# **Subcontract**

# HENSEL PHELPS CONSTRUCTION CO. Contractor

Issuing Office	•	Pacific District – 841 Bishop St, Suite 2001, Honolulu, HI 96813
	•	Contractor License Number in State of Project if Applicable <u>CT-34875</u>
Subcontractor	•	Unitek Insulation, LLC
Subcontract	•	Hazardous Materials Abatement
Project	•	Sand Island WWTP Secondary Treatment Phase 1
<b>Project Number</b>	•	6021088- 0212300

This Subcontract consists of 19 pages numbered 1 of 19 through 19 of 19 and attachments numbered: 19A & Exhibit A

Please initial each page where indicated, affix authorized signature(s) and return THREE (3) copies at once to the issuing office shown above.





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# SUBCONTRACT

THIS SUBCONTRACT is made and entered into this 18th day of November, 2021, by and between

Unitek insulation, LLC	Attention:	Robert Weigel
P.O. Box 29177	Phone:	808.447.2629
Honolulu, HI 96820	Fax:	808.831.3080

hereinafter referred to as the Subcontractor and Hensel Phelps Construction Co., hereinafter referred to as the Contractor. **WITNESSETH:** That for and in consideration of the mutual promises and covenants herein contained, the Subcontractor and the Contractor agree as follows:

**SECTION A.** The Subcontractor covenants, promises and agrees to furnish all material and personal property and to diligently and fully perform all work hereinafter described for the construction of <u>Sand Island Wastewater Treatment Plant Secondary Treatment Phase 1</u>, hereinafter referred to as the Project, to be located at <u>1350 Sand Island Parkway</u>, <u>Honolulu</u>, <u>HI, 96819</u>, for the use and benefit of <u>The City and County of Honolulu</u>, hereinafter referred to as the Owner, in strict accordance with the Contract between the Contractor and the Owner entered into <u>11/18/2021</u> and hereby made a part of this Subcontract by reference; all to the satisfaction of the Contractor, the Owner, and the representative authorized by the Owner to interpret and judge the performance of the aforesaid Contract and named therein as architect, engineer, contracting officer, or otherwise, when such representative shall have been designated as the Owner's Authorized Agent; and all of which shall be done in timely, faithful and strict compliance with this Subcontract and all the Subcontract Documents described and defined in Section D, Article 1, hereof and elsewhere herein.

**SECTION B.** The Subcontractor agrees to furnish all necessary management, supervision, labor, materials, tools, supplies, equipment, plant, services, engineering, testing and/or any other act or thing required to diligently and fully perform and complete the portions of the work described as follows:

Complete all hazardous materials abatement work as described in the issue for construction Plans and Specification, including Addenda 1-9 as prepared by AECOM, dated March 17, 2021, all Reference Documents provided in the Contract Documents including SI Cov Source Permit-SI-10-13-09, SI NCS Air Permit, SI NSP Permit Renewal Application 2014, 9-73 1973 SIWWTP Phase 1, Ala Moana FM Sections A and C\_Job No. 25-52 \_ 30-Jun-1987\_Metcalf and Eddy As-Built, W5-00 UV Facility and EPS, Certification of Compliance, Community Workforce Agreement, CCHNL Control Panel Procurement Specifications, CCHNL SCADA HMI Design Standard, CCHNL SCADA PLC Design Standard, All Control Module Standards Files (CM AIN, CM CBR, CM CV, CM DIN, CM DOUT, CM E3PLUS, CM GEN, CM M2S, CM PID, CM SEC ASCII, CM SEC GSC, CM SEC SLV, CM SMPL, CM TOT, CM TOT FB, & CM TOT PUL, CM V2S, CM VFD), ControlLogix Design Standards, DeviceNet Design and Implementation Standard, Ethernet Design and Implementation Standard Ethernet Network Standard, Historian Design Standards, Implementation Guidelines for PLC Control Modules and Equipment Modules, PLC Add-on Instruction Summary, HAR Title 11 Asbestos Regs, HAR Title 11 Lead Regs, SIWWTP GEOTECHNICAL DATA REPORT, SIWWTP GEOTECHNICAL ENGINEERING REPORT, SIWWTP Hazmat Report DTC, SIWWTP Phase1 HDOH Construction-EHMP-3-17-2021, Suez Drawings (506047-CTR-0027, 506047-WTS-AU-T02-8523-PH-001, 506047-WTS-AU-T02-8533-FD-001, 506047-CTR-0032, 506047-WTS-IN-T03-0333-LI-001, 506047-WTS-IN-T03-0333-SD-001, 506047-CTR-0028, 506047-WTS-EL-T02-8513-DN-001, 506047-WTS-EL-T02-8523-DD-001, 506047-WTS-EL-T03-0330-BQ-001, 506047-WTS-EL-T03-0330-BQ-021 through 506047-WTS-EL-T03-0330-BQ-028, 506047-WTS-EL-T03-0330-DA-001, 506047-WTS-EL-T03-0330-DA-003, 506047-WTS-EL-T03-0330-DA-001, 506047-WTS-EL-T03-0330-DA-003, 506047-WTS-EL-T03-0330-DA-001, 506047-WTS-EL-T03-0330-DA-003, 506047-WTS-EL-T03-0330-DA-001, 506047-WTS-EL-T03-0330-DA-003, 506047-WTS-EL-T03-0330-DA-001, 506047-WTS-EL-T03-0300-DA-001, 506047-WTS-EL-T03-0300-DA-001, 506047-WTS-EL-T03-0300-DA-001, 506047-WTS-EL-T03-030-DA-001, 506047-WTS-EL-T03-030-DA-001, 506047-WTS-EL-T03-0300-DA-001, 506047-WTS-EL-T03-0000-DA-001, 506047-WTS-EL-T03-0000-DA-001, 506047-WTS-EL-T03-0000-DA-000-DA-000-DA-000-DA-000-DA-000-DA-000-DA-000 DA-021 through 506047-WTS-EL-T03-0330-DA-028, 506047-WTS-EL-T03-0330-DD-001, 506047-WTS-EL-T03-0330-DD-003. 506047-WTS-EL-T03-0330-DD-021 through 506047-WTS-EL-T03-0330-DD-028, 506047-WTS-EL-T03-0330-SD-001, 506047-CTR-0034, 506047-WTS-IN-T03-0347-LI-001, 506047-WTS-IN-T03-0347-SD-001, 506047-WTS-ME-000-1000-DA-001, 506047-WTS-ME-T02-8512-LI-001, 506047-WTS-ME-T03-0309-SD-001, 506047-WTS-ME-T03-0346-LI-001, 506047-WTS-ME-T03-0346-SD-001, 506047-WTS-PR-T02-8511-DI-001, 506047-WTS-PR-T02-8521-DS-000, 506047-WTS-PR-T02-8521-DS-001, 506047-WTS-PR-T02-8521-DS-000, 506047-WTS-PR-T02-8521-DS-001, 506047-WTS-PR-T02-8521-DS-000, 506047-WTS-PR-T02-8521-DS-001, 506047-WTS-PR-T02-8521-DS-000, 506047-WTS-PR-T02-8521-DS-001, 506047-WTS-PR-T02-8521-DS-000, 506047-WTS-PR-T02-8521-DS-001, 506047-WTS-PR-T02-8521-DS-000, 506047-WTS-PR-T02-8521-DS-001, 506047-WTS-PR-T02-8521-WTS-PR-T02-8521-DS-002. 506047-WTS-PR-T02-8521-DS-102. 506047-WTS-PR-T02-8521-DS-104. 506047-WTS-PR-T02-8521-DS-105, 506047-WTS-PR-T02-8521-DS-107, 506047-WTS-PR-T02-8521-DS-110, 506047-WTS-PR-T02-8521-DS-111, 506047-WTS-PR-T02-8521-DS-112, HP5-2R46-EGMW0-v3-SubmissionDownload, Dewatering Basin Plan-v3, DLNR Letter of Authorization-v3, Exec Order 3939-v3, Exec Order 4498-v3, Groundwater Sample-v3, Injection Well Detail\_revised-v3, Overall Site Layout Plan-v3, Site Plan-v3, TMK Map-v3, Topographic Map-v3, uic\_welldim1011-v3-v3, Wastestream Process-v3, Overall Elevations A40-015, Overall Sections, Pages from Secondary\_Ph1\_Bid\_Set-Reference, Secondary\_Ph1\_Bid\_Set-Reference, CertificationSignatory20171031 (fillable), UO 3091 Sand Island IND ATC (part 1) - signed, UO 3091 Sand Island IND ATC FnIrpt.IW, Weekly Drilling Rpt, SERV-0001 ZW Membrane Care, Handling and Storage SUEZ, SERV-0003\_ZW500D\_Cassette\_Uncrating\_Installation\_Instruction\_SRA\_suez, Ala Moana FM Section 3\_Job No. S7-76 \_ 7-JUI-82 Wilson Okamoto & Associates As-Built, W1-11 Ala Moana FM 3&4 As-Builts, HDOH DU Variance Letter, Spwwppp\_Phase1\_pppp Construction-EHMP\_07-08-2021\_rev1, E and I Design Standards, 3398-00\_Boring\_Logs, and W9-14 SI-WW/IP OCS As Build Drawings, the Project Baseline Schedule dated 10/1/2021 (Exhibit A) and the Job Information & Policy Brochure dated 10/1/2021.

Contractor Subcontractor

All work and materials described in Division 1 (as applies), and Divisions:

- 1. 01910 Hazardous Materials (Complete)
- 2. 02022 Decontamination and Safety Procedures (As Applies)
- 3. 02220 Demolition (As Applies)
- 4. 02315 Excavation and Fill (As Applies)
- 5. SP 160 Discovery of Hazardous Materials (As Applies)
- 6. SP 163 Environmental Pollution Control (As Applies)

are included within the scope of this Subcontract with the following being the only exceptions:

- Patching, Painting, Priming or Repairs (Not Required)
- 2. Salvage (Not Required)
- 3. Building Demolition (By Tajiri)
- 4. Soil Remediation (Not Required Until Testing)
- 5. Payment and Performance Bond (Not Required)

Your attention is specifically called to the following items, which are included in the Subcontract, but without limiting the Scope of Work as provided above. This Subcontractor acknowledges that it would be impossible to identify and specifically list every inclusion for this Scope of Work, therefore the below list is meant to provide clarity, but not limit the Scope. Items omitted from this list, but necessary for the proper performance of this Subcontractor's Scope of Work are included. Only the specific listed exclusions in Section B are excluded from this Scope of Work.

- 1. The word "provide" when used in these inclusions is intended to be inclusive to furnish, transport, fabricate, deliver, receive, unload, store, install, hoist, erect, prepare substrate, protect, start-up, test, clean, etc., such that the material and/or system is complete and operational and in its permanent location ready to be accepted and used by the Owner.
- Provide all detailing, engineering, submittals, labor, materials (including consumable materials), tools, equipment, supplies, transportation, and expertise necessary to complete hazardous materials abatement as required per the Contract Documents.
- 3. Provide all <u>Hazardous Material Abatement</u> per the Contract Documents. This includes but is not limited to asbestos removal, lead removal, removal and disposal of PCB and mercury containing items, removal and disposal of window AC units, work plans and third party air sampling per Federal, State and local regulations.
- 4. Provide all expertise, equipment, transportation and labor necessary to complete abatement scope of work
- 5. Provide all documentation, including but not limited to the asbestos disposal quantity report, waste shipment records, and if applicable, exemption report, clearance sampling report, completed and signed hazardous waste manifest from treatment of disposal facility and Waste Turn-in document or weight tickets for no-hazardous wastes that are disposed of.
- 6. Provide all notifications to DOH in accordance with Federal, State and local regulations.
- Provide all <u>BMP</u> measures required for this Subcontractor's operation that are not shown in the Contract Documents. This
  includes but is not limited to the management of spoils, dust control, installation, modification, removal, and disposal of the
  BMPs required for this scope of work.
- Provide <u>protection</u> for items to remain or to be protected as indicated in the Contract Documents, including the
  maintenance of these protective systems while on-site, maintenance of these items once this Subcontractor is demobilized
  shall be by the Contractor.
- Submittals must be provided to Contractor for review and submissions within 14 calendar days of execution of this
  Agreement.
- 10. Subcontractor is required to enter into the Community Workforce Agreement (CWA). Subcontract will not be executed until the CWA is full executed.
- 11. In accordance with specification 01610 this Subcontractor shall not deliver equipment more than (1) month prior to installation without authorization from the Officer-in-Charge. Hensel Phelps has developed the project site utilization plan in support of these requirements and Hensel Phelps will continue to update the plan as the project progresses to utilize the limited space most effectively.

Provide mobilize ions as necessary to complete the work in accordance with the Project Schedule. Subcontractor will not be compensated for multiple mobilizations unless prior written approval has been given by the Contractor.

Contractor

Subcontractor

- 13. Subcontractor shall provide enough manpower or work extended hours or double shift, at no additional cost to the Contractor, in order to maintain the Construction Schedule as directed by the Contractor in the event this Subcontractor falls behind schedule due to its own negligence or lack of performance. Any costs associated with working outside of normal business hours defined by the Contract Documents will be the responsibility of the Subcontractor, including but not limited to, overtime for the CM inspector, Contractor's staff and/or craft, and any other consumables or equipment required.
- 14. Pricing for back charges against Hensel Phelps or other Subcontractors may include 5% overhead but shall not include profit.
- 15. Should Subcontractor elect to pursue a back charge against another Subcontractor or Hensel Phelps, it must be submitted within 3 days of the occurrence by the Subcontractor's Project Manager on the Subcontractor's letterhead to the Hensel Phelps on-site Project Manager and must specifically identify the other Subcontractor for which this Subcontractor is attempting to back charge. Hensel Phelps shall set up a face-to-face meeting between the two Subcontractors' project managers for the purpose of resolving the back charge notice promptly and fairly.
- 16. Subcontractor's schedule of values shall include no less than 5% of the Subcontract value for closeout requirements. The 5% contract value will be held until all items are complete.
- 17. All required Use and General Excise Tax are included in the stipulated sum of this Subcontract.
- 18. The Subcontract Sum is calculated as follows:

a. Hazardous Material Abatementb. Use/GETb. Use/GETb. Totalc) \$54,934d) \$54,934

**SECTION C.** The Contractor agrees to pay the Subcontractor for the full, faithful and complete performance of this Subcontract the sum of <u>fifty four thousand</u>, <u>nine hundred and four dollars</u>(\$54,934), subject to additions and deductions for changes agreed upon in writing as hereinafter set forth or as otherwise authorized hereinafter; and Contractor further agrees to make all partial and final payments on account thereof in accordance with the terms and provisions of the Subcontract Documents including, but without restriction thereto, the provisions of Section D, Article 5 of this Subcontract.

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## **SECTION D. GENERAL PROVISIONS.**

#### **ARTICLE 1 - DEFINITIONS.**

- (a) The term "Contract" as used herein refers to the contract between the Owner and the Contractor for construction of the Project.
- **(b)** The term "Contract Documents" as used herein refers to the "Contract" between the Owner and the Contractor, together with all plans, drawings and specifications, including the General Conditions, Supplemental General Conditions, and Special Conditions, Addenda, Amendments, and/or instruments of like effect issued by or on behalf of the Owner as a part of the Contract; together with any and all other documents or instruments referred to or incorporated in the aforesaid "Contract" and "Contract Documents" and/or as identified by the Owner's Authorized Agent.
- (c) The term "Subcontract" as used herein refers to this Subcontract together with any exhibits, attachments, addenda, or other documents incorporated herewith or referred to herein; and in addition any supplemental written agreements made and entered into by the parties hereto subsequent to the date of execution of this Subcontract.
- (d) The term "Subcontract Documents" as used herein refers jointly and/or severally to the aforesaid "Contract," "Contract Documents" and "Subcontract" together with any and all alternate proposals which may be exercised or incorporated in this Subcontract, all Contract change orders issued by the Owner subsequent to the bidding and identified specifically in or incorporated by change order into this Subcontract; and all written instructions, notices, directives, job schedules, the "Job Information and Policy Brochure," and documents, specifically referred to in this Subcontract. In the event of any conflict between the terms of the Subcontract and the Contract Documents, the terms of the Subcontract shall govern.
- **(e)** The Subcontract Documents shall not include any proposals, correspondence or agreements made or alleged to have been made between the Contractor and the Subcontractor unless specifically identified and incorporated in writing herein.

#### ARTICLE 2 - COMPLIANCE WITH CONTRACT DOCUMENTS.

- (a) The Contract Documents, as defined in the Contract, are hereby incorporated by reference. Subcontractor will not do, or fail to do, any act relating to Subcontractor's work, if by reason of such act or failure to act, Contractor would be in breach of or fail to comply with the Contract Documents.
- (b) In addition to the provisions of this Subcontract, Subcontractor is bound to Contractor by and agrees to assume toward Contractor all of the obligations, liabilities, responsibilities, conditions, requirements, duties and any representations and certifications that Contractor, by either the Contract or under applicable law, assumes toward or is bound to Owner, directly or indirectly, to the extent the Contract and the applicable law apply to the work described in Section B of this Subcontract. Subcontractor is bound to the same limitations, restrictions and conditions upon its rights, remedies and redress toward Contractor as Contractor is so limited, restricted and conditioned toward the same rights, remedies and powers toward Subcontractor as Owner may exercise, directly or indirectly, toward contractor under the Contract or applicable law.
- (c) When requested to do so by the Contractor, Subcontractor agrees to submit a list of any proposed subsubcontractors and suppliers, and Subcontractor shall not delegate, assign, sublet, or further subcontract to others the performance of any of its obligations or work required or contemplated by this Subcontract without prior written consent of the Contractor, which shall not be unreasonably withheld. To the extent the Contract Documents call for the Subcontractor to consent to the assignment of the Subcontract by Contractor to Owner or Owner's Project lender if elected by Owner or such lender, Subcontractor hereby consents to such an assignment.

#### **ARTICLE 3 - EXISTING CONDITIONS.**

- Subcontractor acknowledges that it was its responsibility, prior to entering into this Subcontract, to investigate and familiarize itself with all laws, ordinances, and regulations applicable to its work under this Subcontract; with the availability of personnel, workmen, material, supplies, equipment, power, utilities, fuel and other requirements for the performance of the Subcontract and, with respect to each of the foregoing, the cost and suitability thereof; with the prevailing wage scales, benefits and working conditions; with the character and content of all other contracts related to the Project, including such separate prime contracts as may have been awarded by the Owner; the character and content of purchase orders and arrangements for supplies and material to be furnished by the Contractor for the use of Subcontractor; with all options, site considerations and restrictions, lease agreements, royalties, prevailing weather and climatological conditions and history; and any other factors which may affect Subcontractor's work under this Subcontract. The Subcontractor hereby warrants and agrees that it has investigated all such matters and familiarized itself therewith to the extent that it, in its sole discretion, deems necessary. Subcontractor further agrees that Contractor shall not be liable to Subcontractor on any claim for additional payment or additional time or any other relief if such claim directly or indirectly results from Subcontractor's failure to investigate and familiarize itself sufficiently with the conditions under which this Subcontract is to be performed, including the foregoing but without restriction thereto, or from any misunderstanding thereof on the part of the Subcontractor.
- (b) If the Subcontractor encounters surfaces or work which it considers unsatisfactory and which affect the work under this Subcontract, or if the Subcontractor encounters any other condition upon which it may base a claim for extra compensation, extra time, or any other type of claim, it shall be its duty to give written notice to the Contractor prior to commencing any work involving said conditions in order to allow the Contractor to inspect said conditions and to make such arrangements and take such steps as Contractor deems necessary. In the absence of such notice to the Contractor,

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62 63 Subcontractor shall be fully and solely responsible and liable for any and all expense, loss, or damage resulting from said condition and Contractor shall be relieved of all liability in connection therewith.

**ARTICLE 4 - ENTIRE AGREEMENT.** This Subcontract constitutes the entire agreement between the parties and contains all of the covenants, stipulations, and provisions agreed upon by the parties. This Subcontract supersedes and takes precedence over all proposals, correspondence, discussions and oral agreements between the Subcontractor and Contractor, if any concerning the subject matter hereof, made prior to and including the date hereof, and not specifically identified and incorporated in writing in this Subcontract. This Subcontract includes all alternatives, changes, addenda, amendments or any other instruments of like effect made, issued, or exercised by the Owner or the Owner's Authorized Agent through the date hereof. No agent or representative of either party hereto has authority to make, and the parties shall not be bound by, or liable for, any statement, representation, promise, or agreement not specifically set forth in this Subcontract. Except as otherwise provided for herein, no changes, amendments or modifications of the terms hereof shall be valid unless reduced to writing and signed by the parties hereto.

#### **ARTICLE 5 - PAYMENT.**

- Provided Subcontractor's rate of progress and general performance are satisfactory to the Contractor, and provided the Subcontractor is in compliance with the Subcontract Documents, the Contractor will make partial payments to the Subcontractor as provided in the Contract Documents in an amount equal to 90% of the estimated value of work and materials incorporated in the construction and of materials delivered to the Project site and suitably stored by the Subcontractor, to the extent of Subcontractor's interest in the amounts allowed thereon and paid to Contractor by the Owner less the aggregate of previous payments. In the event payment is allowed by Owner for materials stored off-site, such materials shall be stored in a bonded warehouse covered by property and theft insurance which includes Contractor and Owner as additional insureds. Payment will be made by check mailed to the Subcontractor within seven (7) working days of receipt of collected funds paid to the Contractor by the Owner under the Contract. Unless otherwise required by law, final payment will be made within thirty (30) days after the work called for hereunder has been completed by the Subcontractor to the satisfaction of the Owner and the Contractor has received from the Owner written acceptance thereof together with payment in full for Subcontractor's portion of the work. Final payment is further subject to Contractor's determination that all of the terms, conditions, requirements and covenants of the Subcontract Documents have been well and truly met and discharged by Subcontractor. To the extent permitted by applicable law, receipt by Contractor of the corresponding payment from Owner is acknowledged and agreed by the Subcontractor to be an express condition precedent to the Subcontractor's right to receive payment from the Contractor. Subcontractor acknowledges that it is sharing in the risk that Owner may fail to make one or more payments to Contractor for all or a portion of the Subcontractor's work, and further acknowledges that it is relying on the Owner's credit for payment.
- In the event the Owner is an agency or instrumentality of the United States Government and the provisions of the Prompt Payment Act, as amended (31 U.S.C. § 3901 et seg.), are applicable to the Contract, the following Subparagraphs (b) (i)-(b) (iv) shall be applicable to this Subcontract: (i) Contractor will pay to Subcontractor an interest penalty on amounts due in the case of each payment not made in accordance with the payment provision contained in Paragraph (a) of this Article. Interest shall be paid for the period beginning on the day after the required payment date and ending on the date on which payment is made of the amount due. Interest shall be computed at the rate specified in the Prompt Payment Act, as amended (31 U.S.C. § 3901 et seq.). This interest penalty shall not apply when Contractor has not received payment from the Owner pursuant to the Contract. This interest penalty shall not apply to amounts that are withheld from Subcontractor under the provisions of this Subcontract. (ii) Subcontractor shall include a payment clause and an interest penalty clause conforming to the standards set forth in Paragraphs (a) and (b) of this Article in each of its subcontracts and shall also require its subcontractors to include such clauses in their subcontracts and supply contracts with each lower-tier subcontractor or supplier. (iii) Contractor may withhold payment from Subcontractor for its defective work or failure to comply with the Subcontract without incurring any late payment interest penalty by providing written notice to Subcontractor and a copy of such notice to the Owner. The written notice shall specify the following: (1) the amount to be withheld; (2) the specific causes for withholding under the terms of the Subcontract; and (3) the remedial actions to be taken by the Subcontractor in order to receive payment of the amounts withheld. (iv) Subcontractor shall comply with all notice provisions contained in the Prompt Payment Act, as amended (31 U.S.C. § 3901 et seq.). Subcontractor also shall require each of its lower-tier subcontractors and suppliers to comply with the notice provisions of the Prompt Payment Act, as amended (31 U.S.C. § 3901 et seq.).
- (c) When requested by the Contractor to do so, the Subcontractor shall, within thirty (30) days of the date hereof or at least thirty (30) days prior to its first application for payment hereunder, submit to the Contractor a complete and accurate schedule of values of the various parts of the Subcontractor's work aggregating the total sum of this Subcontract, itemized and detailed as required by the Contractor and supported by such evidence as to its correctness as the Contractor may direct. This schedule, when approved by the Contractor, shall be used as the basis for making payments unless it is found to be in error or in conflict with the procedures or determinations of the Owner or its representative regarding partial payments to the Contractor. Not later than the last working day of any month for which Subcontractor claims a partial payment, or at such other regular intervals as the Contractor may direct, the Subcontractor shall submit a request for partial payment conforming to the schedule of values and representing a true and accurate estimate of the work completed during the immediately preceding month or such other immediately preceding period as directed and, when required by the Contractor, an accurate inventory of materials suitably stored to permit payment and certified by a representative of the Owner and/or the Contractor. Partial payments will be made only upon application submitted on a form furnished or approved by the Contractor and properly certified by an officer or representative of the Subcontractor. Subcontractor's payment application shall contain such substantiation as Contractor may reasonably require for all amounts requested. The Subcontractor shall certify its

application for payment in a form acceptable to the Contractor. Each application shall be accompanied by such additional data, invoices, vouchers, lien and claim waivers, certifications and affidavits as may be required by the Owner and/or as the Contractor may require for proper processing of payments and adequate protection of the premises from potential claims of third parties. It shall be the Subcontractor's sole responsibility to submit each application for payment hereunder in the time and in the manner prescribed herein and on the form provided or approved by Contractor for such purpose and in no instance shall Contractor be liable for the time or sufficiency of payment pursuant to any application or request not complying herewith. The Subcontractor agrees that applications for payment not complying herewith may, at the option of the Contractor, be held over for processing during the month, or other designated billing period next following correction, resubmission or late submission of such application.

- (d) No partial payment or certificate therefor shall constitute acceptance or approval by the Contractor of the work or material for which the partial payment is made. No partial payment shall constitute a waiver by the Contractor of any right to require fulfillment of all terms of the Subcontract Documents. Neither the final payment nor any partial payment, nor any certificate for either shall constitute acceptance by the Contractor of defective work or improper materials or of any element of Subcontractor's performance determined to be at variance with the Subcontract Documents. Each partial payment and the final payment made hereunder, and the total thereof, will be subject to final audit and adjustment, and the Subcontractor hereby agrees to reimburse the Contractor in the event of overpayment, together with any costs and expenses, including attorneys' fees, the Contractor may incur in securing recovery thereof.
- (e) Notwithstanding the amounts and times of payments set forth above, the Contractor at any time may make advance payments to the Subcontractor if, in the Contractor's sole discretion, such advances will aid the Subcontractor in the performance of this Subcontract. Such advance payments may be made without notification to the surety on any bond furnished by or on behalf of Subcontractor, and the failure to give such notice will not deprive Contractor of any claim, right, or remedy under any such bond.
- (f) Contractor reserves the right to make any payment to Subcontractor, including payments due hereunder, through the medium of a check made payable to the joint order of Subcontractor and such of Subcontractor's workmen, materialmen, suppliers or subcontractors, or any of Subcontractor's creditors having potential lien or bond claim rights against the work or the Project.
- (g) The Contractor may deduct from amounts due or to become due to the Subcontractor pursuant to this Subcontract, any sums due or to become due to the Contractor from the Subcontractor whether or not said sums are in any way related to this Subcontract or Project. Contractor may apply such deducted funds to any account, related or unrelated to this Subcontract or Project, wherein the obligations of the Subcontractor have not been discharged as determined by the Contractor, and wherein the Contractor's interests are directly or indirectly involved.
- (h) In the event Subcontractor is in default of, or breaches or fails to comply with any provision, covenant or requirements of this Subcontract or the Subcontract Documents; or in the event any person asserts, or indicates it will assert, any lien, claim, demand, or charge against the Project or land or improvements or funds related to the Project, or against the Owner, the Contractor or any surety, arising from Subcontractor's performance of this Subcontract, the Contractor may, at its option, withhold out of any payments due or to become due to the Subcontractor such amounts as the Contractor may deem sufficient to protect and indemnify the Contractor, the Project or the Owner from any and all loss, damage and/or expense therefrom, including attorneys' fees and litigation costs, until the condition requiring such measures has been remedied by the Subcontractor to the satisfaction of the Contractor. If the offending condition is not remedied by the Subcontractor within a reasonable period of time, the Contractor may, at its option, proceed to make application of the withheld funds in whatever manner the Contractor may determine as being in the best interest of itself and/or the Owner. If the Contractor is compelled to expend monies in defending, discharging or otherwise disposing of any claim or lien or other demand in excess of retained or withheld sums, the Subcontractor shall, upon demand, reimburse the Contractor for the excess amount so expended, including reasonable attorneys' fees and costs incurred by Contractor incident to such defense, discharge or disposition, and/or incident to Contractor's collection from Subcontractor of such excess.
- (i) Notwithstanding anything to the contrary contained or applicable to this Subcontract, and without any limitation as to time, Contractor shall not be obligated to make payments to Subcontractor under this Subcontract: (i) When such payments will leave a balance due Subcontractor which is less than an amount adequate to satisfy all outstanding and subsequent obligations of the Subcontractor for labor, materials, supplies, tools, machines, plant, equipment, services, furnished or to be furnished by Subcontractor in performance of the work required under this Subcontract; (ii) When Subcontractor is or with reasonable probability may become unable to comply with or completely perform this Subcontract; (iii) Whenever the Contractor shall determine the Project is being delayed or is in danger of being delayed by the work of the Subcontractor or by any failure of the Subcontractor to effect timely compliance with any of the technical, administrative or operational requirements of the Subcontract Documents, including subsequent instructions, job schedules and "Job Information and Policy Brochure" instruments issued pursuant to this Subcontract and/or adopted by reference hereto; (iv) Pending satisfactory correction, repair, replacement and/or restoration of faulty or deficient work, materials, supplies, machines, equipment or plant, or of any work rejected as not conforming with this Subcontract or the Subcontract Documents.
- (j) The Subcontractor agrees and covenants that money received for the performance of this Subcontract shall be used solely for the benefit of persons and firms supplying labor, materials, supplies, tools, machines, equipment, plant or services exclusively for this Project in connection with this Subcontract and having the right to assert liens or other claims against the land, improvements or funds involved in this Project or against any bond or other security posted by Contractor or Ownerpthat any money paid so the Subcontractor pursuant to this Subcontract shall immediately become and constitute a trust

Subcontractor

fund for the benefit of said persons and firms, and shall not in any instance be diverted by Subcontractor to any other purpose until all obligations arising hereunder have been fully discharged and all claims arising herefrom have been fully paid. The Subcontractor agrees, as a condition precedent to payment hereunder, to furnish the Contractor with such partial and/or final releases and/or waivers of lien, bond or other claims as the Contractor may from time to time request.

- (k) If at any time the Contractor shall determine that the Subcontractor's financial condition has become impaired, unstable or unsatisfactory, the Subcontractor shall furnish evidence of the financial ability to complete the Subcontract to the Contractor within three (3) days after written demand thereof is mailed or delivered to Subcontractor and in default of furnishing such evidence satisfactory to Contractor, the Contractor shall have the option to terminate this Subcontract or to initiate such other action as the Contractor may deem necessary for the protection or preservation of its interests and/or the prevention of delay in the efficient and orderly progress of work on the Project, including but not limited to that portion of the work to be performed by Subcontractor hereunder. In the event of such termination, the rights of the Contractor shall be the same as provided in Article 19 of this Subcontract.
- (I) The Subcontractor and Contractor agree as follows with respect to the assignment of such payments as may be due or as may become due under this Subcontract: (i) The Subcontractor will make no assignment of the proceeds hereof without the prior written consent of the Contractor, which consent shall not be unreasonably withheld; (ii) In no instance shall the Contractor be obligated to any assignee of the Subcontractor on account of payments at any time made in good faith under any assignment and/or erroneously or inadvertently made to the assignor; (iii) The Contractor shall in no instance be liable to any assignee of the Subcontractor for any amount in excess of the net sums owing Subcontractor hereunder after first deducting any amounts for which Subcontractor may otherwise be obligated or indebted to Contractor; (iv) By making an assignment of the proceeds hereof the Subcontractor agrees to assume full liability for the conveyance to assignees of any payments mistakenly, inadvertently, or otherwise made or addressed to Subcontractor, and Subcontractor agrees to defend and hold harmless the Contractor from any claim or action of any assignee related to this Subcontract.
- **ARTICLE 6 UNIT PRICE MEASUREMENT.** If the terms of this Subcontract provide for the payment of work performed on a unit price basis, the unit of measurement for payment shall be one for which certified verification of weights of quantities can be furnished at the time of delivery or readily agreed upon. In the event the parties fail to agree on the actual quantities performed, Contractor shall have the right to measure the quantity of work-in-place and make final settlement on the basis of such measurement.

#### ARTICLE 7 - JOB INFORMATION AND POLICY BROCHURE (JIP) AND QUALITY CONTROL PLAN (QCP).

- (a) The Subcontractor and Contractor agree that it would be impractical to recite herein the many administrative and operational requirements governing the efficient execution and management of the work called for hereunder, and further, that determination of all the necessary procedures and schedules may not be completed for promulgation at the date of this Subcontract, and that therefore, as a practical matter, it is desirable and shall be acceptable to both parties hereto that such requirements may be set forth in a separate instrument to be submitted to the Subcontractor as provided herein and shall be adopted as part of this Subcontract. It is therefore agreed that the Contractor may prepare separate project-specific instruments entitled "Job Information and Policy Brochure" (JIP) and "Quality Control Plan" (QCP) and submit them to Subcontractor.
- (b) The JIP may set forth specific instructions relative to the delivery, storage and handling of materials; preparation, submission and approval of shop or fabrication drawings, samples, tests, and other data related to the materials, equipment and methods used or proposed for use by Subcontractor in the performance of this Subcontract; the preparation and submission of partial payment requests, sales tax reports, certificates of insurance, performance and payment bonds, lien releases, payroll reports and affidavits, progress reports, accident and accident prevention reports, reports and affidavits relating to employment practices, and any other administrative reports or submittals required by the Subcontract Documents; job progress schedules and/or revisions thereof; tentative, confirmed, and/or revised delivery and starting dates; equipment loan and rental policies, backcharge and "extra" charge procedures and policies; services to be furnished by the Contractor; safety and first aid or emergency medical treatment requirements for the Project, safety programs applicable to the Project; policies and procedures for cleanup and removal of trash and debris, control of traffic and employee parking, hauling and storage of materials; and policies and procedures governing the use of shared facilities including those facilities furnished by the Contractor. In addition thereto, the JIP may include instructions, directives, and information of any and all such additional matters as the Contractor deems appropriate.
- (c) The QCP will contain information relating to guidance, standards and documentation for delivering the level of construction quality required by this Subcontract.
- (d) Subcontractor shall promptly review and note the contents of the JIP and QCP when received, and shall notify the Contractor at once in writing of any objection thereto and set forth in detail the part or parts to which objection is raised. If required to do so by the Contractor, Subcontractor shall promptly acknowledge receipt of the JIP and QCP in the manner prescribed, and Subcontractor's failure to do so may, at the option of the Contractor, constitute grounds for withholding payment hereunder. Should no notification stating Subcontractor's objections be received in the Contractor's office within seven (7) days following receipt by Subcontractor of the JIP and/or QCP, then such instrument(s) shall automatically become a part of this Subcontract and shall be of the same force and effect as if recited herein verbatim. In the event that within said seven (7) day period Subcontractor shall furnish Contractor written notification of any specific objections to the JIP or QCP, all of the parts and provisions of them to which there are no specific written objections shall automatically become a part of this Subcontract. The provisions observed to shall become the subject of further discussion and negotiation between parties at the earliest practical date, and said parts may be modified by mutual agreement or, if agreement cannot be attained, shall, at the

Contractor's option, either constitute and be deemed a written order from the Contractor to Subcontractor pursuant to Article 16 of this Subcontract or be stricken from the applicable instrument without effect on any other requirement or provision of said instrument or the remainder of the Subcontract Documents.

(e) The submission by Contractor to the Subcontractor of the JIP and/or QCP shall in no manner terminate or rescind this Subcontract, or any part hereof, and except as may be specifically modified or extended by either instrument, all of the terms and provisions of this Subcontract shall remain in full force and effect.

ARTICLE 8 - TOOLS AND EQUIPMENT. Except to the extent expressly provided otherwise herein, the Subcontractor shall provide at its own expense whatever tools, machines, equipment, plant, utilities, service, storage sheds, workshops, offices, other temporary structures, and any other facilities it may deem necessary for the complete performance of all work required under this Subcontract, and shall remove any such installations and thoroughly clean and restore the site and premises at the completion of the work. If the Subcontractor has occasion to utilize any of the facilities of the Contractor, when and if available, Subcontractor shall pay an equitable portion of the cost thereof; provided, however, that Contractor shall bear no responsibility for any loss or damage from any cause whatsoever arising from Subcontractor's use of such facilities.

#### **ARTICLE 9 - SUBMITTALS.**

- (a) The Subcontractor agrees to submit all shop or fabrication drawings, design and performance data, tests, samples, templates, and operation and/or maintenance manuals required in connection with the performance of this Subcontract and/or required by the Contract Documents for the performance of the Subcontractor's work; together with any and all other necessary data related to the materials, methods, and equipment used or proposed for use in the performance of this Subcontract promptly and/or as directed by the Contractor, and in sufficient number to provide adequate information to all parties requiring same. Approval of any of the foregoing by the Contractor, the Owner or the Owner's Authorized Agent shall under no circumstances alter the requirements of the Subcontract Documents for quality, quantity, finishes, dimension, design or configuration except to the extent specifically noted and approved on such submittals; nor shall such approval constitute acceptance by the Contractor of any method, material or equipment not ultimately acceptable to the Owner or the Owner's Authorized Agent. Subcontractor shall prepare and maintain a complete set of "as-built" drawings for its work, which shall be submitted to the Contractor as a condition to receipt of monthly and final payments.
- (b) The Subcontractor agrees the cost of all designs, drawings, tests, samples, templates and mock-ups required to be provided by the Subcontractor hereunder, together with field measuring, layout, sampling and shipping or delivery expense connected with any of the foregoing, is included in the amount of this Subcontract, except the Contractor agrees to furnish, upon request, starting field coordinates to allow Subcontractor to perform the layout of its work. The Subcontractor agrees the entire cost of altering, reworking and refinishing any manufactured or fabricated items supplied by Subcontractor not conforming to approved designs, drawings, templates or samples shall be borne by the Subcontractor.
- (c) The Subcontractor hereby assigns to Contractor all copyrights to all Project-related documents produced by Subcontractor and/or sub-subcontractors. Among those documents are certain "Instruments of Service," including shop or fabrication drawings, design and performance data, tests, samples, templates and operation and/or maintenance manuals. Contractor, in turn, hereby grants to the Subcontractor a nonexclusive license to reproduce the documents for purposes relating directly to the Subcontractor's performance of the work under this Subcontract.
- ARTICLE 10 LABOR ONLY SUBCONTRACTS. It is hereby agreed by Subcontractor, if furnishing labor only for the finishing, installation or erection of materials furnished by Contractor, the following costs, without restriction thereto, are to be fully recovered by Contractor from Subcontractor: (a) The full cost of materials required to replace those spoiled by Subcontractor through faulty workmanship or negligence, or damaged by any other cause not the fault of Contractor; (b) The full cost of materials wasted by Subcontractor; (c) The full cost of removing rejected materials when not properly and promptly removed by Subcontractor, together with the cost of removing, patching or replacing the work of others necessitated by such rejection; (d) The full cost of reworking, refinishing or altering any work of Subcontractor not accepted by the Owner or the Owner's Authorized Agent; (e) Costs resulting from damage by Subcontractor to materials or work of Contractor or others.
- **ARTICLE 11 CUTTING, PATCHING AND COORDINATION.** The Subcontractor shall obtain Contractor's approval for and do any cutting, patching and blocking necessary to complete Subcontractor's work hereunder, and such work shall be performed to the same standards and shall match any related work in accordance with the Contract Documents. The Subcontractor further agrees to cooperate with the Contractor and other subcontractors whose work might interfere with the Subcontractor's work and prepare sketches and drawings as directed, and/or to participate in the preparation of coordination drawings in areas of congestion, specifically noting and advising the Contractor of any possible interference by other trades with the performance of Subcontractor's work.
- ARTICLE 12 CLEAN-UP. Subcontractor agrees to keep the premises clean at all times and to remove from the site all rubbish, debris, packing materials, scrap and waste materials resulting from its work under this Subcontract within twenty-four (24) hours after receipt from Contractor of written notice to do so. Subcontractor shall not dispose of any hazardous materials in dumpsters supplied by Contractor. Subcontractor shall handle and dispose of hazardous materials utilized by Subcontractor in connection with its work in accordance with applicable law and regulations, and the requirements of the Hazardous Materials and Waste Site-Specific Contingency Plan issued by Contractor for the Project. Subcontractor further agrees to clean and remove, to the satisfaction of the Contractor, all dirt, grease, marks, stains or other imperfections from all finished work and property throughout the Project resulting from the execution of the work required under this Subcontract. The Subcontractor shall properly cover and protect the work of others from damage or soiling arising from the performance of the work required under this Subcontract, and Subcontractor shall promptly clean, restore, replace, or pay for the replacement

 of any such work damaged or soiled in the performance of its own work. If the Subcontractor refuses or fails, in the manner and time aforesaid, to promptly perform such cleaning and/or repairs as directed by the Contractor, the Contractor shall have the right to proceed with such cleaning and/or repair, and Subcontractor, on demand therefore, shall repay to the Contractor the actual cost of such work plus a reasonable percentage to cover Contractor's supervision, insurance, tax and overhead; or at the option of the Contractor, the aforesaid charges may be accumulated and deducted from monies otherwise due the Subcontractor under the Subcontract.

**ARTICLE 13 - PAYMENT FOR LABOR AND MATERIALS.** Subcontractor shall pay for all materials and supplies furnished and for all work, labor and services performed as required under this Subcontract, shall produce satisfactory evidence of such payment upon demand by the Contractor, and shall indemnify and defend Contractor, its Surety and Owner against and save them and the premises harmless from any and all claims, demands, liens or suits, including attorneys' fees and costs, for all such material and supplies purchased and for all work, labor and services performed relating to all work required to be performed under this Subcontract. If a mechanic's lien, bond claim or other encumbrance is filed by a third party against the Project or a bond provided by Contractor relating to the Project seeking recovery for any amounts allegedly due relating to the performance of the Subcontractor's work called for hereunder, Subcontractor shall immediately cause to be filed in compliance with applicable law such bond as is required to cause the mechanic's lien or bond claim to be released.

**ARTICLE 14 - WARRANTY.** The Subcontractor warrants and guarantees the work and materials which it performs or furnishes under this Subcontract as required by the Contract Documents and agrees to make good, at its own expense, any defect in materials or workmanship which may occur or develop prior to Contractor's release from responsibility to the Owner therefor under the Contract Documents or applicable law. The Subcontractor further agrees to adopt and assume, as a direct obligation to the Contractor and/or the Owner, any guarantees or warranties which would otherwise be the responsibility of the Contractor or other subcontractors, when such guarantees or warranties have been voided, waived, withdrawn or cancelled as a result of the Subcontractor's operations hereunder, or on account of any act or omission in the performance of this Subcontract.

#### **ARTICLE 15 - TIME.**

- (a) Time is of the essence and the Subcontractor agrees to keep itself thoroughly informed as to the overall progress of the Project; to commence and to prosecute the work undertaken hereunder in a prompt and diligent manner whenever such work, or any part of it, becomes available, or at such time or times as the Contractor may direct, so as to promote the general progress of the entire construction Project; and Subcontractor shall not by delay or otherwise, interfere with or hinder the work or progress of the Contractor or any other subcontractor. Any materials, services, supplies, tools, machines, equipment or plant to be furnished or used by Subcontractor hereunder shall be furnished in sufficient time to enable the Subcontractor and/or any other party requiring same, to perform and complete their work within the time or times established as herein provided. Upon Contractor's request, Subcontractor shall furnish such evidence as the Contractor may require relating to Subcontractor's ability to fully perform this Subcontract in the manner and within the time established as herein provided.
- (b) Except as otherwise provided in Article 7 hereinabove, the Subcontractor agrees to notify the Contractor in writing of its objection or inability to comply with any directive, notification, order, schedule or revision thereof dealing with the time or times of its performance hereof within three (3) days of Contractor's issuance thereof. In absence of such written notice within three (3) days, the Subcontractor agrees to accept for incorporation herein any and all orders, notices, directives, schedules or revisions thereof which may be issued from time to time by the Contractor to Subcontractor's last known address or through its representative at the site of the work, and in the event of any conflict between the requirements of any of the foregoing, it is agreed the time or times of performance shall be governed by the communication bearing the most recent date. Specific requirements as to time of performance set forth in the Subcontract Documents or subsequent additions thereto, or in directives, orders, schedules or schedule revisions issued by Contractor, shall take precedence over general requirements. All work required to be performed under this Subcontract shall be performed in accordance with such specific requirements. Subcontractor's obligations for timely performance of its work shall be based on the planned activity durations in the Project schedule once Subcontractor's work has commenced, and not necessarily on the overall start and finish dates for Subcontractor's work set forth in the initial Project schedule.
- (c) In the event of any failure of Subcontractor to complete its work within the required time or upon the dates established as provided hereinabove, the Subcontractor hereby agrees to reimburse the Contractor for any and all liquidated damages that are assessed against and collected from the Contractor by the Owner, which are attributable to or caused by the Subcontractor's failure to comply fully with the foregoing provisions; and further, whether or not liquidated damages are so assessed, Subcontractor hereby agrees to pay the Contractor such other or additional damages as the Contractor may sustain by reason of any such delay attributable to or caused by the Subcontractor, including, but not limited to, recovery of Contractor's overhead and expense caused by or attributable to managing and supervising the Project during or equal to any period of time resulting from such delay of Subcontractor; and Subcontractor further agrees that neither the payment of such damages nor any liability incurred for the payment of such damages shall release the Subcontractor from its obligation to otherwise fully perform under this Subcontract.
- (d) No allowance for an extension of time, for any cause whatever, shall be claimed or made by the Subcontractor unless the Subcontractor shall have made written request upon the Contractor for such extension within three (3) days after the cause for such extension first occurred, and unless the Contractor and Subcontractor have agreed in writing upon the allowance of additional time. No extension of time granted Contractor by Owner shall inure to the benefit of Subcontractor unless such extension of time is directly related to Subcontractor's work hereunder.

(e) In no event shall an extension of time or allowance for extra time be granted to Subcontractor for delays attributable to untimely or incorrect preparation and/or submissions of shop drawings, samples, product data, or any other submittal information required by the Contract Documents; or when orders have not been placed with manufacturers or suppliers in a timely manner; or for delays resulting from Subcontractor's substitution, or attempt to make substitution, of materials, equipment or methods of construction or manufacture in lieu of those specified or previously approved; or for any delay resulting from or attributable to Subcontractor's failure to comply with any of the provisions of this Subcontract.

ARTICLE 16 - CHANGES AND CLAIMS. Contractor may at any time, by written order and without notice to surety, make changes in the work called for herein and Subcontractor shall proceed with the work as directed. If said changes cause an increase or decrease in the cost of performance or in the time required for performance, an equitable adjustment shall be made and this Subcontract shall be modified in writing accordingly. Subcontractor shall provide written notice of any alleged change to the work or other claim directed or caused by Contractor within three (3) days of the occurrence giving rise to the alleged change or claim or such claim shall be conclusively waived. Subcontractor's entitlement to an adjustment in the cost or time required for performance of a change in the work directed or caused by the Owner shall be governed by the terms of the Contract Documents. Nothing herein contained shall excuse the Subcontractor from proceeding with the prosecution of the work as changed.

#### **ARTICLE 17 - OWNER-RELATED CLAIMS.**

- The disputes resolution procedure set forth in the Contract Documents is specifically incorporated herein and made a part of this Subcontract. The Subcontractor agrees to make any claims to the Contractor for damages or additional compensation based on alleged extra work, changed conditions or any other grounds in the same manner as provided in the Contract Documents for like claims of the Contractor upon the Owner, and in such times as will enable the Contractor to timely present such claims to the Owner for payment or recognition. The Contractor will not be liable to the Subcontractor on account of any claims not timely or properly presented. For those claims for which the Owner may be responsible under the Contract Documents, the Contractor will not be liable to the Subcontractor unless and until and only to the extent the claim is allowed and paid for by the Owner. Notwithstanding anything to the contrary contained herein, no interruption, cessation, postponement or delay in the commencement of the work or in the progress thereof from any cause whatsoever, including disputes, shall relieve the Subcontractor of its duty to perform.
- In the event the Contract is between the Contractor and an instrumentality of the United States Government, Subcontractor agrees that any claim by it will be prepared and submitted in full compliance with the Contract Disputes Act (41 U.S.C. § 605 et seq.). Accordingly, Subcontractor shall submit and certify its claim in accordance with the requirements of the Contract Disputes Act and the Federal Acquisition Regulations, all as may be amended from time to time, governing the performance of the Contract and this Subcontract. Subcontractor shall make available for inspection and/or audit by the Contractor and/or the Government all financial and project records in any way related to its claim. Subcontractor agrees to pursue and exhaust the procedures of the Contract Disputes Act before commencing any other action for any claims it may have arising out of the performance of the work hereunder.
- If the Contract incorporated herein is one for which the Contractor has provided any bond(s) pursuant to 40 U.S.C. § 270 (a), et seq., the "Miller Act," Subcontractor expressly agrees to stay any action or claim arising out of or relating to this Subcontract against the Contractor and/or the surety which issued Contractor's bond(s) ("Miller Act Action") pending the complete and final resolution of all claims involving the Subcontractor submitted pursuant to the disputes procedure referenced above. Said action shall be stayed until such time as all appropriate appeals under the Contract Disputes Act have been determined, including any appeal to the Court of Appeals for the Federal Circuit. If the Contractor has provided any bond(s) pursuant to any state or local statutory or regulatory requirement, the Subcontractor agrees to stay any action or claim arising out of or relating to this Subcontract against the Contractor and/or the surety which issued Contractor's bond(s) ("Little Miller Act Action") pending the complete and final resolution, including all appropriate appeals, of all claims involving the Subcontractor submitted pursuant to the disputes procedure set forth in the Contract. These terms in no way excuse or stay Subcontractor's obligation to file any and all notices as required by statute, code, rule, regulation or bond.

#### **ARTICLE 18 - DISPUTES.**

In the event of any dispute or claim between the Contractor and the Owner which involves the work required to be performed by Subcontractor under this Subcontract, or in the event of any dispute or claim between Contractor and Subcontractor which involves a claim against the Owner for additional compensation and/or an extension of time, Subcontractor agrees to be bound to Contractor and Contractor agrees to be bound to Subcontractor with respect to such dispute or claim to the same extent the Contractor is bound to the Owner by the terms of the Contract Documents and by any and all decisions, findings or determinations made thereunder by the person so authorized in the Contract Documents, or by any administrative agency or court of competent jurisdiction, whether or not Subcontractor is a party to the proceedings before said person, agency or court. If any dispute or claim is prosecuted or defended by Contractor which relates in whole or in part to Subcontractor's work, and Subcontractor is not directly a party or litigant, Subcontractor shall be provided the opportunity to participate in such proceedings to the fullest extent practicable and Subcontractor agrees to cooperate fully with the Contractor and to furnish all documents, statements, witnesses and other information required by Contractor for such purpose and to pay or reimburse Contractor for all expenses and costs, including reasonable attorneys' fees, incurred in connection therewith to the extent of the Subcontractor's interest in such claim or dispute. It is expressly understood and agreed in connection with the determination of Subcontractor's interest in such claims or disputes that Contractor shall never be liable to Subcontractor to any greater extent than Owner is liable to Contractor. In the event a final decision concerning such a dispute does not



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clearly apportion the amount due from the Owner to Contractor and Subcontractor, the Subcontractor expressly agrees to be bound by the apportionment of the award made by Contractor, which shall be final and conclusive.

(b) All claims or disputes between Contractor and Subcontractor, other than those claims or disputes referred to in Paragraph (a) of this Article, shall be brought exclusively in a federal District Court of competent jurisdiction unless (1) the federal District Court lacks subject matter jurisdiction or (2) Contractor in its sole discretion elects binding arbitration. If Subcontractor files any action against Contractor in state court, Subcontractor consents to removal to federal District Court and Subcontractor shall pay all costs and expenses (including attorneys' fees and court costs) Contractor incurs removing the case to federal District Court.

Contractor may elect binding arbitration of any claim or dispute arising out of or related to this Subcontract. If Contractor elects binding arbitration, all claims, actions, and causes of action against Contractor or Contractor's surety to recover on any bond posted by Contractor shall be stayed pending completion of the arbitration. The arbitration shall be governed by the Federal Arbitration Act. Subcontractor acknowledges good and valuable consideration was conveyed to Subcontractor in exchange for this arbitration clause.

If Contractor provides notice to Subcontractor that the claim or dispute directly or indirectly involves a claim against the Owner, Subcontractor will present and pursue the claim or dispute pursuant to the disputes provisions of the Contract Documents as required by Articles 17 and 18. All claims, actions, and causes of action against Contractor or Contractor's surety to recover on any bond posted by Contractor shall be stayed pending final resolution of the claim or dispute against the Owner.

Any proceedings commenced in any court shall be tried before and decided by the presiding judge without a jury. Subcontractor and Contractor expressly waive any right to have such proceedings determined by trial by jury.

If any part of Paragraph (b) of this Article is determined to be unenforceable, then the claim or dispute shall be decided by binding arbitration governed by the Federal Arbitration Act.

- (c) In the event of any claim or dispute between Contractor and Subcontractor, as referred to in either or both of the two immediately preceding paragraphs, or otherwise, it is further specifically agreed by the parties hereto that no claim, dispute or controversy shall interfere with the progress and performance of work required to be performed under this Subcontract and the Subcontractor shall proceed as directed by Contractor in all instances with its work under this Subcontract, and any failure of Subcontractor to comply herewith and to proceed with its work shall automatically be deemed a material breach of this Subcontract entitling Contractor to all remedies available in the event of breach.
- (d) This Subcontract shall be governed by and construed in accordance with the law of the State where the Project is located. The venue for any dispute governed by this Subcontract shall be the County where the Project is located. Unless otherwise specified in the Contract Documents, all applicable statutes of limitations and/or statutes of repose shall commence on the date of Substantial Completion of the Project as determined by the Contract Documents.
- (e) In the event of any claim or dispute between Contractor and Subcontractor under this Article 18, the parties shall bear their own legal costs and expenses (including attorneys' fees, court costs, arbitration fees and costs, and expert and consultant fees and costs).

#### **ARTICLE 19 - DEFAULT AND TERMINATION.**

- In the event the Subcontractor fails to comply, or becomes unable to comply, or with reasonable probability will become unable to comply, with any of the material provisions of this Subcontract, or in the event Subcontractor fails to supply a sufficient number of properly skilled workmen or sufficient supplies, materials, equipment or plant of proper quality, or fails to prosecute the work with promptness and diligence; or in the event Subcontractor abandons its work or any part thereof; and such failure, inability, or deficiency is not corrected within three (3) days after written demand by the Contractor to the Subcontractor, the Contractor may, in addition to and without prejudice to any other right or remedy, take over and complete the performance of this Subcontract, at the expense of the Subcontractor; or the Contractor may, without taking over the work, immediately and without notice to Subcontractor, furnish the necessary materials and labor, through itself or others, to supplement the Subcontractor to remedy the situation, all at the expense of the Subcontractor. However, in the event Subcontractor provides Contractor with notice of Subcontractor's inability to continue performance and/or abandonment of the Subcontract, Contractor shall be immediately entitled to invoke the remedies provided for in this Article without providing the three (3) days' notice otherwise called for herein. The parties hereto further agree that any of the following shall, at the option of the Contractor and subject to applicable law, constitute inability to comply with the provisions of this Subcontract for purposes of this Article: (a) The filing of a petition in bankruptcy or a petition for the appointment of a receiver by or against the Subcontractor or the failure of Subcontractor to promptly provide adequate assurances of continued performance following the filing of such a petition; (b) The insolvency of the Subcontractor or its inability to meet its debts as they mature; (c) The establishment of a receivership or any committee of creditors involving Subcontractor's business or assets, or the making of a general assignment for the benefit of Subcontractor's creditors.
- (b) In the event Contractor does take over Subcontractor's work pursuant to this Article, Contractor shall have access to and may take possession of the Subcontractor's materials, supplies, machines, tools, equipment, and plant which may be located at the site of the work or en route to the site, as may be necessary to prosecute the work hereunder to completion, all without liability on the part of the Contractor for any damage, wear or tear, depreciation, theft, action of the elements, acts of God, fire, flood, vandalism or for any other injury or damage to such materials, tools and equipment. Upon any action by the Contractor shall not be entitled to further payment under this

Subcontract until the work has been completed and accepted by the Owner and payment therefor has been received by the Contractor from the Owner. In the event that the unpaid balance due exceeds the expense incurred by the Contractor, the difference shall be paid to the Subcontractor; but if such completion expense exceeds the balance due, the Subcontractor agrees to promptly pay the difference to the Contractor, as hereinafter provided, and the Contractor shall have a lien upon all materials, tools, equipment and appliances taken possession of, as aforesaid, to secure the payment thereof. With respect to expenses incurred by the Contractor pursuant to this Article, it is hereby agreed that the costs and expenses chargeable to the Subcontractor as provided herein shall include, without restriction, all direct costs incurred in the completion of Subcontractor's work, the cost of supervision, administration, job overhead, travel, attorneys' fees, legal and accounting fees and expenses, and Contractor's general overhead as allocated to the work, plus 10% of the foregoing cost of the work performed by or through the Contractor, less any amounts still owing hereunder, and Subcontractor agrees to pay the full amount of such excess, if any, together with interest thereon at the rate of 10% per annum until paid. The rights of Contractor set forth in this Article shall be in addition to, and not in lieu of any right or remedy otherwise available to it at law or equity.

**ARTICLE 20 - TIMELY DELIVERIES.** The Subcontractor agrees to accept full responsibility for expediting and securing timely delivery of its materials, supplies, tools, machines, equipment and plant to the site of the work. In the event the lack thereof should delay construction, the Subcontractor hereby agrees that Contractor may undertake to expedite delivery by any means available and the entire cost thereof shall be chargeable to the Subcontractor and may be deducted from monies otherwise due hereunder.

**ARTICLE 21 - PROTECTION OF THE WORK.** It is understood and agreed the work provided for in this Subcontract constitutes only a part of the work being performed on this Project by the Contractor and other subcontractors. The Subcontractor therefore agrees to perform the work called for in this Subcontract in such a manner that will not injure or damage any other work performed by the Contractor or any other subcontractor, and Subcontractor further agrees as follows:

- (a) To furnish continuous and effective protection at all times for its own work-in-place and all materials stored for use under this Subcontract, and to bear and be solely liable for all loss and/or damage of any kind to said work and materials occurring at any time prior to the final completion and acceptance thereof, unless said loss or damage is caused by the sole negligence of the Contractor;
- (b) To pay or reimburse the Contractor on account of any damage or injury to the work or property of the Owner, the Contractor and other subcontractors caused by or arising from the performance of Subcontractor's work as provided in this Subcontract, including the cost of replacing, repairing, refinishing or restoring any work damaged, removed or displaced in the course of correcting or repairing work or replacing materials hereunder which are rejected by the Owner or the Owner's Authorized Agent or which are deemed to be at variance with the requirements of this Subcontract;
- (c) That unresolved claims resulting from glass breakage, damage to finished surfaces, permanent fixtures or equipment, and such other related occurrences wherein the identity of the responsible party is unknown or undetermined, and for which no insurance settlement may be had, may, upon completion of the Project and at the Contractor's option, be fairly and equitably prorated for assessment to the Subcontractor's account and/or to the accounts of those subcontractors who, in the determination of the Contractor, were engaged on the work in a manner and at a time or times from which contributory involvement may reasonably be inferred; and the Subcontractor further agrees that Contractor's decisions or determination in such proration shall be final and conclusive.

ARTICLE 22 - INDEMNIFICATION. To the fullest extent permitted by law, the Subcontractor expressly agrees to indemnify, defend and hold harmless (1) the Contractor and the Contractor's partners, subsidiaries, and affiliate companies, (2) the Owner and the Owner's Authorized Agent, and (3) any other party the Contractor is obligated to indemnify under the Contract (collectively, "the Indemnitees") from and against any and all liability, claims, losses, damages, causes of action, costs and expenses (including attorneys' fees), arising or allegedly arising from the work performed by the Subcontractor or for the Subcontractor's account under this Subcontract, including any claim or liability arising from any act, error, omission, or negligence of the Contractor occurring concurrently with that of the Subcontractor or contributing to any loss indemnified hereunder, except for the sole negligence or willful misconduct of the Contractor. The claims to which this indemnity obligation shall apply include, but are not limited to, claims for personal injury or death to any person or persons (including but not limited to officers, agents and employees of Contractor, Subcontractor or lower-tier subcontractors to Subcontractor), property damage, or other damage, arising or allegedly arising from Subcontractor's work.

The Subcontractor shall indemnify, defend and hold harmless the Indemnitees from any and all claims, suits, and causes of action by vendors, employees or agents of the Subcontractor or its lower-tier subcontractors when such claims, suits, losses, damages or expenses shall have been incurred or are alleged to have been incurred as a result of an unsafe place to work, failure to properly supervise, or such similar types of complaints. The Subcontractor, its lower-tier subcontractors and vendors shall not raise the immunity of workers' compensation acts or similar laws as a defense to the obligations assumed hereunder with respect to actions brought by their own employees against the Indemnitees.

Article 22 shall survive termination or expiration of this Subcontract.

ARTICLE 23 - SUBSTITUTIONS. The parties hereto stipulate that for purposes of interpreting and applying this Article, the term "substitution" shall be deemed to include any substitution for, modification of, or deviation from the requirements of the plans and specifications referenced in or made a part of the Contract Documents with respect to the materials, equipment and methods of construction or manufacture applicable to the Subcontractor's work hereunder. The Subcontractor warrants and agrees that it has thoroughly familiarized itself with all of the various sections, divisions and subdivisions of the Contract Documents and the Subcontract Documents, including in particular those areas in which its work

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may in any way affect or be affected by the work of the Contractor or other subcontractors. The Subcontractor shall make no substitution, as defined herein, for which prior written approval of both the Owner and the Contractor has not been obtained. Such approval will not be granted by the Contractor unless applied for in writing by the Subcontractor setting forth a full disclosure of the effect of the proposed substitution upon the work of the Contractor or any other subcontractor. In making or seeking to make any substitution, the Subcontractor hereby agrees to pay or reimburse the Contractor for any increase whatever in the cost of the work undertaken by the Contractor or by any other subcontractor as a result of any substitution made upon initiation of the Subcontractor. The Subcontractor agrees and represents, at the time of entering this Subcontract, that no substitution was contemplated in arriving at the amount of this Subcontract except for which a full written description has been furnished to the Contractor prior to the date hereof, and/or except as may be recited in the Special Provisions section of this Subcontract.

ARTICLE 24 - TERMINATION OR REDUCTION IN SCOPE OF WORK BY OWNER. In the event of elimination or reduction of the work to be performed under this Subcontract by reason of termination or modification of the Contract or Contract Documents or a change in the work to be done thereunder, either in accordance with the terms of the Contract Documents or by default by the Owner, Subcontractor shall in no case be entitled to recover from the Contractor more than its fair and equitable portion of any sums received by Contractor for work done and material supplied by this Subcontractor under this Subcontract. The rights and claims of the Contractor, other subcontractors and third parties shall be taken into consideration in determining Subcontractor's fair and equitable share of the amounts paid by the Owner as a result of such termination or modification and Contractor's determination of Subcontractor's fair and equitable share of any such sums shall be final and conclusive.

ARTICLE 25 - TERMINATION FOR CONVENIENCE. Contractor reserves the right to terminate this Subcontract in whole or in part at any time for any reason for the convenience of the Contractor. Upon receipt of written notice from Contractor of termination of this Subcontract, or any part thereof, for convenience, Subcontractor shall cease work as directed and deliver or return for credit all materials and equipment which have been purchased and/or are in the possession of Subcontractor relating to the Subcontractor's work as indicated in the notice of termination. Upon termination of the Subcontract for convenience, Subcontractor shall be paid as full compensation all direct costs incurred in connection with the performance of the Subcontractor's work up to the effective date of termination, and a reasonable fee not to exceed 10% of the cost of such work, plus any reasonable costs, such as restocking or cancellation charges, incurred as a direct result of the termination for convenience. Subcontractor waives and releases any claims for other consequential damages or costs, including lost profits, it may otherwise have as a result of a termination for convenience. In the event a termination of the Subcontract for default pursuant to Article 19 hereof is determined to be wrongful or unjustified, the termination shall be treated as and converted to a termination for convenience pursuant to this provision.

ARTICLE 26 - WAIVERS. It is expressly agreed that the waiver by Contractor of any breach or default of this Subcontract by Subcontractor shall not be construed as a waiver of any other breach or default of the same or any other terms, conditions, provisions or covenants of this or any other Subcontract between the parties hereto. Forbearance from demanding strict compliance with any term or provision of this Subcontract or any other Subcontract between the parties hereto shall not operate as a waiver and shall not prevent Contractor from subsequently demanding strict compliance therewith.

#### ARTICLE 27 - PAYROLL AND EMPLOYMENT COMPLIANCE.

- Subcontractor shall comply with all requirements of the Contract Documents and Subcontract Documents pertaining to payroll reports and affidavits; payment of prevailing wages; benefits and contributions; anti-kickback clauses; fair labor practices; nondiscrimination clauses; equal employment opportunity laws; orders and directives; and other labor arrangement requirements insofar as such matters pertain to its work under this Subcontract. Failure of Subcontractor to observe any of the aforesaid requirements, including the prompt submission to the Contractor of required reports and affidavits, shall constitute cause for withholding progress payments until such requirements are met. It shall be the responsibility of the Subcontractor to determine its own status under the various regulatory acts relating to employment, and nothing in this Subcontract shall serve to make the Contractor liable for any errors or acts of Subcontractor with respect thereto. The Subcontractor agrees to consult with the Contractor in all matters pertaining to craft work assignments wherein such assignments might reasonably result in controversy or craft jurisdictional disputes.
- Subcontractor hereby agrees that if any portion of its work under this Subcontract is further subcontracted, subject to Article 2 hereof, such lower-tier subcontractor shall comply with, observe and be bound by the terms and provisions of this Article, and Subcontractor further agrees to incorporate the terms and provisions of this Article in any lower-tier Subcontract.

#### **ARTICLE 28 - LABOR AGREEMENTS.**

Subcontractor shall comply with, observe and be bound by all terms and provisions of the following collective bargaining agreements executed by Contractor or on Contractor's behalf: Carpenters, Laborers, Operators, and Cement Masons.

(If no agreements are listed, then Contractor has not entered into collective bargaining agreements applicable to this Project, in which case Articles 28(a) and 28(b) are inapplicable.) Subcontractor's compliance with the foregoing agreements shall include, but not be limited to, the provisions in such agreements relating to the following: (a) the assignment of work or the settlement of jurisdictional disputes; (b) resolution of disputes as specified in the applicable agreement, whether through arbitraflen or otherwise; (c) the making of payments into or under health and welfare or other fringe benefit funds or plans. All

requirements imposed by this Article shall apply only to the extent that the terms and provisions of such collective bargaining agreements can legally be applied to the work to be performed hereunder. Subcontractor shall indemnify, defend and hold Contractor harmless from and against any liability, claim, loss, expense, damage or cause of action, including court costs and attorney's fees, resulting from Subcontractor's failure to comply with the provisions of this Article.

- (b) In the event Subcontractor fails or refuses to comply with, observe or be bound by any term or provision of any such collective bargaining agreements executed by Contractor or on Contractor's behalf and does not correct such failure or refusal within twenty-four (24) hours after notice thereof is furnished to Subcontractor by Contractor, Subcontractor shall be deemed to be in default for breach of this Subcontract and this Subcontractor shall be subject to immediate termination at the option of the Contractor. Such optional right of termination of this Subcontract, if exercised by Contractor, shall be in addition to and not in lieu of any other right or remedy available to the Contractor; and in addition thereto, Contractor shall have the right of reimbursement in full by Subcontractor for court costs and attorneys' fees Contractor may sustain in the event of such breach or default of this Subcontract by Subcontractor.
- (c) The Subcontractor further agrees that in the event of any strike, picket, sympathy strike, work stoppage, or other form of labor dispute at the construction site, regardless of whether that dispute or picket relates to the Contractor, the Subcontractor, the Owner, or any other contractor or subcontractor on this construction site, the Subcontractor will continue to perform the work required herein without interruption or delay. In the event the Subcontractor fails to continue the performance of the work without interruption or delay because of such picket or other form of labor dispute, the Contractor may terminate the services of Subcontractor after giving twenty-four (24) hours written notice of an intent to do so, or the Contractor may invoke any of the other rights set forth in this Subcontract.
- (d) Additionally, should the Subcontractor be party to one or more labor agreements it shall take all reasonable action to avoid any work stoppage and, in the event a work stoppage should occur, it shall, within twenty-four (24) hours, take any and all legal action provided for, or permitted by, such labor agreements in order to expedite resumption of work on this Project. It is contemplated hereby that Subcontractor shall, if necessary, utilize to the fullest extent possible all rights that allow for the hiring of replacement employees, should the hiring hall of the Subcontractor be unable or unwilling to meet the needs of the Subcontractor. Whenever the Subcontractor has knowledge that any actual or potential labor dispute is delaying or threatens to delay the timely performance of this Subcontract, Subcontractor shall immediately give notice thereof, including all relevant information with respect thereto, to the Contractor.
- (e) Access to the construction site will be limited. During the performance of work required by this Subcontract, the Subcontractor, its employees, suppliers and visitors will only use such entrance or entrances to the construction site as may be designated from time-to-time by the Contractor. In the event a Subcontractor or any of its employees, suppliers or visitors should fail to use the designated entrance(s) and thereby causes the Contractor to incur additional costs thereby, Subcontractor agrees to be fully responsible for such additional costs.
- (f) If the Owner is an agency or instrumentality of the United States Government and the contract requires compliance with Executive Order 13496. "Notification of Employee Rights Under Federal Labor Laws", then 29 CFR Part 471, Appendix A to Subpart A is hereby incorporated by reference into the Subcontract Agreement, and Subcontractor agrees to comply fully with its requirements regarding the posting of notices to employees of their rights under federal labor laws. Subcontractor also agrees to incorporate 29 CFR Part 471, Appendix A to Subpart A, by reference, into all subcontracts and purchase agreements of every tier with any subcontractor, supplier, distributor, vendor, or firm that furnishes supplies or services under this Subcontract Agreement.
- **ARTICLE 29 PERMITS, LICENSES AND APPLICABLE LAW.** Subcontractor shall obtain and pay for all permits, licenses and official inspections made necessary by its work. Subcontractor shall comply with all laws, ordinances and regulations applicable in any way to the work required under this Subcontract
- **ARTICLE 30 SEVERABILITY.** To the best knowledge and belief of the parties, this Subcontract contains no provision that is contrary to any applicable Federal, State or local law, regulation or ordinance. However, should any provision of this Subcontract at any time during its effective term be in conflict with any such law, regulation, or ordinance, then such provision shall continue in effect only to the extent permitted. In the event any provision of this Subcontract is thus held inoperative, the remaining provisions of this Subcontract shall nevertheless remain in full force and effect to the extent permitted by law.
- **ARTICLE 31 INDEPENDENT CONTRACTOR STATUS.** The Subcontractor certifies that it is, or that prior to the commencement of work under this Subcontract it will become an "independent contractor" and "employing unit" subject, as an employer, to all applicable laws and regulations with respect to such status. Subcontractor agrees to defend Contractor against any claim or assertion of an employer-employee relationship between Contractor and Subcontractor's workers, and to indemnify and hold Contractor harmless against any expense or liability imposed upon Contractor by reason of a finding of such an employer-employee relationship.
- ARTICLE 32 PERSONNEL. The Subcontractor shall not employ any persons in the performance of this Subcontract whose employment might be reasonably objected by the Contractor or Owner. In the interest of harmonious relations and to facilitate the orderly and efficient progress of the work on this Project, the Subcontractor hereby agrees to promptly remove from the Project any supervisor, employee, worker or lower-tier subcontractor to whom the Contractor reasonably objects or to whom the Owner or the Owner's Authorized Agent objects, and such person or party shall not again be employed in connection with the performance of this Subcontract. The Subcontractor shall at all times maintain a qualified and skilled superintendent of oreman at the site of the work who shall be satisfactory to the Owner, the Owner's Authorized

Agent and/or to the Contractor. Such superintendent or foreman shall be duly and legally authorized to represent and act for the Subcontractor with respect to all matters in connection with or arising out of work under this Subcontract.

#### **ARTICLE 33 - SAFETY.**

- The Subcontractor shall strictly observe and comply with all applicable safety laws, rules and regulations, (a) including applicable OSHA standards, and with the accident prevention plan required under the applicable provisions of the Contract Documents and/or as directed by the Contractor. Whenever the Contract Documents shall require any special safety, first aid, or emergency treatment facilities, it is agreed that same shall be provided by the Subcontractor for its own use; or that, when such alternative is made available by the Contractor, the Subcontractor shall enter into a Supplementary Agreement with Contractor and other subcontractors for the cooperative provision thereof; and the entire cost thereof shall be prorated among the participants in proportion to the number of employees engaged on the Project each month by the respective participants. Subcontractor shall indemnify, hold harmless and defend Contractor from any citations, fines or penalties assessed Contractor by the Occupational Safety and Health Administration, or any other state or local agency or authority with jurisdiction over workplace health or safety, relating to or arising from Subcontractor's work performed hereunder. In the event any such citations, fines or penalties are issued to Contractor relating to or arising from Subcontractor's work, and Contractor files an appeal from said citation, fine or penalty with an appropriate agency, Subcontractor agrees to promptly pay Contractor for any and all expenses and costs incurred by Contractor in its defense of its appeal, including attorneys' fees, as well as any fines or penalties which may be assessed upon the completion of Contractor's appeal. Contractor may employ counsel of its own choosing. In the event Contractor does not file an appeal from citations, fines or penalties issued to Contractor relating to or arising from Subcontractor's work, Subcontractor shall promptly pay the proposed fines or penalties and if such payment is not made promptly, Contractor may pay such fines or penalties and deduct the amount paid from any amounts due Subcontractor hereunder.
- **(b)** Any accident arising out of Subcontractor's work shall be discussed at the next Contractor's Safety Committee meeting. At that meeting, an officer, executive or owner of Subcontractor shall explain, in person, the cause of the accident and the actions Subcontractor shall take to prevent similar accidents in the future.
- (c) Any of Subcontractor's employees who are found to be in violation of Contractor's safety rules will be subject to immediate and permanent removal from the Project, in accordance with Article 32. In the event Subcontractor has safety issue(s) on the Project, Contractor may, in its sole discretion, require Subcontractor to furnish a full-time safety professional for the Project, at no additional cost to Contractor. This safety professional shall demonstrate full and complete understanding of the safety laws, rules and regulations applicable to Subcontractor's work on the Project and must hold a current Construction Health and Safety Technician (CHST) certification from the Board of Certified Professionals. Associate Safety Professional (ASP) or Certified Safety Professional (CSP) certifications issued by the Board of Certified Safety Professionals can be used in lieu of the CHST certification, provided Contractor approves of such alternate certification.
- (d) If Subcontractor's work involves the furnishing of scaffolding for the Project, Subcontractor shall have a competently trained person on the Project to supervise and inspect the scaffolding during erection, usage and dismantling. A registered professional engineer must be engaged to design the scaffold when it exceeds 50 feet and their stamped drawings must be submitted to the Contractor and maintained on file for the duration of the Project.
- (e) Subcontractors shall adopt and implement a Substance Abuse Prevention Policy that meets or exceeds all requirements of the project specific accident prevention plan. Contractor may direct Subcontractor to test 100% of Subcontractor's employees on the Project or any personnel involved in an accident, incident or near miss.
- (f) Prior to mobilization to the Project Site, Subcontractor shall designate a responsible individual who shall have overall responsibility for reviewing, implementing, and ensuring compliance with the accident prevention plan, subcontractor's safety plan, any jobsite safety requirements and/or procedures and all applicable safety laws, rules and regulations. The responsible individual shall be competent, through experience and training, to identify hazards associated with the Subcontractor's work and shall be present on the Project Site during all of Subcontractor's activities. The responsible individual shall also conduct periodic safety inspections in connection with the performance of the Subcontractor's work and weekly safety meetings with Subcontractor's employees. The responsible individual will perform a continuing survey of Subcontractor's operations to ensure that probable causes of injury or accident are controlled and that operating equipment, tools, and facilities are used, inspected, and maintained as required by applicable safety and health regulations.
- (g) All cranes assembled onsite shall undergo an independent inspection and documentation of such inspection shall be submitted to Contractor prior to any crane operations. Inspection must be performed by a qualified inspector acceptable to Contractor.
- (h) Unmanned drones may not be operated without prior notice to Contractor. Subcontractor must follow all Contractor directives, instructions, and policies regarding the operation of drones. Drones may not be operated where prohibited by Owner, Contractor, or any applicable laws, rules, and regulations. When use of drones is permitted, Subcontractor must comply with all applicable laws, rules, and regulations governing the operation and use of drones, including CFR Title 14, Chapter I, Subchapter F, Part 107 (14 CFR part 107). Subcontractor's drone operators must possess all licenses and certifications mandated by the Federal Aviation Administration and applicable law, rules, and regulations.

## **ARTICLE 34 - BONDS.**

(a) Unless specifically waived herein by Contractor, Subcontractor shall furnish to the Contractor and on or before the earlier of fifteen (198) days of the date hereof, or the date of commencement of work by the Subcontractor, a

performance bond and a payment bond, each for the full amount of this Subcontract as set forth in Section C. The two bonds shall be drawn in favor of the Contractor and shall be executed by a surety company listed on the current edition of the United States Department of Treasury list of approved sureties and for an amount not exceeding the approved amount for the surety company indicated in the United States Department of Treasury list, and on forms furnished by the Contractor or approved by the Contractor. No payment whatsoever shall be due the Subcontractor until the provisions of the Article have been met to the Contractor's satisfaction. Failure of the Subcontractor to provide the required bonds within the time periods required by this provision shall constitute a material breach of this Subcontract, entitling the Contractor, at its option, to immediately terminate the Subcontract pursuant to Article 19 hereof, or declare the Subcontract null and void. In the event the Surety on any bond furnished by or on behalf of the Subcontractor becomes insolvent or ceases doing business, Subcontractor shall immediately furnish, without expense to the Contractor, replacement bonds that meet the requirements stated above.

(b) No change, alteration or modification in the terms, conditions or scope of this Subcontract, or in the terms or manner of payment shall in any way exonerate or release, in whole or in part, any surety on any bond furnished by or on behalf of the Subcontractor. If required to do so by the Contractor, prior to commencement of any work required hereunder, Subcontractor shall obtain, and furnish to Contractor, a copy or counterpart of this Subcontract which shall have been endorsed in writing by an authorized representative of the surety company, specifically approving this Subcontract.

#### **ARTICLE 35 - NOTICES.**

- (a) Written notice, where required by the terms of this Subcontract, may be accomplished by personal delivery of said notice or by use of commercial delivery service or the United States Mail.
- **(b)** Personal delivery is complete when the notice is delivered to the Subcontractor or its representative at the Project or at the office address of the Subcontractor appearing in this Subcontract.
- (c) When mail or commercial delivery service is used, delivery is complete on the day or date first occurring among the following: (1) On the day the communication is received by Subcontractor as evidenced by a return receipt furnished by the United States Post Office or by any recognized messenger or delivery service, or (2) On the third (3rd) day after the notice is deposited in the U.S. Mail addressed to the Subcontractor at the Project or at the address appearing on this Subcontract.
- **ARTICLE 36 COMMUNICATIONS WITH OWNER.** The Subcontractor's sole and exclusive responsibility for the performance of this Subcontract is to the Contractor, and it is agreed that all of Subcontractor's dealings with the Owner's Authorized Agent, the Owner, or any other parties named in the Contract Documents shall be through the Contractor.
- **ARTICLE 37 PATENTS.** The Subcontractor shall indemnify, hold harmless and defend Contractor and Owner from any claims or damages, including court costs, expenses and attorneys' fees, related to or arising out of any patented or unpatented invention, article or appliance, manufactured, furnished or used, or alleged to be manufactured, furnished or used, in the performance of this Subcontract.
- **ARTICLE 38 PAYROLL CONTRIBUTIONS, TAXES.** The Subcontractor accepts full and exclusive liability for the payment of any and all contributions, taxes or insurance of any description whatever, now or hereafter imposed by any authority, which are measured by the wages, salaries or other compensation paid to persons employed by Subcontractor on work performed pursuant to the terms of this Subcontract. Further, Subcontractor agrees to and does hereby accept full and exclusive liability for the payment of any and all taxes, including personal property, sales taxes, use and excise taxes, relating to the materials, supplies, tools, machinery, equipment and plant which may be purchased, acquired, rented or used by Subcontractor relating to work performed under this Subcontract.

#### **ARTICLE 39 - INSURANCE.**

- (a) Subcontractor shall provide and maintain, and ensure that each sub-subcontractor provides and maintains, at all times during the performance of this Subcontract, and for such extended time as provided herein, the following insurance:
  - (i) Workers' Compensation for protection of the Subcontractor's owners, partners, and employees. At a minimum, such coverage shall include the benefits and limits designated in the applicable states' Workers' Compensation law. If there is a maritime exposure to Subcontractor's employees under the U.S. Longshore and Harbor Workers' Compensation Act (including the Outer Continental Shelf Lands Act), the Jones Act or under any other laws, regulations or statutes applicable to maritime employees, coverage shall be included for all such injuries or claims.

Employer's Liability Insurance shall have the following minimum limits:

Each Accident \$1,000,000
 Each Occupational Disease \$1,000,000
 Occupational Disease - Aggregate \$1,000,000

Use of leased employees by the Subcontractor is expressly prohibited without the Contractor's written authorization. Where permitted, Subcontractor must still obtain the Workers Compensation, Employer's Liability and other insurance required by this section, and the coverage shall include an endorsement providing the verage for alternate employer/leased employee liability. In addition, Subcontractor shall require



the leasing company to provide a waiver of subrogation in favor of Contractor and Indemnitees on such leasing company's workers compensation, employer's liability and general liability policies.

(ii) Commercial General Liability (CGL) Insurance covering bodily injury, including death, personal injury, property damage, work performed on your behalf by others, and contractual liability coverage including all terms set forth in this Subcontract. The CGL policy shall be provided on the current ISO Occurrence Form CG 00 01 or form at least as broad, including coverage for products/completed operations and there shall be no endorsement or modification of the form limiting coverage for explosion, collapse, underground hazard work performed by Subcontractor, or contractual liability coverage (including the definition of an "insured contract"). The CGL policy will not contain any special exclusions directed toward any types of projects, materials, or processes involved in the work.

Minimum limits of liability provided by this coverage shall be:

1.	General Aggregate	\$ 5,000,000
2.	Products/Completed Operations Aggregate	\$ 5,000,000
3.	Personal & Advertising Injury	\$ 5,000,000
4.	Each Occurrence	\$ 5.000.000

The products/completed operations coverage required herein will be maintained on all renewal policies until the statute of limitation or statute of repose, whichever is longer, applicable to the Subcontractor's work and the Project have lapsed.

- (iii) Automobile Liability Insurance on a coverage form no less broad than ISO Business Auto Coverage Form CA 0001,covering liability for bodily injury or property damage, arising out of the use, operation and maintenance of "any auto", including automobiles, trucks, trailers, or other vehicles owned, hired, or nonowned by or on behalf of Subcontractor. Minimum limits of liability provided by this coverage shall be a combined single limit of \$5,000,000 (\$10,000,000 for all automobile operations in the airside area of an airport).
- (iv) If any professional design or professional engineering work is performed by or on behalf of Subcontractor, including without limitation design, architecture, engineering, testing, surveying, or design/build services, Professional Liability and errors and omissions insurance covering the design and other professional services provided under this Subcontract. Such insurance shall have minimum policy limits of Three Million Dollars (\$3,000,000) per claim and in the aggregate per annum and a maximum deductible of \$25,000.00. If such errors and omissions insurance is written on a Claims-Made basis, Subcontractor warrants that any Retroactive Date under the policy shall precede the earlier of the date of this Subcontract or the performance of any professional services hereunder. A Certificate of Insurance indicating the expiration date of the insurance is required, and the insurance shall be continued in full force and effect until the applicable statute of limitation or statute of repose, whichever is longer, applicable to the Subcontractor's work and the Project have lapsed.
- (v) Physical damage property insurance for the value of all Subcontractor-owned and/or rented tools and equipment covering the interest of Contractor and including a waiver of subrogation in favor of Contractor and other Indemnitees in the event of loss or damage.
- (vi) If drones of any type are used by or on behalf of Subcontractor, Unmanned Aircraft Liability Insurance covering injury or damages caused by drone use with minimum limits of \$5,000,000 per occurrence. Such insurance may be added by endorsement to the CGL policy with coverage not less broad than ISO CG 24 50 06 15.
- (b) Subcontractor may meet the specified minimum liability limits through a combination of primary policies with umbrella/excess policies, but only if such umbrella/excess policies provide coverage at least as broad as the primary policies. The Subcontractor agrees to notify the Contractor of any substantial claims (paid or reserved) applied against the aggregate of any of the required insurance policies. The Subcontractor's Commercial General Liability policy shall be endorsed to provide the general aggregate limit applies separately to this Project.
- (c) All insurance required hereunder shall be maintained in full force and effect in a company or companies satisfactory to the Contractor with an A.M. Best rating of A-VII or better, at Subcontractor's expense, including the payment of all premiums, deductibles and self-insured retentions applicable to such policies or claims thereunder, and until performance in full of all obligations due hereunder, including warranty obligations, or until such later time as provided for herein.
- (d) All insurance shall be subject to the requirement that the Contractor must receive prior written notice thirty (30) days before cancellation of or failure to renew any such policy. In the event of the threatened cancellation for nonpayment of premium, the Contractor may pay the same on behalf of the Subcontractor and deduct the payment from the amounts then or subsequently owing to the Subcontractor.
- (e) The Contractor, Indemnitees, and any other party requested by Owner shall be named as additional insureds on the Subcontractors's and sub-subcontractors' liability insurance policies except for Workers' Compensation and Professional Liability. To the maximum extent permitted by law, the coverage provided to the additional insureds on the CGL

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61 62 and umbrella/excess policies shall be provided by a policy provision or an endorsement which is as broad as ISO CG 20-10 04 13 for ongoing operations in combination with ISO CG 20-37 04 13 for completed operations; provided, however, Subcontractor shall provide ISO CG 2010 11-85 or equivalent coverage where available from its insurer and permitted by law. Forms ISO CG 20-33 and ISO 20-39 are not acceptable. The additional insured coverage for completed operations shall be included on all renewals of such policies until the statute of limitation or statute of repose, whichever is longer, applicable to the Subcontractor's work and the Project have lapsed. The insurance requirements set forth in this Subcontract, including but not limited to the additional insured requirements, are in addition to and not in any way in substitution for all other protection provided under the Subcontract, including Article 22 (Indemnification). Unless expressly approved by Contractor in writing, Subcontractor's obligation to provide additional insured coverage cannot be satisfied with an Owner's and Contractor's Protective liability insurance policy.

- Unless prohibited by applicable law, Subcontractor shall cause to be prepared and submitted to Contractor Certificate(s) of Insurance, additional insured endorsements and a Subcontractor Insurance Compliance Statement complying with the requirements of this Article. No payment shall be considered due and owing hereunder until the required Certificate(s) of Insurance, additional insured endorsements and Subcontractor Insurance Compliance Statement satisfactory to the Contractor, have been received by the Contractor. In addition, failure of the Subcontractor to maintain the insurance required herein, or provide the required Certificate(s) of Insurance, additional insured endorsements and Subcontractor Insurance Compliance Statement within the time periods required by Paragraph (h) of this Article, shall constitute a material breach of this Subcontract, entitling the Contractor to any remedies available including, at its option, to immediately terminate the Subcontract pursuant to Article 19 hereof or declare the Subcontract null and void.
- All insurance available to or provided by the Subcontractor hereunder (including umbrella/excess policies) shall be primary to and will not seek contribution from any other insurance or self-insurance available to Contractor or any additional insured, and Subcontractor's coverage shall be to the full limits of liability, even if those limits exceed the minimum limits specified herein. The minimum requirements do not represent a determination of the insurance coverage the Subcontractor should or should not maintain for its own protection. Subcontractor's CGL and umbrella/excess policies coverage shall be endorsed as necessary to provide such primary and noncontributory liability.
- The Certificate(s) of Insurance, additional insured endorsement(s), and Subcontractor Insurance Compliance Statement (where allowed by law) evidencing the required insurance must be filed with the Contractor within thirty (30) days of the Effective Date, unless Subcontractor is scheduled to begin work before then, in which case the Certificate(s) of Insurance, additional insured endorsement(s), and Subcontractor Insurance Compliance Statement shall be provided no less than seven (7) days prior to the Subcontractor's commencement of work hereunder. Article 39 shall survive termination or expiration of this Subcontract.
- It is the practice of the Contractor to carry Builder's Risk Insurance applicable to the Contract, or, in the alternative, to participate as an additional insured in such a policy that may be furnished by the Owner. The Contractor shall endeavor to include the interest of the Subcontractor, as its interest may appear, under the Project Builder's Risk coverage. The provisions of this Subcontract do not make it mandatory upon the Contractor to carry any insurance whatsoever for the benefit of the Subcontractor. Subcontractor agrees it will assume responsibility to determine whether Builder's Risk Insurance is in force and what coverage is afforded the interests of the Subcontractor, and Subcontractor shall be liable for any deductible amount applicable under the policy to any claim relating to Subcontractor's work. In the event the Contractor should elect to carry Builder's Risk Insurance, the Subcontractor agrees to submit immediately upon demand, a complete breakdown of this Subcontract price showing materials, labor, expendable tools, supplies or any other thing or article of value, the cost of which is included in the Subcontract amount stated herein, all as may be required for the purpose of determining values under said coverage.
- Subcontractor waives all rights of recovery against Contractor, Indemnitees, any other party requested by Owner, and any other person or entity performing work or rendering services on behalf of Contractor in connection with the planning, development, or construction of the Project, to the extent any losses, claims or damages are covered by any policy of insurance available to Subcontractor. Subcontractor further waives all rights of recovery which are not covered by insurance because of deductible clauses, inadequacy of limits, insurance policy limitations or exclusions of coverage, or Subcontractor's failure to maintain insurance that is required to be maintained as provided herein. Subcontractor shall also require that all insurance policies related to Subcontractor's work secured by Subcontractor or its sub-subcontractors include clauses providing that each insurance underwriter waives all of its rights of recovery by subrogation, or otherwise, against Contractor, Indemnitees, and any other party requested by Owner. Subcontractor shall require similar written express waivers and insurance clauses from each of its sub-subcontractors. A waiver of subrogation shall be effective as to any individual or entity even if such individual or entity (1) would otherwise have a duty of indemnification, contractual or otherwise, (2) did not pay the insurance premium directly or indirectly, or (3) has or doesn't have an insurable interest in any property damaged.

#### ARTICLE 40 - EQUAL EMPLOYMENT OPPORTUNITY AND ANTI-HARASSMENT POLICY.

The Subcontractor acknowledges that as a government contractor, Contractor is subject to various federal laws, executive orders and regulations regarding equal opportunity and affirmative action which may also be applicable to Subcontractor and lower tier subcontractors, suppliers and vendors. Accordingly, the Subcontractor, in performing the work required by this Subcontract, shall not discriminate against or harass any applicant or employee, any other worker or other individual on the site, or any minority or disadvantaged business enterprise because of race, color, religion, sex, age, national origin, sexual orientation, gender identity and expression, pregnancy, disability, citizenship, genetic information, or protected veteran status. Unless this Subcontract is

 exempted by the rules, regulations or orders of the Secretary of Labor, Subcontractor shall abide by the applicable requirements of and comply with the applicable provisions of Executive Order 11246, as amended; Section 503 of the Rehabilitation Act of 1973, as amended; the Vietnam Era Veterans' Readjustment Assistance Act of 1974, as amended; the Immigration Reform and Contract Act of 1986, as amended; the Americans with Disabilities Act of 1990, as amended; Title VII of the Civil Rights Act of 1964, as amended; and the affirmative action provisions set forth in 41 CFR § 60-1.4(a), 41 CFR § 60-4.3, 41 CFR § 60-250.5, 41 CFR § 60-300.5(a), 41 CFR § 60-741.4, and 41 CFR § 60-741.5(a). Subcontractor shall comply also with all of the other requirements contained in the Code of Federal Regulations that implement these laws, and such regulations are incorporated by reference herein. As applicable, these regulations prohibit discrimination against all individuals based on their race, color, religion, sex, age, national origin, sexual orientation, gender identity and expression, pregnancy, disability, citizenship, genetic information, or protected veteran status. Moreover, these regulations, as applicable, require that covered contractors and subcontractors take affirmative action to employ and advance in employment individuals without regard to race, color, religion, sex, age, national origin, sexual orientation, gender identity and expression, pregnancy, disability, citizenship, genetic information, or protected veteran status. Subcontractor shall include the above provisions of this Article in all lower-tier subcontracts and purchase agreements issued for work to be performed at the site under this Subcontract.

(b) It is the policy of Contractor to provide a working environment at its sites and facilities that is free of sexual harassment and harassment, intimidation and coercion based on race, color, religion, sex, age, national origin, sexual orientation, gender identity and expression, pregnancy, disability, citizenship, genetic information, or protected veteran status. Sexual harassment includes, but is not limited to, unwanted advances with sexual overtones, statements regarding permissiveness or the sexual reputation of an individual, and intimidation or coercion. Subcontractor shall comply with this policy in the performance of the Subcontractor's work. Subcontractor shall fully investigate any reported violations of this policy involving employees of Subcontractor or any lower-tier subcontractor or supplier to Subcontractor and report the results of such investigation to Contractor. Any offensive materials, including offensive hard hat stickers, shall be removed from the Project immediately upon notice to Subcontractor. Any personnel who are found to have violated this policy shall be removed by Subcontractor from the Project at the direction of Contractor in accordance with Article 32.

**ARTICLE 41 - EFFECTIVE DATE.** The effective date of this Subcontract is intended by both parties to be the date indicated at the beginning of this Subcontract. The dates appearing by the signatures at the end of this document merely indicate the dates that the signatures were affixed. If this Subcontract is executed prior to award of the Contract by Owner to the Contractor, this Subcontract shall constitute a pre-bid agreement, which cannot be canceled by either party, and upon award of the Contract to the Contractor, the Subcontract shall become a binding agreement. If the Contract is not awarded to the Contractor, this Subcontract shall be void and of no effect, and neither party shall have any liability or obligation to the other party.

ARTICLE 42 - SCOPE OF WORK. With respect to Section B hereof, Subcontractor acknowledges and agrees that any recapitulation of the work to be performed shall be for the sole and exclusive purpose of clarifying the status of those items which are specifically mentioned as being included in, or excluded from, the scope of this Subcontract. Where, in Section B hereof, a division or divisions of the Contract Specifications is referred to in describing the work to be performed under this Subcontract, the Subcontractor shall, unless otherwise specified, perform all of the work required by such division or divisions, plus all additional related work of a similar nature generally performed by the trades or crafts employed or engaged by the Subcontractor in executing the principal work under this Subcontract, whether or not such additional or related work of a similar nature is specifically called for in the plans, in other divisions of the specifications, or in any other of the Contract Documents. If any materials are to be furnished but not installed under the terms of this Subcontract, it is understood and agreed that Subcontractor shall deliver and unload said materials at the jobsite without expense to the Contractor.

ARTICLE 43 - EARLY OCCUPANCY. Whenever it may be useful or necessary to the Contractor to do so, the Contractor shall be permitted to occupy and/or use any portions of the work which has been either partially or fully completed by the Subcontractor before final inspection and acceptance thereof by the Owner, but such use and/or occupation shall not relieve the Subcontractor of its warranty of said work and materials nor of its obligation to make good at its own expense any defect in materials and workmanship which may occur or develop prior to Contractor's release from responsibility to the Owner; provided, however, the Subcontractor shall not be responsible for the maintenance of such portion of work as may be used and/or occupied by the Contractor nor for any damage thereto that is due to or caused by negligence of the Contractor during such period of use. In the event the Owner occupies or uses, prior to final inspection and acceptance, any portion of the work performed by Subcontractor, the maintenance and warranty obligations with respect to such work shall be governed by the applicable provisions of the Contract Documents.

ARTICLE 44 – UTILIZATION OF SMALL BUSINESS CONCERNS. If the Owner is an agency or instrumentality of the United States Government and the Contract requires compliance with Federal Acquisition Regulation ("FAR") 52.2.219-9, entitled "Small Business Subcontracting Plan", then FAR 52.219-8, "Utilization of Small Business Concerns", is hereby incorporated by reference into the Subcontract, and Subcontractor agrees to comply fully with the requirements of that provision. In addition, if this Subcontract is for the performance of construction services with further subcontracting possibilities and for an amount in excess of \$1.5 million; or if this Subcontract is not for the performance of construction services and for an amount in excess of \$650,000, Subcontractor agrees to adopt a subcontracting plan that complies with the requirements of FAR 52.219-9, entitled "Small Business Subcontract Plan" ("Plan"), and submit a copy of the Plan to Contractor. As a part of this obligation, Subcontractor agrees to submit to Contractor semi-annually Standard Form ISR, Subcontracting Report for Individual Contracts, Standard Form SSR, and Summary Subcontract Report, in accordance with

Subcontractor

subparagraph (I) of FAR 52.219-9. Contractor shall provide its prime contract number, DUNS number and email address in accordance with subparagraph (v) of FAR 52.219-9 (d) (10), and Subcontractor shall provide the prime contract number, Subcontractor's DUNS number and email address to its lower-tier subcontractors with subcontracting plans in accordance with subparagraph (vi) of FAR 52.219-9 (d)(10).

**ARTICLE 45 – CODE OF BUSINESS ETHICS AND CONDUCT.** If the Owner is an agency or instrumentality of the United States Government and the Contract requires compliance with FAR 52.203-13, entitled "Contractor Code of Business Ethics and Conduct", and FAR 52.203-14, entitled "Display of Hotline Poster", and if this Subcontract is for an amount in excess of \$5,000,000.00, and if the Subcontract performance period is more than 120 days, then FAR 52.203-13 and FAR 52.203-14 are hereby incorporated by reference into the Subcontract, and Subcontractor agrees to comply fully with the requirements of those provisions.

**ARTICLE 46 – E-VERIFY PROGRAM.** If the Owner is an agency or instrumentality of the United States Government and the Contract requires compliance with the FAR entitled: "E-Verify Clause" FAR 52.222-54 then FAR 52.222-54 is hereby incorporated by reference into the Subcontract Agreement, and Subcontractor agrees to comply fully with its requirements regarding verification of employment eligibility of its employees using the E-Verify program. Subcontractor also agrees to incorporate the E-Verify Clause, by reference, into all subcontracts and purchase agreements of every tier with any subcontractor, supplier, distributor, vendor, or firm that furnishes supplies or services under this Subcontract Agreement.

ARTICLE 47– TELECOMMUNICATIONS/VIDEO SURVEILLANCE. If the Owner is an agency or instrumentality of the United States Government and the Contract requires compliance with FAR clauses 52.204-24, 52.204-25, and 52.204.26, then FAR Clauses 52.204-24, 52.204-25, and 52.204.26 are hereby incorporated by reference into the Subcontract and Subcontractor agrees to comply fully with their requirements regarding the prohibition against manufacturing, purchasing for resale, providing, or installing any equipment, system, or service that uses covered telecommunications equipment or services as a substantial or essential component of any system, or as critical technology, as part of any system produced by the excluded parties referenced, and updated, in FAR clause 52.204-25. Prior to execution of this Subcontract, Subcontractor shall certify that it has reviewed the list of excluded parties in the System for Award Management (SAM) for entities excluded from receiving federal awards for covered telecommunications equipment or services. Subcontractor also agrees to incorporate these three FAR clauses, by reference, into all subcontracts and purchase agreements of every tier with any subcontractor, supplier, distributor, vendor, or firm that furnishes supplies or services under this Subcontract.





19A

Sand Island WWTP Secondary Treatment Phase 1 1350 Sand Island Parkway Honolulu, HI, 96819 Unitek Insulation, LLC 96-137 Waihona Street Pearl City, HI, 96782 6021088 - 0212300

**ARTICLE 48 - HEADINGS.** The Article headings used in this Agreement are for ease of reference only and shall not be considered a part of or affect the interpretation or meaning of this Agreement.

SECTION E. SPECIAL PROVISIONS.

Exhibit B - Abatement Subcontracts

ACKNOWLEDGEMENT OF COMPLETE INSTRUMENT: Bound in and with these 19 pages numbered 1 of 19 through 19 of 19, and hereby acknowledged as being received by Subcontractor, are the following exhibits or attachments numbered: 19A, Exhibit "A" - Schedule, Exhibit "B" – Abatement Subcontracts.

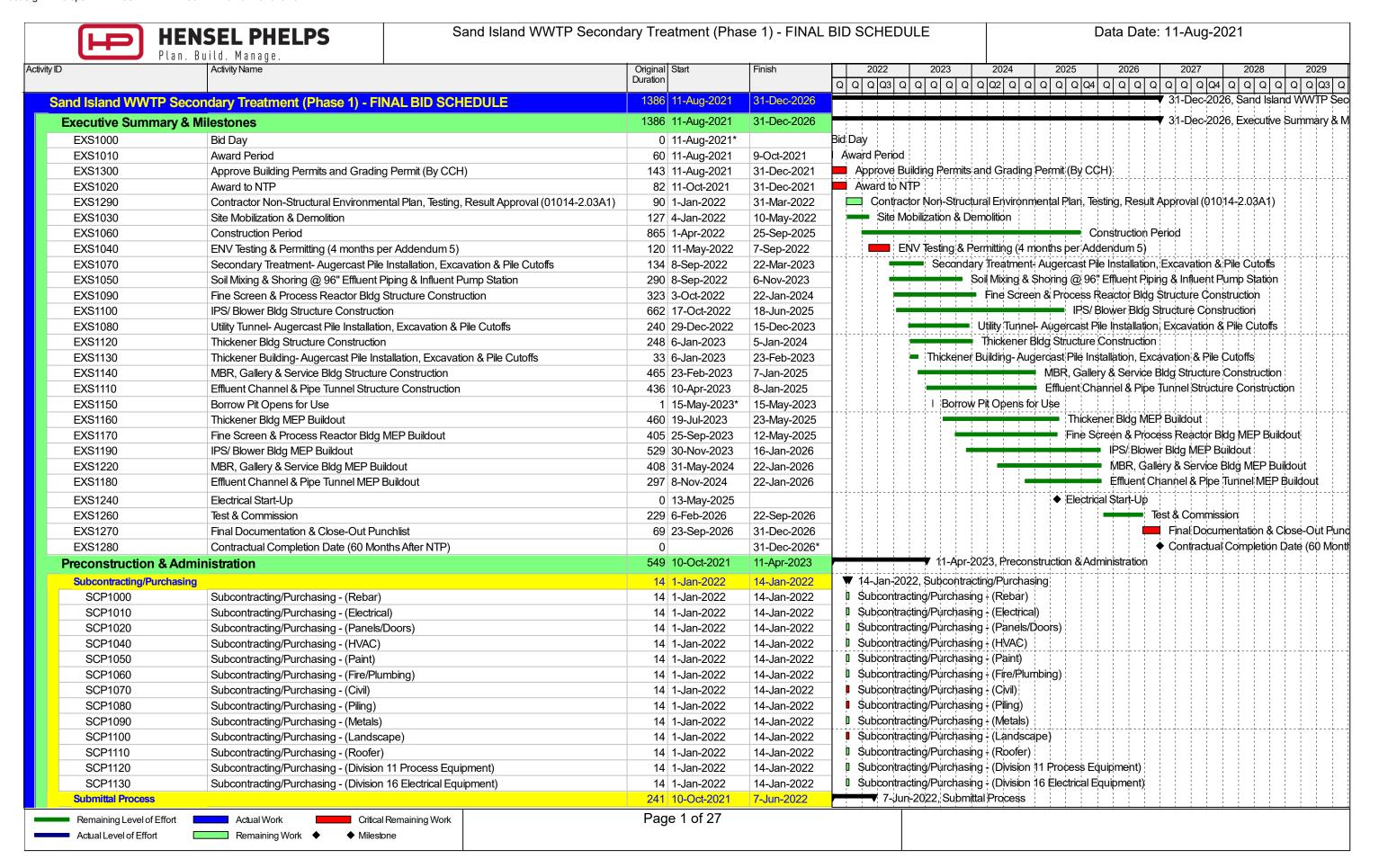
IN WITNESS WHEREOF, the parties hereto have executed this agreement for themselves, their heirs, executors, successors, administrators and assigns, on the day and year first above written.

Unitek Insulation, LLC (Subcontractor)  By:		HENSEL PHELPS CONSTRUCTION CO. (Contractor)  By:		
Title: Vice President	November 23, 202	1   12:2% rby eltST Manager Title:	November 23,	2021
	Date		Date	-
96-137 Waihona St.				
Pearl City, HI, 96782 (Address of Record)				

Contractor

R.W

ntractor Subcontractor



	Activity Name	Original Start	Finish	2022 2023 2024 2025 2026 2027 2028 2
		Duration		
Contractor/Subcontract		187 10-Oct-2021	14-Apr-2022	14-Apr-2022, Contractor/Subcontractor Develop
SPCD1000	Submittal Development - Division 01 General Requirements	30 10-Oct-2021	8-Nov-2021	Submittal Development - Division 01 General Requirements
SPCD1150	Submittal Development - Division 02 Site Construction	45 1-Jan-2022	14-Feb-2022	Submittal Development - Division 02 Site Construction
SPCD1140	Submittal Development - Division 03 Concrete	100 1-Jan-2022	10-Apr-2022	Submittal Development - Division 03 Concrete
SPCD1130	Submittal Development - Division 04 Masonry	14 1-Jan-2022	14-Jan-2022	Submittal Development - Division 04 Masonry
SPCD1120	Submittal Development - Division 05 Metals	100 1-Jan-2022	10-Apr-2022	Submittal Development - Division 05 Metals
SPCD1110	Submittal Development - Division 06 Wood, Plastics, and Composites	30 1-Jan-2022	30-Jan-2022	□ Submittal Development - Division 06 Wood, Plastics, and Composites
SPCD1090	Submittal Development - Division 08 Openings	90 1-Jan-2022	31-Mar-2022	Submittal Development - Division 08 Openings
SPCD1080	Submittal Development - Division 09 Finishes	60 1-Jan-2022	1-Mar-2022	Submittal Development - Division 09 Finishes
SPCD1070	Submittal Development - Division 10 Specialties	40 1-Jan-2022	9-Feb-2022	☐ Submittal Development - Division 10 Specialties
SPCD1050	Submittal Development - Division 12 Furnishings	60 1-Jan-2022	1-Mar-2022	Submittal Development - Division 12 Furnishings
SPCD1040	Submittal Development - Division 13 Special Construction	60 1-Jan-2022	1-Mar-2022	Submittal Development - Division 13 Special Construction
SPCD1030	Submittal Development - Division 14 Conveying Systems	90 1-Jan-2022	31-Mar-2022	Submittal Development - Division 14 Conveying Systems
SPCD1020	Submittal Development - Division 15 Mechanical	90 1-Jan-2022	31-Mar-2022	Submittal Development - Division 15 Mechanical
SPCD1100	Submittal Development - Division 07 Thermal Moisture Protection	60 15-Jan-2022	15-Mar-2022	Submittal Development - Division 07 Thermal Moisture Protection
SPCD1060	Submittal Development - Division 11 Equipment	90 15-Jan-2022	14-Apr-2022	Submittal Development - Division 11 Equipment
SPCD1010	Submittal Development - Division 16 Electrical	90 15-Jan-2022	14-Apr-2022	\$ubmittal Development - Division 16 Electrical
Contractor Prepare/Su		167 9-Nov-2021	24-Apr-2022	▼ 24-Apr-2022, Contractor Prepare/Submit  ■ Submittal Prepare/ Submit - Division 01 General Requirements
SPCS1000	Submittal Prepare/ Submit - Division 01 General Requirements	10 9-Nov-2021	18-Nov-2021	Submittal Prepare/ Submit - Division 02 Site Construction
SPCS1150	Submittal Prepare/Submit - Division 02 Site Construction	10 11-Jan-2022	20-Jan-2022	Submittal Prepare/ Submit - Division 04 Masonry.
SPCS1130	Submittal Prepare/Submit - Division 04 Masonry	10 15-Jan-2022	24-Jan-2022	Submittal Prepare/ Submit - Division 06 Wood, Plastics, and Composites
SPCS1110	Submittal Prepare/ Submit - Division 06 Wood, Plastics, and Composites	10 31-Jan-2022	9-Feb-2022	Submittal Prepare/ Submit - Division 10 Specialties      Submittal Prepare/ Submit - Division 10 Specialties
SPCS1070	Submittal Prepare/ Submit - Division 10 Specialties	10 10-Feb-2022	19-Feb-2022	Submittal Prepare/ Submit - Division 09 Finishes
SPCS1080	Submittal Prepare/ Submit - Division 09 Finishes	10 2-Mar-2022	11-Mar-2022	
SPCS1050	Submittal Prepare/Submit - Division 12 Furnishings	10 2-Mar-2022	11-Mar-2022	Submittal Prepare/ Submit - Division 12 Furnishings      Submittal Prepare/ Submit - Division 12 Submit - Construction
SPCS1040	Submittal Prepare/ Submit - Division 13 Special Construction	10 2-Mar-2022	11-Mar-2022	Submittal Prepare/ Submit - Division 13 Special Construction      Submittal Prepare/ Submit - Division 07 Thermal Mainture Protection
SPCS1100	Submittal Prepare/ Submit - Division 07 Thermal Moisture Protection	10 16-Mar-2022	25-Mar-2022	Submittal Prepare/Submit - Division 07 Thermal Moisture Protection
SPCS1090	Submittal Prepare/ Submit - Division 08 Openings	10 1-Apr-2022	10-Apr-2022	Submittal Prepare/ Submit - Division 08 Openings     Submittal Prepare/ Submit - Division 14 Copyrating Statement
SPCS1030	Submittal Prepare/ Submit - Division 14 Conveying Systems	10 1-Apr-2022	10-Apr-2022	Submittal Prepare/ Submit - Division 14 Conveying Systems
SPCS1020	Submittal Prepare/ Submit - Division 15 Mechanical	10 1-Apr-2022	10-Apr-2022	Submittal Prepare/ Submit - Division 15 Mechanical
SPCS1140	Submittal Prepare/ Submit - Division 03 Concrete	10 11-Apr-2022	20-Apr-2022	Il Submittal Prepare/ Submit - Division 03 Concrete
SPCS1120	Submittal Prepare/ Submit - Division 05 Metals	10 11-Apr-2022	20-Apr-2022	Submittal Prepare/ Submit - Division 05 Metals      Submittal Prepare/ Submit - Division 11 Equipment
SPCS1060	Submittal Prepare/ Submit - Division 11 Equipment	10 15-Apr-2022	24-Apr-2022	Submittal Prepare/ Submit - Division 11 Equipment     Submittal Prepare/ Submit - Division 16 Electrical
SPCS1010	Submittal Prepare/ Submit - Division 16 Electrical	10 15-Apr-2022	24-Apr-2022 24-May-2022	24-May-2022, OIC Review/Approval
OIC Review/Approval SPOR1000	Submittal Review/Approval - Division 01 General Requirements	187 19-Nov-2021 30 19-Nov-2021	18-Dec-2021	Submittal Review/Approval - Division 01 General Requirements
SPOR1150	Submittal Review/Approval - Division 02 Site Construction	30 19-Nov-2021	9-Feb-2022	Submittal Review/Approval - Division 02 Site Construction
SPOR1130	Submittal Review/Approval - Division 04 Masonry	30 25-Jan-2022	23-Feb-2022	Submittal Review/Approval - Division 04 Masonry
SPOR1110	Submittal Review/Approval - Division 06 Wood, Plastics, and Composites	30 10-Feb-2022	11-Mar-2022	Submittal Review/Approval - Division 06 Wood, Plastics, and Composites
SPOR1070	Submittal Review/Approval - Division 10 Specialties	30 20-Feb-2022	21-Mar-2022	☐ Submittal Review/Approval - Division 10 Specialties
SPOR1080	Submittal Review/Approval - Division 09 Finishes	30 12-Mar-2022	10-Apr-2022	Submittal Review/Approval - Division 09 Finishes
SPOR1050	Submittal Review/Approval - Division 12 Furnishings	30 12-Mar-2022	10-Apr-2022	Submittal Review/Approval - Division 12 Furnishings
SPOR1040	Submittal Review/Approval - Division 13 Special Construction	30 12-Mar-2022	10-Apr-2022	Submittal Review/Approval - Division 13 Special Construction
SPOR1100	Submittal Review/Approval - Division 07 Thermal Moisture Protection	30 26-Mar-2022	24-Apr-2022	Submittal Review/Approval - Division 07 Thermal Moisture Protection
SPOR1090	Submittal Review/Approval - Division 08 Openings	30 20-Mai-2022 30 11-Apr-2022	10-May-2022	
SPOR1030	Submittal Review/Approval - Division 14 Conveying Systems	30 11-Apr-2022	10-May-2022	

		Build. Manage. Activity Name		Original	Start	Finish	2022 2023 2024 2025 2026 2027 2028
				Duration			
SPO	OR1020	Submittal Review/Approval - Divisio	n 15 Mechanical	30	11-Apr-2022	10-May-2022	□ Submittal Review/Approval - Division 15 Mechanical
SPO	OR1140	Submittal Review/Approval - Divisio	n 03 Concrete	30	21-Apr-2022	20-May-2022	☐ Submittal Review/Approval - Division 03 Concrete
SPO	OR1120	Submittal Review/Approval - Divisio	n 05 Metals	30	21-Apr-2022	20-May-2022	☐ Submittal Review/Approval - Division 05 Metals
SPO	OR1060	Submittal Review/Approval - Divisio	n 11 Equipment	30	25-Apr-2022	24-May-2022	☐ Submittal Review/Approval - Division 11 Equipment
SPO	OR1010	Submittal Review/Approval - Divisio	n 16 Electrical	30	25-Apr-2022	24-May-2022	☐ Submittal Review/Approval - Division 16 Electrical
OIC Re-F	-Review/Approval			171	19-Dec-2021	7-Jun-2022	▼ 7-Jun-2022, OIC Re-Review/Approval
SPO	ORRS1000	Submittal Re-Review/Approval - Div	vision 01 General Requirements	14	19-Dec-2021	1-Jan-2022	Submittal Re-Review/Approval - Division 0.1 General Requirements
SPO	ORRS1150	Submittal Re-Review/Approval - Div	vision 02 Site Construction	14	10-Feb-2022	23-Feb-2022	■ Submittal Re-Review/Approval - Division 02 Site Construction
SPO	ORRS1130	Submittal Re-Review/Approval - Div	vision 04 Masonry	14	24-Feb-2022	9-Mar-2022	Submittal Re-Review/Approval - Division 04 Masonry
SPO	ORRS1110	Submittal Re-Review/Approval - Div	vision 06 Wood, Plastics, and Composites	14	12-Mar-2022	25-Mar-2022	Submittal Re-Review/Approval - Division 06 Wood, Plastics, and Composites
SPO	ORRS1070	Submittal Re-Review/Approval - Div	vision 10 Specialties	14	22-Mar-2022	4-Apr-2022	Submittal Re-Review/Approval - Division 10 Specialties
SPO	ORRS1080	Submittal Re-Review/Approval - Div	vision 09 Finishes	14	11-Apr-2022	24-Apr-2022	Submittal Re-Review/Approval - Division 09 Finishes
SPO	ORRS1050	Submittal Re-Review/Approval - Div	vision 12 Furnishings	14	11-Apr-2022	24-Apr-2022	Submittal Re-Review/Approval - Division 12 Furnishings
SPO	ORRS1040	Submittal Re-Review/Approval - Div	vision 13 Special Construction	14	11-Apr-2022	24-Apr-2022	Submittal Re-Review/Approval - Division 13 Special Construction
SPO	ORRS1100	Submittal Re-Review/Approval - Div	vision 07 Thermal Moisture Protection	14	25-Apr-2022	8-May-2022	Submittal Re-Review/Approval - Division 07 Thermal Moisture Protection
SPO	ORRS1090	Submittal Re-Review/Approval - Div	vision 08 Openings	14	11-May-2022	24-May-2022	Submittal Re-Review/Approval - Division 08 Openings
SPO	ORRS1030	Submittal Re-Review/Approval - Div	vision 14 Conveying Systems	14	11-May-2022	24-May-2022	Submittal Re-Review/Approval - Division 14 Conveying Systems
SPO	ORRS1020	Submittal Re-Review/Approval - Div	vision 15 Mechanical	14	11-May-2022	24-May-2022	■ Submittal Re+Review/Approval - Division 15 Mechanical
SPO	ORRS1140	Submittal Re-Review/Approval - Div	vision 03 Concrete	14	21-May-2022	3-Jun-2022	Submittal Re-Review/Approval - Division 03 Concrete
SPO	ORRS1120	Submittal Re-Review/Approval - Div	vision 05 Metals	14	21-May-2022	3-Jun-2022	Submittal Re-Review/Approval - Division 05 Metals
SPO	ORRS1060	Submittal Re-Review/Approval - Div	vision 11 Equipment	14	25-May-2022	7-Jun-2022	Submittal Re-Review/Approval - Division 11 Equipment
SPO	ORRS1010	Submittal Re-Review/Approval - Div	vision 16 Electrical	14	25-May-2022	7-Jun-2022	Submittal Re-Review/Approval - Division 16 Electrical
/laterial P	Procurement			416	20-Feb-2022	11-Apr-2023	▼ 11-Apr-2023, Material Procurement
_	al Fabrication				20-Feb-2022	14-Mar-2023	▼ 14-Mar-2023, Material Fabrication
	MF1150	Material Fabrication - Division 02 Si			20-Feb-2022	5-Apr-2022	Material Fabrication - Division 02 Site Construction
	MF1130	Material Fabrication - Division 04 M	•		10-Mar-2022	8-May-2022	☐ Material Fabrication - Division 04 Masonry
	MF1110	Material Fabrication - Division 06 W	•		26-Mar-2022	24-May-2022	Material Fabrication - Division 06 Wood, Plastics, and Composites
	MF1070	Material Fabrication - Division 10 S			5-Apr-2022	3-Jul-2022	Material Fabrication - Division 10 Specialties
	MF1080	Material Fabrication - Division 09 Fi			25-Apr-2022	23-Jun-2022	☐ Material Fabrication - Division 09 Finishes
	MF1050	Material Fabrication - Division 12 Fu	•		25-Apr-2022	22-Aug-2022	Material Fabrication - Division 12 Furnishings
	MF1040	Material Fabrication - Division 13 S			25-Apr-2022	10-Nov-2022	Material Fabrication - Division 13 Special Construction
	MF1100	Material Fabrication - Division 07 Th			9-May-2022	5-Sep-2022	Material Fabrication - Division 07 Thermal Moisture Protection
	MF1090	Material Fabrication - Division 08 O	• •		25-May-2022	22-Aug-2022	Material Fabrication - Division 08 Openings
	MF1030	Material Fabrication - Division 14 C			25-May-2022	10-Dec-2022	Material Fabrication - Division 14 Conveying Systems
	MF1020	Material Fabrication - Division 15 M			25-May-2022	22-Aug-2022	Material Fabrication - Division 15 Mechanical
	MF1140	Material Fabrication - Division 03 C			4-Jun-2022	11-Jul-2022	☐ Material Fabrication - Division 03 Concrete
	MF1120	Material Fabrication - Division 05 M			4-Jun-2022	1-Sep-2022	Material Fabrication - Division 05 Metals
	MF1060	Material Fabrication - Division 11 Ed	• •		8-Jun-2022	14-Feb-2023	Material Fabrication - Division 11 Equipment
	MF1010	Material Fabrication - Division 16 El	ectrical		8-Jun-2022	14-Mar-2023	Material Fabrication - Division 16 Electrical
	al Delivery	Matarial Deficiency Division 20 Cm C	No. of the control of		6-Apr-2022	11-Apr-2023	▼ 11-Apr-2023, Material Delivery
	MD1150	Material Delivery - Division 02 Site 0			6-Apr-2022	3-May-2022	☐ Material Delivery - Division 02 Site Construction
	MD1130	Material Delivery - Division 04 Maso	·		9-May-2022	5-Jun-2022	Material Delivery - Division 04 Masonry  Material Delivery - Division 04 Masonry  Material Delivery - Division 04 Masonry  Material Delivery - Division 04 Masonry
	MD1110	Material Delivery - Division 06 Wood	•		25-May-2022	21-Jun-2022	Material Delivery - Division 06 Wood, Plastics, and Composites  Notation Delivery - Division 00 Finishes
	MD1080	Material Delivery - Division 09 Finish			24-Jun-2022	21-Jul-2022	Material Delivery - Division 09 Finishes
	MD1070	Material Delivery - Division 10 Spec			4-Jul-2022	31-Jul-2022	Material Delivery - Division 10 Specialties
MPN	MD1140	Material Delivery - Division 03 Conc	rete	28	12-Jul-2022	8-Aug-2022	☐ Material Delivery - Division 03 Concrete

	Plan	. Build. Manage.						
		Activity Name		Origina Duration		Finish		2027 2028
	MPMD1090	Material Delivery - Division 08 Opening			3 23-Aug-2022	19-Sep-2022	Material Delivery - Division 08 Openings	
L	MPMD1050	Material Delivery - Division 12 Furnishi	•		3 23-Aug-2022	19-Sep-2022	☐ Material Delivery - Division 12 Furnishings	
L	MPMD1020	Material Delivery - Division 15 Mechan	ical		23-Aug-2022	19-Sep-2022	Material Delivery - Division 15 Mechanical	
	MPMD1120	Material Delivery - Division 05 Metals			3 2-Sep-2022	29-Sep-2022	Material Delivery - Division 05 Metals	
L	MPMD1100	Material Delivery - Division 07 Therma			6-Sep-2022	3-Oct-2022	Material Delivery - Division 07 Thermal Moisture Protection	
L	MPMD1040	Material Delivery - Division 13 Special			3 11-Nov-2022	8-Dec-2022	☐ Material Delivery - Division 13 Special Construction	
L	MPMD1030	Material Delivery - Division 14 Convey			11-Dec-2022	7-Jan-2023	Material Delivery - Division 14 Conveying Systems	
L	MPMD1060	Material Delivery - Division 11 Equipme			15-Feb-2023	14-Mar-2023	☐ Material Delivery - Division 11 Equipment	
L	MPMD1010	Material Delivery - Division 16 Electrica	al		15-Mar-2023	11-Apr-2023	□ Material Delivery - Division 16 Electrical	
0	nstruction			1041	4-Jan-2022	22-Jan-2026	▼ 22-Jan-2026, C	onstruction
E	arly Site Work			885	4-Jan-2022	18-Jun-2025	▼ 18-Jun-2025, Early Site	Work
	Site Mobilization & By-Pas			99	4-Jan-2022	26-May-2022	26-May-2022, Site Mobilization & By-Passes	
L	SMBP1000	Install Site Construction Office Comple	•		4-Jan-2022	15-Feb-2022	☐ Install Site Construction Office Complex/ Parking	
L	SMBP1010	Set up Control Entries, Silt & Dust Fen			2-Mar-2022	22-Mar-2022	Set up Control Entries, Silt & Dust Fence	
	SMBP1020	Install Temporary W12" By-Pass (See	Sheet C40-014)	10	23-Mar-2022	6-Apr-2022	I Install Temporary W12" By-Pass (See Sheet C40-014)	
	SMBP1030	Install Temporary S6" Bypass w/ ARV,	350 lf (See Sheet C40-014)	10	23-Mar-2022	6-Apr-2022	I Install Temporary \$6" Bypass w/ ARV, 350 If (See Sheet C40-014)	
L	SMBP1040	Construct 30'x130' Sediment Basin Ea		10	23-Mar-2022	6-Apr-2022	Construct 30'x130' Sediment Basin East of MBR	
L	SMBP1050	Remove +/-40' of 8" Sewer & Plug Mh	l's (See Sheet C40-014)	5	7-Apr-2022	13-Apr-2022	Remove +/-40' of 8" Sewer & Plug MH's (See Sheet C40-014)	
L	SMBP1060	Reroute Electrical Ductbank Around F	PE Box (See Sheet C40-014)	15	7-Apr-2022	28-Apr-2022	Reroute Electrical Ductbank Around PE Box (See Sheet C40-014	)
L	SMBP1070	Construct 40'x120' Sediment Basin W	est of Thickener Bldg.	10	7-Apr-2022	21-Apr-2022	Construct 40'x120' Sediment Basin West of Thickener Bldg.	
	SMBP1080	Excavate & Shape Temp. Dewatering	Basin & Infiltration Trench #1	10	22-Apr-2022	5-May-2022	Excavate & Shape Temp. Dewatering Basin & Infiltration Trench #1	
	SMBP1090	Demo Abandoned Utilities After Reloc	ation is Complete	10	29-Apr-2022	12-May-2022	Demo Abandoned Utilities After Relocation is Complete	
L	SMBP1110	Install Reinjection Well West of Thicker	ner Bldg.	15	6-May-2022	26-May-2022	☐ Install Reinjection Well West of Thickener Bldg.	
	SMBP1100	96" PE Area Ready for Shoring System	m Installation	C	)	26-May-2022	◆ 96" PE Area Ready for Shoring System Installation	
	Site Demolition By Areas				4-Jan-2022	7-Sep-2022	7-Sep-2022, Site Demolition By Areas	
l		Plans 1 thru 4,7 &8 (Secondary Treatment Areas)			4-Jan-2022	7-Sep-2022	7-Sep-2022, Demolish Areas Site Plans 1 thru 4, 7 & 8 (Secon	ndary Treatment Areas)
	SD2T1020	Hazardous Material Removal (Abaten	· · · · · · · · · · · · · · · · · · ·		4-Jan-2022	25-Jan-2022	Hazardous Material Removal (Abatement)	
ı	SD2T1010	HECO Power Line Removal (Assume	,		4-Jan-2022	4-Jan-2022	) HECO Power Line Removal (Assume disconnected at NTP)	
	SD2T1000	Shutdown, LOTO Existing Utilities Thro	<u> </u>		9-Mar-2022	10-Mar-2022	I Shutdown, LOTO Existing Utilities Throughout Demo Area	
ı	SD2T1030	HECO Disconnect & Remove Power			11-Mar-2022	11-Mar-2022	I HECO Disconnect & Remove Power Lines	
	SD2T1040	Demolish Building Structures, Paveme	ents, Foundations & Utilities		14-Mar-2022	10-May-2022	Demolish Building Structures, Pavements, Foundations & Utilities	
ı	SD2T1070	Relocate Owner Containers			3 23-Mar-2022	28-Mar-2022	Relocate Owner Containers	
ı	SD2T1080	Demo C&G, Paving Foul Air & 36" Pip			29-Mar-2022	26-Apr-2022	Demo C&G, Paving Foul Air & 36" Pipe Near UV Effl. Structure	
	SD2T1090	Remove Utilities @ Tie-in Location of E			27-Apr-2022	10-May-2022	Remove Utilities @ Tie-in Location of Effl. Tunnel to UV Str.	
	SD2T1060	ENV Permit Process & Final Approval	(4 months Addendum 5)		11-May-2022	7-Sep-2022	ENV Permit Process & Final Approval (4 months Addendum 5	
		Plans 5, 6, 9 & 10 (Thickner Bldg Areas)			29-Mar-2022	20-Jul-2022	20-Jul-2022, Demolish Areas Site Plans 5, 6, 9 & 10 (Thickner E	ldg Areas)
	SDTB1000	Relocate Owner Containers			3 29-Mar-2022	31-Mar-2022	Relocate Owner Containers	
	SDTB1010	Relocate Generator, Tank & Enclosure			3 1-Apr-2022	5-Apr-2022	I Relocate Generator, Tank & Enclosure	
	SDTB1020	Demo Parking Canopy & Posts & Ligh	IT MOIES		6-Apr-2022	14-Apr-2022	Demo Parking Canopy & Posts & Light Poles	
	SDTB1030	Demo Parking Lot			18-Apr-2022	21-Apr-2022	I Demo Parking Lot	
	SDTB1040	Abandon Monitoring Well	40)		2 22-Apr-2022	25-Apr-2022	I Abandon Monitoring Well	
	SDTB1050	Demo 72" Outfall Bypass Pipe (Plan #	710)		29-Jun-2022	20-Jul-2022	Demo 72" Outfall Bypass Pipe (Plan #10)	2014
		Plan 7, 8, 11 & 12 (Utility Tunnel Areas)			1-Apr-2022	28-Jun-2022	28-Jun-2022, Demolish Areas Site Plan 7, 8, 11 & 12 (Utility Tuni	iei Areas)
	SDUT1000	Relocate Owner Containers	Darwiana 9 Fanas		1-Apr-2022	7-Apr-2022	Relocate Owner Containers	
	SDUT1010	Demo Existing Trees, Concrete MH's,	Damers & Fence		8-Apr-2022	22-Apr-2022	I Demo Existing Trees, Concrete MH's, Barriers & Fence	
4	SDUT1020	Demo Roadway Curb & Gutter			25-Apr-2022	29-Apr-2022	I Demo Roadway Curb & Gutter	

HE Plan	ENSEL PHELPS n. Build. Manage.		, ,			
	Activity Name	1	Original Start Duration	Finish		028
						QQ
SDUT1030	Demo Headwalls, Culverts & Barrie		5 2-May-2022	6-May-2022	I Demo Headwalls, Culverts & Barriers	
SDUT1040	-	doned Outfall Pipe(2 Locations Plan #7)	20 9-May-2022	6-Jun-2022	☐ Cut, Plug & Remove 36" Dia. Abandoned Outfall Pipe(2 Locations Plan #7)	
SDUT1050	Cut, Plug & Remove 60" Dia. Aband	doned FM (Plan #7)	15 7-Jun-2022	28-Jun-2022	Cut, Plug & Remove 60" Dia Abandoned FM (Plan #7)	
	ng, Pad Prep, Shoring & Excavation By Areas		488 16-Feb-2022	5-Feb-2024	5-Feb-2024, Site Grading, Jet Grouting, Pad Prep, Shorin	g & Exca
Secondary Treatmer JGSH1020		mont 9 Materials	186 11-May-2022	8-Feb-2023	8-Feb-2023, Secondary Treatment Structure  Mobilize Grouting & Shoring Equipment & Materials	
JGSH1020 JGSH1030	Mobilize Grouting & Shoring Equipm		10 11-May-2022 40 8-Sep-2022	24-May-2022 2-Nov-2022	Install Jet Grout Plug Below PE Pump Station Structure	
JGSH1030 JGSH1070	Install Jet Grout Plug Below PE Pun Install Shoring @ PE Pump Station	•	35 3-Nov-2022	23-Dec-2022	Install Shoring @ PE Pump Station	
JGSH1090	Sheet Pile Piles for 42" PE DI Shorir		1 3-Nov-2022	3-Nov-2022	Sheet Pile Piles for 42" PE DI Shoring North Side	
JGSH1090 JGSH1080	Excavate & Dewater PE Pump Stat	•	30 27-Dec-2022	8-Feb-2023	Excavate & Dewater PE Pump Station Pit	
JGSH1100	Sheet Pile Piles for 42" PE DI Shorir		1 6-Jan-2023	6-Jan-2023	Sheet Pile Piles for 42" PE DI Shoring South Side	
96" Primary Effluent		ng South Side	70 24-Oct-2023	5-Feb-2024	▼ 5-Feb-2024, 96" Primary Effluent Area	
JGSH1040	Install Shoring From PE Junction St	ructure to PE Pump Station	10 24-Oct-2023	6-Nov-2023	Install Shoring From PE Junction Structure to PE Pump Statio	n
JGSH1060	Install Jet Grout Plug Below Future	•	5 7-Nov-2023	14-Nov-2023	Install Jet Grout Plug Below Future 96" PE	
JGSH1120	Excavate & Dewater 96" Pipe Trend		5 15-Nov-2023	21-Nov-2023	I Excavate & Dewater 96" Pipe Trench	
JGSH1130	Install 96" PE-A & PE-B Lines & Cor		30 22-Nov-2023	5-Jan-2024	☐ Install 96" PE-A & PE-B Lines & Connect to Both Structures	
JGSH1140	Test & Backfill 96" PE Lines	THIOSE IS BOTH CHASIATOS	20 8-Jan-2024	5-Feb-2024	☐ Test & Backfill 96" PE Lines	
Thickener Building St			5 26-Jan-2023	1-Feb-2023	▼ 1-Feb-2023, Thickener Building Structure	
JGSH1110	Soil Mix For Low Trench Structure		5 26-Jan-2023	1-Feb-2023	I Soil Mix For Low Trench Structure	
Existing Ductbanks 8	& Influent Lines		45 16-Feb-2022	22-Apr-2022	▼▼ 22-Apr-2022, Existing Ductbanks & Influent Lines	
JGSH1010	Predrill & Install Sheetpile @ Existing	g Ala Moana FM#2	25 16-Feb-2022	23-Mar-2022	☐ Predrill & Install Sheetpile @ Existing Ala Moana FM#2	
JGSH1050	Predrill & Install Sheetpile @ Existing	g Ala Moana FM#3&4	20 24-Mar-2022	22-Apr-2022	☐ Predrill & Install Sheetpile @ Existing Ala Moana FM#3&4	
Site Utilities By Area & B	Ву Туре		779 1-Apr-2022	21-May-2025	▼ 21-May-2025, Site Utilities By Area & By	Туре
Site Storm Drainage			256 1-Apr-2022	13-Apr-2023	13-Apr-2023, Site Storm Drainage	
SUST1000	Install Shoring & Dewatering Syster	•	25 1-Apr-2022	6-May-2022	☐ Install \$horing & Dewatering System @ SWJB	
SUST1010	Install Jet Grouted Columns & Plug	-	10 9-May-2022	20-May-2022	I Install Jet Grouted Columns & Plug @ SWJB	
SUST1030	Install Jet Grout Pier Support for B&		35 23-May-2022	13-Jul-2022	☐ Install Jet Grout Pier Support for B&C Box Culverts	
SUST1040	Install 5'x2' Box Culverts B&C w/ Mh		40 14-Jul-2022	9-Sep-2022	☐ Install 5'x2' Box Culverts B&C w/ MH's	
SUST1060	Install Jet Grout Pier Support for Bo		45 14-Jul-2022	16-Sep-2022	☐ Install Jet Grout Pier Support for Box CulvertA	
SUST1020	Exc., FRP Stormwater Junction Box	, ,, , , ,	35 9-Aug-2022	28-Sep-2022	Exc., FRP Stormwater Junction Box (SWJB)(Yard Piping Plan #2)	
SUST1070	Install Drain Line D 18" Dia. & FRP I	Inlet Structure & Set MH's	15 12-Sep-2022	30-Sep-2022	Install Drain Line D 18" Dia. & FRP Inlet Structure & Set MH's	
SUST1080	Install 5'x2' Box Culvert A w/ MH's		50 19-Sep-2022	29-Nov-2022	☐ Install 5'x2' Box Culvert A w/ MH's	
SUST1090	Install 8" & 10" DL to DL-B2 & DMH		10 3-Oct-2022	14-Oct-2022	I Install 8" & 10" DL to DL-B2 & DMH-A1 MH's - West of MBR	
SUST1100	Install Drain Line E & F 15" Dia. & M		25 17-Oct-2022	21-Nov-2022	☐ Install Drain Line E & F 15" Dia. & MH's - South & East of MBR	
SUST1050	Install Alum. Stairs, Gratings, Gates	& Check Valves @ SWJB	20 15-Mar-2023	13-Apr-2023	Install Alum Stairs, Gratings, Gates & Check Valves @ \$WJB	
Site Sewer System	In atall 40" DE D.I. Navida Diagram De-	Page Dageton & Fine Correct	161 25-Nov-2022	20-Jul-2023		
SUSS1000	Install 42" PE D.I. North Blower, Pro		25 25-Nov-2022	30-Dec-2022	☐ Install 42" PE D.I. North Blower, Process Reactor & Fine Screen ☐ Install 42" PE D.I. South Blower, MBR Service Bldg	
SUSS1010	Install 42" PE D.I. South Blower, MB	<u> </u>	22 9-Jan-2023	8-Feb-2023		
SUSS1020	Install & Test 42" PE D.I. N. Riser &	Tie-in @ 6 Line Foundation Wall Tie-in @ 9 Line Thru Stair Fndn Walls	10 16-May-2023	30-May-2023	I Install & Test 42" PE D.I. N. Riser & Tie-in @ 6 Line Foundation Wall Install & Test 42" PE D.I. S. Riser & Tie-in @ 9 Line Thru Stair Fnd	
SUSS1030	IIIStali & lest 42" PE D.I. 5. Riser &	TIE-III (W 9 LITIE TITIU SIAIT FINDI VVAIIS	10 7-Jul-2023	20-Jul-2023	8-Feb-2024, Site Process Piping	ivvalis
Site Process Piping SUPP1000	Install & Test 14" Primary Sludge D.I		169 6-Jun-2023 31 6-Jun-2023	8-Feb-2024 20-Jul-2023	■ V 8-Feb-2024, Site Process Piping □ Install & Test 14" Primary Sludge D.I.	
SUPP1010	Install & Test 14" Filtrate D.I. Line	1.	46 21-Jul-2023	26-Sep-2023	Install & Test 14" Filtrate D.I. Line	
SUPP1010	Install & Test 6" Thickened Primary 9	Studge Line D.I	32 27-Sep-2023	9-Nov-2023	Install & Test 6" Thickened Primary Sludge Line D.I.	
SUPP1030	Install & Test 6" Thickened Blended		32 27-Sep-2023 30 13-Nov-2023	26-Dec-2023	Install & Test 6" Thickened Blended "A" Sludge Line D.I.	
SUPP1040	Install & Test 6" Thickened Blended		30 13-Nov-2023 30 27-Dec-2023	8-Feb-2024	Install & Test 6" Thickened Blended "B" Sludge Line D.I.	
Site Water Lines	III Stali & lest o THICKETIEU DIETIUEU	ъ oldage Ellie D.I.	547 9-Mar-2023	21-May-2025	▼ 21-May-2025, Site Water Lines	
Olic Water Lines			9-IVIAI-2023	Z T-IVIAY-ZUZJ	V Z ITIVIAY-ZDZO, OIIC WALLI LINES	<u> </u>

	Activity Name	Original Start Duration	Finish	2022 2023 2024 2025 2026 2027 2028
SUWL1000	Exc. Water and Fire Lines	20 9-Mar-2023	6-Apr-2023	☐ Exc. Water and Fire Lines
SUWL1010	Install Water and Fire Lines	20 10-Apr-2023	5-May-2023	□ Install Water and Fire Lines
SUWL1020	Test and Backfill Water and Fire lines	20 8-May-2023	5-Jun-2023	□ Test and Backfill Water and Fire lines
SUWL1030	Install Utilities at Thickener Bldg After Backfill (C40-037)	70 10-Feb-2025	21-May-2025	Install Utilities at Thickener Bldg After Backfill
SUPP1050	Install Utilities at IPS After Backfill (C40-042)	50 13-Feb-2025	28-Apr-2025	Install Utilities at IPS After Backfill (C40-042)
Site Power & Comm. Duc	<del></del>	735 25-May-2022	12-May-2025	
SUCD1070	UT1 Ductbank & Site Ligthing - Exc,Install,FRP, Backfill	10 25-May-2022	8-Jun-2022	UT1 Ductbank & Site Ligthing - Exc,Install,FRP,Backfill
SUCD1080	UT5-1 Ductbank & Site Ligthing - Exc,Install,FRP, Backfill	15 9-Jun-2022	30-Jun-2022	UT5-1 Ductbank & Site Ligthing - Exc,Install,FRP, Backfill
SUCD1090	UT5-2 Ductbank & Site Ligthing - Exc,Install,FRP, Backfill	15 1-Jul-2022	22-Jul-2022	□ UT5-2 Ductbank & Site Ligthing - Exc,Install,FRP, Backfill
SUCD1100	UT5-3 Ductbank & Site Ligthing - Exc,Install,FRP, Backfill	15 25-Jul-2022	12-Aug-2022	UT5-3 Ductbank & Site Ligthing - Exc, Install, FRP, Backfill
SUCD1110	UT5-4 Ductbank & Site Ligthing - Exc,Install,FRP, Backfill	15 15-Aug-2022	6-Sep-2022	UT5-4 Ductbank & Site Ligthing - Exc, Install, FRP, Backfill
SUCD1120	UT5-5 Ductbank & Site Ligthing - Exc,Install,FRP, Backfill	15 7-Sep-2022	27-Sep-2022	■ UT5-5 Ductbank & Site Ligthing - Exc,Install,FRP, Backfill
SUCD1130	UT5-6 Ductbank & Site Ligthing - Exc,Install,FRP, Backfill	20 28-Sep-2022	25-Oct-2022	UT5-6 Ductbank & Site Ligthing - Exc, Install, FRP, Backfill
SUCD1140	UT5-7 Ductbank - Exc,Install,FRP, Backfill	15 26-Oct-2022	16-Nov-2022	□ UT5-7 Ductbank - Exc,Install,FRP, Backfill
SUCD1150	UT5-8 Ductbank - Exc,Install,FRP, Backfill	15 17-Nov-2022	8-Dec-2022	□ UT5-8 Ductbank - Exc,Install,FRP, Backfill
SUCD1160	UT6 Ductbank - Exc,Install,FRP, Backfill	10 9-Dec-2022	22-Dec-2022	0 UT6 Ductbank - Exc, Install, FRP, Backfill
SUCD1170	UT7 Ductbank - Exc,Install,FRP, Backfill	10 23-Dec-2022	9-Jan-2023	UT7: Ductbank - Exc, Install, FRP, Backfill
SUCD1180	UT8-1 Ductbank - Exc, Install, FRP, Backfill	10 10-Jan-2023	24-Jan-2023	□ UT8-1 Ductbank - Exc,Install,FRP, Backfill
SUCD1190	UT8-2 Ductbank - Exc,Install,FRP, Backfill	10 25-Jan-2023	7-Feb-2023	UT8-2 Ductbank - Exc, Install, FRP, Backfill
SUCD1240	Site Lighting East & South of Borrow Pit - Exc,Install,FRP, Backfill	20 8-Feb-2023	8-Mar-2023	☐ Site Lighting East & South of Borrow Pit - Exc,Install,FRP, Backfill
SUCD1200	UT2 Ductbank & Site Ligthing - Exc,Install,FRP, Backfill	15 13-Feb-2025	6-Mar-2025	UT2 Ductbank & Site Ligthing - Exc, install, FRP,
				□ UT3A Ductbank & Site Lighting - Exc, Install, FR
SUCD1210	UT3A Ductbank & Site Ligthing - Exc,Install,FRP, Backfill	15 7-Mar-2025	28-Mar-2025	
SUCD1220	UT3B Ductbank & Site Ligthing - Exc,Install,FRP, Backfill	15 31-Mar-2025	21-Apr-2025	UT3B Ductbank & Site Ligthing - Exc,Install,Ff
SUCD1230	UT4 Ductbank & Site Ligthing - Exc,Install,FRP, Backfill	15 22-Apr-2025	12-May-2025	UT4 Ductbank & Site Lighting - Exc, Install,FR
Auger Cast Pile, Sub & Supe AUTS1000	Mobilize, Install Anchor & Load Test Piles	770 11-May-2022	18-Jun-2025	■    ■    ■    ■    ■    ■    ■
	·	5 9-Aug-2022	15-Aug-2022	
AUTS1010	Perform Load Test 7 days after Test Pile Installation	10 16-Aug-2022	30-Aug-2022	Perform Load Test 7 days after Test Pile Installation
IPS/Blower - Elevation -10		100 9-Feb-2023	6-Jul-2023	6-Jul-2023, IP\$/Blower - Elevation -10.5' MSL Pad  □ Prep, Concrete/Gravel Base for Slab Work
IPSBLW1040	Prep, Concrete/Gravel Base for Slab Work	30 9-Feb-2023	23-Mar-2023	
IPSBLW1050	FRP -10.5 Base Slab & Cure	35 10-Mar-2023	1-May-2023	FRP -10.5 Base Slab & Cure
IPSBLW1060	FRP Lower Walls & Columns On -10.5 Slab	60 11-Apr-2023	6-Jul-2023	FRP Lower Walls & Columns On -10.5 Slab
IPSBLW1070	FRP Equipment Pads & & Conc. Slope Fills	15 15-Jun-2023	6-Jul-2023	□ FRP Equipment Pads & & Conc. Slope Fills
IPSBLW1090	Install 42" PE D.I. Wall Sleeves	5 29-Jun-2023	6-Jul-2023	I Install 42" PE D.I. Wall Sleeves
IPSBLW1100	Install 96" RCP Wall Sleeves	5 29-Jun-2023	6-Jul-2023	I Install 96" RCP Wall Sleeves
IPS/Blower-Elevation+2		407 3-Nov-2022	26-Jun-2024	▼ 26-Jun-2024, IPS/ Blower- Elevation +2.5 MSL Pad
	evation +2.5' MSL Level	355 3-Nov-2022	11-Apr-2024	11-Apr-2024, IPS/ Blower North- Elevation +2.5' MSL Level
IPSBLW1000	Install Auger Cast Pile North	14 3-Nov-2022	23-Nov-2022	Install Auger Cast Pile North
IPSBLW1020	Excavate & Pile Cutoff N. Slab	24 25-Nov-2022	29-Dec-2022	■ Excavate & Pile Cutoff N. Slab
IPSBLW1160	Prep, Concrete/Gravel Base for N. Slab Work	25 3-Oct-2023	6-Nov-2023	☐ Prep, Concrete/Gravel Base for N, Slab Work
IPSBLW1190	FRP +2.5 North Base Slab & Cure	30 7-Nov-2023	20-Dec-2023	□ FRP +2.5 North Base Slab & Cure
IPSBLW1220	FRP Walls & Columns North +2.5 Level	45 21-Dec-2023	27-Feb-2024	FRP Walls & Columns North +2.5 Level
IPSBLW1240	Cure & Backfill +2.5' to +14.5' N. IPS/ Blower	30 28-Feb-2024	11-Apr-2024	□ Cure & Backfill +2,5' to +14.5' N, IP\$/ Blower
	vation +2.5' MSL Level	70 22-Jun-2023	2-Oct-2023	2-Oct-2023, IPS/ Central Core- Elevation +2.5' MSL Level
IPSBLW1080	Shore, FRP W/ W.S. Structural Slab @ 2.5 Over -10.5	25 22-Jun-2023	27-Jul-2023	□ Shore, FRP W/ W.S. Structural Slab @ 2.5 Over -10.5
IPSBLW1110	FRP Wetwell Walls 2nd Lift	35 7-Jul-2023	25-Aug-2023	☐ FRP Wetwell Walls 2nd Lift
IPSBLW1120	FRP Raised Slab over 42" PE & Stairwell Walls	15 21-Jul-2023	10-Aug-2023	FRP Raised Slab over 42" PE & Stairwell Walls

	Activity Name	Original Start Duration	Finish	2022     2023     2024     2025     2026     2027     2028       Q <t< th=""></t<>
IPSBLW1130	FRP Columns & Corbels on C & D Line to 16.0' Elevation	15 28-Jul-2023	17-Aug-2023	FRP Columns & Corbels on C & D Line to 16.0' Elevation
IPSMEP1270	Install Slide Gate - SLG 4100A	5 21-Aug-2023	25-Aug-2023	I Install Slide Gate - SLG 4100A
IPSMEP1280	Install Stop Log - SL 4100A	5 28-Aug-2023	1-Sep-2023	I Install Stop Log + SL 4100A
IPSBLW1150	Prepare & Water Test Wetwell	20 5-Sep-2023	2-Oct-2023	☐ Prepare & Water Test Wetwell
	evation +2.5' MSL Level	390 30-Nov-2022	26-Jun-2024	✓ 26-Jun-2024, IPS/ Blower South- Elevation +2.5' MSL Leve
IPSBLW1010	Install Auger Cast Pile South	17 30-Nov-2022	22-Dec-2022	□ Install Auger Cast Pile South
IPSBLW1030	Excavate & Pile Cutoff S. Slab	26 23-Dec-2022	1-Feb-2023	☐ Excavate & Pile Cutoff S. Slab
IPSBLW1170	Prep, Concrete/Gravel Base for S. Slab Work	25 3-Oct-2023	6-Nov-2023	□ Prep, Concrete/Gravel Base for S, Slab Work
IPSBLW1210	FRP +2.5 South Base Slab & Cure	30 21-Dec-2023	5-Feb-2024	☐ FRP +2.5 South Base Slab & Cure
IPSBLW1250	FRP Walls & Columns South +2.5 Level	62 28-Feb-2024	28-May-2024	FRP Walls & Columns South +2.5 Level
IPSBLW1320	Cure & Backfill +2.5' to +14.5' S. IPS/ Blower	20 29-May-2024	26-Jun-2024	□ Cure & Backfill +2.5' to +14.5' S. IPS/ Blower
IPS/Blower-Elevation+10		389 21-Aug-2023	13-Mar-2025	▼ 13-Mar-2025, IPS/Blower-Elevation +16.0 MSL
<u> </u>	vation +16.0' MSL Level	82 12-Apr-2024	8-Aug-2024	8-Aug-2024, IPS/Blower North- Elevation +16.0 MSL Lev
IPSBLW1290	FRP North IPS Str. Slab @ +16.0 After Backfill (9200sf)	25 12-Apr-2024	16-May-2024	☐ FRP North IPS Str. Slab @ +16.0 After Backfill (9200sf)
IPSBLW1310	FRP Col. & Walls @ Stair, Gen. & FP Rms (Lower Lift to 27.0')	25 29-May-2024	3-Jul-2024	☐ FRP Col. & Walls @ Stair, Gen. & FP Rms (Lower Lift to 27
IPSBLW1340	FRP IPS/Blower Fuel Storage Pad	25 5-Jul-2024	8-Aug-2024	☐ FRP IPS/Blower Fuel Storage Pad
	pre-Elevation +16.0' MSL Level	65 21-Aug-2023	21-Nov-2023	21-Nov-2023, IPS/Blower Central Core- Elevation +16.0' MSL Leve
IPSBLW1140	FRP Columns & Corbels on C & D Line to +25.5' Elevation	15 21-Aug-2023	11-Sep-2023	■ FRP Columns & Corbels on C & D Line to +25,5' Elevation
IPSBLW1180	FRP Wetwell Walls 3rd Lift	35 3-Oct-2023	21-Nov-2023	☐ FRP Wetwell Walls 3rd Lift
	evation +16.0' MSL Level	70 27-Jun-2024	7-Oct-2024	₹ 7-Oct-2024, IPS/Blower \$outh- Elevation +16,0' MSL Lo
IPSBLW1350	FRP South IPS Str. Slab @ +16.0 After Backfill	20 27-Jun-2024	25-Jul-2024	□ FRP South IPS Str. Slab @ +16.0 After Backfill
IPSBLW1370	FRP Col. & Walls @ Stair, Storage Rm & Elevators (Lower Lift to 27.0')	50 26-Jul-2024	7-Oct-2024	FRP Col. & Walls @ Stair, Storage Rm & Elevators (Lov
	Air Structures +16 Level North of BLW Building	20 13-Feb-2025	13-Mar-2025	▼ 13-Mar-2025, Exterior Diesel & Foul Air Structures
IPSBLW1410	Install Auger Cast Pile for FA & Diesel Pads	5 13-Feb-2025	20-Feb-2025	I Install Auger Cast Pile for FA & Diesel Pads
IPSBLW1420	Excavate & Cutoff Piles @ FA & Diesel Pads	5 21-Feb-2025	27-Feb-2025	Il Excavate & Cutoff Piles @ FA & Diesel Pads
IPSBLW1430	FRP Pads for FA & Diesel Equipment	10 28-Feb-2025	13-Mar-2025	■ FRP Pads for FA & Diesel Equipment
IPS/Blower-Elevation +2	·	297 22-Nov-2023	3-Feb-2025	3-Feb-2025, IPS/Blower- Elevation +27.0' MSL
IPS/Blower North-Elev	vation +27.0' MSL Level	105 5-Jul-2024	4-Dec-2024	▼ 4-Dec-2024, IP\$/Blower North- Elevation +27.0' MSL
IPSBLW1330	FRP North IPS Str. Slab @ +27.0 @ Electrical Rm & Roof	20 5-Jul-2024	1-Aug-2024	□ FRP North IPS Str. Slab @ +27.0 @ Electrical Rm & Root
IPSBLW1360	FRP Col. & Walls @ Stair, Gen. & Elect. Rms (Upper Lift to 42.0')	40 8-Oct-2024	4-Dec-2024	FRP Col. & Walls @ Stair, Gen. & Elect. Rms (Upper
IPS/Blower Central Co	ore- Elevation +27.0' MSL Level	80 22-Nov-2023	19-Mar-2024	19-Mar-2024, IPS/Blower Central Core- Elevation +27.0 MSL I
IPSBLW1200	Shore, FRP Central Core IPS Str. Slab @ +27.0' TALL SHORING	40 22-Nov-2023	22-Jan-2024	Shore, FRP Central Core IPS Str. Slab @ +27.0 TALL SHORING
IPSBLW1230	FRP Central Core Walls & Parapets Above Elevation +27.0'	30 23-Jan-2024	5-Mar-2024	□ FRP Central Core Walls & Parapets Above Elevation +27.0'
IPSBLW1260	FRP Roof Curbs & Pads over Wetwell @ Elevation +27.0	10 6-Mar-2024	19-Mar-2024	I FRP Roof Curbs & Pads over Wetwell @ Elevation +27.0
IPS/Blower South-Ele	vation +27.0' MSL Level	80 8-Oct-2024	3-Feb-2025	→ 3-Feb-2025, IPS/Blower South- Elevation +27.0! M
IPSBLW1390	FRP South IPS Str. Slab @ +27.0 Blower, Office, Lab & Roof	35 8-Oct-2024	26-Nov-2024	☐ FRP South IPS Str. Slab @ +27.0 Blower, Office, Lab
IPSBLW1440	FRP Col. & Walls @ Blower, Office & Lab Rms(Upper Lift to 42.0')	40 5-Dec-2024	3-Feb-2025	FRP Col. & Walls @ Blower, Office & Lab Rms(Upp
IPS/Blower-Roof Elevation	on +43.0' MSL	319 6-Mar-2024	18-Jun-2025	18-Jun-2025, IPS/Blower- Roof Elevation +43
	of Elevation +43.0' MSL Level	107 5-Dec-2024	12-May-2025	▼ 12-May-2025, IPS/Blower North- Roof Elevation
IPSBLW1380	FRP North IPS Roof Str. Slab @ +43.0	20 5-Dec-2024	3-Jan-2025	□ FRP North IPS Roof Str. Slab @ +43.0
IPSBLW1400	FRP IPS North Roof Stair Walls & Parapet	40 4-Feb-2025	2-Apr-2025	FRP IPS North Roof Stair Walls & Parapet
IPSBLW1450	FRP IPS North Stair Roof Str. Slab & Sunshades	20 3-Apr-2025	1-May-2025	☐ FRP IPS North Stair Roof Str. Slab & Sunshade
IPSBLW1460	FRP IPS North Stair Roof Parapet Walls	7 2-May-2025	12-May-2025	FRP IPS North Stair Roof Parapet Walls
	ore-Roof Elevation +43.0' MSL Level	40 6-Mar-2024	2-May-2024	2-May-2024, IPS/Blower Central Core- Roof Elevation +43.0¹
IPSBLW1270	Shore, FRP Central Core IPS Roof Str. Slab @ +43.0'	15 6-Mar-2024	27-Mar-2024	☐ Shore, FRP Central Core IPS Roof Str. Slab @ +43.0'
IPSBLW1280	FRP Central Core Roof Parapets Walls Above Elevation +43.0'	10 28-Mar-2024	11-Apr-2024	FRP Central Core Roof Parapets Walls Above Elevation +43.0
IPSBLW1300	FRP Central Core Sun Shades & Corbel for Str. Steel Near +43.0' Elevation	15 12-Apr-2024	2-May-2024	□ FRP Central Core Sun Shades & Corbel for Str. Steel Near +

ſ		ISEL PHELPS	Sand Island WWTP	Secondary Tre	eatment (Pha	ise 1) - FINAI	L BID SCHEDULE	Data Date: 11-Aug-2021
/ity ID	Plan.	Build. Manage.  Activity Name		Origina	I Start	Finish	2022 2023	2024   2025   2026   2027   2028
, –				Duration		1		
	IPS/Blower South-Ro	of Elevation +43.0' MSL Level		92	4-Feb-2025	18-Jun-2025		18-Jun-2025, IPS/Blower South- Roof Elevation +
	IPSBLW1470	FRP South IPS Roof Str. Slab @ +43	.0	20	4-Feb-2025	4-Mar-2025		☐ FRP South IPS Roof Str. Slab @ +43.0
	IPSBLW1480	FRP IPS South Roof Stair & Elevator	Walls & Parapet Walls	20	3-Apr-2025	1-May-2025		□ FRP IPS South Roof Stair & Elevator Walls & Parape
	IPSBLW1490	FRP IPS South Stair & Elevator Roof	Str. Slab & Sunshades	25	2-May-2025	6-Jun-2025		☐ FRP IPS South Stair & Elevator Roof Str. Slab & Su
	IPSBLW1500	FRP IPS South Stair & Elevator Roof	Parapet Walls		9-Jun-2025	18-Jun-2025		FRP IPS South Stair & Elevator Roof Parapet Wall
<u> </u>	Fine Screen Process & I	Distribution Structure +2.5' MSL Pad to Roof	·		8-Sep-2022	6-Oct-2023	6-00	ct-2023, Fine Screen Process & Distribution Structure +2.5 MSL Pad
	FSP & FSD Foundatin	& Base Slab Structure			8-Sep-2022	4-Nov-2022		& FSD Foundatin & Base Slab Structure
	FSSTR1000	Install Auger Cast Pile Fine Screen		7	8-Sep-2022	16-Sep-2022	■ Install Auger Cast F	Pile Fine Screen
	FSSTR1010	Excavate & Pile Cutoff Fine Screen A	rea	10	19-Sep-2022	30-Sep-2022	■ Excavate & Pile Cu	utoff Fine Screen Area
	FSSTR1020	Prep, Concrete/Gravel Base for Fine	Screen Slab Work	10	3-Oct-2022	14-Oct-2022	Prep, Concrete/G	ravel Base for Fine Screen Slab Work
	FSSTR1030	FRP +2.5 Fine Screen Slab & Cure			7-Oct-2022	4-Nov-2022	☐ FRP +2.5 Fine So	creen Slab & Cure
	Fine Screen Process				7 7-Nov-2022	6-Oct-2023	<b>→</b> 6-0¢	ct-2023, Fine Screen Process Structure Area
	FSSTR1050	FRP Stair & FS Tank Walls @ '1' & '2'	Line to +8.75		7-Nov-2022	29-Nov-2022		Tank Walls @ '1' & '2' Line to +8.75
	FSSTR1080	FRP FS Tank Slab @ +10.25			7 14-Dec-2022	22-Dec-2022	□ FRP FS Tank S	
	FSSTR1090	FRP Stair & FS Tank Walls to +18.5			5 23-Dec-2022	31-Jan-2023		S Tank Walls to +18.5
	FSSTR1120	Install & Test 72" Flanged Pipe Between	en Walls @ '2' Line		1-Feb-2023	14-Feb-2023		72" Flanged Pipe Between Walls @ '2' Line
	FSSTR1240	Prep, Test Influent Box for 72" Pipe C			15-Feb-2023	1-Mar-2023		fluent Box for 72" Pipe Connection to Tank (Low Water)
	FSSTR1130	Backfill Chambers @ 72" Pipe	officection to fank (Low Water)		5 2-Mar-2023	8-Mar-2023		mbers @ 72" Pipe
			A/-II- (2) + 00 El		_			
	FSSTR1140	Shore, FRP Bms & Slabs Under FS \			9-Mar-2023	6-Apr-2023		P Brns & Slabs Under FS Walls @ +20.5'
	FSSTR1150	FRP Fine Screen Tank Walls to +25.			10-Apr-2023	28-Apr-2023		Screen Tank Walls to +25.5
	FSSTR1170	FRP FS & Stair Walls to +30.5' & +32			6-Jun-2023	12-Jul-2023		6 & Stair Walls to +30,5' & +32'
	FSSTR1180	Shore, FRP +32' Str. Slab @ FS & St			13-Jul-2023	16-Aug-2023		, FRP +32" Str. Slab @ FS & Stairwell
	FSSTR1190	FRP Stair & Parapet Walls Above +3			17-Aug-2023	8-Sep-2023		Stair & Parapet Walls Above +32'
	FSSTR1210	Prep, Test Fine Screen Tank & Chan		20	17-Aug-2023	15-Sep-2023		Test Fine Screen Tank & Channels
	FSSTR1200	Shore, FRP Stair Roof Slab, Sun Sha	nde & Parapet Walls @ +43'	20	11-Sep-2023	6-Oct-2023		re, FRP Stair Roof Slab, Sun Shade & Parapet Walls @ +43'
	FSSTR1220	Fine Screen Area Ready for Backfill 8	k Coatings	C	)	15-Sep-2023		Screen Area Ready for Backfill & Coatings
	Fine Screen Effluent I			162	7-Nov-2022	5-Jul-2023		023, Fine Screen Effluent Distribution Area
	FSSTR1040	FRP Walls Columns @ Influent Dist.	Channel to +16' & Tank to +10'	25	7-Nov-2022	13-Dec-2022		mns @ Influent Dist. Channel to +16' & Tank to +10'
	FSSTR1060	Cure, Backfill Walls Under FS Dist. Ta	nk to +8.75	10	30-Nov-2022	13-Dec-2022	I Cure, Backfill W	/alls Under FS Dist. Tank to +8.75
	FSSTR1070	Shore, FRP Dist. Tank Slab @ +11.2	5	10	14-Dec-2022	28-Dec-2022	☐ Shore, FRP Dis	st. Tank Slab @ +11.25
	FSSTR1100	FRP Walls On Top of +11.25 Dist. Tar	nk Slab to +16'	7	29-Dec-2022	9-Jan-2023	■ FRP Walls On	Top of +11.25 Dist. Tank Slab to +16'
	FSSTR1160	Shore, FRP Roof Slabs @ +27'		25	1-May-2023	5-Jun-2023	☐ Shore, F	RP Roof Slabs @ +27'
	FSSTR1110	Shore, FRP Struct. Dist. Channel Sla	b @ +18'		16-May-2023	14-Jun-2023	☐ Shore, F	RP Struct. Dist. Channel Slab @ +18'
	FSSTR1230	Prep, Test Distribution Tank & Chann	~		6-Jun-2023	5-Jul-2023		est Distribution Tank & Channel
	FSSTR1250	Distribution Box & Channel Ready fo			)	5-Jul-2023		tion Box & Channel Ready for Coatings
"	Process Reactor +2.5' N		- Coadings	333	3 19-Sep-2022	22-Jan-2024		22-Jan-2024, Process Reactor +2.5' MSL Pad
ı	PR Foundation & Bas				3 19-Sep-2022	15-May-2023		023, PR Foundation & Base Slab Structure
	PRSTR1000	Install Auger Cast Pile PR Area			3 19-Sep-2022	2-Nov-2022	Install Auger Cas	
	PRSTR1010	Excavate & Pile Cutoff PR Area			3-Nov-2022	18-Jan-2023		le Cutoff PR Area
	PRSTR1020	Install , Test, Conc Encase 12" PVC I	Prain Pipe @ -2.25		19-Dec-2022	2-Mar-2023		Conc Encase 12" PVC Drain Pipe @ +2.25
	PRSTR1030	Prep, Concrete/Gravel Base for PR	. •		19-Jan-2023	31-Mar-2023		rete/Gravel Base for PR Slab Work
	PRSTR1040	FRP +2.5 PR Base Slab & Cure	TOIN		16-Feb-2023	15-May-2023		PR Base Slab & Cure
	PR Tank Walls	174 - 2.51 IV Dasc Glab & Gule			16-Feb-2023	21-Nov-2023		-Nov-2023, PR Tank Walls
		Fabricate Wall Forms for PR Channel	ls					
						<u> </u>		
	רעפועוחוח	I AF Chamber#2 Walls to + 18 & +27	OII. OIdD	15	10-Apr-2023	o-iviay-2023	- FRE Char	IIIGITALIVIAIS W TIO X TZI SUI SIAU
	PRSTR1050 PRSTR1060 PRSTR1070  emaining Level of Effort ctual Level of Effort [	Fabricate Wall Forms for PR Channel FRP Channel #1 Walls to +18' & +27 FRP Channel #2 Walls to +18' & +27  Actual Work  Remaining Work  Miles	Str. Slab Str. Slab	20 15 15	16-Feb-2023 5 24-Mar-2023 5 18-Apr-2023 ge 8 of 27	16-Mar-2023 17-Apr-2023 8-May-2023	☐ Fabricate W ☐ FRP Chan	/all Forms for PR Channels nel #1 Walls to +18' & +27' Str. Slab nnel #2 Walls to +18' & +27' Str. Slab

	uild. Manage.  Activity Name	Original Start	Finish	2022 2023 2	2024 2025 2026 2027 2028 2
		Duration			
PRSTR1080	FRP Channel #1 Walls	50 18-Apr-202	23 28-Jun-2023	FRP Chan	
PRSTR1090	FRP Channel #3 Walls to +18' & +27' Str. Slab	15 9-May-202	3 30-May-2023	☐ FRP Chann	nel #3 Walls to +18' & +27' Str. Slab
PRSTR1100	FRP '4' Line Upper Wall +18' to +27' Channel #1	15 15-Jun-20	23 6-Jul-2023	0 FRP'4'Lir	ne Upper Wall +18 to +27' Channel #1
PRSTR1110	FRP Channel #2 Walls	50 29-Jun-20	23 11-Sep-2023	FRP Cr	nannel #2 Walls
PRSTR1120	FRP '4' Line Upper Wall +18' to +27' Channel #2	15 7-Jul-2023	27-Jul-2023	0 FRP'4'L	ine Upper Wall +18' to +27' Channel #2
PRSTR1130	FRP '4' Line Upper Wall +18' to +27' Channel #3	15 28-Jul-202	3 17-Aug-2023	□ FRP '4' L	ine Upper Wall +18' to +27' Channel #3
PRSTR1140	FRP Channel #3 Walls	50 12-Sep-20	23 21-Nov-2023	FRP	Channel #3 Walls
PR Structure @+27'	'	90 12-Sep-20	23 22-Jan-2024	▼ 22	2-Jan-2024, PR Structure @ +27"
PRSTR1150	Shore, FRP +27' Str. Slab Between Channels #1 & #2	20 12-Sep-20		☐ Shore	, FRP +27' Str. Slab Between Channels #1 & #2
PRSTR1160	Prep, Test PR Channel #1	20 10-Oct-202	23 6-Nov-2023	□ Prep,	Test PR Channel #1
PRMEP1320	Install Flap Gates	5 31-Oct-202	23 6-Nov-2023	I Install	I Flap Gates
PRSTR1170	PR Channel #1 Ready for Coatings	0	6-Nov-2023	◆ PR.C	hannel #1 Ready for Coatings
PRMEP1460	Install Influent Slide Gates - SLG 4301 A/B, 4302 A/B, 4303 AB (	) 10 7-Nov-202			Il Influent Slide Gates - SLG 4301 A/B, 4302 A/B, 4303 AB (5)
PRSTR1180	Prep, Test PR Channel #2	20 7-Nov-202			o, Test PR Channel#2
PRMEP1390	Install Effluent Slide Gates - SLG 4301, 4302, 4303 C-F (12)	10 22-Nov-20			all Effluent Slide Gates - SLG 4301, 4302, 4303 C-F (12)
PRSTR1190	Shore, FRP +27' Str. Slab @ Channel #3	20 22-Nov-20			ore, FRP +27' Str. Slab @ Channel #3
PRSTR1200	PR Channel #2 Ready for Coatings	0	6-Dec-2023		Channel #2 Ready for Coatings
PRSTR1210	Prep, Test PR Channel #3	20 21-Dec-20			ep, Test PR Channel #3
PRSTR1220	PR Channel #3 Ready for Coatings	0	22-Jan-2024		R Channel #3 Ready for Coatings
MBR Tanks +2.5' MSL Pac		579 3-Nov-202			6-Mar-2025, MBR Tanks +2.5 MSL Pad to Roof Structure
MBR Foundation & Bas		134 3-Nov-202		▼ 19-May-202	23, MBR Foundation & Base Slab Structure
MBRSTR1000	Install Auger Cast Pile MBR Area	31 3-Nov-202		■ Install Auger Cast	
MBRSTR1020	Excavate & Pile Cutoff MBR Slab	24 19-Jan-20	23 22-Feb-2023	☐ Excavate & Pile	e Cutoff MBR Slab
MBRSTR1030	Prep, Concrete/Gravel Base for MBR Slab Work	30 23-Feb-20		☐ Prep, Concre	ete/Gravel Base for MBR Slab Work
MBRSTR1060	FRP +2.5 MBR Base Slab & Cure	30 10-Apr-202	· ·		IBR Base Slab & Cure
MBR Channel Walls		200 8-May-202			6-Feb-2024, MBR Channel Walls
MBRSTR1080	FRP MBR Channel Walls 1, 2 & 3 to +27'	60 8-May-202		FRP MBF	R Channel Walls 1, 2 & 3 to +27'
MBRSTR1110	FRP MBR Channel Walls 4, 5 & 6 to +27'	60 3-Aug-202		FRP N	MBR Channel Walls 4, 5 & 6 to +27'
MBRSTR1120	Shore, FRP Str. Slab CH. 1, 2 & 3 on 8.1 Line @ +14.5'	10 3-Aug-202		☐ Shore, F	RP Str. Slab CH. 1, 2 & 3 on 8.1 Line @ +14.5
MBRSTR1150	FRP CH. 1, 2 & 3 Walls on +14.5' Slab on 8.1 Line	10 17-Aug-20		□ FRP ¢H	1. 1, 2 & 3 Walls on +14.5' Slab on 8,1 Line
MBRSTR1170	FRP MBR Channel Walls 7, 8 & 9 to +27'	60 30-Oct-202			RP MBR Channel Walls 7, 8 & 9 to +27'
MBRSTR1180	Shore, FRP Str. Slab CH. 4, 5 & 6 on 8.1 Line @ +14.5'	10 30-Oct-202			e, FRP Str. Slab CH. 4, 5 & 6 on 8.1 Line @ +14.5'
MBRSTR1200	FRP CH. 4, 5 & 6 Walls on +14.5' Slab on 8.1 Line	10 14-Nov-20			CH. 4, 5 & 6 Walls on +14.5' Slab on 8.1 Line
MBRSTR1250	Shore, FRP Str. Slab CH. 7, 8 & 9 on 8.1 Line @ +14.5'	10 29-Jan-20			hore, FRP Str. Slab CH. 7, 8 & 9 on 8.1 Line @ +14.5
MBRSTR1270	FRP CH. 7, 8 & 9 Walls on +14.5' Slab on 8.1 Line	10 12-Feb-20			RP CH. 7, 8 & 9 Walls on +14.5' Slab on 8,1 Line
MBR Sloping Slab @+/-	·	155 3-Aug-202			18-Mar-2024, MBR Sloping Slab @ +/-14'
MBRSTR1130	Backfill MBR Channels 1, 2 & 3	15 3-Aug-202			MBR Channels 1, 2 & 3
MBRSTR1160	Install Formsaver Dowels, FRP Channels 1, 2 & 3 Tank Slabs	10 25-Aug-20			ormsaver Dowels, FRP Channels 1, 2 & 3 Tank Slabs
MBRSTR1210	Backfill MBR Channels 4, 5 & 6	15 14-Nov-20	· ·		kfill MBR Channels 4, 5 & 6
MBRSTR1220	Install Formsaver Dowels, FRP Channels 4, 5 & 6 Tank Slabs	10 6-Dec-202			all Formsaver Dowels, FRP Channels 4, 5 & 6 Tank Slabs
MBRSTR1280	Backfill MBR Channels 7, 8 & 9	15 12-Feb-20			Backfill MBR Channels 7, 8 & 9
MBRSTR1330	Install Formsaver Dowels, FRP Channels 7, 8 & 9 Tank Slabs	10 5-Mar-202			Install Formsaver Dowels, FRP Channels 7, 8 & 9 Tank Slabs
MBR Structure to +27'	- I I I I I I I I I I I I I I I I I I I	170 20-Dec-20		<u> </u>	28-Aug-2024, MBR Structure to +27
MBRSTR1230	Shore, FRP Str. Slab +27' Utility Corridor Between F & G Line	15 20-Dec-20		□ Sh	ore, FRP Str. Slab +27' Utility Corridor Between F & G Line
MBRSTR1350	Shore, FRP Str. Slab +27' Utility Corridor Between J & K Line	15 19-Mar-20			Shore, FRP Str. Slab +27' Utility Corridor Between J & K Line
MBRSTR1390	Prep & Water Test MBR Channels 1, 2 & 3	20 31-May-20	· ·		Prep & Water Test MBR Channels 1, 2 & 3
MBR21R1390					

Ľ	HENSEL PHELPS Plan. Build. Manage.	Sand Island WWTP S	bootinuity irrod		30 1) 1 IIIV.L	טוט כ	OHLD	OLL	Data Date: 11-Aug-2021
	Activity Name		Original	Start	Finish		2022	2023	2024 2025 2026 2027 2028 2029
			Duration			QQ	Q Q3 (		0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
	MBRSTR1450 Prep & Water Test MBR Channels	4,5&6	20	1-Jul-2024	29-Jul-2024				Prep & Water Test MBR Channels 4, 5 & 6
	MBRSTR1460 MBR Channels 1, 2 & 3 Ready For	Coatings	0	1-Jul-2024					♦ MBR Channels 1, 2 & 3 Ready For Coatings
	MBRSTR1490 Prep & Water Test MBR Channels	7,8&9	20 3	30-Jul-2024	27-Aug-2024				☐ Prep & Water Test MBR Channels 7, 8 & 9
	MBRSTR1500 MBR Channels 4, 5 & 6 Ready For	Coatings	0 ;	30-Jul-2024					MBR Channels 4, 5 & 6 Ready For Coatings
	MBRSTR1550 MBR Channels 7, 8 & 9 Ready For	Coatings	0 2	28-Aug-2024					◆ MBR Channels 7, 8 & 9 Ready For Coatings
	MBR Roof Structural Steel			28-Aug-2024	6-Mar-2025		;;; 		▼ 6-Mar-2025, MBR Roof Structural Steel
	MBRSTR1620 Install Platform on Channels for Ov	erhead Work		28-Aug-2024	11-Sep-2024				I Install Platform on Channels for Overhead Work
	MBRSTR1480 Pre-Assemble Steel Roof Trusses		20	12-Sep-2024	9-Oct-2024				☐ Pre-Assemble Steel Roof Trusses
	MBRSTR1540 Set Columns & Brace Frames		10	10-Oct-2024	23-Oct-2024				Set Columns & Brace Frames
	MBRSTR1560 Set & Brace Roof Trusses		10 2	24-Oct-2024	6-Nov-2024				Set & Brace Roof Trusses
	MBRSTR1570 Set Bridge Crane Rails & Allign		5	7-Nov-2024	14-Nov-2024				■ Set Bridge Crane Rails & Allign
	MBRSTR1580 Plumb & Boltup Roof Structure (Re	eady for Bridge Crane)	15	15-Nov-2024	6-Dec-2024				Plumb & Boltup Roof Structure (Ready for Bridge Crane)
	MBRSTR1590 Set Bridge Crane & Protect	<u> </u>	5 9	9-Dec-2024	13-Dec-2024				I Set Bridge Crane & Protect
	MBRSTR1600 Install Metal Decking			16-Dec-2024	30-Dec-2024				Install Metal Decking
	MBRSTR1610 Final Inspection & Signoff Steel Cal	nopv		31-Dec-2024	7-Jan-2025				I Final Inspection & Signoff Steel Canopy
	MBRSTR1630 Paint Steel & Install MEP R.I. & Trim			8-Jan-2025	6-Mar-2025				☐ Paint Steel & Install MEP R.I. & Trim & Remove Temp. Platfor
	MBR Service & Gallery Bldg +2.5 Pad to Roof Structure	ra remove lemp. Hauterm		20-Dec-2022	11-Oct-2024				11-Oct-2024, MBR Service & Gallery Bldg +2.5 Pad to Roof Struc
	MBR Serv. & Gall. Bldg +2.5' MSL Pad			20-Dec-2022	26-May-2023			26-	May-2023, MBR Serv. & Gall. Bldg +2.5' MSL Pad
	MBRSTR1010 Install Auger Cast Pile MBR Service	e & Gallery		20-Dec-2022	5-Jan-2023				ger Cast Pile MBR Service & Gallery
	MBRSTR1040 Excavate & Pile Cutoff MBR Servic	•		23-Feb-2023	22-Mar-2023			■ Excav	vate & Pile Cutoff MBR \$ervice & Gallery Slab
	MBRSTR1050 Prep, Concrete/Gravel Base for Mi	•		23-Mar-2023	21-Apr-2023		i i i		, Concrete/Gravel Base for MBR Service & Gallery Slab Work
	MBRSTR1070 FRP +2.5 MBR Service & Gallery E			24-Apr-2023	26-May-2023			1 1 1 1	P +2.5 MBR Service & Gallery Base Slab & Cure
	FRP Walls to +13' MBR Serv & Gall.			15-May-2023	2-Feb-2024				2-Feb-2024, FRP Walls to +13"MBR Serv & Gall.
	MBRSTR1090 FRP Peri. & Int. Walls MBR Serv. &	Gallery from +2.5' to +13'		15-May-2023	13-Jun-2023				P Peri. & Int. Walls MBR Serv. & Gallery from +2.5' to +13'
	MBRSTR1100 FRP Columns MBR Serv. & Galler	· · ·		22-May-2023	7-Jun-2023			and the second of the second	P Columns MBR Serv. & Gallery from +2.5' to +13'
		t Well @ 10 Line Channels 1, 2 & 3		3-Aug-2023	9-Aug-2023			L J L L l _	RP Lower Walls @ MBR End Wet Well @ 10 Line Channels 1,2 & 3
		t Well @ 10 Line Channels 4, 5 & 6		30-Oct-2023	3-Nov-2023				FRP Lower Walls @ MBR End Wet Well @ 10 Line Channels 4,5 & 6
		t Well @ 10 Line Channels 7, 8 & 9		29-Jan-2024	2-Feb-2024				I FRP Lower Walls @ MBR End Wet Well @ 10 Line Channels 7, 8 & 9
	MBR Serv. & Gall. Structure @ +15'	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		12-Jan-2024	24-Apr-2024				▼ 24-Apr-2024, MBR Serv. & Gall. Structure @ +15'
	MBRSTR1240 Shore, FRP +12' & +15' Struct. Slal	b @ MBR Gallery & Serv. Bldg		12-Jan-2024	16-Feb-2024				☐ Shore, FRP +12 & +15 Struct, Slab @ MBR Gallery & Serv. Bldg
	MBRSTR1290 FRP Peri. & Int. Walls MBR Serv. &	· · · · · · · · · · · · · · · · · · ·		20-Feb-2024	3-Apr-2024	1			FRP Peri. & Int. Walls MBR Serv. & Gallery from +15' to +25.5'
	MBRSTR1300 FRP Columns MBR Serv. & Galler	·		20-Feb-2024	27-Feb-2024				I FRP Columns MBR Serv. & Gallery from +15' to +25'
		t Well @ 10 Line Channels 1,2 & 3	5 2	20-Feb-2024	26-Feb-2024				FRP Upper Walls @ MBR End Wet Well @ 10 Line Channels 1, 2 & 3
	11 0	t Well @ 10 Line Channels 4, 5 & 6		27-Feb-2024	4-Mar-2024				I FRP Upper Walls @ MBR End Wet Well @ 10 Line Channels 4, 5 & 6
		t Well @ 10 Line Channels 7, 8 & 9		5-Mar-2024	11-Mar-2024				FRP Upper Walls @ MBR End Wet Well @ 10 Line Channels 7, 8 & 9
	MBRSTR1360 Shore, FRP +20.5 Str. Slab @ Tuni	<u> </u>		4-Apr-2024	17-Apr-2024				Shore, FRP +20.5 Str. Slab @ Tunnel Connection  I Shore, FRP +20.5 Str. Slab @ Tunnel Connection
	MBRSTR1370 FRP Walls From +20.5 to 25.5" Ne			18-Apr-2024	24-Apr-2024				I FRP Walls From +20.5 to 25.5" Near Tunnel Connection
	MBR Serv. & Gall. Structure @ +27'			25-Apr-2024	15-Jul-2024				▼ 15-Jul-2024, MBR Serv. & Gall. Structure @ +27
	MBRSTR1380 Shore, FRP Level +27' Struct. Slab	@ MBR Gallery & Serv. Bldg		25-Apr-2024	30-May-2024				☐ Shore, FRP Level +27' Struct Slab @ MBR Gallery & Serv. Bldg
	MBRSTR1400 FRP Peri. & Int. Walls MBR Serv. &			31-May-2024	15-Jul-2024				☐ FRP Peri. & Int. Walls MBR Serv. & Gallery from 27' to +41' & +42'
	MBRSTR1410 FRP Columns MBR Serv. & Galler	·		31-May-2024	6-Jun-2024				I FRP Columns MBR Serv. & Gallery from +27' to +42'
	MBRSTR1420 FRP Equipment Pads @ MBR Ser	•		31-May-2024	10-Jun-2024				FRP Equipment Pads @ MBR Serv. +27' Level
	MBRSTR1430 Prep &Water Test MBR Serv. Bldg			31-May-2024	28-Jun-2024				☐ Prep &Water Test MBR Serv. Bldg Effluent Tanks
	MBRSTR1440 MBR Serv. Building Tanks Ready for		0	2. Maj 2021	28-Jun-2024	-			♦ MBR Serv. Building Tanks Ready for Coatings
	MBR Serv. & Gall. Structure @+43'			16-Jul-2024	25-Sep-2024				▼ 25-Sep-2024, MBR Serv. & Gall Structure @ +43'
	MBRSTR1470 Shore, FRP Level +43' Struct. Slab	@ MBR Gallery & Serv. Bldg		16-Jul-2024	12-Aug-2024				Shore, FRP Level +43' Struct. Slab @ MBR Gallery & Serv. Bldg

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		Activity Name		Original	Start	Finish	2022 2023	2024   2025   2026   2027   2028
				Duration				02 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
	MBRSTR1510	FRP Parapet Stairwell Walls @ MBR	Serv. from +43' to +53'	30	13-Aug-2024	25-Sep-2024		FRP Parapet Stairwell Walls @ MBR Serv. from +43' to +53'
	MBR Serv. & Gall. Struct	ure @ +54'		12	26-Sep-2024	11-Oct-2024		▼ 11-Oct-2024, MBR Serv. & Gall, Structure @ +54'
	MBRSTR1520	Shore, FRP Stairwell Roof Slab & Eye	ebrow @ MBR Serv. Bldg @ +54'	7	26-Sep-2024	4-Oct-2024		Shore, FRP Stairwell Roof Slab & Eyebrow @ MBR Serv. B
	MBRSTR1530	FRP MBR Serv Bldg Stairwell Roof P	arapet Walls Above +54'	5	7-Oct-2024	11-Oct-2024		I FRP MBR Serv Bldg Stairwell Roof Parapet Walls Above +5
	Utility Tunnel With Effluent Channel +2.5 MSL Pad			503	16-May-2022	23-May-2024	<b>▼</b>	23+May-2024, Utility Tunnel With Effluent Channel +2.5 MSL Page
	UTEC1000	Prepare Pad for Auger Cast Pile insta	allation	5	16-May-2022	20-May-2022	I Prepare Pad for Auger	
	UTEC1010	Install Auger Cast Pile for the +2.5 MS	SL Slab	15	18-Jan-2023	7-Feb-2023		Cast Pile for the +2.5 MSL Slab
	UTEC1020	Excavate & Cut off Pile		12	30-Nov-2023	15-Dec-2023		xcavate & Cut off Pile
	UTEC1030	Install & Grade Gravel Sub-base		9	18-Dec-2023	29-Dec-2023	<b>1</b> 1	nstall & Grade Gravel Sub-base
	UTEC1040	FRP & Cure Utility Tunnel Base at +2	.5 MSL	45	8-Jan-2024	12-Mar-2024		FRP & Cure Utility Tunnel Base at +2.5 MSL
	UTEC1050	FRP & Cure Lower Utility Pipe Walls &	& Columns	45	23-Jan-2024	27-Mar-2024	T	FRP & Cure Lower Utility Pipe Walls & Columns
	UTEC1060	FRP Effluent Channel Str. Floor		45	6-Feb-2024	11-Apr-2024	7	■ FRP Effluent Channel Str. Floor
	UTEC1070	FRP & Cure Effluent Channel Walls		45	21-Feb-2024	25-Apr-2024		FRP & Cure Effluent Channel Walls
	UTEC1080	Shore FRP & Cure Effluent Channel	& Utility Pipe Roof Structure		6-Mar-2024	9-May-2024	7	Shore FRP & Cure Effluent Channel & Utility Pipe Roof Structure
	UTEC1090	FRP Parapet Walls			20-Mar-2024	23-May-2024		FRP Parapet Walls
	Utility Tunnel Without Efflue				23-May-2022	22-Nov-2024		22-Nov-2024, Utility Tunnel Without Effluent Channel +2.5
	UTUN1000	Prepare Pad for Auger Cast Pile insta	allation		23-May-2022	14-Jun-2022	Prepare Pad for Auge	
	UTUN1020	Install Auger Cast Pile for the +2.5 MS			8-Feb-2023	12-Apr-2023		er Cast Pile for the +2.5 MSL Slab
	UTUN1030	Excavate & Cut off Pile	<u> </u>		2-Mar-2023	21-Apr-2023	□ Excavate	
	UTUN1040	Install & Grade Gravel Sub-base			10-Apr-2023	12-May-2023		Grade Gravel Sub-base
	UTUN1050	FRP & Cure Utility Tunnel Base at +2	5 MSI		13-Mar-2024	12-Sep-2024	_	FRP & Cure Utility Tunnel Base at +2.5 MSL
	UTUN1060	FRP & Cure Utility Pipe Walls	.o wee		26-Apr-2024	24-Oct-2024		FRP & Cure Utility Pipe Walls
	UTUN1070	Shore FRP & Cure Utility Pipe Roof S	Structuro		10-May-2024	7-Nov-2024		Shore FRP & Cure Utility Pipe Roof Structure
	UTUN1010	FRP & Cure Parapet Walls	ou detaile		24-May-2024	22-Nov-2024		FRP & Cure Parapet Walls
	Effluent Channel Tunnel Su	·			11-May-2022	8-Jan-2025		8-Jan-2025, Effluent Channel Tunnel Sub-Structure +10
	EFTN1000	Prepare Pad for Auger Cast Pile insta	allation		11-May-2022 11-May-2022	13-May-2022	Prepare Pad for Auger	
	EFTN1010	Install Auger Cast Pile for the +10 MS			29-Dec-2022	17-Jan-2023		Cast Pile for the +10 MSL Slab
	EFTN1020	Excavate & Cut off Pile	old Diago		24-Apr-2023	9-May-2023		& Cut off Pile
	EFTN1030	Install & Grade Gravel Sub-base			10-May-2023	25-May-2023		Grade Gravel Sub-base
		FRP & Cure Effluent Channel Base a	St 140 MCI		,	-	- Installa	☐ FRP & Cure Effluent Channel Base at +10 MSL
	EFTN1040		at +10 MOL		13-Sep-2024	24-Oct-2024		☐ FRP & Cure Effluent Channel Walls
	EFTN1050	FRP & Cure Effluent Channel Walls	Da of Ohm coh una		25-Oct-2024	9-Dec-2024		Shore FRP & Cure Effluent Channel Roof Structure
	EFTN1060	Shore FRP & Cure Effluent Channel	Roof Structure		8-Nov-2024	23-Dec-2024		
	EFTN1070	FRP Parapet Walls			25-Nov-2024	8-Jan-2025	<u> </u>	☐ FRP Parapet Walls
	Thickener Building Thickener-Elevation +2	5'MSI Pagament			6-Jan-2023	5-Jan-2024		5-Jan-2024, Thickener Building 2023, Thickener- Elevation +2.5' MSL Basement
		evation +2.5' MSL - Basement			6-Jan-2023 6-Jan-2023	18-Jul-2023 11-May-2023		023, Thickener/North - Elevation +2.5' MSL - Basement
		Install Auger Cast N. Slab Area			6-Jan-2023	25-Jan-2023		Cast N. Slab Area
		Excavate & Pile Cutoff N. Slab Area			26-Jan-2023	30-Jan-2023		Pile Cutoff N. Slab Area
		Prep, Concrete/Gravel Base for N. S	lah Work		31-Jan-2023	9-Feb-2023	_	ete/Gravel Base for N. Slab Work
		FRP -0.5 North Base Slab & Cure	ab Work		10-Feb-2023	24-Feb-2023		orth Base Slab & Cure
		FRP +2.5 North Main Slab & Cure			27-Feb-2023	24-Feb-2023 24-Mar-2023		North Main Slab & Cure
		FRP Col. & Walls +2.5 Level						wWalls +2.5 Level
					28-Mar-2023	13-Apr-2023	_	
		Cure Walls +2.5' to +16'			14-Apr-2023	11-May-2023		ls +2.5' to +16'
	the second secon	evation +2.5' MSL - Basement			26-Jan-2023	7-Jul-2023	<b></b>	023, Thickener/South - Elevation +2.5' MSL - Basement
		Install Auger Cast Piles South			26-Jan-2023	15-Feb-2023		Cast Piles South
	IHR51R1040	Excavate & Pile Cutoff S. Slab		4	16-Feb-2023	22-Feb-2023	I Excavate & I	Pile Cutoff \$. Slab

	ı ild. Manage. TActivity Name	Original Start	Finish	2022	2023	2024   2025   2026   2027   2028   2
		Duration				
THRSTR1070	Prep, Concrete/Gravel Base for S. Slab Work	10 23-Feb-2023	8-Mar-2023			crete/Gravel Base for S. Slab Work
	FRP +2.5 South Slab & Cure	20 28-Mar-2023	25-Apr-2023	1		5 South Slab & Cure
	FRP Walls & Columns South +2.5 Level	30 26-Apr-2023	7-Jun-2023	1		alls & Columns South +2.5 Level
	Cure Walls +2.5' to +16'	20 8-Jun-2023	7-Jul-2023			Nalls +2.5' to +16'
	e Tunnel - Elevation +2.5 Basement	103 16-Feb-2023	18-Jul-2023			I-2023, Thickener/Solids Pipe Tunnel - Elevation +2.5 Basement
	Install Auger Cast Piles - Solids Pipe Tunnel	3 16-Feb-2023	21-Feb-2023			r Cast Piles - Solids Pipe Tunnel
	Excavate & Pile Cutoff S. Slab	1 23-Feb-2023	23-Feb-2023	1		Rile Cutoff S. Slab
	Prep, Concrete/Gravel Base for S. Slab Work	2 9-Mar-2023	10-Mar-2023			crete/Gravel Base for S. Slab Work
	FRP -0.5 Tunnel Base Slab & Cure	10 13-Mar-2023	24-Mar-2023			Tunnel Base Slab & Cure
	FRP +2.5 Tunnel Slab & Cure	20 26-Apr-2023	23-May-2023	1 1 1 1 1		5 Tunnel Slab & Cure
	FRP Walls Tunnel +2.5 Level	7 8-Jun-2023	19-Jun-2023	1		/alls Tunnel +2.5 Level
	Cure Walls +2.5' to + 16' Tunnel	20 20-Jun-2023	18-Jul-2023	-		Walls+2.5 to +16 Tunnel
Thickener-Elevation +1						ug-2023, Thickener- Elevation +16.0' MSL Ground Floor
	evation +16.0' MSL - Ground Floor	87 14-Apr-2023 36 14-Apr-2023	17-Aug-2023 5-Jun-2023			2023, Thickener/North - Elevation +16.0! MSL - Ground Floor
	Shore, FRP North Thickener Str. Slab @ +16.0	10 14-Apr-2023	27-Apr-2023	1		RP North Thickener Str. Slab @ +16.0
	Cure North Thickener Str. Slab @ +16.0	10 28-Apr-2023	11-May-2023	1		orth Thickener Str. Slab @ +16.0
	FRP Col. & Walls	·	5-Jun-2023	-	I FRP Co	
		12 18-May-2023				ug-2023, Thickener/South - Elevation +16.0' MSL - Ground Floor
	evation +16.0' MSL - Ground Floor	44 8-Jun-2023 5 8-Jun-2023	10-Aug-2023 15-Jun-2023			
	Shore, FRP South Thickener Str. Slab @ +16.0					FRP South Thickener Str. Slab @ +16.0
	Cure South Thickener Str. Slab @+16.0	10 16-Jun-2023	29-Jun-2023	1		South Thickener Str. Slab @+16.0
THRSTR1280		25 7-Jul-2023	10-Aug-2023		FRP	
	e Tunnel-Elevation +16.0' MSL - Ground Floor	42 20-Jun-2023	17-Aug-2023			ug-2023, Thickener/Solids Pipe Tunnel-Elevation +16.0' MSL - Ground F
	Shore, FRP Pipe Tunnel Str. Slab @ +14.0	5 20-Jun-2023	26-Jun-2023	<del> </del>		FRP Pipe Tunnel Str. Slab @ +14.0
	FRP Walls @ Tunnel Stair	5 11-Aug-2023	17-Aug-2023			Walls @ Tunnel Stair
Thickener-Elevation +2		70 21-Aug-2023	29-Nov-2023			29-Nov-2023, Thickener- Elevation +29.0' MSL Second Floor
	evation +29.0' MSL - Second Floor	55 21-Aug-2023	6-Nov-2023			Nov-2023, Thickener/North - Elevation +29.0' MSL - Second Floor
	Shore, FRP North Thickener Str. Slab @ +29.0	15 21-Aug-2023	11-Sep-2023	1 1 1 1 1		ore, FRP North Thickener Str. Slab @ +29.0
	Cure North Thickener Str. Slab @ +29.0	20 12-Sep-2023	9-Oct-2023	ļiiii		ıre North Thickener Str. Slab @ +29.0
	FRP Col., Walls, Curbs & Pedestals (to 44.0')	15 10-Oct-2023	30-Oct-2023			RP Col., Walls, Curbs & Pedestals (to 44.0')
	Prep, Test Sludge Wetwell	20 10-Oct-2023	6-Nov-2023			rep, Test Sludge Wetwell
	Sludge Wetwell Ready for Coatings	0	6-Nov-2023			ludge Wetwell Ready for Coatings
	evation +29.0' MSL - Second Floor	55 12-Sep-2023	29-Nov-2023			29-Nov-2023, Thickener/South- Elevation +29.0' MSL- Second Floor
THRSTR1290	Shore, FRP South Thickener Str. Slab @ +29.0	15 12-Sep-2023	2-Oct-2023			ore, FRP South Thickener Str. Slab @ +29.0
	Cure South Thickener Str. Slab @ +29.0	20 3-Oct-2023	30-Oct-2023			ure South Thickener Str. Slab @ +29.0
THRSTR1340	FRP Walls @ Electrical Rm (to 44.0')	5 31-Oct-2023	6-Nov-2023			RP Walls @ Electrical Rm (to 44.0')
THRSTR1350	Prep, Test Blend Tanks	20 31-Oct-2023	29-Nov-2023		■ F	Prep, Test Blend Tanks
THRSTR1380	Blend Tanks Ready for Coatings	0	29-Nov-2023	1	◆ E	Blend Tanks Ready for Coatings
Thickener-Elevation +4	4.0' MSL Roof	30 7-Nov-2023	20-Dec-2023			20-Dec-2023, Thickener- Elevation +44.0' MSL Roof
Thickener/North - Ele	evation +44.0' MSL - Roof	22 7-Nov-2023	8-Dec-2023		₩ 8	8-Dec-2023, Thickener/North - Elevation +44.0' MSL - Roof
THRSTR1370	Shore, FRP North Thickener Roof Str. Slab @ +44.0'	15 7-Nov-2023	29-Nov-2023			Shore, FRP North Thickener Roof Str. Slab @ +44.0'
	FRP North Roof Parapets Walls Above Elevation +44.0'	7 30-Nov-2023	8-Dec-2023		0 1	FRP North Roof Parapets Walls Above Elevation +44.0'
	evation +44.0' MSL - Roof	15 30-Nov-2023	20-Dec-2023			20-Dec-2023, Thickener/South - Elevation +44.0' MSL - Roof
THRSTR1400	Shore, FRP South Thickener Roof Str. Slab @ +44.0'	10 30-Nov-2023	13-Dec-2023			Shore, FRP South Thickener Roof Str. Slab @ +44.0'
THRSTR1410	FRP South Roof Parapets Above Elevation +44.0'	5 14-Dec-2023	20-Dec-2023			FRP South Roof Parapets Above Elevation +44.0
Thickener-Elevation +5	·	10 21-Dec-2023	5-Jan-2024			5-Jan-2024, Thickener- Elevation +55.0' MSL Stair Roof
Thickener/North - Ele	evation +55.0' MSL - Stair Roof	10 21-Dec-2023	5-Jan-2024			5-Jan-2024, Thickener/North - Elevation +55.0' MSL - Stair Roof
THRSTR1420	Shore, FRP Stair Roof Str. Slab @ +55.0'	7 21-Dec-2023	2-Jan-2024			Shore, FRP Stair Roof Str. Slab @ +55.0'

[H		SEL PHELPS sand Island W	VWTP Secondary Treatment (Pha	se 1) - FINAL B	SID SCHEDULE	Data Date: 11-Aug-2021
	Plan. Du	Activity Name	Original Start	Finish	2022 2023	2024 2025 2026 2027 2028 2
			Duration			
	THRSTR1430	FRP Stair Roof Parapet Walls Above Elevation +55.0'	3 3-Jan-2024	5-Jan-2024		FRP Stair Roof Parapet Walls Above Elevation +55.0'
Th	nickener Bldg Odor Contr		34 10-Jun-2024	29-Jul-2024		▼▼ 29-Jul-2024, Thickener Bldg Odor Control +16.25 MSL Pad
		ontrol - Elevation +16.25' MSL	34 10-Jun-2024	29-Jul-2024		▼▼ 29-Jul-2024, Thickener Bldg Odor Control - Elevation +16.25 M
		Control - Elevation +16.25' MSL - Slab	34 10-Jun-2024	29-Jul-2024		29-Jul-2024, Thickener Bldg Odor Control - Elevation +16.25' M
	THODR1000	Install Auger Cast Slab Area	9 10-Jun-2024	21-Jun-2024		🗓 Install Auger Cast \$lab Area
	THODR1010	Excavate & Pile Cutoff Slab Area	3 24-Jun-2024	26-Jun-2024		I Excavate & Pile Cutoff Slab Area
	THODR1020	Prep, Concrete/Gravel Base for Slab Work	5 27-Jun-2024	3-Jul-2024		l Prep, Concrete/Gravel Base for Slab Work
	THODR1030	FRP +16.25 Slab, trench drain, drain sump	15 5-Jul-2024	25-Jul-2024		FRP +16.25 Slab, trench drain, drain sump
	THODR1040	FRP Pads	2 26-Jul-2024	29-Jul-2024		I FRP Pads
No	orth & South Ramps @ IP	S/Blower	128 14-Oct-2024	21-Apr-2025		21-Apr-2025, North & South Ramps @ IPS/Blower
	RAMP1000	North Ramp- Install Auger Cast Pile	3 14-Oct-2024	16-Oct-2024		I North Ramp- Install Auger Cast Pile
	RAMP1010	North Ramp- Excavate & Pile Cutoff	5 17-Oct-2024	23-Oct-2024		I North Ramp- Excavate & Pile Cutoff
	RAMP1020	South Ramp- Install Auger Cast Pile	3 17-Oct-2024	21-Oct-2024		I South Ramp- Install Auger Cast Pile
	RAMP1030	South Ramp- Excavate & Pile Cutoff	5 22-Oct-2024	28-Oct-2024		I South Ramp- Excavate & Pile Cutoff
	RAMP1040	North Ramp- FRP Cont. Foundation Slab	10 24-Oct-2024	6-Nov-2024		North Ramp- FRP Cont, Foundation \$lab
	RAMP1050	South Ramp- FRP Cont. Foundation Slab	10 29-Oct-2024	12-Nov-2024		South Ramp-FRP Cont. Foundation Slab
	RAMP1060	North Ramp- FRP Walls	20 7-Nov-2024	6-Dec-2024		□ North Ramp+ FRP Walls
	RAMP1070	North Ramp- Cure Walls & Backfill	15 9-Dec-2024	30-Dec-2024		North Ramp- Cure Walls & Backfill
	RAMP1080	North Ramp- FRP Ramp Sloping Slab & Walls	20 31-Dec-2024	29-Jan-2025		☐ North Ramp-FRP Ramp Sloping Slab & Walls
	RAMP1090	South Ramp- FRP Walls	20 30-Jan-2025	27-Feb-2025		☐ South Ramp-FRP Walls
	RAMP1100	South Ramp- Cure Walls & Backfill	15 28-Feb-2025	20-Mar-2025		□ South Ramp- Cure Walls & Backfill
	RAMP1110	South Ramp- FRP Ramp Sloping Slab & Walls	20 21-Mar-2025	21-Apr-2025		South Ramp- FRP Ramp Sloping Slab & Walls
	Retaining Walls By#	Countricing The reamp cloping clab a vialio	532 25-Nov-2022	16-Jan-2025		16 Jan 2025 Site Potaining Walls By #
		ickener Building) +5.25 MSL	302 22-Feb-2023	9-May-2024	<b>V</b>	9-May-2024, Retaining Wall #1 (Near Thickener Building) +5.25 MS
	RT#1000	RW#1- Install Auger Cast Pile	13 22-Feb-2023	10-Mar-2023		all Auger Cast Pile
	RT#1010	RW#1- Excavate & Pile Cutoff	20 13-Mar-2023	11-Apr-2023	□ RW#1-Ex	cavate & Pile Cutoff
	RT#1020	FRP RW#1 Cont. Foundation	25 23-Jan-2024	27-Feb-2024		FRP RW#1 Cont. Foundation
	RT#1030	FRP RT#1 Wall	50 28-Feb-2024	9-May-2024		FRP RT#1 Wall
		ickener Building) +5.25 MSL	56 25-Oct-2024	16-Jan-2025		▼ 16-Jan-2025, Retaining Wall #2 (Near Thickener Building
	RT#21000	RW#2- Install Auger Cast Pile	6 25-Oct-2024	1-Nov-2024		I RW#2- Install Auger Cast Pile
	RT#21010	RW#2- Excavate & Pile Cutoff	10 4-Nov-2024	18-Nov-2024		I RW#2- Excavate & Pile Cutoff
	RT#21020	FRP RW#2 Cont. Foundation	15 19-Nov-2024	10-Dec-2024		FRP RW#2 Cont. Foundation
	RT#21030	FRP RT#2 Wall	25 11-Dec-2024	16-Jan-2025		FRP RT#2 Wall
	etaining Wall#3 (Near Die		336 25-Nov-2022	4-Apr-2024	<b>V</b>	▼ 4-Apr-2024, Retaining Wall #3 (Near Diesel Storage)
	RT#31000	RW#3- Install Auger Cast Pile	3 25-Nov-2022	29-Nov-2022	I RW#3- Install A	
	RT#31010	RW#3- Excavate & Pile Cutoff	7 30-Nov-2022	8-Dec-2022	I RW#3- Excava	te & Pile Cutoff
	RT#31020	FRP RW#3 Cont. Foundation	10 28-Feb-2024	12-Mar-2024		FRP RW#3 Cont. Foundation
	RT#31030	FRP RT#3 Wall	15 13-Mar-2024	4-Apr-2024		□ FRPRT#3 Wall
	etaining Wall#4 (Near IPS		15 5-Apr-2024	25-Apr-2024		▼ 25-Apr-2024, Retaining Wall #4 (Near IPS Odor Control Pad)
	RT#41000	Install RW#4 MSE Wall w/ Backfill	15 5-Apr-2024	25-Apr-2024		☐ Install RW#4 MSE Wall w/ Backfill
Re	etaining Wall#5 (Southwe	est of IPS Blower Bldg)	418 23-Dec-2022	30-Aug-2024	<b>+</b>	30-Aug-2024, Retaining Wall #5 (Southwest of IPS Blower Bld
	RT#51000	RW#5- Install Auger Cast Pile	3 23-Dec-2022	28-Dec-2022		Auger Cast Pile
	RT#51010	RW#5- Excavate & Pile Cutoff	7 29-Dec-2022	9-Jan-2023	□ RW#5-Excav	vate & Pile Cutoff
	RT#51020	FRP RW#5 Cont. Foundation	10 26-Jul-2024	8-Aug-2024		■ FRP RW#5 Cont. Foundation
	RT#51030	FRP RT#5 Wall	15 9-Aug-2024	30-Aug-2024		□ FRP RT#5 Wall
	etaining Walls 6 Thru 9 @		205 23-Feb-2024	18-Dec-2024		18-Dec-2024, Retaining Walls 6 Thru 9 @ Road "S" +4.25
	RT#61000	RW#6,7, 8, 9 - Install Auger Cast Pile	10 23-Feb-2024	7-Mar-2024		RW#6,7,8,9 - Install Auger Cast Pile

		NSEL PHELPS	Sand Island WWT	P Secondary Treatment (Pha	se 1) - FINAL	L BID SCHEDULE	Data Date: 11-Aug-2021
Activity ID	Plan.	Build. Manage.  Activity Name		Original Start	Finish	2022 2023	3   2024   2025   2026   2027   2028   2029
ACIVILY ID		Activity Name		Duration	FILIISH		
	RT#61010	RW#6, 7, 8, 9 - Excavate & Pile Cuto	off	20 8-Mar-2024	8-Apr-2024	4 4 4 4 4 4	RW#6, 7, 8, 9 - Excavate & Pile Cutoff
	RT#61020 FRP RW#6, 7, 8, 9 - Cont. Foundation			25 3-Sep-2024	7-Oct-2024		☐ FRP RW#6, 7, 8, 9 - Cont. Foundation
	RT#61030	FRP RT#6, 7, 8, 9 - Wall	211	50 8-Oct-2024	18-Dec-2024		FRP RT#6, 7, 8, 9 - Wall
	Site Backfill & Structure Ba			478 30-Jun-2023	3-Jun-2025		3-Jun-2025, Site Backfill & Structure Backfill
	IPS/Blower - Elevation -1			100 3-Oct-2023	27-Feb-2024		27-Feb-2024, IPS/Blower - Elevation -10.5' MSL Pad
	BCKFIL1060	Backfill North Core Wall After Wet We	ell Tank test to -1.5	15 3-Oct-2023	23-Oct-2023		Backfill North Core Wall After Wet Well Tank test to -1.5
	BCKFIL1070	Backfill South Core Wall After Wet W	ell Tank test to -1.5	15 3-Oct-2023	23-Oct-2023		Backfill South Core Wall After Wet Well Tank test to -1.5
	BCKFIL1090	Backfill Exterior Walls West Side After	r Wet Well Tank Test	15 6-Feb-2024	27-Feb-2024		Backfill Exterior Walls West Side After Wet Well Tank Test
	BCKFIL1100	Backfill 96" PE To Grade		1 6-Feb-2024	6-Feb-2024		I Backfill 96" PE To Grade
	IPS/Blower-Elevation+			15 26-Jul-2024	15-Aug-2024		▼ 15-Aug-2024, IPS/ Blower- Elevation +2.5' MSL Pad
	BCKFIL1180	Backfill IPS/Blower Building & Remov	ve Temporary Shoring	15 26-Jul-2024	15-Aug-2024		☐ Backfill IPS/Blower Building & Remove Temporary Shoring
	Fine Screen Structure +		. , , , ,	3 30-Jan-2025	3-Feb-2025		▼ 3-Feb-2025, Fine Screen Structure +2.5' MSL Pad
	BCKFIL1040	Backfill Fine Screen Structure to Exis	ting Grade	3 30-Jan-2025	3-Feb-2025		Backfill Fine Screen Structure to Existing Grade
	Process Reactor +2.5' I	Process Reactor +2.5' MSL Pad		3 23-Jan-2024	25-Jan-2024		▼ 25-Jan-2024, Process Reactor +2.5' MSL Pad
	BCKFIL1160	Backfill Outside of the Process Reac	tor to Existing Grade	3 23-Jan-2024	25-Jan-2024		Backfill Outside of the Process Reactor to Existing Grade
	MBR Tanks +2.5' MSL P			145 3-Aug-2023	4-Mar-2024	<b>■</b>	▼ 4-Mar-2024, MBR Tanks +2.5 M\$L Pad
	BCKFIL1110	Backfill MBR Tanks		145 3-Aug-2023	4-Mar-2024		Backfill MBR Tanks
	MBR Service Building &			3 20-Feb-2024	22-Feb-2024		▼ 22-Feb-2024, MBR Service Building & Gallery +2.5' MSL Pad
	BCKFIL1150	Backfill Outside of the MBR Service E	Building to Existing Grade	3 20-Feb-2024	22-Feb-2024		Backfill Outside of the MBR Service Building to Existing Grade
	Utility Tunnel Sub-Struct			175 24-May-2024	6-Feb-2025		▼ 6-Feb-2025, Utility Tunnel Sub-Structure +2.5 MSL Pad
П	BCKFIL1050	Backfill Utility Tunnel & Effluent Chan	nel	20 24-May-2024	24-Jun-2024		☐ Backfill Utility Tunnel & Effluent Channel
	BCKFIL1130	Backfill Utility Tunnel		50 25-Nov-2024	6-Feb-2025		■ Ba¢kfill Utility Tunnel
	Effluent Tunnel Sub-Stru			5 24-Dec-2024	31-Dec-2024		▼ 31-Dec-2024, Effluent Tunnel Sub-Structure +10 MSL Pad
	BCKFIL1140	Backfill Effluent Channel		5 24-Dec-2024	31-Dec-2024		I Backfill Effluent Channel
	Area 46 Thickener Build	<del></del>	A	404 30-Jun-2023	13-Feb-2025		▼ 13-Feb-2025, Area 46 Thickener Building  Backfill Thickener West Elevation for Access
	BCKFIL1080	Backfill Thickener West Elevation for		3 30-Jun-2023	5-Jul-2023		
	BCKFIL1120	Backfill Thickener North, East, South	Elevations	5 7-Feb-2025	13-Feb-2025		I Backfill Thickener North, East, South Elevations
	Area 46A Thickener Blo BCKFIL1000	Backfill Thickener Building Odor Con	*****	10 6-Jul-2023 10 6-Jul-2023	19-Jul-2023 19-Jul-2023	<u> </u>	19-Jul-2023, Area 46A Thickener Bldg Odor Control Backfill Thickener Building Odor Control
		Thickener Building) +5.25 MSL	1101	20 10-May-2024	7-Jun-2024		▼ 7-Jun-2024, Retaining Wall #1 (Near Thickener Building) +5.25 MSL
	BCKFIL1170	Cure & Backfill @ Thickner Building V	Nest Side & RT#1	20 10-May-2024 20 10-May-2024			Cure & Backfill @ Thickner Building West Side & RT#1
		Thickener Building) +5.25 MSL	vest side & IXI# i	15 17-Jan-2025	7-5un-2024 7-Feb-2025		7-Feb-2025, Retaining Wall #2 (Near Thickener Building) +5.25 I
	BCKFIL1190	Backfill Retaining Wall #2		15 17-Jan-2025	7-Feb-2025		Backfill Retaining Wall #2
	Retaining Wall #3 (Near	•		10 30-Jan-2025	12-Feb-2025		▼ 12-Feb-2025, Retaining Wall #3 (Near Diesel Storage)
	BCKFIL1200	Backfill Retaining Wall #3		10 30-Jan-2025	12-Feb-2025		□ Backfill Retaining Wall #3
	Retaining Wall #4 (Near	<u> </u>		10 26-Apr-2024	9-May-2024		▼ 9-May-2024, Retaining Wall #4 (Near IPS Odor Control Pad)
	BCKFIL1030	Backfill Retaining Wall #4		10 26-Apr-2024	9-May-2024		Backfill Retaining Wall #4
	Retaining Wall #5 (South			10 22-Apr-2025	5-May-2025		▼ 5-May-2025, Retaining Wall #5 (South of IPS Blower Bldg)
	BCKFIL1210	Backfill Retaining Wall #5		10 22-Apr-2025	5-May-2025		□ Ba¢kfill Retaining Wall #5
	Retaining Walls 6 Thru 9	9 @ Road "S" +4.25' MSL		20 6-May-2025	3-Jun-2025		▼ 3-Jun-2025, Retaining Walls 6 Thru 9 @ Road "S" +4.25" M
	BCKFIL1220	Backfill Retaining Wall #6		5 6-May-2025	12-May-2025		I Backfill Retaining Wall #6
	BCKFIL1230 Backfill Retaining Wall #7		5 13-May-2025	19-May-2025		Backfill Retaining Wall #7	
	BCKFIL1240	Backfill Retaining Wall #8		5 20-May-2025	27-May-2025		I Backfill Retaining Wall #8
	BCKFIL1250	BCKFIL1250 Backfill Retaining Wall #9		5 28-May-2025	3-Jun-2025		□ Backfill Retaining Wall #9
	Architectural & MEP Builde	out By Process		624 19-Jul-2023	22-Jan-2026	<b>—</b>	▼ 22-Jan-2026, Architectural & MEP Buildout By Proc
	Area 41 IPS/Blower			552 3-Oct-2023	22-Dec-2025		▼ 22-Dec-2025, Area 41 IPS/Blower
	Basement (-10.5')			246 3-Oct-2023	27-Sep-2024		27-Sep-2024, Basement (-10.5')
	Wet Well			60 3-Oct-2023	28-Dec-2023		28-Dec-2023, Wet Well
	Remaining Level of Effort	Actual Work Critica	al Remaining Work	Page 14 of 27			
	Actual Level of Effort	Remaining Work ◆ Miles	tone	•			

IPS	PSMEP1240 PSMEP1250 PSMEP1260 PSMEP1260 PSMEP1000 PSMEP1010 PSMEP1020 PSMEP1030 PSMEP1040 PSMEP1050 PSMEP1050 PSMEP1060 PSMEP1080 PSMEP1100 PSMEP1100 PSMEP1110 PSMEP1110 PSMEP1110 PSMEP1110	Activity Name  Prepare Surface and Coat Wet Well (PC-2) Install 42" PE D.I. Install 14" Foul Air  Prepare Surface and Paint Pump Room  Form and Place Pump Pedestal & Equpiment Pads Install & Test OH Fire Protection & Standpipe  Set IPS Pumps - PUM 4101, 4102, 4103 Install Pipe Supports  Set Tank Drain Pumps - PUM 4121, 4122 Install OH Electrical Rough In & Lighting  Set Secondary Scum Pumps - PUM 4131, 4132  Set Fine Screen Pumps - PUM 4141, 4142 Install 12" D.I. Drain Piping Install 12" SCN D.I. Piping Install Control Panels & VFDs Install 8" SCN D.I. Piping	Original Duration Start Duration Start Duration Start Duration 3-Oct- 10 30-Not 10 14-Dec 28-Ma 20 28-Ma 20 26-Ap 20 26-Ap 10 10-Ma 10 10-Ma 5 24-Ma 20 24-Ma 2 3-Jun- 2 5-Jun- 10 7-Jun- 10 24-Jul 30-Not 3-Oct 3	2023 2 v-2023 1 c-2023 2 ir-2024 2 ir-2024 2 r-2024 2 ir-2024 2 iy-2024 2 iy-2024 3 iy-2024 3 iy-2024 2 iy-2024 6	29-Nov-2023 3-Dec-2023 28-Dec-2023 27-Sep-2024 25-Apr-2024 23-May-2024 23-May-2024 23-May-2024 23-May-2024 24-Jun-2024 24-Jun-2024	Q Q Q Q3	Q Q Q Q Q Q Q2  Prepa Insta In	2024
IPS	PSMEP1250 PSMEP1260 PSMEP1000 PSMEP1010 PSMEP1020 PSMEP1030 PSMEP1030 PSMEP1050 PSMEP1050 PSMEP1060 PSMEP1060 PSMEP1090 PSMEP1100 PSMEP1110 PSMEP1110 PSMEP1120 PSMEP1130 PSMEP1140	Install 42" PE D.I. Install 14" Foul Air  Prepare Surface and Paint Pump Room  Form and Place Pump Pedestal & Equpiment Pads Install & Test OH Fire Protection & Standpipe  Set IPS Pumps - PUM 4101, 4102, 4103 Install Pipe Supports  Set Tank Drain Pumps - PUM 4121, 4122 Install OH Electrical Rough In & Lighting  Set Secondary Scum Pumps - PUM 4131, 4132  Set Fine Screen Pumps - PUM 4141, 4142 Install 12" D.I. Drain Piping Install 12" SCN D.I. Piping Install Control Panels & VFDs	40 3-Oct- 10 30-Nc 10 14-De 126 28-Ma 20 28-Ma 10 26-Ap 20 26-Ap 10 10-Ma 10 10-Ma 5 24-Ma 20 24-Ma 2 3-Jun- 10 7-Jun-	v-2023 1 c-2023 2 ir-2024 2 ir-2024 9 r-2024 2 iy-2024 2 iy-2024 2 iy-2024 3 iy-2024 2 iy-2024 3 iy-2024 4 iy-2024 6	3-Dec-2023 28-Dec-2023 27-Sep-2024 25-Apr-2024 23-May-2024 23-May-2024 23-May-2024 23-May-2024 24-Jun-2024	Q Q Q Q3	Prepa I Insta	are Surface and Coat Wet Well (PC-2)  III 42" PE D.I.  III 14" Foul Air  ✓ 27-Sep-2024, Pump Room  Prepare Surface and Paint Pump Room  Form and Place Pump Pedestal & Equpiment Pads  Install & Test OH Fire Protection & Standpipe  Set IPS Pumps - PUM 4101, 4102, 4103  Install Pipe Supports  Set Tank Drain Pumps - PUM 4121, 4122
IPS	PSMEP1250 PSMEP1260 PSMEP1000 PSMEP1010 PSMEP1020 PSMEP1030 PSMEP1030 PSMEP1050 PSMEP1050 PSMEP1060 PSMEP1060 PSMEP1090 PSMEP1100 PSMEP1110 PSMEP1110 PSMEP1120 PSMEP1130 PSMEP1140	Install 42" PE D.I. Install 14" Foul Air  Prepare Surface and Paint Pump Room  Form and Place Pump Pedestal & Equpiment Pads Install & Test OH Fire Protection & Standpipe  Set IPS Pumps - PUM 4101, 4102, 4103 Install Pipe Supports  Set Tank Drain Pumps - PUM 4121, 4122 Install OH Electrical Rough In & Lighting  Set Secondary Scum Pumps - PUM 4131, 4132  Set Fine Screen Pumps - PUM 4141, 4142 Install 12" D.I. Drain Piping Install 12" SCN D.I. Piping Install Control Panels & VFDs	10 30-No 10 14-De 126 28-Ma 20 28-Ma 10 26-Ap 20 26-Ap 10 10-Ma 10 10-Ma 24-Ma 20 24-Ma 2 3-Jun 2 5-Jun 10 7-Jun	v-2023 1 c-2023 2 ir-2024 2 ir-2024 9 r-2024 2 iy-2024 2 iy-2024 2 iy-2024 3 iy-2024 2 iy-2024 3 iy-2024 4 iy-2024 6	3-Dec-2023 28-Dec-2023 27-Sep-2024 25-Apr-2024 23-May-2024 23-May-2024 23-May-2024 23-May-2024 24-Jun-2024		Prepa I Insta	are Surface and Coat Wet Well (PC-2)  III 42" PE D.I.  III 14" Foul Air  ✓ 27-Sep-2024, Pump Room  Prepare Surface and Paint Pump Room  Form and Place Pump Pedestal & Equpiment Pads  Install & Test OH Fire Protection & Standpipe  Set IPS Pumps - PUM 4101, 4102, 4103  Install Pipe Supports  Set Tank Drain Pumps - PUM 4121, 4122
IPS	PSMEP1250 PSMEP1260 PSMEP1000 PSMEP1010 PSMEP1020 PSMEP1030 PSMEP1030 PSMEP1050 PSMEP1050 PSMEP1060 PSMEP1060 PSMEP1090 PSMEP1100 PSMEP1110 PSMEP1110 PSMEP1120 PSMEP1130 PSMEP1140	Install 42" PE D.I. Install 14" Foul Air  Prepare Surface and Paint Pump Room  Form and Place Pump Pedestal & Equpiment Pads Install & Test OH Fire Protection & Standpipe  Set IPS Pumps - PUM 4101, 4102, 4103 Install Pipe Supports  Set Tank Drain Pumps - PUM 4121, 4122 Install OH Electrical Rough In & Lighting  Set Secondary Scum Pumps - PUM 4131, 4132  Set Fine Screen Pumps - PUM 4141, 4142 Install 12" D.I. Drain Piping Install 12" SCN D.I. Piping Install Control Panels & VFDs	10 14-De 126 28-Ma 20 28-Ma 20 26-Ap 20 26-Ap 10 10-Ma 10 10-Ma 5 24-Ma 20 24-Ma 2 3-Jun-10 7-Jun-10 7-Jun-	c-2023 2 ir-2024 2 ir-2024 2 r-2024 9 r-2024 2 iy-2024 2 iy-2024 3 iy-2024 2 iy-2024 4 iy-2024 6	28-Dec-2023 27-Sep-2024 25-Apr-2024 23-May-2024 23-May-2024 23-May-2024 23-May-2024 24-Jun-2024		I Insta	all 14" Foul Air  27-Sep-2024, Pump Room Prepare Surface and Paint Pump Room Form and Place Pump Pedestal & Equpiment Pads Install & Test OH Fire Protection & Standpipe Set IPS Pumps - PUM 4101, 4102, 4103 Install Pipe Supports Set Tank Drain Pumps - PUM 4121, 4122
Pump	PSMEP1000 PSMEP1010 PSMEP1020 PSMEP1030 PSMEP1040 PSMEP1050 PSMEP1060 PSMEP1080 PSMEP1090 PSMEP1100 PSMEP1110 PSMEP1110 PSMEP1120 PSMEP1130 PSMEP1140	Prepare Surface and Paint Pump Room Form and Place Pump Pedestal & Equpiment Pads Install & Test OH Fire Protection & Standpipe Set IPS Pumps - PUM 4101, 4102, 4103 Install Pipe Supports Set Tank Drain Pumps - PUM 4121, 4122 Install OH Electrical Rough In & Lighting Set Secondary Scum Pumps - PUM 4131, 4132 Set Fine Screen Pumps - PUM 4141, 4142 Install 12" D.I. Drain Piping Install 12" SCN D.I. Piping Install Control Panels & VFDs	126 28-Ma 20 28-Ma 10 26-Ap 20 26-Ap 10 10-Ma 10 10-Ma 5 24-Ma 20 24-Ma 2 3-Jun 10 7-Jun	r-2024 2 r-2024 9 r-2024 2 ry-2024 2 ry-2024 2 ry-2024 3 ry-2024 2 ry-2024 3 ry-2024 4 ry-2024 6	27-Sep-2024 25-Apr-2024 2-May-2024 23-May-2024 23-May-2024 23-May-2024 24-Jun-2024			27-Sep-2024, Pump Room Prepare Surface and Paint Pump Room Form and Place Pump Pedestal & Equpiment Pads Install & Test OH Fire Protection & Standpipe Set IPS Pumps - PUM 4101, 4102, 4103 Install Pipe Supports Set Tank Drain Pumps - PUM 4121, 4122
Pump	PSMEP1000 PSMEP1010 PSMEP1020 PSMEP1030 PSMEP1040 PSMEP1050 PSMEP1060 PSMEP1080 PSMEP1090 PSMEP1100 PSMEP1110 PSMEP1110 PSMEP1120 PSMEP1130 PSMEP1140	Prepare Surface and Paint Pump Room Form and Place Pump Pedestal & Equpiment Pads Install & Test OH Fire Protection & Standpipe Set IPS Pumps - PUM 4101, 4102, 4103 Install Pipe Supports Set Tank Drain Pumps - PUM 4121, 4122 Install OH Electrical Rough In & Lighting Set Secondary Scum Pumps - PUM 4131, 4132 Set Fine Screen Pumps - PUM 4141, 4142 Install 12" D.I. Drain Piping Install 12" SCN D.I. Piping Install Control Panels & VFDs	126 28-Ma 20 28-Ma 10 26-Ap 20 26-Ap 10 10-Ma 10 10-Ma 5 24-Ma 20 24-Ma 2 3-Jun 10 7-Jun	r-2024 2 r-2024 9 r-2024 2 ry-2024 2 ry-2024 2 ry-2024 3 ry-2024 2 ry-2024 3 ry-2024 4 ry-2024 6	27-Sep-2024 25-Apr-2024 2-May-2024 23-May-2024 23-May-2024 23-May-2024 24-Jun-2024			Prepare Surface and Paint Pump Room Form and Place Pump Pedestal & Equpiment Pads Install & Test OH Fire Protection & Standpipe Set IPS Pumps - PUM 4101, 4102, 4103 Install Pipe Supports Set Tank Drain Pumps - PUM 4121, 4122
IPS	PSMEP1010 PSMEP1020 PSMEP1030 PSMEP1040 PSMEP1050 PSMEP1070 PSMEP1060 PSMEP1080 PSMEP1100 PSMEP1110 PSMEP1110 PSMEP1120 PSMEP1130 PSMEP1140	Form and Place Pump Pedestal & Equpiment Pads Install & Test OH Fire Protection & Standpipe Set IPS Pumps - PUM 4101, 4102, 4103 Install Pipe Supports Set Tank Drain Pumps - PUM 4121, 4122 Install OH Electrical Rough In & Lighting Set Secondary Scum Pumps - PUM 4131, 4132 Set Fine Screen Pumps - PUM 4141, 4142 Install 12" D.I. Drain Piping Install 12" SCN D.I. Piping Install Control Panels & VFDs	20 28-Ma 10 26-Ap 20 26-Ap 10 10-Ma 10 10-Ma 5 24-Ma 20 24-Ma 2 3-Jun 2 5-Jun 10 7-Jun	r-2024 2 r-2024 2 r-2024 2 ry-2024 2 ry-2024 2 ry-2024 3 ry-2024 2 ry-2024 4 ry-2024 6	25-Apr-2024 2-May-2024 23-May-2024 23-May-2024 23-May-2024 24-Jun-2024			Prepare Surface and Paint Pump Room Form and Place Pump Pedestal & Equpiment Pads Install & Test OH Fire Protection & Standpipe Set IPS Pumps - PUM 4101, 4102, 4103 Install Pipe Supports Set Tank Drain Pumps - PUM 4121, 4122
IPS	PSMEP1020 PSMEP1030 PSMEP1040 PSMEP1050 PSMEP1070 PSMEP1060 PSMEP1080 PSMEP1090 PSMEP1110 PSMEP1110 PSMEP1120 PSMEP1130 PSMEP1140	Install & Test OH Fire Protection & Standpipe Set IPS Pumps - PUM 4101, 4102, 4103 Install Pipe Supports Set Tank Drain Pumps - PUM 4121, 4122 Install OH Electrical Rough In & Lighting Set Secondary Scum Pumps - PUM 4131, 4132 Set Fine Screen Pumps - PUM 4141, 4142 Install 12" D.I. Drain Piping Install 12" SCN D.I. Piping Install Control Panels & VFDs	20 26-Ap 10 10-Ma 10 10-Ma 5 24-Ma 20 24-Ma 2 3-Jun 2 5-Jun 10 7-Jun	r-2024 2 ny-2024 2 ny-2024 2 ny-2024 3 ny-2024 2 ny-2024 4 ny-2024 6	23-May-2024 23-May-2024 23-May-2024 31-May-2024 24-Jun-2024		0	Install & Test OH Fire Protection & Standpipe Set IPS Pumps - PUM 4101, 4102, 4103 Install Pipe Supports Set Tank Drain Pumps - PUM 4121, 4122
IPS	PSMEP1030 PSMEP1040 PSMEP1050 PSMEP1070 PSMEP1060 PSMEP1080 PSMEP1100 PSMEP1110 PSMEP1110 PSMEP1120 PSMEP1130 PSMEP1140	Set IPS Pumps - PUM 4101, 4102, 4103 Install Pipe Supports Set Tank Drain Pumps - PUM 4121, 4122 Install OH Electrical Rough In & Lighting Set Secondary Scum Pumps - PUM 4131, 4132 Set Fine Screen Pumps - PUM 4141, 4142 Install 12" D.I. Drain Piping Install 12" SCN D.I. Piping Install Control Panels & VFDs	20 26-Ap 10 10-Ma 10 10-Ma 5 24-Ma 20 24-Ma 2 3-Jun 2 5-Jun 10 7-Jun	r-2024 2 ny-2024 2 ny-2024 2 ny-2024 3 ny-2024 2 ny-2024 4 ny-2024 6	23-May-2024 23-May-2024 23-May-2024 31-May-2024 24-Jun-2024		0	Set IPS Pumps - PUM 4101, 4102, 4103 Install Pipe Supports Set Tank Drain Pumps - PUM 4121, 4122
IPS	PSMEP1030 PSMEP1040 PSMEP1050 PSMEP1070 PSMEP1060 PSMEP1080 PSMEP1100 PSMEP1110 PSMEP1110 PSMEP1110 PSMEP1120 PSMEP1130 PSMEP1140	Set IPS Pumps - PUM 4101, 4102, 4103 Install Pipe Supports Set Tank Drain Pumps - PUM 4121, 4122 Install OH Electrical Rough In & Lighting Set Secondary Scum Pumps - PUM 4131, 4132 Set Fine Screen Pumps - PUM 4141, 4142 Install 12" D.I. Drain Piping Install 12" SCN D.I. Piping Install Control Panels & VFDs	10 10-Ma 10 10-Ma 5 24-Ma 20 24-Ma 2 3-Jun- 2 5-Jun- 10 7-Jun-	y-2024 2 y-2024 2 y-2024 3 y-2024 2 2024 4 2024 6	23-May-2024 23-May-2024 31-May-2024 24-Jun-2024		0	Set IPS Pumps - PUM 4101, 4102, 4103 Install Pipe Supports Set Tank Drain Pumps - PUM 4121, 4122
IPS	PSMEP1040 PSMEP1050 PSMEP1070 PSMEP1060 PSMEP1080 PSMEP1100 PSMEP1110 PSMEP1110 PSMEP1120 PSMEP1130 PSMEP1140	Install Pipe Supports Set Tank Drain Pumps - PUM 4121, 4122 Install OH Electrical Rough In & Lighting Set Secondary Scum Pumps - PUM 4131, 4132 Set Fine Screen Pumps - PUM 4141, 4142 Install 12" D.I. Drain Piping Install 12" SCN D.I. Piping Install Control Panels & VFDs	10 10-Ma 5 24-Ma 20 24-Ma 2 3-Jun 2 5-Jun 10 7-Jun	1y-2024 2 1y-2024 3 1y-2024 2 1-2024 4 1-2024 6	23-May-2024 31-May-2024 24-Jun-2024		0	Install Pipe Supports Set Tank Drain Pumps - PUM 4121, 4122
IPS	PSMEP1050 PSMEP1070 PSMEP1060 PSMEP1080 PSMEP1090 PSMEP11100 PSMEP1110 PSMEP1120 PSMEP1130 PSMEP1140	Set Tank Drain Pumps - PUM 4121, 4122 Install OH Electrical Rough In & Lighting Set Secondary Scum Pumps - PUM 4131, 4132 Set Fine Screen Pumps - PUM 4141, 4142 Install 12" D.I. Drain Piping Install 12" SCN D.I. Piping Install Control Panels & VFDs	5 24-Ma 20 24-Ma 2 3-Jun 2 5-Jun 10 7-Jun	iy-2024 3 iy-2024 2 -2024 4 -2024 6	31-May-2024 24-Jun-2024			Set Tank Drain Pumps - PUM 4121, 4122
IPS	PSMEP1070 PSMEP1060 PSMEP1080 PSMEP1090 PSMEP11100 PSMEP1110 PSMEP1120 PSMEP1130 PSMEP1140	Install OH Electrical Rough In & Lighting Set Secondary Scum Pumps - PUM 4131, 4132 Set Fine Screen Pumps - PUM 4141, 4142 Install 12" D.I. Drain Piping Install 12" SCN D.I. Piping Install Control Panels & VFDs	20 24-Ma 2 3-Jun- 2 5-Jun- 10 7-Jun-	y-2024 2 -2024 4 -2024 6	24-Jun-2024			
IPS	PSMEP1060 PSMEP1080 PSMEP1090 PSMEP1100 PSMEP1110 PSMEP1110 PSMEP1120 PSMEP1130 PSMEP1140	Set Secondary Scum Pumps - PUM 4131, 4132 Set Fine Screen Pumps - PUM 4141, 4142 Install 12" D.I. Drain Piping Install 12" SCN D.I. Piping Install Control Panels & VFDs	2 3-Jun- 2 5-Jun- 10 7-Jun-	-2024 4 -2024 6		1 1 1		Install OH Electrical Rough In & Lighting
IPS	PSMEP1080 PSMEP1090 PSMEP1100 PSMEP1110 PSMEP1120 PSMEP1130 PSMEP1140	Set Fine Screen Pumps - PUM 4141, 4142 Install 12" D.I. Drain Piping Install 12" SCN D.I. Piping Install Control Panels & VFDs	2 5-Jun 10 7-Jun	-2024 6		T::		Set Secondary Scum Pumps - PUM 4131, 4132
IPS   IPS   IPS   IPS   IPS   IPS   IPS   IPS   IPS	PSMEP1090 PSMEP1100 PSMEP1110 PSMEP1120 PSMEP1130 PSMEP1140	Install 12" D.I. Drain Piping Install 12" SCN D.I. Piping Install Control Panels & VFDs	10 7-Jun-		6-Jun-2024	1		Set Fine Screen Pumps - PUM 4141, 4142
IPS   IPS   IPS   IPS   IPS   IPS   IPS   IPS	PSMEP1100 PSMEP1110 PSMEP1120 PSMEP1130 PSMEP1140	Install 12" SCN D.I. Piping Install Control Panels & VFDs		.2024 ⊥2	21-Jun-2024	1		Install 12" D.I. Drain Piping
IPS   IPS   IPS   IPS   IPS   IPS   IPS   IPS	PSMEP1110 PSMEP1120 PSMEP1130 PSMEP1140	Install Control Panels & VFDs	10 24-30		3-Jul-2024	1 1 1 1		I Install 12" SCN D.I. Piping
IPS IPS IPS IPS IPS IPS IPS IPS	PSMEP1120 PSMEP1130 PSMEP1140		20 25-Ju		23-Jul-2024	-		□ Install Control Panels & VFDs
	PSMEP1130 PSMEP1140		5 9-Jul-2		5-Jul-2024			1 Install 8" SCN D.I. Piping
IPS   IPS   IPS   IPS   IPS	PSMEP1140				9-Jul-2024	-		I Install 6" EFW D.I. Piping
IPS IPS IPS IPS		Install 6" EFW D.I. Piping	10 16-Ju			-		
IPS IPS IPS		Install 4" EFW D.I. Piping	5 30-Jul		5-Aug-2024	-		I Install 4" EFW D.I. Piping
IPS IPS		Install 4" DRA PVC Piping	5 6-Aug		2-Aug-2024	1 1 1 1 1		I Install 4" DRA PVC Piping
IPS		Install 1 1/2" EFW SS Piping	10 13-Au	•	27-Aug-2024			II Install 1 1/2" EFW SS Piping
IPS		Test Piping	5 28-Au	-	-Sep-2024			Il Test Piping
		Coat Piping / Touchup	2 28-Au	-	29-Aug-2024			I Coat Piping / Touchup
IPS		Install Aluminum Railings, Grating, Ladders	5 30-Au		S-Sep-2024			I Install Aluminum Railings, Grating, Ladders
		Terminate & Test Electrical and Controls	15 5-Sep		25-Sep-2024			Terminate & Test Electrical and Controls
		Install Aluminum Stair 5	5 9-Sep		3-Sep-2024	ļ		I Install Aluminum Stair 5
		Install Aluminum Stair 2	5 16-Se		20-Sep-2024			I Install Aluminum Stair 2
		Seal Concrete Floor	5 23-Se		27-Sep-2024			l Seal Concrete Floor
	ediate Floor (+2.5')		224 26-Ap		20-Mar-2025			20-Mar-2025, Intermediate Floor (+2.5')
	Gallery		224 26-Ap		20-Mar-2025			20-Mar-2025, Pipe Gallery
		Prepare Surface and Paint	20 26-Ap		23-May-2024		<del> </del> <del> </del> <del> </del> <del> </del> <del> </del> <del> </del>	Prepare Surface and Paint
		Install & Test OH Fire Suppression	15 24-Ma	•	7-Jun-2024			I Install & Test OH Fire Suppression
		Install Pipe Supports & Racks	15 24-Ma		7-Jun-2024			I Install Pipe Supports & Racks
		Install 14"-18" Foul Air PVC Piping	10 18-Ju		-Jul-2024			Install 14"-18" Foul Air PVC Piping
		Install 36" PE D.I. Piping	10 5-Sep		8-Sep-2024			II Install 36" PE D.I. Piping
		Install 72" PE CS Piping	20 19-Se		6-Oct-2024			□ Install 72" PE CS Piping
		Install 30" PASS Piping	15 17-Oc		5-Nov-2024			Install 30" PA SS Piping
IPS	PSMEP1520	Install 16" FLT D.I. Piping, Valves & App	10 7-Nov	-2024 2	21-Nov-2024			□ Install 16" FLT D.I. Piping, Valves & App
IPS	PSMEP1560	Install 12" Drain D.I. Piping	5 22-No		29-Nov-2024			II Install 12" Drain D.I. Piping
IPS	PSMEP1570	Install 12" SSC D.I. Piping	10 2-Dec	-2024 1	3-Dec-2024	]		II Install 12" SSC D.I. Piping
IPS	PSMEP1610	Install 8" SW D.I. Piping	10 16-De	c-2024 3	0-Dec-2024			I Install 8" SW D.I. Piping
IPS	PSMEP1630	Install 6" - 10" EFW D.I. Piping & Valves	5 31-De	c-2024 7	′-Jan-2025			I Install 6" - 10" EFW D.I. Piping & Valves
IPS	PSMEP1640	Install 6" Drain D.I. Piping, Meters, Valves	10 8-Jan	-2025 2	22-Jan-2025			I Install 6" Drain D.I. Piping, Meters, Valves
IP9	PSMEP1660	Install 4" PASS Piping	10 23-Ja	n-2025 5	5-Feb-2025	1		II Install 4" PASS Piping
		Install 1 1/2" EFW SS Piping	5 6-Feb		2-Feb-2025	1		I Install 1 1/2" EFW SS Piping
IPS		Install Ductwork & Fans	10 13-Fe		7-Feb-2025	1		I Install Ductwork & Fans

Plan.	Build. Manage.				
	Activity Name	Original Start Duration	Finish		2024 2025 2026 2027 2028
·= 6.1 ·== 1.00 ·					
IPSMEP1690	Test Piping	5 13-Feb-2025	20-Feb-2025	-	I Test Piping
IPSMEP1700	Paint Process Piping	10 21-Feb-2025	6-Mar-2025	_	Paint Process Piping
IPSMEP1710	Set IPS Pump Crane & Intermediate Floor Equipment Crane	10 28-Feb-2025	13-Mar-2025	4	Set IPS Pump Crane & Intermediate Floor Equipment
IPSMEP1820	Seal Concrete Floor	5 14-Mar-2025	20-Mar-2025		Seal Concrete Floor
Ground Floor (+16')	1-05, Corridor 41-04, Stair 1	130 6-Jan-2025	15-Jul-2025		15-Jul-2025, Ground Floor (+16')
IPSMEP1770	Paint Walls/Ceilings on Ground Floor	54 6-Jan-2025 5 6-Jan-2025	24-Mar-2025 10-Jan-2025	- : : : : : : : : : : :	<ul> <li>24-Mar-2025, Fuel Pump Room 41-05, Corridor 41-0</li> <li>Paint Walls/Ceilings on Ground Floor</li> </ul>
IPSMEP1830	Install & Test OH Fire Protection	5 0-Jan-2025 5 13-Jan-2025	17-Jan-2025		Install & Test OH Fire Protection
IPSMEP1850	Install HVAC Ductwork & Fans		27-Jan-2025	-	I Install HVAC Ductwork & Fans
		5 21-Jan-2025			I Install Electrical Rough-in
IPSMEP1880	Install Electrical Rough-in	10 28-Jan-2025	10-Feb-2025		
IPSMEP2000	Install (2) Day Tanks	10 11-Feb-2025	25-Feb-2025		I Install (2) Day Tanks
IPSMEP2010	Install Windows	5 11-Feb-2025	18-Feb-2025	-	I Install Windows
IPSMEP2020	Install Louvers	5 11-Feb-2025	18-Feb-2025		I Install Louvers
IPSMEP2190	Install Outlets and Lighting	5 19-Feb-2025	25-Feb-2025	4	I Install Outlets and Lighting
IPSMEP2140	Pull and Terminate Electrical	5 26-Feb-2025	4-Mar-2025		Pull and Terminate Electrical
IPSMEP2150	Install Doors and Hardware	5 26-Feb-2025	4-Mar-2025	4	Instal Doors and Hardware
IPSMEP2860	Test Electrical and Controls	5 5-Mar-2025	11-Mar-2025	4	Test Electrical and Controls
IPSMEP2210	Seal Floors & Sealants	2 21-Mar-2025	24-Mar-2025		l Seal Floors & Sealants
Storage 41-07		45 13-Jan-2025	18-Mar-2025		▼ 18-Mar-2025, Storage 41-07
IPSMEP2110	Paint Walls/Ceilings & Sealants	5 13-Jan-2025	17-Jan-2025		I Paint Walls/Ceilings & Sealants
IPSMEP1760	Install Fire Protection	5 21-Jan-2025	27-Jan-2025	4	I Install Fire Protection
IPSMEP1810	Install HVAC Ductwork & Fans	5 28-Jan-2025	3-Feb-2025		I Install HVAC Ductwork & Fans
IPSMEP1940	Install Louvers	5 28-Jan-2025	3-Feb-2025		I Install Louvers
IPSMEP1930	Install Windows	5 4-Feb-2025	10-Feb-2025		I Install Windows
IPSMEP1860	Install Electrical Rough-in	10 11-Feb-2025	25-Feb-2025		🗓 Install Electrical Rough-in
IPSMEP1910	Pull and Terminate Electrical	5 26-Feb-2025	4-Mar-2025		Pull and Terminate Electrical
IPSMEP2030	Install Outlets and Lighting	5 5-Mar-2025	11-Mar-2025		I Install Outlets and Lighting
IPSMEP1920	Install Doors and Hardware	5 12-Mar-2025	18-Mar-2025		I Install Doors and Hardware
IPSMEP2870	Test Electrical	5 12-Mar-2025	18-Mar-2025		I Test Electrical
Generator Room 41	-06	130 6-Jan-2025	15-Jul-2025		▼ 15-Jul-2025, Generator Room 41-06
IPSMEP2230	Install CMU Walls	20 6-Jan-2025	3-Feb-2025		☐ Install CMU Walls
IPSMEP2820	Paint Walls/Ceilings & Sealants	10 4-Feb-2025	18-Feb-2025	1	I Paint Walls/Ceilings & Sealants
IPSMEP1750	Install Fire Protection	10 19-Feb-2025	4-Mar-2025		☐ Install Fire Protection
IPSMEP1800	Install HVAC Ductwork & Fans	10 5-Mar-2025	18-Mar-2025	1 : : : : : : : : : :	II Install HVAC Ductwork & Fans
IPSMEP1840	Install Electrical Rough-in	15 19-Mar-2025	9-Apr-2025	7	☐ Install Electrical Rough-in
IPSMEP1890	Pull and Terminate Electrical	10 10-Apr-2025	24-Apr-2025		Pull and Terminate Electrical
IPSMEP1900	Install Equipment Pads	10 25-Apr-2025	8-May-2025	]	Install Equipment Pads
IPSMEP1980	Install (2) 11.5kV Generators	10 9-May-2025	22-May-2025	1	I Install (2) 11.5kV Generators
IPSMEP1990	Install Neutral Ground Resistor (NGR)	5 9-May-2025	15-May-2025	1	I Install Neutral Ground Resistor (NGR)
IPSMEP2060	Install Fuel Oil Lines	10 23-May-2025	6-Jun-2025	1	II Install Fuel Oil Lines
IPSMEP2070	Install Windows	5 23-May-2025	30-May-2025		II Install Windows
IPSMEP2080	Install Acoustical Louvers	5 23-May-2025	30-May-2025	1	I Install Acoustical Louvers
IPSMEP2090	Install Platform & Stairway	5 23-May-2025	30-May-2025	1	I Install Platform & Stairway
IPSMEP2100	Install Generator Exhaust Ductwork	15 23-May-2025	16-Jun-2025	1	□ Install Generator Exhaust Ductwork
IPSMEP2130	Install Outlets and Lighting	5 2-Jun-2025	6-Jun-2025	1	I Install Outlets and Lighting
IPSMEP2180	Terminate Connection Between Gear and Generator	10 9-Jun-2025	23-Jun-2025		Terminate Connection Between Gear and General
3-5		1 1 2 2 2 2			

		uild. Manage. Activity Name		Original	Start	Finish	2022 2023	2024 2025 2026 2027 2028 2029
				Duration				
	IPSMEP2200	Install Doors and Hardware		5	17-Jun-2025	23-Jun-2025		I Install Doors and Hardware
	IPSMEP2880	Test Electrical		15	24-Jun-2025	15-Jul-2025	7	1 Test Electrical
	Second Floor (+27')			377	12-Apr-2024	16-Oct-2025		▼ 16-Oct-2025, Second Floor (+27')
	Electrical Room 41-10			97	4-Feb-2025	25-Jun-2025		25-Jun-2025, Electrical Room 41-10
	IPSMEP2830	Install CMU Walls		20	4-Feb-2025	4-Mar-2025		□ Install CMU Walls
Ш	IPSMEP1720	Paint Walls		2	5-Mar-2025	6-Mar-2025		I Paint Walls
	IPSMEP1790	Install and Test Fire Protection		10	7-Mar-2025	20-Mar-2025		Install and Test Fire Protection
	IPSMEP1740	Install Equipment Pads		5	21-Mar-2025	28-Mar-2025		I Install Equipment Pads
Ш	IPSMEP2120	Install Generator Swgr, Main Swgr, Ba	attery systems - 4011	20	31-Mar-2025	28-Apr-2025		Install Generator Swgr, Main Swgr, Battery systems - 40
	IPSMEP1870	Install Electrical Rough-in		10	29-Apr-2025	12-May-2025		Install Electrical Rough-in
П	IPSMEP2270	Install Aluminum Grating, Exterior Stair	rs, and Railings		29-Apr-2025	5-May-2025		I Install Aluminum Grating, Exterior Stairs, and Railings
	IPSMEP2260	Install Translucent Wall Panels, doors	(3), and overhead door	10	6-May-2025	19-May-2025		Install Translucent Wall Panels, doors (3), and overhead
	IPSMEP1730	Install outlets and lighting		10	13-May-2025	27-May-2025		Install outlets and lighting
	IPSMEP1970	Install HVAC and ductwork		10	13-May-2025	27-May-2025		Install HVAC and ductwork
	IPSMEP2900	Pull Electrical Wire & Terminate		10	28-May-2025	10-Jun-2025		Pull Electrical Wire & Terminate
	IPSMEP2250	Test Electrical		10	12-Jun-2025	25-Jun-2025		Test Electrical
	Electrical Room 41-11				12-Apr-2024	24-Oct-2024		▼ 24-Oct-2024, Electrical Room 41-11
	IPSMEP2840	Install CMU Walls		20	12-Apr-2024	9-May-2024		□ Install CMU Walls
	IPSMEP1330	Install & Test OH Fire Protection		10	10-May-2024	23-May-2024		II Install & Test OH Fire Protection
	IPSMEP1390	Install Equipment pads			24-May-2024	31-May-2024		Install Equipment pads
П	IPSMEP1340	Paint Walls		5	3-Jun-2024	7-Jun-2024		I Paint Walls
	IPSMEP1590	Install Switchboards, PLC, MCC		30	3-Jun-2024	16-Jul-2024		☐ Install Switchboards, PLC, MCC
	IPSMEP1410	Install HVAC and Ductwork		10	10-Jun-2024	24-Jun-2024		Install HVAC and Ductwork
	IPSMEP1440	Install Electrical Rough-in		10	17-Jul-2024	30-Jul-2024		Il Install Electrical Rough-in
	IPSMEP1510	Install Doors, OH Doors, and Hardwa	re	10	17-Jul-2024	30-Jul-2024		I Install Doors, OH Doors, and Hardware
	IPSMEP1550	Install Outlets and Lighting		10	31-Jul-2024	13-Aug-2024		Install Outlets and Lighting
	IPSMEP1480	Pull and Terminate Electrical		10	14-Aug-2024	28-Aug-2024		Pull and Terminate Electrical
	IPSMEP2890	Test Electrical		10	29-Aug-2024	12-Sep-2024		II Test Electrical
	IPSMEP1650	Install ACT Ceiling		30	13-Sep-2024	24-Oct-2024		□ Install ACT Ceiling
	Restrooms 41-14 & 41	-15		60	5-Mar-2025	30-May-2025		▼▼ 30-May-2025, Restrooms 41-14 & 41-15
	IPSMEP2300	Install Fire Protection			5-Mar-2025	11-Mar-2025		I Install Fire Protection
	IPSMEP2310	Install HVAC Ductwork & Exhaust Far			12-Mar-2025	18-Mar-2025		I Install HVAC Ductwork & Exhaust Fan
	IPSMEP2330	Install Electrical Roughin, Pull, Termina	ite Test		19-Mar-2025	2-Apr-2025		I Install Electrical Roughin, Pull, Terminate Test
Ш	IPSMEP2360	Install Plumbing (Water & Drain)			3-Apr-2025	16-Apr-2025		Install Plumbing (Water & Drain)
	IPSMEP2440	Install Doors & Hardware			17-Apr-2025	24-Apr-2025	4	I Install Doors & Hardware
П	IPSMEP2480	Install Floor & Wall Tile			25-Apr-2025	22-May-2025		☐ Install Floor & Wall Tile
	IPSMEP2650	Install Toilet Partitions & Accessories			23-May-2025	30-May-2025		I Install Toilet Partitions & Accessories
П		41-17 & Control Station 41-16			12-Mar-2025	18-Jun-2025		18-Jun-2025, Break/Meeting Room 41-17 & Control S
П	IPSMEP2320	Install Fire Protection			12-Mar-2025	18-Mar-2025		I Install Fire Protection
П	IPSMEP2340	Install Plumbing			19-Mar-2025	25-Mar-2025	_	I Install Plumbing
	IPSMEP2370	Install HVAC Ductwork & Fans			27-Mar-2025	2-Apr-2025	-	I Install HVAC Ductwork & Fans
	IPSMEP2400	Install Electrical Rough-in			3-Apr-2025	16-Apr-2025	_	I Install Electrical Rough-in
	IPSMEP2460	Pull, Test, and Terminate Electrical			17-Apr-2025	1-May-2025	-	Pull, Test, and Terminate Electrical
	IPSMEP2510	Install Doors, OH Doors, and Hardwa	re		2-May-2025	8-May-2025		I Install Doors, OH Doors, and Hardware
	IPSMEP2570	Install Framing & Drywall			9-May-2025	15-May-2025	-	I Install Framing & Drywall
	IPSMEP2600	Paint Drywall & Sealants		5	16-May-2025	22-May-2025		I Paint Drywall & Sealants

Activity Name		Driginal	Start	Finish		2022 2	2023 202	4   2	025 2026	2027	2028	2029
Nouvily Harris	D	uration	our.									
IPSMEP2380 Install Windows		5	20-May-2025	27-May-2025					Install Windows		1 1 1 1	1
IPSMEP2410 Install Outlets and Lighting			28-May-2025	3-Jun-2025					Install Outlets and	Lighting		
IPSMEP2640 Frame Ceiling			4-Jun-2025	10-Jun-2025					Frame Ceiling			
IPSMEP2670 Install Office Furniture			12-Jun-2025	18-Jun-2025	1				I Install Office Furni	ture		
Janitor 41-20, Storage 41-19 & Process Lab 41-18		100	19-Mar-2025	12-Aug-2025				_	12-Aug-2025, J	anitor 41-20, Sto	rage 41-19 {	չ Proce
IPSMEP2350 Install Fire Protection		10	19-Mar-2025	2-Apr-2025				<b>.</b>	nstall Fire Protection			
IPSMEP2420 Install Plumbing		10	3-Apr-2025	16-Apr-2025					Install Plumbing			
IPSMEP2520 Install HVAC Ductwork & Fans		10	17-Apr-2025	1-May-2025				0	Install HVAC Ductwo	ork & Fans		
IPSMEP2530 Install Windows		10	17-Apr-2025	1-May-2025					Install Windows			
IPSMEP2610 Install Electrical Rough-in		10	2-May-2025	15-May-2025				0	Install Electrical Rou	ugh-in		
IPSMEP2620 Install Outlets and Lighting		10	2-May-2025	15-May-2025					Install Outlets and L	ighting		
IPSMEP2680 Test and Terminate Electrical		10	16-May-2025	30-May-2025					Test and Terminate	Electrical		
IPSMEP2720 Install Doors, OH Doors, and Hardwa	re	10	2-Jun-2025	16-Jun-2025					I Install Doors, OH I	Doors, and Hard	<i>w</i> are	
IPSMEP2740 Install Framing & Drywall		10	17-Jun-2025	30-Jun-2025	1				I Install Framing & l	Drywall		
IPSMEP2770 Paint Drywall & Sealants		10	1-Jul-2025	15-Jul-2025					Paint Drywall & S	ealants		
IPSMEP2780 Frame Ceiling		10	16-Jul-2025	29-Jul-2025					Frame Ceiling			
IPSMEP2810 Install Office Furniture		10	30-Jul-2025	12-Aug-2025					I Install Office Fur	niture		
Blower Room 41-09		155	5-Mar-2025	16-Oct-2025				<b>→</b>	16-Oct-2025,	Blower Room 4	ı <b>-</b> 09	
IPSMEP2850 Install CMU Walls		20	5-Mar-2025	2-Apr-2025					nstall CMU Walls			
IPSMEP1290 Prepare Surface and Paint		10	3-Apr-2025	16-Apr-2025				þ	Prepare Surface and	d Paint		
IPSMEP1310 Place Equipment Pads		10	17-Apr-2025	1-May-2025					Place Equipment Pa	ads		
IPSMEP1380 Install Electrical Rough-In & Mount VF	Ds	10	24-Jun-2025	8-Jul-2025					Install Electrical R	lough-In & Moun	VFDs	
IPSMEP1430 Install Turbo Blowers - BLW 4101, 410	02, 4103 A/B (3)	10	9-Jul-2025	22-Jul-2025					I Install Turbo Blov	vers - BLW 4101	, 4102, 4103	A/B (3)
IPSMEP1450 Install Displacement Blowers - BLW 4	131, 4132, 4141, 4142	5	23-Jul-2025	29-Jul-2025			-		I Install Displacem	ent Blowers - BL	W 4131, 413	2, 414
IPSMEP1320 Install 14" -18" Foul Air FRP Piping		5	30-Jul-2025	5-Aug-2025					I Install 14" -18" F	oul Air FRP Pipin	g	
IPSMEP1470 Install 30" PA SS Piping		5	6-Aug-2025	12-Aug-2025					I Install 30" PASS	S Piping		
IPSMEP1490 Install 14" PA SS Piping & Valves		5	13-Aug-2025	20-Aug-2025					I Install 14" PASS	S Piping & Valves		
IPSMEP1500 Install 2", 4",8" PA SS Piping		5	21-Aug-2025	27-Aug-2025					I Install 2", 4",8" I	PASS Piping		
IPSMEP1530 Test Piping			28-Aug-2025	4-Sep-2025			- ; ; ; ;		I Test Piping			
IPSMEP1540 Terminate & Test Power & Control to I	nstrumentation and Equipment		5-Sep-2025	25-Sep-2025					☐ Terminate & Te	est Power & Cont	rol to Instrum	entatio
IPSMEP1580 Paint Process Piping		5	26-Sep-2025	2-Oct-2025					Paint Process	Piping		
IPSMEP1600 Install Ductwork			3-Oct-2025	9-Oct-2025					Install Ductwo	rk		
IPSMEP1620 Install Louvers & Doors			10-Oct-2025	16-Oct-2025					I Install Louver	s & Doors		
MBR Operation 41-13 & Office Storage 41-12			3-Apr-2025	15-Jul-2025			- † ; ; ;	<del></del>	▼ 15-Jul-2025, MB	R Operation 41-1	3 & Office St	orage
IPSMEP2390 Install Fire Protection			3-Apr-2025	9-Apr-2025					Install Fire Protection			
IPSMEP2450 Install Plumbing		5	10-Apr-2025	16-Apr-2025				1	Install Plumbing			
IPSMEP2490 Install HVAC Ductwork & Fans		5	17-Apr-2025	24-Apr-2025				0	Install HVAC Ductwo	ork & Fans		
IPSMEP2500 Install Windows		5	17-Apr-2025	24-Apr-2025				0	Install Windows			
IPSMEP2550 Install Electrical Rough-in		5	25-Apr-2025	1-May-2025				1	Install Electrical Rou	gh-in		
IPSMEP2560 Install Outlets and Lighting		5	25-Apr-2025	1-May-2025				1	Install Outlets and L	ighting		
IPSMEP2590 Test and Terminate Electrical			2-May-2025	15-May-2025				0	Test and Terminate	Electrical		
IPSMEP2630 Install Doors, OH Doors, and Hardwa	re		16-May-2025	22-May-2025				1	Install Doors, OH D	oors, and Hardw	/are	
IPSMEP2660 Install Framing & Drywall			23-May-2025	16-Jun-2025					I Install Framing & D	Drywall		
IPSMEP2700 Paint Drywall & Sealants			17-Jun-2025	23-Jun-2025	1-::-				Paint Drywall & Se	_ L   4		
IPSMEP2710 Frame Ceiling			24-Jun-2025	8-Jul-2025					Frame Ceiling			-
IPSMEP2730 Install Office Furniture			9-Jul-2025	15-Jul-2025					I Install Office Furn	iture		

	Activity Name	Original S Duration	start	Finish		2022		023	202		2025		2026		2027		2028	
Elevator			!-May-2025	22-Jul-2025		Q Q3	Q Q C		Q Q2	QQ				≀∣ પ∣ પ Elevato		Q4 Q	QQ	<u>I</u> Q
IPSMEP2430	Install Elevator Hoist Beams		-May-2025 2-May-2025	8-May-2025										loist Be				
IPSMEP2470	Install Elevator Rails & Platforms		-May-2025 -May-2025	15-May-2025				·				بالدال بالداليات		Rails & I		15		
IPSMEP2540	Install Electrical Rough-In		6-May-2025	22-May-2025	-						i i	i i	i i	Rough	i i i			
IPSMEP2580	Install Elevator & Cab Walls		3-May-2025	15-Jul-2025	-									r & Cal				1 1
IPSMEP2750	Install Finishes		6-Jul-2025	22-Jul-2025	-						i i	i i	Finishe	i i	VVCIIO			
Roof (44')	IIISIAII I IIISI IES		9-Jun-2025	22-Dec-2025										-2025,	Roof (4	<b>/'</b> '\		
IPSMEP2690	Cure Concrete Before Roof Application		9-Jun-2025	29-Jul-2025							+	-	+	te Befo	-1+-2-1	1	ation	
IPSMEP2760	Install TPO Roofing		7-Oct-2025	14-Nov-2025	1							1 1		O Roof		, .pp		
IPSMEP2790	Install Scuppers, Ladders, Coping		7-Nov-2025	21-Nov-2025	-							1 1	1 1	uppers	, • ,	rs Co	nind	
IPSMEP2800	Install PV Panels & Supports		4-Nov-2025	22-Dec-2025	-									V Pane				1 1
Area 41A IPS/Blower Odor			3-Feb-2025	16-Oct-2025								1 1		25, Are			1 1	dor C
Ground Floor (+16')	Control		3-Feb-2025	16-Oct-2025			{ <u></u>	· †					::			( :	÷	doi c
IPSMEP1780	Install Equipment Pads		3-Feb-2025	27-Feb-2025							╹ Instal	1 1		1 1		. (.	~ /	
IPSMEP1960	Prepare Surface and Traffic Coating		4-Mar-2025	20-Mar-2025	1									and Tra	fic Coa	tina		
IPSMEP2280	Install Biotrickling Filter Tanks - OCU 4161, 4162		1-Mar-2025	4-Apr-2025	1						1 1 1	i i	i i	Filter Ta	i i i	_	61 41	62
IPSMEP2050	Install Foul Air Ductwork Supports		6-Aug-2025	20-Aug-2025	1								, , ,	ir Ductv			1 1	ĭ_ :
IPSMEP2170	Install 18" - 24" Foul Air Ductwork & Instruments		1-Aug-2025	11-Sep-2025										24" Foi		i	1	trume
IPSMEP2240	Install Foul Air Fans - OCF 4161, 4162		2-Sep-2025	25-Sep-2025	- 1									Air Fan				
IPSMEP2290	Install Electrical Rough-In, Terminate, Test		6-Sep-2025	16-Oct-2025	-									ctrical R			1 1	
Area 41B IPS/Blower Fuel S			4-Mar-2025	12-May-2025							12	1 1		1 1			1 1	1 1
Ground Floor (+16')	on age		4-Mar-2025	12-May-2025							12						uero	U ay
IPSMEP1950	Prepare Surface and Traffic Coating		4-Mar-2025	20-Mar-2025			{ <u>-</u>	· †						and Tra				
IPSMEP2040	Install Fuel Piping		1-Mar-2025	4-Apr-2025	1						1 1 1	1 1	l Piping	1 1				1 1
IPSMEP2160	Install Fuel Storage Tanks		'-Apr-2025	21-Apr-2025	1									ge Tank	s			
IPSMEP2220	Install Electrical Rough-In, Termination, Test		2-Apr-2025	12-May-2025					1 1	1 1	1 1	1 1	1 1	Rough-	1 1 1	hinatio	i. Test	1 1
Area 42 Fine Screen Struct			7-Aug-2023	12-Aug-2024						<b>▼</b> 12-/	ug-2024						,	
Intermediate Floor (+2.5	<u> </u>		7-Aug-2023	12-Aug-2024				<b>V</b>	!!!		ug-2024	-	+		-1+1			1-1
FSMEP1310	Install Stop Log - 4303 B (1) & Weirs		7-Aug-2023	24-Aug-2023				l Ins			4303 B (							
FSMEP1320	Install 12" SS Sluice Way	5 2	25-Aug-2023	31-Aug-2023				I Ins	tall 12"	SS Slu	ce Way							
FSMEP1330	Install Slides Gates & Actuators - SLG4201, 4202, 4203 A/B (6)	10 1	-Sep-2023	15-Sep-2023				0 In	stall Slic	les Gat	es & Actu	ators	- SLG4	1201, 42	02, 42	03 A/E	(6)	1 1
FSMEP1340	Install Slides Gates & Actuators - SLG 4301, 4302, 4303 B (3)		8-Sep-2023	22-Sep-2023				l In	stall Slic	les Gal	es & Act	ators	-SLG	4301, 4	302, 43	303 B	3)	
FSMEP1290	Prepare Surface and Coat		.5-Sep-2023	13-Oct-2023	1	;; 	;;; 	<b>0</b> F	repare	Surfac	e and Co	at			( <del> </del>	;; 	` <del>`</del>	
FSMEP1300	Install Fine Screens - SCR 4201, 4202 (2)	10 1	6-Oct-2023	27-Oct-2023	1			0 (	nstall F	ne Scr	ens - S0	R 420	01, 420	2 (2)				
FSMEP1350	Install Pipe Supports & Racks	10 3	0-Oct-2023	13-Nov-2023					Install F	Pipe Su	oports &	Racks	s					1 1
FSMEP1360	Install 72" PE CS Piping	10 1	4-Nov-2023	28-Nov-2023	1						C\$ Pipin							
FSMEP1380	Install 42" RAS D.I. Piping		9-Nov-2023	12-Dec-2023					Install	42" RA	S D.I. Pi	oing						
FSMEP1390	Install 30" PASS Piping		3-Dec-2023	27-Dec-2023	1:	;;	{ <del> </del>		Instal	130" PA	SS Pipir	ng			{ <u></u> ;	 		1
FSMEP1400	Install 16" PASS Piping		8-Dec-2023	11-Jan-2024					1 1	1 1	SS Pipi	F 1						
FSMEP1410	Install 8" PASS Piping		2-Jan-2024	26-Jan-2024	1				1 1	i i	S\$ Pipin	_						
FSMEP1420	Install 8" SCN D.I. Piping		9-Jan-2024	9-Feb-2024					1 1	1 1	N D.I. P	Υ 1				! ! ! !		
FSMEP1430	Install 4" SW D.I. Piping		2-Feb-2024	26-Feb-2024	1				1 1	1 1	W D.I. Pi	· ~						
FSMEP1440	Install 4" EWF D.I. Piping		7-Feb-2024	11-Mar-2024	<del> </del>						WF D.I.	:' :				 		
FSMEP1450	Install 4" - 10" EFW D.I. Piping		2-Mar-2024	18-Mar-2024	1				1 1	1 1	10" EFV	, , , ,	1 1					1 1
FSMEP1460	Install Small Bore SS / PVC Piping		9-Mar-2024	25-Mar-2024					1 1		all Bore	1 1		ng				
FSMEP1470	Install Fine Bubble Disk Diffusers		7-Mar-2024	3-Apr-2024							e Bubble	1 1						
I SIVILI 1770	I TOWN I II TO DODDIO DION DIIIUOOTO	J 2	IVIGI 2027	0 / Ipi 2027		: :	! ! !	: : :						7 !	: : :	: :	1 1	1 1

rtaii.	Build. Manage. Activity Name	Original Start	Finish	2022 2023	2024 2025 2026 2027 2028
	Activity Name	Duration	Fillisii		QQ2 Q Q Q QQ4 Q Q Q Q Q Q Q Q Q Q Q Q Q
FSMEP1370	Install 6" - 10" Foul Air Piping	10 4-Apr-2024	17-Apr-2024		Install 6" - 10" Foul Air Piping
FSMEP1490	Test Piping	5 18-Apr-2024	24-Apr-2024		I Test Piping
FSMEP1540	Coat Piping	5 25-Apr-2024	1-May-2024	7	I Coat Piping
FSMEP1480	Install Louvers	5 25-Apr-2024	1-May-2024		■ Install Louvers
FSMEP1550	Install Stair & Railings	5 2-May-2024	8-May-2024	$\dashv$ $\vdash$ $\vdash$ $\vdash$ $\vdash$ $\vdash$ $\vdash$ $\vdash$ $\vdash$	I Install Stair & Railings
FSMEP1500	Install Electrical Rough-In	15 2-May-2024	22-May-2024		Install Electrical Rough-In
FSMEP1560	Install Aluminum Gratings for Trench Drain	·	-		Install Aluminum Gratings for Trench Drain
	·	10 9-May-2024	22-May-2024		Install Flat Aluminum Panel Covers
FSMEP1570	Install Flat Aluminum Panel Covers	10 23-May-2024	6-Jun-2024		
FSMEP1520	Install Lighting	10 23-May-2024	6-Jun-2024		II Install Lighting
FSMEP1580	Install Aluminum Hatches	5 7-Jun-2024	14-Jun-2024	_	I Install Aluminum Hatches
FSMEP1600	Pull Electrical Wire & Terminate	10 7-Jun-2024	21-Jun-2024		Pull Electrical Wire & Terminate
FSMEP1590	Install Traffic Coating & Paint	10 17-Jun-2024	28-Jun-2024		I Install Traffic Coating & Paint
FSMEP1530	Install LCP, PLC & Instrumentation	20 24-Jun-2024	22-Jul-2024		☐ Install LCP, PLC & Instrumentation
FSMEP1610	Test Electrical and Controls	15 23-Jul-2024	12-Aug-2024		Test Electrical and Controls
Area 43 Process Reactor		271 23-Jan-2024	24-Feb-2025		▼ 24-Feb-2025, Area 43 Process Reactor
Ground Floor (+16')		236 23-Jan-2024	2-Jan-2025		2-Jan-2025, Ground Floor (+16')
PRMEP1290	Prepare Surface and Coat	30 23-Jan-2024	5-Mar-2024		■ Prepare Surface and Coat
PRMEP1300	Install Pipe Supports & Weirs	5 25-Apr-2024	1-May-2024		Install Pipe Supports & Weirs
PRMEP1310	Install 30" & 36" RAS D.I. Piping	32 2-May-2024	18-Jun-2024		☐ Install 30" & 36" RAS D.I. Piping
PRMEP1340	Install 16" PASS Piping	20 19-Jun-2024	17-Jul-2024		□ Install 16" PASS Piping
PRMEP1330	Install 6" - 10" EFW D.I. Piping	10 18-Jul-2024	31-Jul-2024		II Install 6" - 10" EFW D.I. Piping
PRMEP1350	Install 8" SW D.I. Piping	10 1-Aug-2024	14-Aug-2024		II Install 8" SW D.I. Piping
PRMEP1360	Install 6" Drain D.I. Piping	5 15-Aug-2024	22-Aug-2024	7	I Install 6" Drain D.I. Piping
PRMEP1370	Install 4" EFW D.I. Piping	5 23-Aug-2024	29-Aug-2024	7	I Install 4" EFW D.I. Piping
PRMEP1380	Install Small Bore Piping & Spray Nozzles	20 30-Aug-2024	27-Sep-2024	7 : : : : : : : : :	☐ Install Small Bore Piping & Spray Nozzles
PRMEP1400	Install Fine Bubble Disk Diffusers	20 30-Sep-2024	25-Oct-2024	7	☐ Install Fine Bubble Disk Diffusers
PRMEP1410	Test Piping	5 28-Oct-2024	1-Nov-2024		I Test Piping
PRMEP1440	Coat Piping	5 4-Nov-2024	8-Nov-2024	$\dashv$ $\vdots$ $\vdots$ $\vdots$ $\vdots$ $\vdots$ $\vdots$	I Coat Piping
PRMEP1430	Install Electrical Rough-In	10 4-Nov-2024	18-Nov-2024		Install Electrical Rough-In
	·				I Install Lighting & Convenience Recaptagles
PRMEP1470	Install Lighting & Convenience Recaptacles	5 19-Nov-2024	25-Nov-2024	-	
PRMEP1550	Pull Electrical Wire & Terminate	10 26-Nov-2024	10-Dec-2024		D Pull Electrical Wire & Terminate
PRMEP1560	Test Electrical & Controls	15 11-Dec-2024	2-Jan-2025	<b>_</b>	Test Electrical & Controls
Second Floor (+27')		75 4-Nov-2024	24-Feb-2025	-	24-Feb-2025, Second Floor (+27)
PRMEP1420	Install Mixers - MXR 4301, 4302 ,4303	10 4-Nov-2024	18-Nov-2024		II Install Mixers - MXR 4301, 4302, 4303
PRMEP1480	Install Inlet Stop Logs - SL 4301 A/B, 4302 A/B, 4303 A (5)	15 4-Nov-2024	25-Nov-2024		Install Inlet Stop Logs - SL 4301 A/B, 4302 A/B, 4303 A (5
PRMEP1490	Install Outlet Stop Logs - SL 4301, 4302, 4303 C-F (12)	20 26-Nov-2024	24-Dec-2024		☐ Install Outlet Stop Logs - \$L 4301, 4302, 4303 C-F (12)
PRMEP1500	Install 6" - 10" Foul Air FRP Piping & Supports	10 26-Dec-2024	9-Jan-2025	4	Install 6" - 10" Foul Air FRP Piping & Supports
PRMEP1570	Install Electrical Rough-In	10 3-Jan-2025	16-Jan-2025	_	Install Electrical Rough-In
PRMEP1510	Install Davit Cranes	5 10-Jan-2025	16-Jan-2025	_	I Install Davit Cranes
PRMEP1520	Install Traffic Coating	10 17-Jan-2025	31-Jan-2025		Install Traffic Coating
PRMEP1580	Pull Electrical Wire & Terminate	10 17-Jan-2025	31-Jan-2025		Pull Electrical Wire & Terminate
PRMEP1530	Install Aluminum Flat Covers	10 3-Feb-2025	14-Feb-2025		I Install Aluminum Flat Covers
PRMEP1590	Test Electrical & Controls	15 3-Feb-2025	24-Feb-2025		☐ Test Electrical & Controls
PRMEP1540	Install Aluminum Railings	5 18-Feb-2025	24-Feb-2025	7	I Install Aluminum Railings
Area 44 MBR Tanks		399 31-May-2024	8-Jan-2026		▼ 8-Jan-2026, Area 44 MBR Tanks
Utility Corridor (+2.5')		151 31-May-2024	8-Jan-2025		▼ 8-Jan-2025, Utility Corridor (+2.5')
		Page 20 of 27			

			Sand Island WWTP Secondary Treatment (Pha	se 1) - FINAL	BID SCHEDULE	Data Date: 11-Aug-2021
A officit (ID	Plan. B	Build. Manage.	Original Start	Tiniah	2022 2023	2024 2025 2026 2027 2028 2029
Activity ID		Activity Name	Original Start Duration	Finish		2024 2025 2026 2027 2028 2029 Q Q Q Q Q Q Q Q Q Q Q Q Q Q Q Q Q Q Q
	MBRMEP2040	Install Slide Gates - SLG 4401-4408 (8)	8 31-May-2024	12-Jun-2024		II Install Slide Gates - SLG 4401-4408 (8)
	MBRMEP2050	Install Weir Gates - WG 4311 A/B/C (3)	3 13-Jun-2024	17-Jun-2024		I Install Weir Gates - WG 4311 A/B/C (3)
	MBRMEP1460	Install Pipe Supports & Racks	40 18-Jun-2024	13-Aug-2024	-	☐ Install Pipe Supports & Racks
	MBRMEP1900	Install 36" RAS D.I. Piping	15 14-Aug-2024	5-Sep-2024		☐ Install 36" RAS D.I. Piping
	MBRMEP1960	Install 30" RAS D.I. Piping	15 6-Sep-2024	26-Sep-2024	-	II Install 30" RAS D.I. Piping
	MBRMEP2020	Install 16" PASS Piping	15 27-Sep-2024	17-Oct-2024		☐ Install 16" PASS Piping
	MBRMEP2070	Install 12" SSC D.I. Piping	40 18-Oct-2024	16-Dec-2024		☐ Install 12" S\$C D.I. Piping
	MBRMEP2030	Install Small Bore Piping	15 17-Dec-2024	8-Jan-2025		□ Install Small Bore Piping
	Second Floor (+27')	mean email belot iping	339 28-Aug-2024	8-Jan-2026		8-Jan-2026, Second Floor (+27!)
	MBRMEP1290	Prepare Surface and Coat Tanks (9)	60 28-Aug-2024	21-Nov-2024		Prepare Surface and Coat Tanks (9)
	MBRMEP2060	Install Pipe Supports & Racks	40 17-Jul-2025	12-Sep-2025		☐ Install Pipe Supports & Racks
	MBRMEP2090	Install 12" PASS & 16" PER SS Piping	15 15-Sep-2025	3-Oct-2025	7	☐ Install 12" PASS & 16" PER SS Piping
	MBRMEP2080	Install Cassettes (104)	20 6-Oct-2025	31-Oct-2025	7	☐ Install Cassettes (104)
	MBRMEP2120	Install Flat Aluminum Covers	10 6-Oct-2025	17-Oct-2025	7	Install Flat Aluminum Covers
	MBRMEP2130	Install Traffic Coating	10 20-Oct-2025	31-Oct-2025		I Install Traffic Coating
	MBRMEP2140	Install Louvered Penthouses	10 3-Nov-2025	17-Nov-2025		Install Louvered Penthouses
	MBRMEP2100	Install Electrical Rough-In	10 3-Nov-2025	17-Nov-2025		Install Electrical Rough-In
	MBRMEP2170	Final Connection to Cassettes (Ready for Testing)	15 3-Nov-2025	24-Nov-2025		■ Final Connection to Cassettes (Ready for Testing)
	MBRMEP2110	Install Aluminum Trench Drain Gratings	5 18-Nov-2025	24-Nov-2025		I Install Aluminum Trench Drain Gratings
	MBRMEP2150	Install Aluminum Railing	5 18-Nov-2025	24-Nov-2025		I Install Aluminum Railing
	MBRMEP2160	Install Lighting	10 25-Nov-2025	9-Dec-2025		0 Install Lighting
	MBRMEP2180	Pull Electrical Wire and Terminate	10 10-Dec-2025	23-Dec-2025		Pull Electrical Wire and Terminate
	MBRMEP2190	Test Electrical and Controls	10 24-Dec-2025	8-Jan-2026		Test Electrical and Controls
	Area 45 MBR Service Buildin	ng & Gallery	234 13-Aug-2024	23-Jul-2025		▼ 23-Jul-2025, Area 45 MBR Service Building & Gallery
	Intermediate Floor (+2.5)		151 13-Aug-2024	21-Mar-2025		21-Mar-2025, Intermediate Floor (+2.5)
	MBRSER1000	Install Equipment Pads	5 13-Aug-2024	20-Aug-2024		Install Equipment Pads
	MBRSER1020	Prepare Surface and Paint	5 21-Aug-2024	27-Aug-2024		I Prepare Surface and Paint
	MBRSER1050	Install Fire Protection	15 28-Aug-2024	18-Sep-2024		☐ Install Fire Protection
	MBRSER1700	Test Fire Protection	5 19-Sep-2024	25-Sep-2024		Test Fire Protection
	MBRSER1070	Install Electrical Rough-In	15 26-Sep-2024	16-Oct-2024		🗓 Install Electrical Rough-In
	MBRSER1660	Install Lighting	5 17-Oct-2024	23-Oct-2024		I Install Lighting
	MBRSER1690	Pull Electrical Wire and Terminate	15 24-Oct-2024	14-Nov-2024		Pull Electrical Wire and Terminate
	MBRSER1240	Install OH Doors	10 15-Nov-2024	29-Nov-2024		I Install OH Doors
	MBRSER1320	Install Doors & Hardware	5 2-Dec-2024	6-Dec-2024	_	I Install Doors & Hardware
	MBRSER1100	Install RAS Pumps - PUM 4501R-4508R (8)	10 9-Jan-2025	23-Jan-2025		II Install RAS Pumps - PUM 4501R-4508R (8)
	MBRSER1160	Install 20" - 30" RAS Piping, Meters & Valves	15 24-Jan-2025	13-Feb-2025	_	□ Install 20" - 30" RAS Piping, Meters & Valves
	MBRSER1010	Install 42" PER SS Piping	5 24-Jan-2025	30-Jan-2025	_	I Install 42" PER SS Piping
	MBRSER1690	Test Electrical and Controls	5 24-Jan-2025	30-Jan-2025	_	I Test Electrical and Controls
	MBRSER1030	Install Package Water Pumping System - Air Gap Tank		3-Feb-2025	_	I Install Package Water Pumping System - Air Gap Tank & Bladde
	MBRSER1040	Install 16" FLT D.I. Piping	5 4-Feb-2025	10-Feb-2025		I Install 16" FLT D.I. Piping
	MBRSER1060	Install 12" SSC D.I. Piping	5 11-Feb-2025	18-Feb-2025	-	II Install 12" SSC D.I. Piping
	MBRSER1280	Install Pipe Supports & Rack	10 14-Feb-2025	28-Feb-2025	_	■ Install Pipe Supports & Rack
	MBRSER1090	Install RAS Pump Bridge Crane	15 19-Feb-2025	11-Mar-2025		II Install RAS Pump Bridge Crane
	MBRSER1360	Install 12" WAS D.I. Piping	5 3-Mar-2025	7-Mar-2025	_	I Install 12" WAS D.I. Piping
	MBRSER1390	Install Small Bore Piping	10 10-Mar-2025	21-Mar-2025		II Install Small Bore Piping
	MBRSER1200	Install Aluminum Trench Grating	5 12-Mar-2025	18-Mar-2025		I Install Aluminum Trench Grating
	Remaining Level of Effort  Actual Level of Effort	Actual Work Critical Remaining Work  Remaining Work   Milestone	Page 21 of 27			

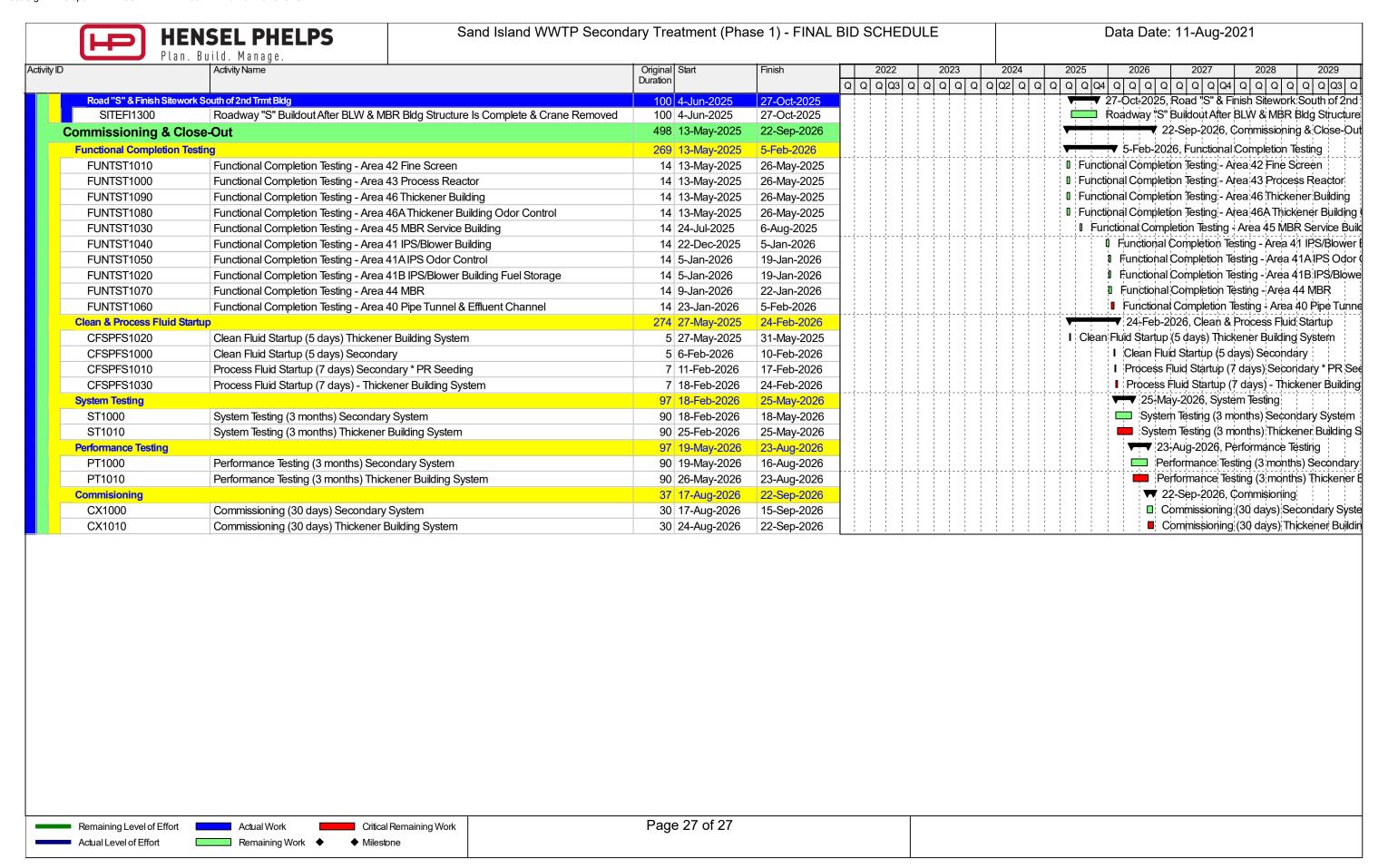
	Activity Name	Original Start	Finish	2022	2023	2024 2025 2026 2027 2028 2
		Duration		Q Q Q Q3 C		
Ground Floor (+16')		194 28-Aug-2024	9-Jun-2025			9-Jun-2025, Ground Floor (+16')
MBRSER1680	Prepare Surface and Paint	5 28-Aug-2024	4-Sep-2024			Prepare Surface and Paint
MBRSER1080	Install Fire Protection	15 26-Sep-2024	16-Oct-2024			Install Fire Protection
MBRSER1710	Test Fire Protection	5 17-Oct-2024	23-Oct-2024			I Test Fire Protection
MBRSER1130	Install Equipment Pads	5 24-Oct-2024	30-Oct-2024			I Install Equipment Pads
MBRSER1110	Install Electrical Rough-In	15 15-Nov-2024	6-Dec-2024			Install Electrical Rough-In
MBRSER1670	Install Lighting	5 9-Dec-2024	13-Dec-2024	1		I Install Lighting
MBRSER1720	Pull Electrical Wire and Terminate	15 16-Dec-2024	7-Jan-2025			Pull Electrical Wire and Terminate
MBRSER1550	Install OH Doors	10 8-Jan-2025	22-Jan-2025	1		I Install OH Doors
MBRSER1570	Install Doors & Hardware	5 23-Jan-2025	29-Jan-2025			I Install Doors & Hardware
MBRSER1450	Install Permeate Pumps - PUM 4501P-4508P (8)	10 24-Mar-2025	7-Apr-2025	1		Install Permeate Pumps - PUM 4501P-4508P (8)
MBRSER1470	Install Pipe Supports & Racks	5 8-Apr-2025	14-Apr-2025	1		Install Pipe Supports & Racks
MBRSER1730	Test Electrical and Controls	5 8-Apr-2025	14-Apr-2025			I Test Electrical and Controls
MBRSER1480	Install 42" PER SS Piping	5 15-Apr-2025	22-Apr-2025	7		I Install 42" PER S\$ Piping
MBRSER1490	Install 30" PA SS Piping	10 23-Apr-2025	6-May-2025			II Install 30" PASS Piping
MBRSER1500	Install 16" PER SS Piping	5 7-May-2025	13-May-2025	1		I Install 16" PER SS Piping
MBRSER1510	Install Small Bore Piping	10 14-May-2025	28-May-2025	1		Install Small Bore Piping
MBRSER1520	Install Weir Gates - WG 4401-4408 (8)	6 29-May-2025	5-Jun-2025	1		I Install Weir Gates - WG 4401-4408 (8)
MBRSER1530	Install Chemical Cleaning System PUM 4501-4502 A/H (4)	2 6-Jun-2025	9-Jun-2025	1		I Install Chemical Cleaning System PUM 4501-4502
Second Floor (+27')		219 5-Sep-2024	23-Jul-2025			▼ 23-Jul-2025, \$econd Floor (+27')
Blower Room 45-06		219 5-Sep-2024	23-Jul-2025			▼ 23-Jul-2025, Blower Room 45-06
MBRSER1640	Prepare Surface and Paint	5 5-Sep-2024	11-Sep-2024			Prepare Surface and Paint
MBRSER1120	Install Fire Protection	5 24-Oct-2024	30-Oct-2024			I Install Fire Protection
MBRSER1740	Test Fire Protection	5 31-Oct-2024	6-Nov-2024			I Test Fire Protection
MBRSER1140	Install Electrical Rough-In	10 7-Nov-2024	21-Nov-2024			Install Electrical Rough-In
MBRSER1170	Install Equipment Pad	5 22-Nov-2024	29-Nov-2024			Install Equipment Pad
MBRSER1620	Install Lighting	5 22-Nov-2024	29-Nov-2024			I Install Lighting
MBRSER1750	Pull Electrical Wire & Terminate	10 2-Dec-2024	13-Dec-2024			Pull Electrical Wire & Terminate
MBRSER1600	Install OH Doors	5 16-Dec-2024	20-Dec-2024			I Install OH Doors
MBRSER1610	Install Windows	10 23-Dec-2024	7-Jan-2025			I Install Windows
MBRSER1630	Install Doors & Hardware	5 30-Jan-2025	5-Feb-2025			I Install Doors & Hardware
MBRSER1760	Test Electrical and Controls (All Rooms 2nd Floor)	15 21-Feb-2025	13-Mar-2025			☐ Test Electrical and Controls (All Rooms 2nd Floor)
MBRSER1540	Install Blowers - BLW 4501-4508 (8)	10 10-Jun-2025	24-Jun-2025			Install Blowers - BLW 4501-4508 (8)
MBRSER1560	Install Air Compressor AC4500 A/B (2)	5 25-Jun-2025	1-Jul-2025			I Install Air Compressor AC4500 A/B (2)
MBRSER1580	Install 16" PER SS Piping	5 2-Jul-2025	9-Jul-2025			I Install 16" PER SS Piping
MBRSER1590	Install 12" PASS Piping	5 10-Jul-2025	16-Jul-2025			I Install 12" PASS Piping
MBRSER1650	Install Auto Sampler	5 17-Jul-2025	23-Jul-2025			I Install Auto Sampler
Communication Room 4		110 12-Sep-2024	20-Feb-2025			20-Feb-2025, Communication Room 45-08 & Corridor
MBRSER1370	Surface Prep and Paint	5 12-Sep-2024	18-Sep-2024	1		I Surface Prep and Paint
MBRSER1190	Install Fire Protection	10 31-Oct-2024	14-Nov-2024	_		Install Fire Protection
MBRSER1220	Install Electrical Rough-In	10 16-Dec-2024	30-Dec-2024			Install Electrical Rough-In
MBRSER1260	Install Ductwork & Fans	10 31-Dec-2024	14-Jan-2025			I Install Ductwork & Fans
MBRSER1770	Pull Electrical Wire & Terminate	10 31-Dec-2024	14-Jan-2025			Pull Electrical Wire & Terminate
MBRSER1310	Install Equipment Pad	10 15-Jan-2025	29-Jan-2025	1		II Install Equipment Pad
MBRSER1340	Install PLCs	15 30-Jan-2025	20-Feb-2025	_		□ Install PLCs
Electrical Room 45-07		100 19-Sep-2024	12-Feb-2025			12-Feb-2025, Electrical Room 45-07

	I (all. D)	uild. Manage. Activity Name	Original Start	Finish	2022 20	23 2024 2025 2026 2027 2028 2
		Activity Name	Duration	FILIISH		
	MBRSER1460	Surface Prep and Paint	5 19-Sep-2024	25-Sep-2024		It Surface Prep and Paint
	MBRSER1150	Install Fire Protection	5 15-Nov-2024	21-Nov-2024		I Install Fire Protection
	MBRSER1180	Install Electrical Rough-In	5 22-Nov-2024	29-Nov-2024		Install Electrical Rough-In
	MBRSER1210	Install Equipment Pad	5 2-Dec-2024	6-Dec-2024		I Install Equipment Pad
	MBRSER1420	Install Lighting	5 2-Dec-2024	6-Dec-2024		I Install Lighting
	MBRSER1250	Install Switchboard	5 9-Dec-2024	13-Dec-2024		I Install Switchboard
	MBRSER1780	Pull Electrical Wire & Terminate	10 9-Dec-2024	20-Dec-2024		Pull Electrical Wire & Terminate
	MBRSER1300	Install VFDs	5 16-Dec-2024	20-Dec-2024		I Install VFDs
	MBRSER1330	Install MCC	10 23-Dec-2024	7-Jan-2025		Install MCC
	MBRSER1400	Install OH Doors	5 8-Jan-2025	14-Jan-2025	$\dashv$ $\vdots$ $\vdots$ $\vdots$ $\vdots$ $\vdots$	I Install OH Doors
	MBRSER1430	Install Doors & Hardware	5 6-Feb-2025	12-Feb-2025		Install Doors & Hardware
1	HVAC 45-10	Install Books & Hardware	100 26-Sep-2024	20-Feb-2025		▼ 20-Feb-2025, HVAC 45-10
	MBRSER1440	Surface Prep and Paint	5 26-Sep-2024	2-Oct-2024		Surface Prep and Paint
	MBRSER1230	Install Fire Protection	5 22-Nov-2024	29-Nov-2024		I Install Fire Protection
	MBRSER1270	Install Electrical Rough-In	5 2-Dec-2024	6-Dec-2024		I Install Electrical Rough∔In
	MBRSER1290	Install Ductwork & Fans	5 9-Dec-2024	13-Dec-2024	$\dashv$ $\vdots$ $\vdots$ $\vdots$ $\vdots$ $\vdots$	I Install Ductwork & Fans
	MBRSER1350	Install Lighting	5 16-Dec-2024	20-Dec-2024		I Install Lighting
	MBRSER1380	Install Access Hatches	5 23-Dec-2024	30-Dec-2024	$\dashv$ $\vdots$ $\vdots$ $\vdots$ $\vdots$ $\vdots$	I Install Access Hatches
	MBRSER1790	Pull Electrical Wire & Terminate	10 23-Dec-2024	7-Jan-2025		Pull Electrical Wire & Terminate
	MBRSER1410	Install Doors & Hardware	5 13-Feb-2025	20-Feb-2025		I Install Doors & Hardware
	Roof (+44')	Ilistali Dools & Flatuwale	15 14-Oct-2024	1-Nov-2024		▼ 1-Nov-2024, Roof (+44')
	MBRMEP1660	Install Roof & Drains	15 14-Oct-2024 15 14-Oct-2024	1-Nov-2024		□ Install Roof & Drains
Ulti	lity Tunnel Sub-Structure	I I Stall I Col & Dialis	297 8-Nov-2024	22-Jan-2026		▼ 22-Jan-2026, Utility Tunnel Sub-Structure
	TUNMEP1290	Rub & Finish Paint Interior Utility Tunnel Walls	50 8-Nov-2024	23-Jan-2025		Rub & Finish Paint Interior Utility Tunnel Walls
	TUNMEP1310	Install Piping Support Racks	50 27-Dec-2024	11-Mar-2025		■ Install Piping Support Racks
	TUNMEP1300	Install Aluminum Stairs & Gratings @ Utility Tunnels	20 24-Jan-2025	21-Feb-2025		☐ Install Aluminum Stairs & Gratings @ Utility Tunnels
	TUNMEP1320	Install Sump Pumps 4091 & 4092 & Piping	3 24-Feb-2025	26-Feb-2025	$\dashv$ $\vdots$ $\vdots$ $\vdots$ $\vdots$ $\vdots$	I Install Sump Pumps 4091 & 4092 & Piping
	TUNMEP1330	Install 12" SSL D.I.	35 12-Mar-2025	1-May-2025		■ Install 12" SSL D.I.
	TUNMEP1340	Install 8" SW D.I.	35 2-May-2025	23-Jun-2025		Install 8"SW D.II.
	TUNMEP1350	Install 10" EFW D.I.	35 24-Jun-2025	12-Aug-2025	$\dashv$ $\vdots$ $\vdots$ $\vdots$ $\vdots$ $\vdots$	■ Install 10" EFW D.I.
	TUNMEP1360	Install 16" FLT D.I.	35 13-Aug-2025	2-Oct-2025		□ Install 16" FLT D.I.
	TUNMEP1370	Utility Tunnel Electrical, Lighting & Controls	100 28-Aug-2025	22-Jan-2026	$\dashv$ $\vdots$ $\vdots$ $\vdots$ $\vdots$ $\vdots$	Utility Tunnel Electrical, Lighting & Controls
	TUNMEP1380	Install Removable Skylights	40 26-Sep-2025	21-Nov-2025	$\dashv$ $\vdots$ $\vdots$ $\vdots$ $\vdots$ $\vdots$	Install Removable Skylights
	fluent Tunnel Sub-Structure		238 24-Dec-2024	9-Dec-2025		9-De¢-2025; Effluent Tunnel Sub-Structure
	EFFMEP1290	Prepare Surface and Coat	40 24-Dec-2024	21-Feb-2025		Prepare Surface and Coat
	EFFMEP1300	Install Stop Logs 4000A & 4000B & Slide Gates 4004 &		28-Feb-2025	$\dashv$ $\vdots$ $\vdots$ $\vdots$ $\vdots$ $\vdots$	I Install Stop Logs 4000A & 4000B & Slide Gates 4004 &
	EFFMEP1310	Install Traffic Coating	10 25-Nov-2025	9-Dec-2025		I Install Traffic Coating
	ea 46 Thickener Building	matal frame coating	394 19-Jul-2023	18-Feb-2025		▼ 18-Feb-2025, Area 46 Thickener Building
	Basement (+2.5')		212 19-Jul-2023	23-May-2024		23-May-2024, Basement (+2.5')
	Pump Room 46-01		99 14-Dec-2023	8-May-2024		8-May-2024, Pump Room 46-01
	THRMEP1650	Install Stair 1	5 14-Dec-2023	20-Dec-2023		I Install Stair 1
	THRMEP1710	Install Fire Protection	5 21-Dec-2023	28-Dec-2023	7	I Install Fire Protection
	THRMEP1750	Install HVAC Ductwork	5 29-Dec-2023	5-Jan-2024	7	I Install HVAC Ductwork
	THRMEP1810	Install Electrical Roughin	5 8-Jan-2024	12-Jan-2024		I Install Electrical Roughin
	THRMEP1850	Install TSL Pump Hoist & Carrying Beams	10 16-Jan-2024	29-Jan-2024	7	■ Install TSL Pump Hoist & Carrying Beams
	THRMEP1940	Install Progressive Cavity Pumps (PUM 4621, 4622, 46		5-Feb-2024	7	I Install Progressive Cavity Pumps (PUM 4621, 4622, 4623)
		5, ·, ·, ·, ·, ·, ·, ·, ·, ·, ·, ·, ·, ·, ·, ·, ·, ·, ·	5 55 557 202 1			

HENSEL PHELPS	Sand Island WWTP Secondary Treatment (Pr	nase 1) - FINAL	BID SCHEDULE	Data Date: 11-Aug-2021
Plan. Build. Manage. Activity Name	Original Start	Finish	2022 2023	2024   2025   2026   2027   2028   2
Activity Name	Original Start Duration	FILIISIT		Q Q Q Q Q Q Q Q Q Q Q Q Q Q Q Q Q Q Q
THRMEP2010 Install Centrifugal Pump (PUM 4631)	5 6-Feb-2024	12-Feb-2024		I Install Centrifugal Pump (PUM4631)
THRMEP2070 Install Sump Pumps (PUM 4691, 4692)	2 13-Feb-2024			I Install Sump Pumps (PUM 4691, 4692)
THRMEP2100 Install Pipe Hangers & Supports	5 15-Feb-2024			I Install Pipe Hangers & Supports
THRMEP2170 Install 12" SSL D.I.	5 23-Feb-2024			I Install 12" SSL D.I.
THRMEP2200 Install 6" BLS D.I.	5 23-rep-2024 5 1-Mar-2024	7-Mar-2024		I Install 6" BL\$ D.I.
THRMEP2240 Install 6" TPS D.I.	5 1-IVIAI-2024 5 8-Mar-2024	14-Mar-2024		I Install 6" TP\$ D.I.
THRMEP2270 Install 6" TBLS D.I.	5 o-iviai-2024 5 15-Mar-2024			I Install 6" TBLS D.I.
				I Install 4"TBLS D.I.
	3 22-Mar-2024			I Install 4" SW D.I.
	3 28-Mar-2024			। Install Small Bore Seal Water Piping
THRMEP2320 Install Small Bore Seal Water Piping	3 3-Apr-2024	5-Apr-2024		Install Control Panels & Electrical Terminations
THRMEP2340 Install Control Panels & Electrical Termination	·	19-Apr-2024		
THRMEP2370 Install Lighting	5 22-Apr-2024			I Install Lighting
THRMEP1610 Install Aluminum Trench Grating	5 29-Apr-2024	,	4	I Install Aluminum Trench Grating
THRMEP2390 Install Doors & Hardware	3 6-May-2024		<u> </u>	I Install Doors & Hardware
Solids Pipe Tunnel 46-02	211 19-Jul-2023		n Pools	22-May-2024, Solids Pipe Tunnel 46-02
THRMEP1290 Prep Surface and Paint Tunnel	5 19-Jul-2023			Surface and Paint Tunnel
THRMEP1300 Install Stair 2 (2.5'-16')	10 26-Jul-2023			ıll Stair 2 (2.5-16')
THRMEP1310 Install Fire Protection Standpipe & Main	10 9-Aug-2023			all Fire Protection Standpipe & Main
THRMEP1320 Install Electrical Rough-In	5 24-Aug-2023		I Install Electrical Rough-in	
THRMEP1340 Install Sump Pumps (PUM 4693, 4694)	2 8-Apr-2024	9-Apr-2024	_	I Install Sump Pumps (PUM 4693, 4694)
THRMEP1360 Install 3" SPD PVC	2 10-Apr-2024	· ·		I Install 3" SPD PVC
THRMEP1370 Install 10" EFW D.I.	5 12-Apr-2024	<u> </u>		I Install 10" EFW D.I.
THRMEP1390 Install 6" TBLS D.I. & Tie in from Civil	5 19-Apr-2024	· ·		I Install 6" TBLS D.I. & Tie in from Civil
THRMEP1430 Install Aluminum Trench Grating	5 26-Apr-2024			Install Aluminum Trench Grating
THRMEP1470 Install Doors & Hardware	5 9-May-2024	-		I Install Doors & Hardware
THRMEP1500 Install Lighting	5 16-May-2024			Il Install Lighting
Sludge Wetwell 10	130 7-Nov-2023			16-May-2024, Sludge Wetwell 10
THRMEP1440 Prep Surface and Coat Wetwell	10 7-Nov-2023		_	Prep Surface and Coat Wetwell
THRMEP1510 Install 6-"8" BLS D.I.	15 26-Apr-2024			■ Install 6-"8" BLS D.I.
Blend Tanks 46-03, 46-04, 46-05	120 30-Nov-2023			23-May-2024, Blend Tanks 46-03, 46-04, 46-05
THRMEP1550 Prep Surface and Coat Blend Tank 1, 2, 3	30 30-Nov-2023		_	Prep Surface and Coat Blend Tank 1, 2, 3
THRMEP1800 Install 6" PV D.I.	5 17-May-2024			I Install 6" PV D.I.
Ground Floor (16')	252 10-Oct-2023		<u> </u>	14-Oct-2024, Ground Floor (16')
Pump Room 46-08 & Polymer Containment 46-13 THRMEP1330 Install Stair 1	252 10-Oct-2023 5 10-Oct-2023		I In	14-Oct-2024, Pump Room 46-08 & Polymer Containment 40 stall Stair 1
THRMEP1350 Prepare Surface and Coat	5 17-Oct-2023 5 17-Oct-2023		_	repare Surface and Coat
·	5 24-Oct-2023			nstall Aluminum Bar Grating & Hatch
				nstall Louvers
	5 31-Oct-2023			nstall Fire Protection
	5 7-Nov-2023		_	
THRMEP1480 Install HVAC Ductwork & Supply/Exhaust F				Install HVAC Ductwork & Supply/Exhaust Fans Install Electrical Roughin
THRMEP1520 Install Electrical Roughin	5 22-Nov-2023			Install GBT Pump Hoist & Carrying Beams
THRMEP1570 Install GBT Pump Hoist & Carrying Beams	10 30-Nov-2023			
THRMEP1620 Install Progressive Cavity Pumps (PUM 460				I Install Progressive Cavity Pumps (PUM 4601, 4602, 4603, 4604)
THRMEP1660 Install In-Line Grinders (GDR 4601, 4602, 4	·	5-Jun-2024		I Install In-Line Grinders (GDR 4601, 4602, 4603)
THRMEP1700 Install Package Water System & Tanks (PN	, , , , , , , , , , , , , , , , , , ,	13-Jun-2024		I Install Package Water System & Tanks (PMR 4681, 4682)
THRMEP1740 Install Polymer Blending Skid (PMR 4601, 4	602, 4603) 5   14-Jun-2024	1 20-Jun-2024		I Install Polymer Blending Skid (PMR 4601, 4602, 4603)
Remaining Level of Effort Actual Work Critical Remaining Work ♦ Milestone	ning Work Page 24 of 27			

	Build. Manage.  Activity Name	Original	Start	Finish	2022 2023 2024 2025 2026 2027 2028
		Duration			Q Q Q Q3 Q Q Q Q Q Q Q Q Q Q Q Q Q Q Q
THRMEP1790	Install Pipe Hangers & Supports		21-Jun-2024	27-Jun-2024	I Install Pipe Hangers & Supports
THRMEP1840	Install 12" SSL D.I.		28-Jun-2024	5-Jul-2024	I Install 12" SSL D.I.
THRMEP1890	Install 12" TBLS D.I.	5	8-Jul-2024	12-Jul-2024	I Install 12" TBLS D.I.
THRMEP1930	Install 12"-16" FLT/BLS D.I.	5	15-Jul-2024	19-Jul-2024	I Install 12"-16" FLT/BLS D.I.
THRMEP2000	Install 8" SSL & SW D.I.	5	22-Jul-2024	26-Jul-2024	I Install 8" SSL & SW D.I.
THRMEP2060	Install 6" SSL D.I.	5	29-Jul-2024	2-Aug-2024	I Install 6" SSL D.I.
THRMEP2110	Install 6" BLS D.I.	3	5-Aug-2024	7-Aug-2024	I Install 6" BLS D.I.
THRMEP2160	Install 4" SW D.I.	5	8-Aug-2024	14-Aug-2024	I Install 4" SW D.I.
THRMEP2190	Install 3" SPD PVC	5	15-Aug-2024	22-Aug-2024	I Install 3" SPD PVC
THRMEP2230	Install 2" EFW SS	5	23-Aug-2024	29-Aug-2024	I Install 2" EFW SS
THRMEP2260	Install Small Bore Seal Water Piping	3	30-Aug-2024	4-Sep-2024	I Install Small Bore Seal Water Piping
THRMEP2280	Install Control Panels & Electrical Terminations		5-Sep-2024	18-Sep-2024	Install Control Panels & Electrical Terminations
THRMEP2290	Install 12"-18" Foul Air Ductwork		5-Sep-2024	18-Sep-2024	■ Install 12"-18" Foul Air Ductwork
THRMEP2330	Install Lighting		19-Sep-2024	25-Sep-2024	0 Install Lighting
THRMEP2350	Install Doors & Hardware		26-Sep-2024	30-Sep-2024	I Install Doors & Hardware
THRMEP2360	Install Overhead Door		1-Oct-2024	7-Oct-2024	I Install Overhead Door
THRMEP2380	Install Exterior Stair & Handrail		8-Oct-2024	14-Oct-2024	1 Install Exterior Stair & Handrail
Restroom 46-09	Install Exterior Stall & Haridran		31-Oct-2023	19-Dec-2023	■ 19-Dec-2023, Restroom 46-09
THRMEP1410	Install Fire Protection		31-Oct-2023	2-Nov-2023	I Install Fire Protection
THRMEP1420	Install HVAC Ductwork & Exhaust Fan		3-Nov-2023	9-Nov-2023	I Install HVAC Ductwork & Exhaust Fan
THRMEP1460	Install Electrical Roughin		13-Nov-2023	15-Nov-2023	I Install Electrical Roughin
THRMEP1490	Install Plumbing (Water & Drain)		16-Nov-2023	22-Nov-2023	Install Plumbing (Water & Drain)
THRMEP1530	Install Doors & Hardware		24-Nov-2023	28-Nov-2023	I Install Doors & Hardware
THRMEP1540	Install Floor & Wall Tile		29-Nov-2023	12-Dec-2023	I Install Floor & Wall Tile
					I Install Toilet Accessories
THRMEP1600 Second Floor (+29')	Install Toilet Accessories		13-Dec-2023	19-Dec-2023	▼ 18-Feb-2025, Second Floor (+29')
	r Room 46-10 & Vestibule 46-11		30-Nov-2023 30-Nov-2023	18-Feb-2025 2-Dec-2024	2-Dec-2024, Gravity Belt Thickener Room 46-10 &
THRMEP1580	Install Stair 1		30-Nov-2023	6-Dec-2023	I Install Stair 1
THRMEP1590	Install Aluminum Bar Grating & Hatch		7-Dec-2023	13-Dec-2023	Install Aluminum Bar Grating & Hatch
THRMEP1630	Install Fire Protection		14-Dec-2023	20-Dec-2023	I Install Fire Protection
THRMEP1670	Install HVAC Ductwork & Supply Fan		21-Dec-2023	28-Dec-2023	I Install HVAC Ductwork & Supply Fan
THRMEP1720	Install Electrical Roughin		29-Dec-2023		I Install Electrical Roughin
THRMEP1760	Install Gravity Belt Thickener (GBT 4601, 4602, 4603)			5-Jan-2024	■ Install Gravity Belt Thickener (GBT 4601, 4602, 4603)
			19-Sep-2024	30-Sep-2024	Install Pipe Hangers & Supports
THRMEP1860	Install Pipe Hangers & Supports		1-Oct-2024	7-Oct-2024	—
THRMEP1870	Install Translucent Panels (Removable - Access)		1-Oct-2024	14-Oct-2024	Install Translucent Panels (Removable - Access)
THRMEP1900	Install 6"-10" Foul Air Ductwork		8-Oct-2024	21-Oct-2024	Install 6"-10" Foul Air Ductwork
THRMEP1950	Install Exterior Stair, Handrail & Hatches		15-Oct-2024	21-Oct-2024	I Install Exterior Stair, Handrail & Hatches
THRMEP2020	Install 4" SW D.I.		22-Oct-2024	28-Oct-2024	I Install 4" SW D.I.
THRMEP2030	Install Exterior Traffic Coating on Deck		22-Oct-2024	28-Oct-2024	I Install Exterior Traffic Coating on Deck
THRMEP2080	Install 2" EFW SS		29-Oct-2024	4-Nov-2024	■ Install 2" EFW SS
THRMEP2120	Install Control Panels & Electrical Terminations		5-Nov-2024	19-Nov-2024	I Install Control Panels & Electrical Terminations
THRMEP2210	Install Lighting		20-Nov-2024	26-Nov-2024	I Install Lighting
THRMEP2250	Install Doors & Hardware		27-Nov-2024	2-Dec-2024	I Install Doors & Hardware
Electrical Room 46-12			14-Dec-2023	19-Mar-2024	19-Mar-2024, Electrical Room 46-12
THRMEP1640	Install Fire Protection		14-Dec-2023	20-Dec-2023	I Install Fire Protection
THRMEP1690	Install Manual Transfer Switch (MTS)	5	21-Dec-2023	28-Dec-2023	I Install Manual Transfer Switch (MTS)

		uild. Manage. Activity Name	Original	Start	Finish	2022 2023	2024   2025   2026   2027   2028   2
		, restry rame	Duration		1		
	THRMEP1730	Install Switchboard 4611 A/B	5	29-Dec-2023	5-Jan-2024		Install Switchboard 4611 A/B
	THRMEP1770	Install MCC 4611		8-Jan-2024	12-Jan-2024	7	I Install MCC 4611
	THRMEP1820	Install PLC 4601		16-Jan-2024	22-Jan-2024	7	I Install PLC:4601
	THRMEP1880	Install Panelboards LP 4611 A/B, DP 4611 A/B		23-Jan-2024	29-Jan-2024	7	I Install Panelboards LP 4611 A/B, DP 4611 A/B
	THRMEP1910	Install GBT & Wetwell Pump VFDs (4601, 4602, 4603, 4604		30-Jan-2024	5-Feb-2024	7	I Install GBT & Wetwell Pump VFDs (4601, 4602, 4603, 4604)
	THRMEP1960	Install GBT Control Panels 1, 2, 3		6-Feb-2024	12-Feb-2024		I Install GBT Control Panels 1, 2, 3
	THRMEP2040	Install Mini Power Centers 4611 A/B		13-Feb-2024	20-Feb-2024	_	I Install Mini Power Centers 4611 A/B
	THRMEP2090	Install Electrical Roughin		21-Feb-2024	27-Feb-2024	7	I Install Electrical Roughin
	THRMEP2130	Terminate Electrical & LV		28-Feb-2024	12-Mar-2024		Terminate Electrical & LV
	THRMEP2140	Install HVAC Ductwork		28-Feb-2024	5-Mar-2024	_	I Install HVAC Ductwork
	THRMEP2180	Install Package AC Units		6-Mar-2024	12-Mar-2024		Install Package AC Units
	THRMEP2220	Install Translucent Panel, Doors & Hardware		13-Mar-2024	19-Mar-2024	_	I Install Translucent Panel, Doors & Hardware
	Blend Tank Deck			5-Nov-2024	18-Feb-2025		18-Feb-2025, Blend Tank Deck
	THRMEP1560	Install Mixers (4621, 4622, 4623)		5-Nov-2024	26-Nov-2024		□ Install Mixers (4621, 4622, 4623)
	THRMEP1680	Install 12" Foul Air Ductwork		27-Nov-2024	18-Dec-2024	_	□ Install 12" Foul Air Ductwork
	THRMEP1830	Install Electrical Rough-In & Terminate		19-Dec-2024	10-Jan-2025		Install Electrical Rough-In & Terminate
	THRMEP1970	Install Hatches		13-Jan-2025	3-Feb-2025	_	Install Hatches
	THRMEP2150	Install Exterior Traffic Coating on Deck		4-Feb-2025	18-Feb-2025		Install Exterior Traffic Coating on Deck
	Roof (44')	Install Exterior frame Codding of Deck		3-Dec-2024	23-Jan-2025	<b>-</b>	23-Jan-2025, Roof (44')
	THRMEP1780	Install TPO Roofing on Rigid Insulation		3-Dec-2024	23-Dec-2024	<mark>-</mark>	☐ Install TPO Roofing on Rigid Insulation
	THRMEP1920	Install Aluminum Coping & Ladder		24-Dec-2024	31-Dec-2024		I Install Aluminum Coping & Ladder
	THRMEP1980	Install PV Panels		2-Jan-2025	8-Jan-2025		I Install PV Panels
	THRMEP1990	Install Down Spouts & Splash Blocks		2-Jan-2025	8-Jan-2025	_	Install Down Spouts & Splash Blocks
	THRMEP2050	Apply Water Repellent Coating to Exterior Walls		9-Jan-2025	23-Jan-2025		Apply Water Repellent Coating to Exterior Walls
Δ	rea 46A Thickener Bldg Odd			30-Jul-2024	3-Feb-2025		▼ 3-Feb-2025, Area 46A Thickener Bldg Odor Control
	THRODR1290	Install Structural Steel		30-Jul-2024	12-Aug-2024		Install Structural Steel
	THRODR1300	Apply Traffic Coating		13-Aug-2024	20-Aug-2024	7	Apply Traffic Coating
	THRODR1310	Install Pumps (OCP 4631, 4632)		5-Nov-2024	12-Nov-2024	7	I Install Pumps (OCP 4631, 4632)
	THRODR1320	Install Fans (OCF 4631, 4632)		13-Nov-2024	19-Nov-2024	7	■ Install Fans (OCF 4631, 4632)
	THRODR1330	Install BTF Tanks (OCU 4631A, 4632A)		20-Nov-2024	26-Nov-2024	7	I Install BTF Tanks (OCU 4631A, 4632A)
	THRODR1340	Install Activated Carbon Tanks (OCU 4631B, 4632B)		27-Nov-2024	4-Dec-2024		I Install Activated Carbon Tanks (OCU 4631B, 4632B)
	THRODR1350	Install Small Bore Piping & Instrumentation		5-Dec-2024	11-Dec-2024	7	I Install Small Bore Piping & Instrumentation
	THRODR1360	Install Nutrient Dosing Panels		12-Dec-2024	18-Dec-2024	_	I Install Nutrient Dosing Panels
	THRODR1370	Install 18"-24" Foul Air Ductwork		19-Dec-2024	26-Dec-2024	_	I Install 18"-24" Foul Air Ductwork
	THRODR1380	Install Electrical Roughin		27-Dec-2024	3-Jan-2025	7	Install Electrical Roughin
	THRODR1390	Terminate & Test Power and Controls		6-Jan-2025	10-Jan-2025		I Terminate & Test Power and Controls
	THRODR1400	Biological Acclimation Period		13-Jan-2025	3-Feb-2025		☐ Biological Acclimation Period
	THRODR1410	Install Lighting		13-Jan-2025	17-Jan-2025		I Install Lighting
Finis	sh Site Work By Areas			22-May-2025	24-Dec-2025		24-Dec-2025, Finish Site Work By Areas
	ITEFI1320	Overall Site Punch & Signoff w/ ENV		26-Nov-2025	24-Dec-2025		Overall Site Punch & Signoff w/ ENV
	nish Sitework @ Thickener	<u> </u>		22-May-2025	17-Sep-2025		▼ 17-Sep-2025, Finish Sitework @ Thickener Buill
	A1000	Site Finishes & Crane Pads @ Thickener Bldg		22-May-2025	17-Sep-2025		Site Finishes & Crane Pads @ Thickener Bldg
R	oad "U" & Finish Sitework W			19-Jun-2025	13-Oct-2025		13-Oct-2025, Road "U" & Finish Sitework West
	SITEFI1310	Roadway "U" Buildout After BLW Bldg Structure Is Complete		19-Jun-2025	13-Oct-2025		Roadway "U" Buildout After BLW Bldg Structure
R		ework North of 2nd Trmt Bldg		4-Jun-2025	25-Nov-2025		▼ 25-Nov-2025, Roads "K" & "W" & Finish Sitew
	SITEFI1290	Roadway "K & W" Buildout After BLW & MBR Bldg Structure		4-Jun-2025	25-Nov-2025		Roadway "K & W" Buildout After BLW & MBR
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# Subcontract Section E Special Provisions - Abatement Subcontracts

1. In addition to the indemnification requirements in Article 22 of Section D, the Subcontractor expressly agrees to indemnify, defend and hold harmless the Indemnitees from and against any and all liability, claims, losses, damages, causes of action, costs and expenses (including attorneys' fees) for personal injury or the death of any person, including but not limited to employees of the Subcontractor; property damage, including loss of use thereof; economic loss; fines or penalties; environmental response actions resulting from releases discharges, emissions, spills, storage, handling, or disposal of, or any other acts or omissions concerning hazardous materials or otherwise; arising or allegedly arising from the work performed by the Subcontractor or for the Subcontractor's account under this Subcontract, including any claim or liability arising from any act, error, omission, or negligence of the Contractor occurring concurrently with that of the Subcontractor or contributing to any loss indemnified hereunder, except for the sole negligence or willful misconduct of the Contractor. This indemnity shall survive termination or expiration of this Subcontract.

"Environmental Response Action" means, without limitation, any response action, including removal and remediation action, within the meaning of the Comprehensive Environmental Response, Compensation and Liability Act ("CERCLA"); any corrective action within the meaning of the Resource Conservation and Recovery Act ("RCRA"); and any other investigation, analytical service, remedial or clean-up action under any other environmental laws.

"Hazardous Materials" includes, without limitation, hazardous substances, pollutants and contaminants within the meaning of CERCLA; hazardous waste within the meaning of RCRA; and hazardous material, acutely hazardous waste, radioactive waste, toxic substances, pollutants or contaminants under any applicable environmental laws. The term includes crude oil or refined petroleum products such as oil, gasoline or other petroleum-based fuels.

- 2. In addition to the insurance requirements specified in Article 39 of Section D, Subcontractor shall provide and maintain, and ensure that each sub-subcontractor provides and maintains, at all times during the performance of this Subcontract, and for such extended time as provided herein, the following insurance:
  - a. Environmental/Pollution Liability Insurance in the amount of \$5,000,000 covering the term of the Project duration and extended by renewal or otherwise to cover a subsequent claim period of ten (10) years after the final completion of the Project. Coverage shall include all Project sites, off-site, and transportation exposures related to Subcontractor's performance and completion of the Work. The Contractor, Indemnitees, and any other party requested by Owner shall be named as additional insureds. The policy shall be endorsed to stipulate that the insurance afforded the additional insureds shall apply as primary insurance and that any other insurance or self-insurance maintained by Contractor or Owner shall be excess only and shall not be called upon to contribute with this insurance.
  - b. If Subcontractor's work requires the removal of hazardous materials from the Project site, Subcontractor's Automobile Liability Insurance coverage must be amended to include (1) pollution liability coverage applicable to bodily injury and property damage arising from all hazardous waste hauling, and (2) the MCS90 endorsements.

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