Fan, & Duct Heater Relay.

3) LHHW Bldg.

   a) Each Room.

4) Operator Warming Station.

   a) Each Room.

5) Refuse Shed A.

6) Refuse Shed B.

7) Refuse Shed C.

8) Refuse Shed D.

9) Maintenance Shed.

END OF SECTION

This Page Intentionally Left Blank