

To: Michael Rezk, P.E., PMP

Principal Engineer

From: Ryan Hagaman, PMP, LEED AP; Preconstruction Manager

Greg Roy, P.E.; Project Manager

Suzanne Mechler, P.E., Client Service Leader

Mahendra Balkaran, P.E., PMP; Assistant Preconstruction Manager

Jeffrey James; Lead Estimator

Date: November 10, 2025

Subject: Delray Beach Membrane Treatment Plant PDB Project GMP

Dear Mr. Rezk:

CDM Smith wants to thank you for the opportunity to submit to the City of Delray Beach the Guaranteed Maximum Price (GMP) package for the Delray Beach Membrane Water Treatment Plant Progressive Design Build Project in the amount of \$228,924,854. The package includes the following items:

- 1. Summary of GMP Costs
- 2. Basis of GMP
- 3. General Conditions
- 4. Engineering Services During Construction
- 5. Schedule
- 6. Risk Register
- 7. Bid Analysis

Sincerely,

Ryan Hagaman Senior Vice President

CDM Smith Inc.

Cc: Tommy Floyd, CDM Smith, Inc.

City of Delray Beach Membrane Water Treatment Plant Delray Beach, Florida Progressive Design-Build



\$287,437,169

CDM Smith										
Electronic Date:	Т	hursday, November 6, 2025								
Electronic Date: Guaranteed Maximum Price (GMP) BIRECT COST S1: Builders Risk Insurance General Liability Design-Builder Bonds Design-Builder OH&P (11.5%) Design-Builder OH&P (11.5%) Design Builder Contingency Tarriffs (Owner Allowance) Building Permit Fees (Owner Allowance) FPL Direct Cost Fees (Owner Allowance) FPU Gas Main Installation (Owner Allowance) Natural Gas Generator System, Electrical and Mechanical (Owner Allowance) Raw Water Quality Improvement Efforts (Owner Allowance) General Conditions Engineering Services During Construction Total S226 Previous Commitments Related to the Project And Part of this Agreement: Phase 1 Services EPP-1 Early Procurement DIW ESDCs Amendment No 2										
	DIRECT COST	\$117,527,597								
	Builders Risk Insurance	\$1,199,40								
	General Liability	\$2,289,24								
	Design-Builder Bonds	\$3,798,74								
	Design-Builder OH&P (11.5%)	\$14,353,72								
	Design Builder Contingency	\$24,495,24								
	Tarriffs (Owner Allowance)	\$2,230,000								
	Building Permit Fees (Owner Allowance)	\$23,973								
	FPL Direct Cost Fees (Owner Allowance)	\$446,000								
	FPU Gas Main Installation (Owner Allowance)	\$238,29								
Natural Gas Gen	nerator System, Electrical and Mechanical (Owner Allowance)	\$7,805,000								
	Raw Water Quality Improvement Efforts (Owner Allowance)	\$21,185,00								
	General Conditions	\$22,953,22								
	Engineering Services During Construction	\$10,379,39 3								
	Total	\$228,924,85 4								
Previ	ious Commitments Related to the Project And Part of this Agreer	nent:								
	Phase 1 Services	\$15,782,309								
	EPP-1 Early Procurement	\$9,952,638								
		\$2,886,02								
	Amendment No 2	\$291,347.00								
	Total of Various Project Components	\$28,912,315								
Oth	ner Commitments Related to the Project Not Part of this Agreeme	ent:								
	DIW1 and 2 and Monitoring Well	\$29,600,00								
	Total of Various Droingt Commencert	#30 < 30 30 A								
	Total of Various Project Components	\$29,600,000								

TOTAL PROJECT VALUE

Attachment 2

Basis of GMP



Introduction

The City of Delray beach contracted CDM Smith (CDM Constructors Inc) for the progressive-design build of a new membrane treatment system at the City's existing lime softening water treatment plant. The new membrane water treatment plant will have an initial minimum treatment capacity of 14 million gallons per day (MGD) and flexibility to expand treatment capacity to 25 MGD of finished water. The project includes construction of six (6) new raw water supply wells to replace existing non-performing wells, a deep injection well for concentrate disposal (which is not part of this GMP), and the rehabilitation of 11 existing wells.

Guaranteed Maximum Price (GMP) for the construction, engineering services during construction and startup of the Project is \$228,924,854 and is based on the following:

General Assumptions & Clarifications

- I. Subcontractor and vendor bids are valid through December 31, 2025. Design-Builder reserves the right to adjust the GMP if the Amendment is not executed by December 20th, 2025 to allow for the issuance of contracts to subcontractors & vendors to secure pricing.
- II. Cost escalation due to public posting of the subcontractor and supplier quotations is excluded. DESIGN-BUILDER reserves the right to modify the GMP if Subcontractor or Vendor quotes are exposed prior to Notice to Proceed (NTP).
- III. DESIGN-BUILDER will perform all General Conditions Costs for the lump sum amount of \$22,953,229 which is included as part of GMP. General Conditions includes all CDM Smith Construction Management labor including:
 - a. Project Management, Project Supervision, Health & Safety, Project Controls, Procurement, Accounting, Administrative, and Executive Management, and other staff required to execute the GMP.
 - b. CDM Smith management equipment including computers, cell phones, and vehicles is included.
 - c. Travel and housing for project delivery is included.
- IV. DESIGN-BUILDER will be paid for all Engineering Services During Construction on a Fixed Price Basis in Accordance with the Agreement. The value of Engineering Services During Construction is estimated to be \$10,379,391 and is included in the total GMP.
- V. Builders Risk Insurance, General Liability Insurance, and Design-Builder Bonds are included in the GMP for the lump sum value of \$7,287,752. DESIGN-BUILDER shall invoice the Owner for Bonds and Insurance at \$7,287,752 plus 11.5% markup.
- VI. CDM Constructors Inc. Payment & Performance Bonds are included for the value of construction only.
- VII. Building Permits are excluded from the GMP. An Owner Allowance is included for the permits listed in the Permits section below. No other permits are included.
- VIII. Design-Builder shall not be responsible for any delays in obtaining permits relating in any way that are beyond its direct control or that are/were handled by independent third parties. Any agency delays in completing the review(s) shall be an excusable delay for the Design-Builder and may be eligible for additional compensation pursuant to the terms of the agreement.

- IX. The GMP includes a Design Builder Contingency of \$24,495,241 within the GMP in accordance with Section 6.5.3 of the AGREEMENT. DESIGN-BUILDER shall have access to the contingency in accordance with the AGREEMENT. Total Contingency estimate is inclusive of markup and Design-Builder shall be entitled to markup on contingency costs actually occurred in accordance with the Agreement. The Risk Register is included in this GMP Submission and includes many of the known risks identified at this stage of the project. However, the Risk Register is not a line-item contingency and instead is meant to roughly quantify the expected risks on the overall project. Contingency shall be utilized for the risks and at the values as they occur. This GMP proposal does not include an Owner Contingency outside of the above-described costs. The GMP includes a Contingency which is available for the Design-Builder's exclusive use for unanticipated cost it has incurred that are not the basis for a change order under the Contract Documents. By way of example, and not as a limitation, such cost may include: (a) trade buyout differentials; (b) overtime or acceleration; (c) escalation of materials; (d) correction of defective, damaged or nonconforming work, design omissions, which are not caused by the negligent acts/omissions of the Design-Builder, subcontractor defaults or (f) delays beyond the control of the Design-builder that result in an extension of the Schedule but do not result in an increase in the Contract Price. The contingency is not available to Owner for any reason, including, but not limited to changes in scope or any other item which would enable Design-Builder to increase the GMP under the Contract Documents. Design-Builder shall provide Owner notice of all anticipated charges against the Contingency and shall provide Owner as part of the monthly Owners' meeting, including all reasonably foreseen uses or potential uses of the Contingency in the upcoming three (3) months. Design-Builder agrees that with respect to any expenditure from the Contingency relating to a Subcontractor default or an event for which insurance or bond may provide reimbursement, Design-Builder will in good faith exercise reasonable steps to obtain performance from the Subcontractor and /or recovery from any surety or insurance company. Design-Builder agrees that if Design-Builder is subsequently reimbursed for said costs, then said recovery will be credited back to the Contingency.
- X. DESIGN-BUILDER will be paid for all direct and indirect cost of construction incurred as part of the administration of the project in accordance with the AGREEMENT and will receive 11.5% markup on all costs. Costs include all Subcontractors, Vendors, Materials Suppliers, Equipment Suppliers, Construction Rentals, small tools, etc. as required to construct the project.
- XI. Sales taxes are included.
- XII. No consideration for contaminated groundwater/soils or hazardous materials is included (i.e., asbestos, lead, etc.).
- XIII. This GMP is based on the 60% design documents. The true up process will occur with the delivery of the Issued for Construction documents where the successful bidder will be given the opportunity to revisit the cost impacts of any changes due to design progression or requirements from the permitting agencies. Any resulting cost impacts will be billed against the construction contingency unless subject to a change order.
- XIV. Design-Builder does not guarantee either the output or depth of any production wells. In the event that wells are required to be drilled deeper than assumed per the design documents due to subsurface conditions then the Design-Builder shall be entitled to a change to the GMP.
- XV. Design-Builder is not responsible for any dirt or debris in the clearwell.
- XVI. During construction CDM Smith will provide an average of 8 hours of operations service, every calendar day over 4.5 months, with 2 hours of on-call services each day. When the City is operating the WTP during the 2nd and 3rd shift, CDM Smith operators will be available for calls to assist with any challenges. During final development of the start-up and commissioning plan, division of operations and staff requirements will be coordinated. Throughout all construction, the City will remain the licensee on

the permit to operate the existing and new water plants. CDM Smith will provide operations training and assistance for the City's operations staff prior to and during commissioning of the new WTP. CDM Smith will be responsible for start-up and commissioning in compliance with the Contract Documents, permits, and the final start-up and commissioning plan (to be developed with the City). The City will remain responsible for permit compliance.

XVII. PRE COMMISSIONING RAW WATER QUALITY REQUIREMENTS

Prior to loading membrane elements in the first unit for Performance Acceptance Testing (PAT), the full-scale cartridge filters shall operate successfully, without replacing cartridge filters, for a duration acceptable to the CITY. In addition, the raw water quality from a representative blend of all 4 well fields shall be within or close to, as agreed to by the CITY and the Design-Builder, the limits defined below. The start date for PAT shall be as defined in the P6 schedule, provided in the approved GMP 2 package.

- SDI Less than or equal to 4
- DO Less than 1.0 mg/l

Four consecutive weekly samples per parameter will be averaged to confirm compliance with the raw water quality requirements. Weekly sampling may continue until the average of the latest four consecutive weeks meets the criteria.

Pilot testing has yet to be conducted to define the site-specific minimum water quality characteristics necessary to successfully operate the full-scale membrane plant. The Design-Builder will re-assess the SDI and DO limits defined above and would consider adjusting these values to expedite the commencement of commissioning.

If the testing reveals that the criteria above has not been met, the Design-Builder will promptly meet with the CITY to determine a course of action including scheduling of the PAT. If the raw water quality parameters above are not met and the project schedule or GMP costs including engineering and general conditions costs are impacted, subject to the Owner's Approval which shall not be unreasonably withheld, Design-Builder shall be entitled to schedule relief and shall have access to the Raw Water Quality Allowance toward additional cost impacts, if not already accessed previously.

Owner Furnished Equipment and Materials

- I. Owner shall provide all chemicals and electricity as required for startup and operations of the facility.
- II. Owner shall provide all furniture required for the facility.
- III. Sales taxes are included in the GMP. Owner may utilize the Owner Direct Purchase Order (ODPO) Program to procure equipment, however, Owner shall notify Design-Builder of which packages Owner wishes to include in the ODPO program within one week of NTP and the program shall only be utilized for packages valued over \$1,000,000

Design-Builder Self Performance

I. DESIGN-BUILDER shall self-perform the Raw Water Main installation, Process Electrical and Instrumentation scopes of work on a lump sum basis in accordance with the GMP bid. The total value paid to DESIGN-BUILDER for the Process Electrical & Instrumentation work shall be the bid value plus a 11.5% markup, equating to \$19,610,012.33. The total value of paid to the to DESIGN-BUILDER for the Raw Water Transmission main work shall be the bid value plus a 11.5% markup, equating to \$1,262,509. Self-performed work shall be "trued up" with the Issued For Construction (IFC) design documents similar to other subcontracted bid packages. Detail cost breakdowns of any true up costs shall be provided by Design-Builder to Owner.

Allowances

- I. Owner and Design-Builder agree that certain items of Work should be treated as an allowance. Design-Builder and Owner have worked together to review the Allowance Items and Allowance Values based on available design information to determine that the Allowance Values constitute reasonable estimates for the Allowance Items. Nothing herein is intended in any way to constitute a guarantee by Design-Builder that the Allowance Item in question can be performed for the Allowance Value.
- II. The allowance value for an Allowance Item for which the Design-Builder will be entitled to receive compensation includes direct cost of labor, materials, equipment, transportation, taxes and insurance ("Costs") associated with the Allowance Item. Design fees, general conditions costs and Fee associated with the Allowance Items are included in the Contract Price.
- III. Whenever the actual Costs for an Allowance Item is more than or less than the stated Allowance Value for that Allowance Item, the Contract Price shall be adjusted accordingly by Change Order. The amount of the Change Order shall reflect the difference between actual Costs incurred by Design-Builder for the particular Allowance Item and the Allowance Value plus Fee.
- IV. Given the nature of the allowances being driven by uncertainties outside of Design-Builder's control and noting that the Allowances will ultimately be implemented as Cost of Work per the Agreement, the Design Builder shall be entitled to markup all direct costs in as part of the final value of the Allowance. Further, if there are design or General Conditions costs associated with the ultimate implementation of the Allowance, Design Builder shall be entitled to those costs as part of the final value of the Allowance.
- V. Owner Allowances are inclusive of Design-Builder markup (the allowance is comprised of the direct cost-plus indirect costs including Design-Builder markup), and Design-Builder shall be entitled to markup on all direct and indirect costs actually incurred following approval from the Owner to utilize the Allowance.
- VI. The Raw Water Treatment Allowance is intended to allow the Design-Builder and Owner to work together to implement efforts to improve the quality of the raw water to within acceptable tolerances. The items contemplated within the Allowance do not guarantee of future water quality results. The scope included within the Allowance consists of certain improvements to existing equipment and facilities, specifically mechanical and ice pigging including launching and receiving stations and a flushing port at the water treatment plant. This work will include a test to confirm that recovery water return is not entering the northern pilot tap and feed. If, following contemplated scope to improve influent water quality, additional work or full-scale pretreatment is required to meet required water quality requirements to support proper treatment plant operations, such additional work will require additional efforts, engineering and general conditions, as well as extending the project schedule. Such additional work, if necessary, will be performed either pursuant to an Amendment to the Agreement, addressing the additional efforts and time, or under a different contract.

Start-up and Testing

Startup and Commissioning assumes 10 weeks for operational readiness and functional testing, 10
weeks performance testing, and 4 weeks commission. Any further start up or commissioning efforts,
such as retesting, are not included within the GMP.

Domestic Preference

- I. No Buy American/Buy America provision included.
- II. No American Iron and Steel Act included.
- III. Design-Builder's cost and time for performance of its work are based upon the applicable laws and regulations, including tariffs, duties, and trade restrictions (hereinafter referred to as "Tariffs") in effect at the time of signing the Agreement. The parties acknowledge that there has been discussion among various national governments about significant changes to existing Tariffs and/or the imposition of new Tariffs for certain goods and materials. The amount, timing and impact of such changes to the acquisition of goods and materials and/or products and services is unknown at the time of signing this Agreement and, as such, the parties acknowledge and agree that Design-Builder has not included in its price or schedule the cost or schedule impact of such unknown and unquantifiable risk. The parties further agree that Design-Builder shall be entitled to a Change Order increasing the contract price and extending the contract time if and to the extent that any changes to existing Tariffs or any new Tariffs result in increased costs or project delays.

Wage Determination

I. No Davis Bacon wage rates included.

Standard Working Hours

I. All Work will be performed between 7:00 a.m. and 7:00 p.m. any day of the week, not including Saturdays, Sundays, or Legal Holidays unless authorized by Owner or Owner's Representative. However, emergency work or work needing to be completed to maintain the structural integrity of the well, such as casing installation and grouting, may be performed beyond 7:00 p.m. to the extent that these activities are complete without prior permission. Upon agreement with Owner or Owner's Representative, work on Saturdays, Sundays, and/or Legal Holidays will be allowed upon Design-Builder providing written request to the Owner.

Equal Business Opportunity Program

I. The GMP is not required to comply with the project's SBE Subcontracting requirements. The City explored opportunities to obtain state funding for this project; however, due to numerous emergency disaster recovery efforts, particularly hurricane-related damages in South Florida, no state funding was available. Incorporating state or federal funding requirements would have increased the construction cost due to additional General Conditions and compliance obligations associated with those funding sources.

Funding Sources

I. The City did apply for State Revolving Fund (SRF) and similar state funding for this project. Unfortunately, due to the redirection of available funds toward emergency disaster recovery efforts, including hurricane response in South Florida, no state funding was available. As a result, the project is proceeding without SRF or similar funding. Additionally, incorporating state or federal funding requirements would have raised the overall construction cost due to the added General Conditions and compliance obligations required under those funding programs.

Substantial Completion

I. Substantial completion shall be accomplished on the date when the work, or agreed upon portion of the work, is sufficiently complete in accordance with the Contract Documents so that the Owner is able to occupy and use the Project or a portion thereof to accomplish the objectives stated in the Basis of

Design Report. Ancillary items such as landscaping, sidewalks, interior finishes, punchlist items, or O&M Manuals which do not impact the purpose of the facility shall not be required as a predecessor of Substantial Completion.

Permits

I. Design Builder shall not be responsible for any delays in obtaining permits relating in any way that are beyond its direct control or that are/were handled by independent third parties. Any agency delays in completing the review(s) beyond the stipulated timeframes stated below shall be an excusable delay for the Design-Builder and may be eligible for additional compensation pursuant to the terms of the agreement.

Permit	Agency	Review Period (Calendar Days from application submittal to permit receipt)
Site Development Permit	City of Delray Beach	90
Air Emissions Permit	Florida Department of Environmental Protection	180
Building Permit (any single prime or sub-permit)	City of Delray Beach	60

Design Drawings And Specifications

- I. The GMP is based on the 60% / Issued for Bid specifications dated April 2025.
- II. The GMP is based on the 60% / Issued for Bid drawings dated April 2025.

Attachment 3

General Conditions





GC REPORT

CLIENT NAME: City of Delray Beach

PROJECT NAME: Membrane Water Treatment Plant

PROJECT MANAGER: Greg Roy
PROJECT NUMBER: 291242

REV44 09-13-.

Cost Item Takeoff Quantity Labor Manhours Material Amount Other Amount **Total Unit Cost Total Amount** Labor Rate Labor Amount **Equip Amount Sub Amount** PRELIM/PRECON SERVICES STAFFING **PRELIM** PROJECT MANAGEMENT STAFF 328.65 hr \$ 28,921 \$ 1,481 \$ 2,763.87 /wk 30,403 Area Leader 11 /wk 88 mh \$ \$ \$ 7,407 Precon Mgr 127.527 11 /wk 440 mh \$ 273.00 hr 120.120 \$ \$ \$ 11.593.33 /wk \$ \$ ---\$ 7.407 Sr Project Mgr 11 /wk 440 mh 192.15 hr \$ 84.546 \$ _ \$ _ \$ _ \$ 8.359.33 /wk \$ 91,953 Assistant PM 11 /wk 440 mh \$ 171.15 hr \$ 75,306 \$ \$ 375 \$ \$ -\$ 6,880.09 /wk \$ 75,681 Elec Delivery Lead 11 /wk 220 mh 203.70 hr \$ 62,351 \$ -\$ 188 -\$ -\$ 5,685.31 /wk \$ 62,538 I&C Mgr 11 /wk 220 mh 210.00 hr \$ 52.998 \$ \$ 188 \$ \$ 4,835.07 /wk \$ 53,186 Project Account 11 /wk 110 mh 145.95 hr 16.055 \$ \$ 94 \$ \$ \$ 1.468.02 /wk \$ 16,148 \$ VDC Mgr 11 /wk 110 mh 145.95 hr \$ 16,055 \$ - \$ 94 \$ -\$ -\$ 1,468.02 /wk 16,148 11 /wk 375 \$ 45,189 Lead Procurement 440 mh 101.85 hr \$ 44,814 \$ - \$ -\$ -4,108.09 /wk 11 /wk 94,725 440 mh 198.45 hr 87,318 \$ 7,407 \$ 8,611.33 /wk Sr Procurement Mgr \$ ---PROJECT MANAGEMENT STAFF 11 /wk 2948 mh 588,483 25,014 55,772.47 /wk 613,497 FIELD STAFF Construction Mgr 11 /wk 88 mh 262.50 hr \$ 23,100 \$ - \$ 1,481 -\$ -2,234.67 /wk 24,581 11 /wk 220 mh 218.40 hr \$ 48,048 \$ \$ 3,703 _ \$ -\$ 4,704.67 /wk 51,751 General Super Regional H&S Mgr 11 /wk 88 mh 267.75 hr \$ 16,211 \$ \$ 1,481 \$ 1,608.41 /wk \$ 17,693 _ \$ Constr Specialist 2 11 /wk 440 mh 130.20 hr \$ 57,288 \$ \$ 7,407 \$ _ \$ 5,881.33 /wk \$ 64,695 Constr Specialist 3 11 /wk 440 mh 150.38 hr \$ 66,168 \$ 7,407 \$ \$ 6,688.57 /wk 73,574 \$ 1,481 Sr QC Mgr 11 /wk 88 mh \$ 267.75 hr \$ 24,940 -\$ -\$ -\$ 2,401.97 /wk \$ 26,422 FIELD STAFF \$ 235,755 22,961 -23,519.62 /wk 258,716 11 /wk 1364 mh **ESTIMATING** Estimator 11 /wk 110 mh 241.50 hr \$ 14,029 \$ -\$ 1.266 \$ -\$ 1,390.42 /wk 15,295 \$ Lead Estimator 11 /wk 241.50 hr 26,565 \$ 1,266 \$ 2,530.06 /wk 27,831 110 mh ERVICE Flec Estimator 11 /wk 110 mh 243.60 hr 19 329 \$ \$ 1.266 \$ 1.872.22 /wk \$ 20.594 \$ ---\$ Chief Estimator 11 /wk 110 mh 262.50 hr \$ 28.875 \$ _ \$ 1.266 _ \$ _ \$ 2,740.06 /wk \$ 30,141 Estimating Mgr 11 /wk 44 mh 297.15 hr \$ 12,470 \$ -\$ 506 -\$ -\$ 1,179.68 /wk \$ 12,976 **ESTIMATING** 11 /wk 484 mh \$ 101,268 -\$ 5,569 -9,712.45 /wk 106,837 S PROJECT CONTROLS $\frac{8}{2}$ Project Controls Mgr 220 mh 241.50 hr 53 130 188 4 847 05 /wk 53.318 11 /wk \$ \$ -PROJECT CONTROLS 53.130 188 4.847.05 /wk 53.318 **ELIMA** 11 /wk 220 mh -**CLERICAL STAFF** Project Admin 11 /wk 220 mh 131.25 hr \$ 28,875 \$ - \$ 188 -\$ -2,642.05 /wk 29,063 \$ Lead Project Admin 11 /wk 220 mh 141.75 hr 31.185 \$ \$ 188 \$ \$ 2,852.05 /wk \$ 31,373 $\overline{\mathbf{z}}$ **CLERICAL STAFF** 11 /wk 440 mh 60,060 375 5,494.09 /wk 60,435 4 TRAVEL & SUBSISTENCE Area Lead Airfare 4 /Trips \$ 2,400 \$ 600.00 /Trips \$ 2,400 840.00 /Trips \$ Area Lead Car Rental 4 /Trips \$ 3,360 \$ 3,360 Area Lead Hotel 4 /Trips \$ 6,400 \$ 1,600.00 /Trips \$ 6,400 Area Lead Meals 4 /Trips \$ 2,400 \$ 600.00 /Trips \$ 2,400 4,800 Proj Mgr Airfare 8 /Trips \$ 4,800 \$ 600.00 /Trips \$ 8 /Trips \$ 6,720 \$ 840.00 /Trips \$ 6,720 Proj Mgr Car Rental 8 /Trips \$ 12,800 \$ 1,600.00 /Trips \$ 12,800 Proj Mgr Hotel \$ 4,800 \$ 600.00 /Trips \$ 4,800 Proj Mgr Meals 8 /Trips Super Airfare 8 /Trips \$ 4,800 \$ 600.00 /Trips \$ 4,800 Super Car Rental 8 /Trips \$ 6,720 \$ 840.00 /Trips \$ 6,720

	Cost Item	Takeoff Quantity	Labor Manhours	Labor Rate	Labor Amount	Material Amount	Equip Amount	Sub Amount	Other Amount	Total Unit Cost	Total Amount
	Super Hotel	8 /Trips							\$ 12,800	\$ 1,600.00 /Trips	\$ 12,800
	Super Meals	8 /Trips							\$ 4,800	\$ 600.00 /Trips	\$ 4,800
	CS Airfare	8 /Trips							\$ 4,800	\$ 600.00 /Trips	\$ 4,800
	CS Car Rental	8 /Trips							\$ 6,720	\$ 840.00 /Trips	\$ 6,720
	CS Hotel	8 /Trips							\$ 12,800	\$ 1,600.00 /Trips	\$ 12,800
	CS Meals	8 /Trips							\$ 4,800	\$ 600.00 /Trips	\$ 4,800
	TRAVEL & SUBSISTENCE								\$ 101,920		\$ 101,920
ES	Textura Accounting									#DIV/0!	\$ -
\cup	Predictive Solutions									#DIV/0!	\$ -
5	LCP Certified Payroll									#DIV/0!	\$ -
\propto	Investigate Conflicts	1 /LS							\$ 25,000	\$ 25,000.00 /LS	\$ 25,000
SE	Project Website	1 /LS							\$ 20,000	\$ 20,000.00 /LS	\$ 20,000
	Project Outreach	1 /LS							\$ 25,000		\$ 25,000
₽	Newspaper Ads	1 /LS							\$ 1,500	\$ 1,500.00 /LS	\$ 1,500
₹	Subtotal				\$ 1,038,696	6	\$ 54,106		\$ 173,420		\$ 1,266,223
\leq	Sales Tax	7.00%									\$ 5,005
	Subtotal w/ Taxes										\$ 1,271,228
田	CCI G&A	7.60%									\$ 17,292
PR	CCI FEE	4.90%									\$ 11,149
4	PRELIMINARY SERVICES TOTAL										\$ 1,299,668

	Cost Item	Takeoff Quantity	Labor Manhours	La	abor Rate	Labor Amount	Material Amount	Equip Amount	Sub Amount	Other Amount	Total Unit Cost	Total Amount
	CONSTRUCTION GENERAL CONDITIONS ST	TAFFING										
	PROJECT MANAGEMENT STAFF	AFFING										
	Area Leader	107 /wk	429 mh	\$	345.08 hr	\$ 147,891	\$ -	\$ 6,771	\$ -	\$ -	\$ 1,441.60 /wk	\$ 154,663
	Precon Mgr	107 /wk	643 mh		286.65 hr	\$ 184,275		\$ 10,157	-	\$ -	\$ 1,812.28 /wk	\$ 194,432
CS	Sr Project Mgr				201.76 hr	\$ 864,675		\$ 67,714		\$ -	\$ 8,690.71 /wk	\$ 932,389
9	Assistant PM		4286 mh		179.71 hr	\$ 770,175		\$ 3,429		\$ -	\$ 7,210.69 /wk	\$ 773,604
	Elec Delivery Lead	107 /wk	214 mh	-	213.89 hr	\$ 45,833			\$ -	\$ -	\$ 428.80 /wk	\$ 46,004
5	I&C Mgr	107 /wk	214 mh		220.50 hr	\$ 47,250		\$ 171	\$ -	\$ -	\$ 442.01 /wk	\$ 47,421
)[Project Account	107 /wk	1071 mh	\$	153.25 hr	\$ 164,196	\$ -	\$ 857	\$ -	\$ -	\$ 1,538.45 /wk	\$ 165,054
\Box	VDC Mgr	107 /wk	1286 mh	\$	153.25 hr	\$ 197,036	\$ -	\$ 1,029	\$ -	\$ -	\$ 1,846.14 /wk	\$ 198,064
CONSTRUCTION	Lead Procurement	107 /wk	857 mh	\$	106.94 hr	\$ 91,663	\$ -	\$ 686	\$ -	\$ -	\$ 860.77 /wk	\$ 92,349
2	Sr Procurement Mgr	107 /wk	429 mh	\$	208.37 hr	\$ 89,301	\$ -	\$ 6,771	\$ -	\$ -	\$ 895.49 /wk	\$ 96,073
.T	PROJECT MANAGEMENT STAFF	107 /wk	13714 mh			\$ 2,602,295	\$ -	\$ 97,757	\$ -	\$ -	\$ 25,166.93 /wk	\$ 2,700,053
2	FIELD STAFF											
O	Construction Mgr	107 /wk	4286 mh	\$	275.63 hr	\$ 1,181,271	\$ -	\$ 67,714	\$ -	\$ -	\$ 11,641.68 /wk	\$ 1,248,986
Ö	General Super	107 /wk	4286 mh	\$	229.32 hr	\$ 982,800	\$ -	\$ 67,714	\$ -	\$ -	\$ 9,791.74 /wk	\$ 1,050,514
	General Foreman	107 /wk	4286 mh	\$	151.14 hr	\$ 647,743	\$ -	\$ 67,714	\$ -	\$ -	\$ 6,668.71 /wk	\$ 715,457
	General Foreman	107 /wk	2143 mh	\$	151.14 hr	\$ 341,898	\$ -	\$ 33,857	\$ -	\$ -	\$ 3,502.38 /wk	\$ 375,756
	Assistant Super	107 /wk	4286 mh	\$	209.32 hr	\$ 897,086	\$ -	\$ 67,714	\$ -	\$ -	\$ 8,992.81 /wk	\$ 964,800
	Regional H&S Mgr	107 /wk	857 mh	\$	281.14 hr	\$ 240,977	\$ -	\$ 13,543		\$ -	\$ 2,372.36 /wk	\$ 254,520
	CCI H&S Mgr	107 /wk	4286 mh	\$	280.50 hr	\$ 1,202,143	\$ -	\$ 3,429		\$ -	\$ 11,237.02 /wk	\$ 1,205,571
	Constr Specialist 1	107 /wk	4286 mh		136.71 hr	\$ 585,900		\$ 67,714		\$ -	\$ 6,092.28 /wk	\$ 653,614
	Constr Specialist 1	107 /wk	4286 mh	-	136.71 hr	\$ 585,900		\$ 67,714		\$ -	\$ 6,092.28 /wk	\$ 653,614
	Constr Specialist 2	107 /wk		-	150.38 hr	\$ 644,490		\$ 67,714		\$ -	\$ 6,638.39 /wk	\$ 712,204
	Constr Specialist 3	107 /wk	4286 mh	\$	165.42 hr	\$ 708,934		\$ 67,714	· ·	\$ -	\$ 7,239.07 /wk	\$ 776,649
	Sr QC Mgr	107 /wk	857 mh		281.14 hr	\$ 240,977			-	\$ -	\$ 2,372.36 /wk	\$ 254,520
	QC Specialist	107 /wk	4286 mh	\$	210.00 hr	\$ 900,000	\$ -	\$ 67,714	\$ -	\$ -	\$ 9,019.97 /wk	\$ 967,714
	FIELD STAFF	107 /wk	46714 mh			\$ 9,160,120	\$ -	\$ 673,800	\$ -	\$ -	\$ 91,661.04 /wk	\$ 9,833,920
	ESTIMATING			_			-			_		
	Lead Estimator	107 /wk	214 mh	-	253.58 hr	\$ 54,339 \$ 59,064		\$ 2,314		\$ -	\$ 528.06 /wk	\$ 56,653
	Chief Estimator ESTIMATING	107 /wk	214 mh 429 mh	\$	275.63 hr	\$ 59,064 \$ 113,402		\$ 2,314 \$ 4,629		\$ - \$ -	\$ 572.10 /wk \$ 1,100.15 /wk	\$ 61,378 \$ 118,031
	PROJECT CONTROLS	107 /WK	429 mn			\$ 113,402	\$ -	\$ 4,629	\$ -	\$ -	\$ 1,100.15 /WK	\$ 118,031
	Project Controls Mgr	107 /wk	2143 mh	\$	253.58 hr	\$ 543.386	\$ -	\$ 1,714	\$ -	\$ -	\$ 5.080.83 /wk	\$ 545,100
	PROJECT CONTROLS	107 /wk	2143 mh	φ	233.30 111	\$ 543,386	•	\$ 1,714	• -	\$ -	\$ 5,080.83 /wk	\$ 545,100
CS	CLERICAL STAFF	107 7WK	2143 11111			\$ 343,300	•	ų 1,714	-	-	\$ 3,000.03 7WK	\$ 343,100
9	Project Admin	107 /wk	4286 mh	\$	137.81 hr	\$ 590,614	\$ -	\$ 3,429	\$ -	\$ -	\$ 5,537.02 /wk	\$ 594,043
	Lead Project Admin	107 /wk	2143 mh		148.84 hr	\$ 318,938		\$ 1,714	\$ -	\$ -	\$ 2,988.76 /wk	\$ 320,652
7	CLERICAL STAFF		6429 mh	Ψ		\$ 909,552	\$ -	\$ 5,143	s -	s -	\$ 8,525.78 /wk	\$ 914,695
):	TRAVEL & SUBSISTENCE		0.20			, ,,,,,,,	*	, ,,,,,	*	*	, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	7
\Box	Area Lead Airfare	24 /Trips								\$ 14,400	\$ 600.00 /Trips	\$ 14,400
\supset	Area Lead Car Rental	24 /Trips								\$ 20,160		
CONSTRUCTION	Area Lead Hotel	24 /Trips								\$ 38,400	\$ 1,600.00 /Trips	
TS	Area Lead Meals	24 /Trips								\$ 14,400	\$ 600.00 /Trips	· ·
ž	Proj Mgr Airfare	48 /Trips								\$ 28,800	\$ 600.00 /Trips	
O	Proj Mgr Car Rental	48 /Trips								\$ 40,320	\$ 840.00 /Trips	\$ 40,320
Ö	Proj Mgr Hotel	48 /Trips								\$ 76,800	\$ 1,600.00 /Trips	\$ 76,800
	Proj Mgr Meals	48 /Trips								\$ 28,800	\$ 600.00 /Trips	\$ 28,800
	Super Airfare	24 /Trips								\$ 14,400	\$ 600.00 /Trips	\$ 14,400

	Cost Item	Takeoff Quantity	Labor Manhours	Labor Rate	Labor Amount	Material Amount	Equip Amount	Sub Amount	Other Amount	Total Unit Cost	Total Amount
	Super Car Rental	24 /Trips							\$ 20,160	\$ 840.00 /Trips	
	Super Hotel	24 /Trips							\$ 38,400	\$ 1,600.00 /Trips	\$ 38,400
	Super Meals	24 /Trips							\$ 14,400	\$ 600.00 /Trips	\$ 14,400
	CS Airfare	24 /Trips							\$ 14,400	\$ 600.00 /Trips	\$ 14,400
	CS Car Rental	24 /Trips							\$ 20,160	\$ 840.00 /Trips	\$ 20,160
	CS Hotel	24 /Trips							\$ 38,400	\$ 1,600.00 /Trips	\$ 38,400
	CS Meals	24 /Trips							\$ 14,400	\$ 600.00 /Trips	\$ 14,400
	PerDiem by Weeks	312 /Wks							\$ 491,400	\$ 1,575.00 /Wks	\$ 491,400
	PerDiem by Weeks (After 1 yr)	312 /Wks							\$ 614,250	\$ 1,968.75 /Wks	\$ 614,250
	TRAVEL & SUBSISTENCE								\$ 1,542,450		\$ 1,542,450
	TRAINING & ORIENTATION										
	PreHire/Orientation	10 /Ea							\$ 25,000	\$ 2,500.00 /Ea	\$ 25,000
	OSHA 10 Training	10 /Ea							\$ 5,000	\$ 500.00 /Ea	\$ 5,000
	Specific Training	10 /Ea							\$ 5,000	\$ 500.00 /Ea	\$ 5,000
S	TRAINING & ORIENTATION								\$ 35,000		\$ 35,000
C	QUALITY ASSURANCE/CONTROL										
G	Soils Testing	20000 /CY							\$ 30,000	\$ 1.50 /CY	\$ 30,000
Z	Concrete Testing	20000 /CY							\$ 60,000	\$ 3.00 /CY	\$ 60,000
0	QUALITY ASSURANCE/CONTROL								\$ 90,000		\$ 90,000
\equiv	TEMP SANITARY SERVICE										
$\dot{\mathbf{C}}$	Portable Toilets (Month)	360 /Mon							\$ 54,000	\$ 150.00 /Mon	\$ 54,000
	SS Tank Service	24 /Mon							\$ 60,000	\$ 2,500.00 /Mon	\$ 60,000
2	TEMP SANITARY SERVICE								\$ 114,000		\$ 114,000
ST	TEMP TELEPHONE & COMM										
Ž	Internet Monthly	72 /Mon							\$ 18,000	\$ 250.00 /Mon	\$ 18,000
CONSTRUCTION	TEMP TELEPHONE & COMM								\$ 18,000		\$ 18,000
C	CDM FIELD OFFICES										
	CDM Office Trailer	72 /Mon							\$ 86,400	\$ 1,200.00 /Mon	\$ 86,400
	CDM Trailer Mob/Demob	2 /Ea							\$ 10,000	\$ 5,000.00 /Ea	\$ 10,000
	CDM FIELD OFFICES								\$ 96,400		\$ 96,400
	CDM FIELD OFFICE EQUIP/SUPPLY										
	CDM Furniture LS	3 /LS							\$ 15,000	\$ 5,000.00 /LS	\$ 15,000
	CDM Tablets	6 /Ea							\$ 6,000	\$ 1,000.00 /Ea	\$ 6,000
	CDM Computer	10 /Ea							\$ 25,000	\$ 2,500.00 /Ea	\$ 25,000
	CDM Copier/Printer	2 /Ea							\$ 3,000	\$ 1,500.00 /Ea	\$ 3,000
	CDM Radios	2 /Ea							\$ 800	\$ 400.00 /Ea	\$ 800
	CDM Office Supplies	48 /Mon							\$ 16,800	\$ 350.00 /Mon	\$ 16,800
	CDM Documents	48 /Ea							\$ 12,000	\$ 250.00 /Ea	\$ 12,000
	CDM Drinking Water	72 /Mon							\$ 21,600	\$ 300.00 /Mon	\$ 21,600
	Aerial Photo	28 /Ea							\$ 42,000	\$ 1,500.00 /Ea	\$ 42,000
	Cleaning Service	28 /Mon							\$ 18,200	\$ 650.00 /Mon	\$ 18,200
	CDM FIELD OFFICE EQUIP/SUPPLY								\$ 160,400		\$ 160,400
	TEMP FACILITIES										
	Water Connection	2 /Ea							\$ 2,000	\$ 1,000.00 /Ea	\$ 2,000
	Water Usage	48 /Mon							\$ 19,200	\$ 400.00 /Mon	\$ 19,200
CS	Sanitary Connection	3 /Ea							\$ 1,950	\$ 650.00 /Ea	\$ 1,950
9	Elec Connection	3 /Ea							\$ 7,500	\$ 2,500.00 /Ea	\$ 7,500
	Elec Usage	48 /Mon							\$ 19,200	\$ 400.00 /Mon	\$ 19,200
ION	Mob & Set-up	3 /Ea							\$ 43,500	\$ 14,500.00 /Ea	\$ 43,500
\overline{C}	Demob	3 /Ea							\$ 60,795	\$ 20,265.00 /Ea	\$ 60,795

Descripting free 17.7 (reg 1.7 (reg		Cost Item	Takeoff Quantity	Labor Manhours	Labor Rate	Labor Amount	Material Amount	Equip A	mount	Sub Amount	Oth	er Amount		Total Unit Cost	1	Total Amount
CONTRECUEND SAMALTOOLS S. 200.00 Am S. 200.00	\vdash	Temp Fencing	1000 Ifmo								\$	150,000	\$	150.00 Ifmo	\$	150,000
CONTRECUEND SAMALTOOLS S. 200.00 Am S. 200.00	\preceq	Dust Control	112 /Wks								\$	80,080	\$	715.00 /Wks	\$	80,080
CONSTRUCTION CONS	7	Dump Tipping Fees	121 /Trips								\$	242,480	\$	2,000.00 /Trips	\$	242,480
CONSTRUCTION CONS	F	TEMP FACILITIES									\$	626,705			\$	626,705
Vicinity	S	CONSTR EQUIP & SMALL TOOLS														
Vicinity	\leq	Misc Small Tools	63000 /Mh					\$	189,000				\$	3.00 /Mh	\$	189,000
Vicinity	\sim	CONSTR EQUIP & SMALL TOOLS						\$	189,000						\$	189,000
VICE EQUIPPERONES	_	VDC EQUIP/DRONES														
SAFETY		VDC Equip Rental	112 /Mon								\$	560,000	\$	5,000.00 /Mon	\$	560,000
Drug reining 2 Ea		VDC EQUIP/DRONES									\$	560,000			\$	560,000
Safety Supplies 63000 Mh		SAFETY														
SAFETY											\$	1,000	\$	500.00 /Ea	\$	1,000
SECURITY/TRAFFIC CONTROL		Safety Supplies	63000 /Mh					\$	35,280				\$	0.56 /Mh	\$	35,280
Project Sign		SAFETY						\$	35,280		\$	1,000			\$	36,280
Traffic Control 28 M/ss		SECURITY/TRAFFIC CONTROL														•
SECURITY/TRAFFIC CONTROL		Project Sign	1 /Ea								\$	2,500	\$	2,500.00 /Ea	\$	2,500
SURVEY		Traffic Control	28 /Wks								\$	58,800	\$	2,100.00 /Wks	\$	58,800
Initial Control Points		SECURITY/TRAFFIC CONTROL									\$	61,300			\$	61,300
Relocate Survey & Layou 12 /LS		SURVEY														
SURVEY S S6,000 S		Initial Control Points	4 /LS								\$	14,000	\$	3,500.00 /LS	\$	14,000
PROJECT CLOSEOUT System Start-up 30 /Days S 27,000 \$ 900,00 /Days \$ 27,000 \$ 11,250 \$ 2,250,00 /LS \$ 10,000 /		Relocate Survey & Layout	12 /LS								\$	42,000	\$	3,500.00 /LS	\$	42,000
System Start-up 30 /Days		SURVEY									\$	56,000			\$	56,000
AS Built Drawings 5 /LS		PROJECT CLOSEOUT														
O&M Docs 2 /LS		System Start-up	30 /Days								\$	27,000	\$	900.00 /Days	\$	27,000
Variable	S	-									\$	11,250	\$	2,250.00 /LS	\$	11,250
PROJECT CLOSEOUT \$ 128,250	Ü										\$	40,000	\$			40,000
CONTRACT REQUIREMENTS Textura Accounting 1 /LS Textura Accounting 1	G		50 /Hrs								\$	50,000	\$	1,000.00 /Hrs	\$	50,000
CONTRACT REQUIREMENTS	Z	PROJECT CLOSEOUT									\$	128,250			\$	128,250
Textura Accounting	0	CONTRACT REQUIREMENTS														
Fees & BRI Deduct	\equiv	Textura Accounting									\$		_		\$	30,000
Fees & BRI Deduct	\mathcal{C}										*					5,000
Subtotal w/ Taxes \$ 18,160,270 CCI G&A 7.60% \$ 354,730 CCI FEE 4.90% \$ 228,711	\supset	· ·									•					35,748
Subtotal w/ Taxes \$ 18,160,270 CCI G&A 7.60% \$ 354,730 CCI FEE 4.90% \$ 228,711	2															50,000
Subtotal w/ Taxes \$ 18,160,270 CCI G&A 7.60% \$ 354,730 CCI FEE 4.90% \$ 228,711	S		2 /LS								-		\$	25,000.00 /LS		
Subtotal w/ Taxes \$ 18,160,270 CCI G&A 7.60% \$ 354,730 CCI FEE 4.90% \$ 228,711	Z										\$	170,748			\$	170,748
Subtotal w/ Taxes \$ 18,160,270 CCI G&A 7.60% \$ 354,730 CCI FEE 4.90% \$ 228,711	0					\$ 13,328,755		\$ 1,	007,323		\$	3,660,253			\$	17,996,330
CCI G&A 7.60% \$ 354,730 CCI FEE 4.90% \$ 228,710	\circ		7.00%												\$	163,946
CCI FEE 4.90% \$ 228,71°															\$	18,160,276
															-	354,736
CONSTRUCTION GCs TOTAL \$ 18,743,723		CCI FEE	4.90%												\$	228,711
		CONSTRUCTION GCs TOTAL													\$	18,743,723

	Cost Item	Takeoff Quantity	Labor Manhours	Labo	r Rate	Labor Amount	Material Amount	Equip Amount	Sub Amount	Other Amount	Total Unit Cost	Total Amount
	STARTUP & COMMISSIONING STAFFING											
G	PROJECT MANAGEMENT STAFF											
\geq	Area Leader	23 /wk	69 mh	\$ 362	2.33 hr	\$ 25,156	\$ -	\$ 1,097	\$ -	\$ -	\$ 1,127.44 /wk	\$ 26,25
\equiv	Sr Project Mgr	23 /wk			1.85 hr	\$ 196,111		\$ 14,626		\$ -	\$ 9,050.06 /wk	\$ 210,73
COMMISSIONIN	Assistant PM	23 /wk			8.70 hr	\$ 174,678	\$ -	\$ 741	\$ -	\$ -	\$ 7,533.32 /wk	\$ 175,41
\subseteq	Elec Delivery Lead	23 /wk	<u> </u>		4.58 hr	\$ 10,395	\$ -	\$ 37	\$ -	\$ -	\$ 447.99 /wk	\$ 10,43
SS	I&C Mgr	23 /wk	46 mh	\$ 231	1.53 hr	\$ 10,717	\$ -	\$ 37		\$ -	\$ 461.81 /wk	\$ 10,75
=	Project Account	23 /wk	231 mh	\$ 160	0.55 hr	\$ 37,156	\$ -	\$ 185	\$ -	\$ -	\$ 1,603.60 /wk	\$ 37,34
2	VDC Mgr	23 /wk			0.55 hr	\$ 37,034		\$ 185		\$ -	\$ 1,598.36 /wk	\$ 37,21
≥	Lead Procurement	23 /wk			2.04 hr	\$ 66,661		\$ 185		\$ -	\$ 2,870.68 /wk	\$ 66,84
ō	Sr Procurement Mgr	23 /wk			8.30 hr	\$ 66,661	\$ -	\$ 3,657	\$ -	\$ -	\$ 3,019.76 /wk	\$ 70,31
Ö	PROJECT MANAGEMENT STAFF	23 /wk	2939 mh			\$ 624,568	\$ -	\$ 20,750	\$ -	\$ -	/wk	\$ 645,31
Ø	FIELD STAFF					<u> </u>			-	-		,
_	Construction Mgr	23 /wk	463 mh	\$ 289	9.41 hr	\$ 133,956	\$ -	\$ 7,313	\$ -	\$ -	\$ 6,066.78 /wk	\$ 141,26
5	General Super	23 /wk			0.79 hr	\$ 111,450		\$ 7,313		\$ -	\$ 5,100.24 /wk	\$ 118,76
STARTUP	General Foreman	23 /wk	694 mh		8.70 hr	\$ 122,211	\$ -	\$ 10,970		\$ -	\$ 5,719.43 /wk	\$ 133,18
\simeq	Assistant Super	23 /wk	463 mh	\$ 219	9.79 hr	\$ 96,288	\$ -	\$ 7,313	\$ -	\$ -	\$ 4,449.12 /wk	\$ 103,60
\succeq	Regional H&S Mgr	23 /wk	46 mh	\$ 295	5.20 hr	\$ 13,663	\$ -	\$ 731	\$ -	\$ -	\$ 618.18 /wk	\$ 14,39
S	Constr Specialist 1	23 /wk	463 mh	\$ 143	3.55 hr	\$ 66,443	\$ -	\$ 7,313	\$ -	\$ -	\$ 3,167.45 /wk	\$ 73,75
	Constr Specialist 2	23 /wk	463 mh	\$ 157	7.91 hr	\$ 73,087	\$ -	\$ 7,313	\$ -	\$ -	\$ 3,452.79 /wk	\$ 80,40
	Constr Specialist 3	23 /wk	463 mh	\$ 173	3.70 hr	\$ 80,399	\$ -	\$ 7,313	\$ -	\$ -	\$ 3,766.77 /wk	\$ 87,71
	QC Specialist	23 /wk	463 mh	\$ 220	0.50 hr	\$ 102,060	\$ -	\$ 7,313	\$ -	\$ -	\$ 4,697.01 /wk	\$ 109,37
	FIELD STAFF	23 /wk	3981 mh			\$ 799,558	\$ -	\$ 62,893	\$ -	\$ -	/wk	\$ 862,45
	ESTIMATING											
	Lead Estimator	23 /wk	46 mh	\$ 266	6.26 hr	\$ 12,324	\$ -	\$ 500	\$ -	\$ -	\$ 550.72 /wk	\$ 12,82
	ESTIMATING	23 /wk	46 mh			\$ 12,324	\$ -	\$ 500	\$ -	\$ -	/wk	\$ 12,82
	PROJECT CONTROLS											
	Project Controls Mgr	23 /wk	185 mh	\$ 266	6.26 hr	\$ 49,296	\$	\$ 148	\$ -	\$ -	\$ 2,123.36 /wk	\$ 49,44
	PROJECT CONTROLS	23 /wk	185 mh			\$ 49,296	\$	\$ 148	\$ -	\$ -	/wk	\$ 49,44
	CLERICAL STAFF											
G	Project Admin	23 /wk	463 mh	\$ 144	4.70 hr	\$ 66,976	\$ -	\$ 370	\$ -	\$ -	\$ 2,892.16 /wk	\$ 67,34
Z	Lead Project Admin	23 /wk	463 mh	\$ 156	6.28 hr	\$ 72,336	\$ -	\$ 370	\$ -	\$ -	\$ 3,122.37 /wk	\$ 72,70
\equiv	CLERICAL STAFF	23 /wk	926 mh			\$ 139,312	\$ -	\$ 741	\$ -	\$ -	/wk	\$ 140,05
\overline{c}	COMMISSIONING											
MISSIONING	TSU Commiss Mgr	23 /wk	926 mh	\$ 270	0.00 hr	\$ 249,943	\$ -	\$ -	\$ -	\$ -	\$ 10,733.74 /wk	\$ 249,94
Š	TSU Commiss Lead	23 /wk	926 mh	\$ 252	2.00 hr	\$ 233,280	\$ -	\$ -	\$ -	\$ -	\$ 10,018.16 /wk	\$ 233,28
₹	TSU Commiss Tech	23 /wk	926 mh	\$ 234	4.00 hr	\$ 216,617	\$ -	\$ -	\$ -	\$ -	\$ 9,302.58 /wk	\$ 216,61
\leq	COMMISSIONING	23 /wk	2777 mh			\$ 699,840	\$ -	\$ -	\$ -	\$ -	/wk	\$ 699,84
2	TRAVEL & SUBSISTENCE											
	Area Lead Airfare	2 /Trips								\$ 1,200		
	Area Lead Car Rental	2 /Trips								\$ 1,680	\$ 840.00 /Trips	
Ø	Area Lead Hotel	2 /Trips								\$ 3,200		
₫	Area Lead Meals	2 /Trips								\$ 1,200		
STARTU	Proj Mgr Airfare	10 /Trips								\$ 6,000		
2	Proj Mgr Car Rental	10 /Trips								\$ 8,400	•	·
₹	Proj Mgr Hotel	10 /Trips								\$ 16,000		
-	Proj Mgr Meals	10 /Trips								\$ 6,000		
S	Commiss Airfare	84 /Trips								\$ 50,400	\$ 600.00 /Trips	
	Commiss Car Rental	84 /Trips								\$ 70,560	\$ 840.00 /Trips	\$ 70,56

	Cost Item	Takeoff Quantity	Labor Manhours	Labor Rate	Labor Amount	Material Amount	Equip Amount	Sub Amount	Other Amount		Total Unit Cost	1	Total Amount
	Commiss Hotel	84 /Trips							\$ 134,400	\$	1,600.00 /Trips	\$	134,400
	Commiss Meals	84 /Trips							\$ 50,400	\$	600.00 /Trips	\$	50,400
	TRAVEL & SUBSISTENCE								\$ 349,440)		\$	349,440
	CDM FIELD OFFICES												
	CDM Office Trailer	26 /Mon							\$ 31,200	\$	1,200.00 /Mon	\$	31,200
	CDM FIELD OFFICES								\$ 31,200)		\$	31,200
	TEMP FACILITIES												
	Water Usage	6 /Mon							\$ 2,400	\$	400.00 /Mon	\$	2,400
	Elec Usage	6 /Mon							\$ 2,400	\$	400.00 /Mon	\$	2,400
()	TEMP FACILITIES								\$ 4,800)		\$	4,800
\geq	CONSTR EQUIP & SMALL TOOLS												
NING	Misc Small Tools	9928 /Mh							\$ 29,785	5 \$	3.00 /Mh	\$	29,785
\leq	CONSTR EQUIP & SMALL TOOLS						\$ -					\$	29,785
0	SAFETY												
S	Safety Supplies	9928 /Mh							\$ 5,560	\$	0.56 /Mh	\$	5,560
S	SAFETY						\$ -		\$ 5,560)		\$	5,560
$\sum_{i=1}^{N}$	CONTRACT REQUIREMENTS												
\geq	Textura Accounting	1 /LS							\$ 6,000	\$	6,000.00 /LS	\$	6,000
ō	Predictive Solutions	1 /LS							\$ 1,000	\$	1,000.00 /LS	\$	1,000
\ddot{c}	LCP Certified Payroll	1 /LS							\$ 2,125	5 \$	2,124.50 /LS	\$	2,125
Ø	CONTRACT REQUIREMENTS								\$ 9,125	5		\$	9,125
	Subtotal				\$ 2,324,897		\$ 85,031		\$ 400,124	l I		\$	2,839,838
P	Sales Tax	7.00%										\$	5,633
=	Subtotal w/ Taxes											\$	2,845,471
2	CCI G&A	7.60%										\$	39,135
ζ.	CCI FEE	4.90%										\$	25,232
ST	STARTUP & COMMISSIONING TOTAL											\$	2,909,838

TOTAL COST REPORT (Precon/Prelimanary Services + Construction GC's + Startup & Commissioning)

22,953,229

Attachment 4

Engineering Services During Construction



ATTACHMENT A TO DBIA CONTRACT #545

CITY OF DELRAY BEACH WATER TREATMENT PROGRESSIVE DESIGN BUILD PROJECT

November 2025

PHASE 2 ENGINEERING SERVICES DURING CONSTRUCTION – MEMBRANE WATER TREATMENT PLANT

GENERAL

The DESIGN-BUILDER has prepared a set of Drawings and Technical Specifications for the City of Delray Beach (CITY) Phase 2 Project (Project). These documents are the basis for the Phase 2 services from the DESIGN-BUILDER under the DESIGN-BUILDER's Agreement with the CITY.

PURPOSE

This Attachment A sets forth the Phase 2 Engineer Services During Construction (ESDC)to be provided by the DESIGN-BUILDER during construction of the Membrane Water Treatment Plant (WTP).

ORGANIZATION

Task 7 - Engineering Services During Construction

Subtask 7.1	Task Management
Subtask 7.2	Meetings During Construction
Subtask 7.3	Construction Engineering Coordination
Subtask 7.4	Review of Submittals and Substitutions
Subtask 7.5	Requests for Information (RFI) and Clarifications
Subtask 7.6	Design Changes and Change Orders
Subtask 7.7	Site Visits and Factory Witness Testing
Subtask 7.8	Vendor Training
Subtask 7.9	Operation and Maintenance Manual
Subtask 7.10	Develop Standard Operating Procedures (SOP)
Subtask 7.11	Start Up and Commissioning
Subtask 7.12	Final Walk Through and Punch Lists
Subtask 7.13	Record Drawings
Subtask 7.14	Project and Permitting Closeout



TASK 7 – ENGINEERING SERVICES DURING CONSTRUCTION – MEMBRANE WATER TREATMENT PLANT

This task provides for general administrative services during the construction phase of the Membrane Water Treatment Plant and six new Surficial Aquifer Wells (Project). Activities performed under this task also consist of those general functions required to maintain the quality of work consistent with DESIGN-BUILDER's standards and CITY's expectations. This task will start when the CITY provides Notice to Proceed (NTP) for the Phase 2 amendment to the design-build contract. Services described herein are based on a 32-month construction duration from Phase 2 NTP to Final Completion.

Subtask 7.1 – Task Management

Provide the necessary management and coordination throughout Phase 2 construction phase. Task management shall include the following elements:

Project Coordination and Communication

The DESIGN-BUILDER shall conduct general coordination and communication with the Project team and with the CITY regarding issues as they arise, including scheduling and progress of Project activities.

Quality Management

DESIGN-BUILDER maintains a Quality Management System (QMS) to identify procedures for quality assurance and quality control including the necessary levels of documentation and procedures for monitoring the effectiveness of the quality program. DESIGN-BUILDER will review project for quality assurance and control, prior to transmitting documents to CITY.

Subtask 7.2 – Meetings During Construction

Schedule and conduct meetings with the CITY and the CITY's representative throughout Phase 2 of the Project. The DESIGN-BUILDER shall prepare a draft agenda and submit to the CITY's Project Manager prior to the meeting. Meeting minutes shall be developed by the DESIGN-BUILDER and submitted to the CITY's Project Manager soon after the meeting.

The meetings under Subtask 7.2 shall include the following:

Pre-construction Conference

The DESIGN-BUILDER shall attend a pre-construction conference. Key members of all firms on the DESIGN-BUILDER's Project team, the CITY's representative team, and CITY's project team are to attend.

Internal Construction Coordination Meetings

The DESIGN-BUILDER will conduct monthly meetings between the design and construction staff. Agenda items or discussion items may be suggested by either party. The purpose of these meetings is to coordinate between designers and subcontractors during the construction phase. DESIGN-BUILDER has budgeted for 31 coordination meetings with a variety of design and constructor staff attending.

Project Construction Coordination Meetings

The DESIGN-BUILDER will attend monthly construction coordination meetings with the CITY and CITY's representative. DESIGN-BUILDER has budgeted for 31 Construction Coordination Meetings.

Miscellaneous Construction Coordination Meetings

During the 32 months of the ESDC services and construction, there will be unscheduled meetings required to maintain coordination on the Project. These meetings will be with the CITY, regulatory agencies, local and state permitting agencies, utilities (FPU and FPL), neighbors and other key stakeholders. DESIGN-BUILDER has budgeted for 40 Miscellaneous Construction Coordination Meetings.

Deliverables:

1. Meeting agendas and notes

Subtask 7.3 – Construction Engineering Coordination

The DESIGN-BUILDER will provide Construction Engineering Coordination to manage the timely flow of information and documentation from the DESIGN-BUILDER into the Project's Construction Management Software (CMS) and responding to the technical needs of subcontractors and the CITY. Of significant importance is the monitoring of responsiveness to submittals and requests for information. CMS management includes the updates to schedules, change orders, RFIs, submittals, O&M, warranties, substitution requests, and other related construction management documentation. The Construction Engineering Coordinator is responsible for managing this information on behalf of the DESIGN-BUILDER and addressing issues on time.

The Construction Engineering Coordinator will prepare and follow a construction submittal protocol. The protocol will establish procedures for submitting and documenting shop drawings, RFIs, CITY requested design modifications, change order requests from others, testing procedures, and other documentation as required.

The Coordinator will schedule periodic meetings with the Project team and be responsible for facilitating the interpretation of the intent of the drawings and specifications by the design staff. The Construction Engineering Coordinator will coordinate resolution of conflicts that may arise between the design documents and construction field conditions.

The Construction Engineering Coordinator will assist in resolving non-conforming work observed and recommend action to alleviate an emergency situation. The Coordinator will promptly submit recommended action to initiate corrective procedures for defective work and coordinate special materials tests and performance tests needed to complete a quality Project.

The Construction Engineering Coordinator will provide occasional construction observations under responsible charge of the designer-of-record of work completed. Such observations are not intended to be exhaustive or to extend to every aspect of the work in progress, or to involve detailed inspections of the work beyond the responsibilities specifically assigned by the designer-of-record.

Also included under this task are efforts to secure the remaining permits necessary for construction. Planning type permits were pursued and obtained during Phase 1 and the remaining building permits will be pursued during early stages of Phase 2. The City requires trade and structure type permits along with sub-permits for each. Services are provided to secure the remaining permits necessary to commence construction.

Subtask 7.4 – Review of Submittals and Substitutions

The DESIGN-BUILDER design staff will follow the construction submittal protocol that establishes procedures for submitting, reviewing and filing of submittals. Equipment and materials submittals, test reports, and Operation & Maintenance (O&M) manuals will be reviewed for conformance with the Drawings and Specifications to verify that the design intent of the Project is maintained. Approximately 506 original submittals are estimated, and it is assumed a second review will be required for fifty percent of the submittals. In addition, 720 test reports will be reviewed. The submittal process is assumed to be fully electronic with all submittals maintained in the document management system where they can be accessed by the CITY. The document management system (or Construction Management Software) will be Auto Desk Construction Cloud. Hardcopy submittals are not anticipated to be required for the Project, other than for samples.

Up to five (5) requested substitutions will be assessed by the DESIGN-BUILDER. The feasibility of the changes will be explored and summarized in a letter to the CITY. Resulting design changes are defined in Subtask 7.6.

This task also includes design team liaison to the field team during critical periods of submittal reviews and approvals to coordinate resolution of issues quickly to allow work to proceed efficiently and timely.

Subtask 7.5 – Requests for Information (RFI) and Clarifications

The DESIGN-BUILDER design staff will provide design and specification support services during construction to answer technical requests for information (RFI) submitted for the purpose of clarifying design intent or specific features presented in the final (IFC) design drawings and specifications. Approximately 700 RFI are estimated.

Subtask 7.6 – Design Changes and Change Orders

The DESIGN-BUILDER will provide design and specification support services during construction for design changes. The DESIGN-BUILDER will also manage change orders submitted by subcontractors and define necessary design modifications. The DESIGN-BUILDER will provide up to 2,900 hours for design changes and managing change orders.

Subtask 7.7 – Site Visits and Factory Witness Testing

The DESIGN-BUILDER, from time to time, will make site visits to observe work and to answer technical questions and assist with resolving field issues. The purpose for these visits is to assist in the timely resolution of Project issues, observing the work to confirm compliance with the design intent. Up to 64 individual site visits by technical staff are included in this task. These site visits are budgeted separately from construction meetings and separately from specialty site inspections. This includes travel time and other direct costs.

The DESIGN-BUILDER staff and subcontractors will also provide specialty site inspections specific to requirements of the contract documents. These visits are in addition to the individual visits mentioned above. The following are example special inspections:

- Reinforcing inspections required by the designer prior to pouring concrete
- Production well installation inspection, geophysical logs, pump test, water quality tests.
 Geologists will witness daily well installations at the 6 locations.
- Rehabilitation of 11 existing production wells will be performed by the DESIGN-BUILDER. In addition to these construction activities, the work requires daily inspections of rehabilitation performed, recommendations for well repair and improvements, and general diller management.

In addition, the DESIGN-BUILDER will attend 15 factory witness testing events. These are specific visits by the subject matter expert to observe testing of the equipment to be supplied and ensure it meets the performance requirements of the specifications.

Subtask 7.8 Vendor Training

The DESIGN-BUILDER's O&M Specialist will coordinate vendor and manufacturer training for the new water plant equipment and processes. Vendor prepared training plans will be reviewed to confirm that subject matter is covered properly, and training materials are developed for handouts. An O&M Specialist will monitor select vendors and manufacturers' training to confirm that it complies with the intent of the specifications and that the material is covered adequately and professionally. An O&M Specialist will take attendance and provide feedback on design intent during the training session to augment the learning experience.

Subtask 7.9 Operation and Maintenance Manual

An e-O&M Manual will be developed for the CITY's staff to provide operations and maintenance guidance for the new treatment plant processes and associated equipment only. The e-O&M will be accessible from remote locations through use of computers and tablets and will be linked to pertinent O&M data identified within the scope.

The e-O&M manual will be provided as a comprehensive PDF-based facility e-O&M for the new treatment plant processes and associated equipment. The proposed e-O&M will be stored on a common CITY-owned server and be accessible remotely by CITY staff and other authorized personnel. The e-O&M will be accessible from local and remote locations through the use of computers and tablets. CITY staff will be trained on maintaining, updating, editing, and adding documents to the e-O&M.

The e-O&M will be provided as a standalone platform that is simultaneously accessible to multiple personnel, navigable, searchable and linked to other pertinent O&M documentation such as manufacturer O&M manuals, SOPs, operating permits, facility schematics, training modules and videos, SDS, record drawings and other useful information.

At the outset of this task, the DESIGN-BUILDER will develop a proposed manual table of contents and layout with the CITY staff in the kickoff workshop to determine the final e-O&M Manual layout and style.

DESIGN-BUILDER will provide training related to navigating and updating the e-O&M. The training will be designed for all relevant operations and maintenance staff to discuss and demonstrate e-O&M design, navigation, and platform capabilities. Training will include processes for updating and modifying the manual to ensure the e-O&M remains current and addresses future changes and/or modifications at the treatment plant.

Subtask 7.10 Develop Standard Operating Procedures (SOP)

The DESIGN-BUILDER will prepare SOPs designed to provide CITY operating staff with specific procedures for startup, shutdown, process operations and other related tasks for maintaining and optimizing plant operations of the new equipment and systems. The formatting of SOPs will be developed and agreed upon through an initial task workshop.

SOP Kickoff Workshop

During the development process of SOPs, and O&M Specialist will conduct a workshop to discuss SOP formatting, required content and expectations. In addition, a preliminary list of specific SOPs will be developed and agreed upon.

SOP Development

The DESIGN-BUILDER will develop up to 25 SOPs that will provide detailed procedures for treatment plant and processes requiring consistent, safe task completion. The SOPs will contain plant specific operations guidelines developed specifically for tasks necessary for operation. Preparations for the SOPs will include collection of information, authoring of text, and discussion and review with plant staff. The SOPs will be enhanced with photographs, illustrations and/or figures for simplification and clarification of essential details. In addition, control panel photos and pertinent screen shots will be included. The SOPs will be written in terms intended to maximize reader comprehension to a target audience who possess basic reading skills and to maximize use.

Draft SOPs will be provided to CITY operations staff for review and comment and SOPs will then be finalized. The final source files for MS Word, MS Excel, and associated figures and photos in their native format for subsequent use in updates to these SOPs will be provided. The information will be delivered using a standardized file structure so that the information can be easily located when updates are required.

The following is an approximate list of SOPs with the final list to be developed in conjunction with the CITY:

- Plant/Process Start-Up and Shutdown
- Surficial Aquifer Well System Operation
- Raw Water Booster Pump Station Operation
- Sand Strainer Operation
- Antiscalant Chemical System Operation
- Sulfuric Acid Chemical System Operation

- Cartridge Filter Operation and filter replacement
- Membrane Feed Pump Operation
- Membrane System Operations
- Membrane Cleaning-In-Place
- Permeate Flush System Operation
- Backup Power Operation
- Degasifier Operation
- Sodium Hydroxide Chemical System Operation
- Corrosion Inhibitor Chemical System Operation
- Compliance Monitoring and Reporting
- Sodium Hypochlorite Chemical System Operation (review and update to recent SOP by others)
- Ammonia Chemical System Operation (review and update to recent SOP by others)
- Clearwell Disinfection Compliance
- Clearwell plus Membrane Disinfection Compliance
- High Service and Transfer Pump Operation
- Deep Injection Wells Operation
- Process Control Sampling
- Laboratory Analysis Procedures
- Administration Procedures Operations Reporting, Evacuation, Security, Emergencies

Subtask 7.11 Start Up and Commissioning

Commissioning Planning

The DESIGN-BUILDER's Commissioning Manager will work to complete the draft and final Commissioning Plan that will detail the commissioning activities related to checkout, startup, and testing. The draft Commissioning Plan will be reviewed by the CITY. Comments will be addressed and agreed upon prior to issuing the final Commissioning Plan.

Commissioning Coordination Meetings

The Commissioning Manager will conduct up to 15 commissioning coordination meetings (assumed to be 1 day onsite) with DESIGN-BUILDER, appropriate subcontractors, CITY and CITY's representative. The meetings will be used to coordinate upcoming startup events,

equipment and processing testing, and to discuss commissioning activities. The Commissioning Plan will be utilized as a guide during these meetings and adjusted as necessary to transition from commissioning to beneficial use. Additional coordination on commissioning activities will occur during monthly progress meetings.

Operational/Functional and Performance Witness Testing

The Commissioning Manager will manage and observe the field startup activities, including operational readiness testing, wet functional demonstration testing, performance testing and initial startup and operation by vendor or manufacturer's representatives. The Commissioning Manager will direct, witness, and document the startup and testing activities from manufacturer's and provide written documentation. The documentation will include, at a minimum: date and time of activity; nature of activity; performance test or startup activity; specification requirements; people attending; test or activity data; and results, problems or follow-up requirements.

It is assumed that operational and functional testing will be conducted over three and one-half (3.5) continuous months. In addition, performance testing will be conducted over three and one-half (3.5) continuous months. It is assumed that initial testing will be successful and no repeat testing necessary. In the event that repeat testing is necessary, then the risk register will fund the additional fee for all repeat tests.

System Commissioning

DESIGN-BUILDER will provide on-site, Operations Specialist (Operator) who will train and assist the CITYs operating staff and assist the commissioning team with process performance testing and systems optimization. System commissioning will be conducted on the entire facility, operating as a complete system to meet the overall processing objectives and purified water quality. The duration for system commissioning will be one (1) continuous month.

An Operations Specialist will be provided 8 hours per day for every calendar day over the four and one-half (4.5) months of performance and system commissioning testing. In addition, 2 hours per day of on call services will be provided for communications and guidance for the CITY's operations staff during the 2nd and 3rd daily shifts of performance and system commissioning. It is assumed that initial testing will be successful and no repeat testing necessary. In the event that repeat testing is necessary, then the risk register will fund the additional fee for all repeat tests.

The Commissioning Manager will maintain a checklist to track and monitor the readiness of equipment and processes for testing. The checklist will include specified pre-testing submittals and actions, physical readiness, and submittal of the manufacturers certificate of proper installation.

In addition, a Commissioning Specialist will review Vendor/Subcontractor startup and testing program and instructions for field, performance testing, and manufacturer's startup activities, including checkout, testing and initial operations.

The Commissioning Specialist will provide hands-on guidance to facility staff through startup and initial operation.

The Commissioning Specialists will provide the following during this task:

- Regulatory approval to convey membrane permeate to the existing distribution system
- Lead Operational/Functional Testing, Performance Testing and Facility Commissioning of the work
- Assist plant staff in process preparation for initial operation
- Provide guidance and assistance in the commissioning of new work
- Recommend process analysis, monitoring and control adjustments
- Monitor and recommend process optimization adjustments
- Prepare sample process equipment status log sheets
- Provide informal hands-on instruction to plant staff
- Provide sampling and analysis during testing to document compliance with performance requirements

The CITY will be required to provide all power and chemicals necessary for all commissioning activities. All equipment will be maintained by the DESIGN-BUILDER up to the point when the CITY receives beneficial use, or when membrane water is conveyed to the distribution system.

Subtask 7.12 - Final Walk Through and Punch Lists

The DESIGN-BUILDER will conduct final walk throughs with the CITY for the development of punch list(s) for the completed facilities as they are completed and made ready for startup, commissioning, or beneficial use for the CITY. This will include site visits from the DESIGN-BUILDER's Engineer of Record, Architect of Record, or their designee to visually inspect the completed work and identify remaining items (punch list) necessary to achieve the requirements of the design.

Subtask 7.13 - Record Drawings

During construction, the DESIGN-BUILDER will create and maintain a set red line drawings showing the filed changes during construction. These drawings will be kept in the DESIGN-BUILDER's construction trailer for review by the DESIGN-BUILDER and/or CITY. These drawings will be used to create the record drawings at the end of construction, at approximately 30 months from NTP.

After substantial completion of the Project by the CITY, the DESIGN-BUILDER shall prepare and submit a set of Record Drawings modified to show changes made during the construction based on the DESIGN BUILDER field as built drawings. One (1) round of updates/edits to the record drawings based on CITY comments is assumed. These drawings will be designated in the revision block as "construction record" drawings and will be sealed by the Architect or Engineer-of-Record, or DESIGN-BUILDER staff having direct supervision of the work, indicating that the drawings have been revised to reflect record information based on information furnished by others in accordance with Florida regulations. Two (2) full size and two (2) half size hardcopy prints of the Record Drawings and one (1) electronic copy of the Record Drawings will be provided.

Subtask 7.14 – Project and Permitting Closeout

The DESIGN-BUILDER design staff will assist the construction team in the final close out of permits at the end of the construction phase of the Project. This may require design revisions, addenda or preparation of supplemental sketches or details to further address and certify the project completion. This subtask will provide project administrative activities related to proper closing of the project in the DESIGN-BUILDER's delivery system. The oversight will confirm that project close-out documents are reviewed for completion and distributed/filed as required. The list of documents may include certifications to the permitting authorities, record drawings, vendor O&M manuals, etc.



City of Delray Beach , Florida Phase 2 - ESDC - Membrane Water Treatment Plant Fee Summary (November 3, 2025)

Task Number	Task Description	Hours	Labor (\$)	ODCs (\$)	Subcontractors (\$)	Total Costs
Task 7	Subtask 7.1 - Task Management	2202	\$600,699	\$90,000	\$126,412	\$817,111
Tuok 7	Subtask 7.2 - Meetings During Construction	1266	\$323,807	\$40,000	\$62,018	\$425,825
	Subtask 7.3 - Construction Engineering Coordination	5835	\$1,291,554	\$40,000	\$0	\$1,331,554
	Subtask 7.4 - Review of Submittals and Substitutions	7848	\$1,626,355	+ 12,222	\$93,324	\$1,719,679
	Subtask 7.5 - Requests for Information and Clarifications	5190	\$1,081,839		\$147,465	\$1,229,304
	Subtask 7.6 - Design Changes and Change Orders	2357	\$499,564		\$118,305	\$617,869
	Subtask 7.7 - Site Visits and Factory Witness Test	5388	\$924,869	\$70,000	\$96,558	\$1,091,427
	Subtask 7.8 - Vendor Training	464	\$103,528		\$0	\$103,528
	Subtask 7.9 - Operation and Maintenance Manual	1310	\$247,555		\$0	\$247,555
	Subtask 7.10 - Develop Standard Operating Procedures	1265	\$273,383		\$107,800	\$381,183
	Subtask 7.11 - Start Up and Commissioning	6080	\$1,295,559	\$251,000	\$276,210	\$1,822,769
	Subtask 7.12 - Final Walk Through and Punchlists	480	\$103,730		\$3,036	\$106,766
	Subtask 7.13 - Record Drawings	1068	\$199,492		\$40,436	\$239,928
	Subtask 7.14 - Project and Permitting Closeout	860	\$173,954	\$10,000	\$60,940	\$244,894
	PHASE 2 TOTAL	41613	\$ 8,745,887	\$ 501,000	\$ 1,132,504	\$ 10,379,391

CD SI	M Position/Title	Construction Manager	Area Leader	Senior Technical Advisor/Specialist	Senior Technical Advisor/Specialist	Administrative Assistant	Designer	Engineer IV	Water Plant Operator	Senior Technical Advisor/Specialist	Senior Design Engineer	Associate/ Principal	Engineer III	Senior Technical Advisor/Specialist
	Billing Rate	\$ 275.00	\$ 344.30	\$ 287.10	\$ 287.10	\$ 137.50	\$ 149.60	\$ 201.30	\$ 150.00	\$ 287.10	\$ 240.90	\$ 310.20	\$ 178.20	\$ 287.10
TASK 7	ENGINEERING SERVICES DURING CONSTRUCTION													
	Subtask 7.1 - Task Management	512	640	110	50	50							100	40
	Subtask 7.2 - Meetings During Construction	200	28	202									120	20
	Subtask 7.3 - Construction Engineering Coordination	2000	120	300		120							2260	
	Subtask 7.4 - Review of Submittals and Substitutions	200		200	40	120	20	80	40	80	40	80	400	40
	Subtask 7.5 - Requests for Information and Clarifications	500		120		120							200	
	Subtask 7.6 - Design Changes and Change Orders	220	60	120									200	
	Subtask 7.7 - Site Visits and Factory Witness Test	120	60	200								40	120	
	Subtask 7.8 - Vendor Training	20		20				108			60		20	
	Subtask 7.9 - Operation and Maintenance Manual	20		20			420	380			230		40	
	Subtask 7.10 - Develop Standard Operating Procedures	40		80			60	300			280		40	
	Subtask 7.11 - Start Up and Commissioning	900		160				500	1350	640		100	800	
	Subtask 7.12 - Final Walk Through and Punchlists	140		80		40							160	
	Subtask 7.13 - Record Drawings	80		40								8	100	
	Subtask 7.14 - Project and Permitting Closeout	160	80	20		100							180	
	PHASE 2 TOTAL													
	Labor Subtotal Hours	5112	988	1672	90	550	500	1368	1390	720	610	228	4740	100
	Labor Subtotal Costs	\$ 1,405,800	\$ 340,168	\$ 480,031	\$ 25,839	\$ 75,625	\$ 74,800	\$ 275,378	\$ 208,500	\$ 206,712	\$ 146,949	\$ 70,726	\$ 844,668	\$ 28,710

CD SI	M Position/Title	Senior Designer	Engineer IV	Engineer IV	Senior Design Engineer	Engineer IV	Professional Geologist	Geologist	Geologist	Geologist	Principal Architect	Principal Architect	Architect	Vice President	Senior Technical Advisor/Specialist
	Billing Rate	\$ 172.70	\$ 201.30	\$ 201.30	\$ 240.90	\$ 201.30	\$ 253.00	\$ 126.50	\$ 126.50	\$ 126.50	\$ 253.00	\$ 253.00	\$ 137.50	\$ 350.90	\$ 287.10
TASK 7	ENGINEERING SERVICES DURING CONSTRUCTION														
	Subtask 7.1 - Task Management						40				40			40	
	Subtask 7.2 - Meetings During Construction		60				60				20	100		10	40
	Subtask 7.3 - Construction Engineering Coordination	20	80			260	10	60		240	40			40	40
	Subtask 7.4 - Review of Submittals and Substitutions	80	300	300	250	200	60	120	80	80	140	280	300	200	220
	Subtask 7.5 - Requests for Information and Clarifications		200	90	60	80	10	80			80	240	300		200
	Subtask 7.6 - Design Changes and Change Orders		80	80	40	40		20				40	120	20	60
	Subtask 7.7 - Site Visits and Factory Witness Test	24	120	60	60	24	40	800	1000	1000	60	120	120		90
	Subtask 7.8 - Vendor Training														
	Subtask 7.9 - Operation and Maintenance Manual														
	Subtask 7.10 - Develop Standard Operating Procedures														
	Subtask 7.11 - Start Up and Commissioning				120	60	20	60							
	Subtask 7.12 - Final Walk Through and Punchlists														
	Subtask 7.13 - Record Drawings		40	40									60		
	Subtask 7.14 - Project and Permitting Closeout														
	PHASE 2 TOTAL														
	Labor Subtotal Hours	124	880	570	530	664	240	1140	1080	1320	380	780	900	310	650
	Labor Subtotal Costs	\$ 21,415	\$ 177,144	\$ 114,741	\$ 127,677	\$ 133,663	\$ 60,720	\$ 144,210	\$ 136,620	\$ 166,980	\$ 96,140	\$ 197,340	\$ 123,750	\$ 108,779	\$ 186,615

CE	CDM Position/Title		Engineer IV	Senior Technical Advisor/Specialist	Engineer III	Engineer III	Engineer III	Senior Designer	Senior Technical Advisor/Specialist	Engineer III	Engineer II	Senior Technical Advisor/Specialist	Engineer II	Senior Design Engineer
	Billing Rate	\$ 144.10	\$ 201.30	\$ 287.10	\$ 178.20	\$ 178.20	\$ 178.20	\$ 172.70	\$ 287.10	\$ 178.20	\$ 144.10	\$ 287.10	\$ 144.10	\$ 240.90
TASK 7	ENGINEERING SERVICES DURING CONSTRUCTION													
	Subtask 7.1 - Task Management			40					40			40		
	Subtask 7.2 - Meetings During Construction	20	20	100					20			10		60
	Subtask 7.3 - Construction Engineering Coordination				55					40				40
	Subtask 7.4 - Review of Submittals and Substitutions	220	220	20	250	300	300	120	100	250	250	40	300	300
	Subtask 7.5 - Requests for Information and Clarifications	50	250	80	220	200	200		100	200	120	60	200	240
	Subtask 7.6 - Design Changes and Change Orders	60	60	40	80	80	80	80	40	60	60	40	100	100
	Subtask 7.7 - Site Visits and Factory Witness Test	60	60		100	80	160		20	90	60		20	280
	Subtask 7.8 - Vendor Training				12	12	12							
	Subtask 7.9 - Operation and Maintenance Manual				40	40	40							20
	Subtask 7.10 - Develop Standard Operating Procedures				80	45	40							80
	Subtask 7.11 - Start Up and Commissioning			80	200	60	100					40	140	300
	Subtask 7.12 - Final Walk Through and Punchlists													
	Subtask 7.13 - Record Drawings	40			20	80	40	240		40				
	Subtask 7.14 - Project and Permitting Closeout	40	_		20	40	40			40	40			
	PHASE 2 TOTAL													
	Labor Subtotal Hours	490	610	360	1077	937	1012	440	320	720	530	230	760	1420
	Labor Subtotal Costs	\$ 70,609	\$ 122,793	\$ 103,356	\$ 191,921	\$ 166,973	\$ 180,338	\$ 75,988	\$ 91,872	\$ 128,304	\$ 76,373	\$ 66,033	\$ 109,516	\$ 342,078

CD	CDM Position/Title		Engineer III	Senior Design Engineer	Senior Designer	Senior Technical Advisor/Specialis t		Sr. Project Controls	Project Accounting	Administrative Assistant	Senior Designer	Total Labor (hrs)	Total Labor (\$)
	Billing Rate	\$ 258.50	\$ 178.20	\$ 240.90	\$ 172.70	\$ 287.10	\$ 240.90	\$ 253.00	\$ 152.90	\$ 137.50	\$ 172.70		
TASK 7	ENGINEERING SERVICES DURING CONSTRUCTION												
	Subtask 7.1 - Task Management	40				40		100	200	80		2202	\$600,699
	Subtask 7.2 - Meetings During Construction	20		60			96					1266	\$323,807
	Subtask 7.3 - Construction Engineering Coordination			40			10			60		5835	\$1,291,554
	Subtask 7.4 - Review of Submittals and Substitutions	40	250	200	150	200	200			88	100	7848	\$1,626,355
	Subtask 7.5 - Requests for Information and Clarifications	100	160	260		20	120			80		5190	\$1,081,839
	Subtask 7.6 - Design Changes and Change Orders		100	100	80	20	20			20	37	2357	\$499,564
	Subtask 7.7 - Site Visits and Factory Witness Test		80	220		20	20			60		5388	\$924,869
	Subtask 7.8 - Vendor Training			180						20		464	\$103,528
	Subtask 7.9 - Operation and Maintenance Manual									60		1310	\$247,555
	Subtask 7.10 - Develop Standard Operating Procedures			160						60		1265	\$273,383
	Subtask 7.11 - Start Up and Commissioning		100	300						50		6080	\$1,295,559
	Subtask 7.12 - Final Walk Through and Punchlists									60		480	\$103,730
	Subtask 7.13 - Record Drawings			40	80					60	60	1068	\$199,492
	Subtask 7.14 - Project and Permitting Closeout								40	60		860	\$173,954
	PHASE 2 TOTAL								_				
	Labor Subtotal Hours	200	690	1560	310	300	466	100	240	758	197	41613	
	Labor Subtotal Costs	\$ 51,700	\$ 122,958	\$ 375,804	\$ 53,537	\$ 86,130	\$ 112,259	\$ 25,300	\$ 36,696	\$ 104,225	\$ 34,022		\$8,745,887

DESIGN BUILDER PERSONNEL HOURLY RATE SCHEDULE CDM CONSTRUCTORS INC.

DESIGN AND CONSTRUCTION PROFESSIONAL SERVICES (November 4, 2025)

BILLING RATE RANGES BY POSITION/TITLE ^{1,2}						
Position/Title	Hourly Labor Billing Rate					
Vice President	\$350.90					
Associate/Principal	\$310.20					
Senior Technical Advisor/Specialist	\$287.10					
Technical Advisor/Specialist	\$258.50					
Design Build Project Manager	\$374.00					
Deputy Design Build Project Manager	\$179.30					
Project Manager	\$201.30					
Senior Design Engineer	\$240.90					
Engineer IV	\$201.30					
Engineer III	\$178.20					
Engineer II	\$144.10					
Engineer I	\$126.50					
Senior Designer	\$172.70					
Designer	\$149.60					
Administrative Assistant	\$137.50					
Principal Architect	\$253.00					
Architect	\$137.50					
Senior Environmental Specialist	\$224.40					
Professional Geologist	\$253.00					
Geologist	\$126.50					
Senior GIS Technician	\$240.90					
GIS Technician	\$126.50					
Senior Construction Field Representative	\$253.00					
Area Leader	\$344.30					
Design-Build Project Director	\$352.00					
Preconstruction Manager	\$286.00					
Electrical Delivery Lead	\$213.40					
I&C Integration Manager	\$220.00					
Project Accounting	\$152.90					
VDC Manager	\$152.90					
Health & Safety Manager	\$280.50					
Sr Quality Manager	\$280.50					
Lead Procurement	\$106.70					
Water Plant Operator	\$150.00					
Sr. Procurement Manager	\$207.90					
Construction Manager	\$275.00					
General Superintendent	\$228.80					
Construction Specialist	\$136.40					
Lead Estimator	\$253.00					
Electrical Estimator	\$275.00					
Chief Estimator	\$275.00					
Estimating Manager	\$311.30					
Sr. Project Controls	\$253.00					

Note¹: These are representative Positions/Titles and their respective Billing Rates and may not include all positions that could be used throughout the term of the Design Build Agreement. These rates do not include project travel. Rates provided are in effect through March 30, 2027, and labor rate shall be escalated 5% beginning on April 1, 2027 and each April 1 thereafter. Subsequent Phase 1 rate escalation will be negotiated with the City of Delray.

Note²: The rates, information, and footnotes in this table are for the use in pricing the lump sum services for Engineering Services During Construction for the Deep Injection Wells.

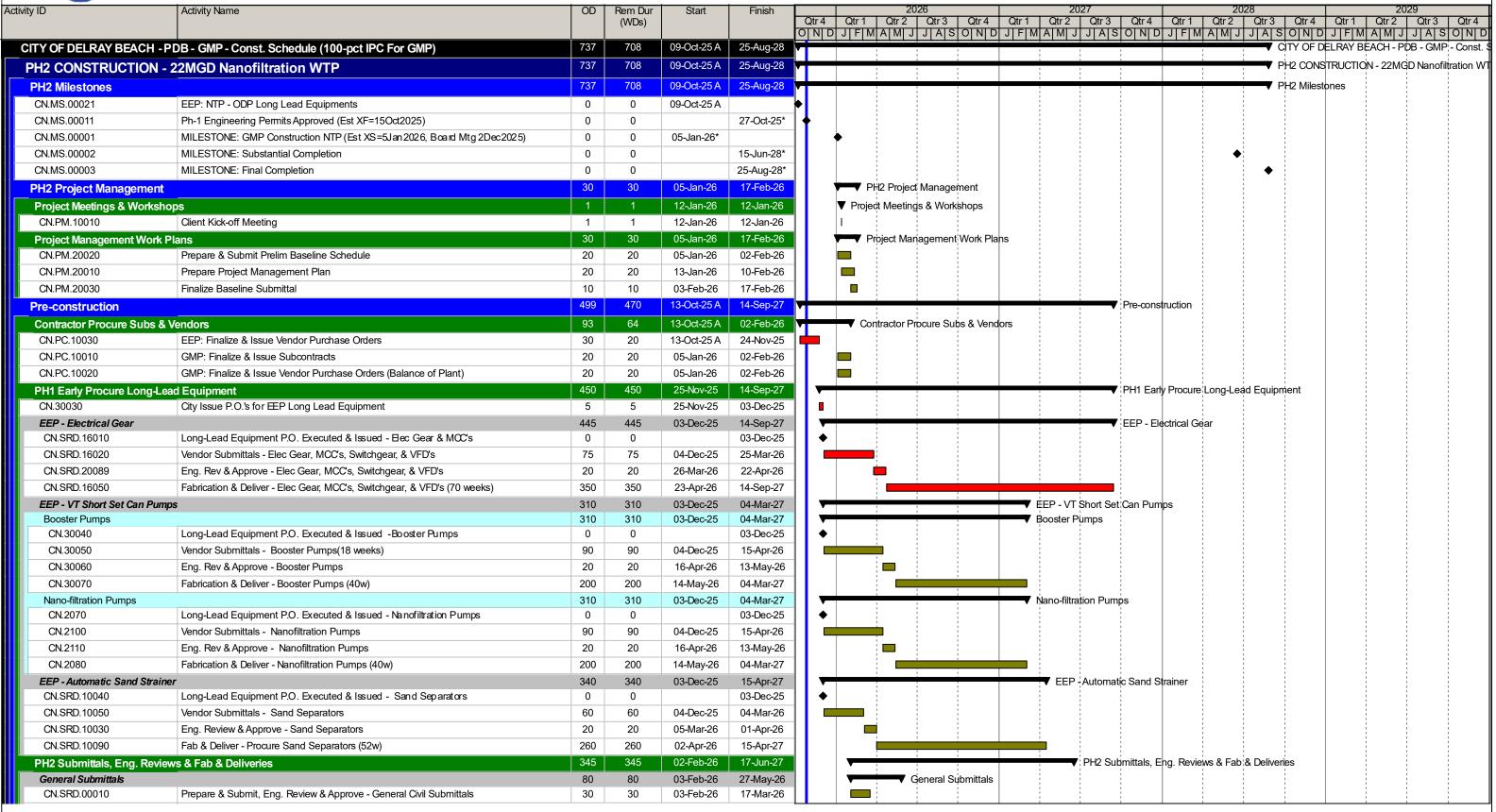
Attachment 5

Schedule



Print Date: 04-Nov-25 17:26

22MGD Nanofiltration Water Treatment Plant - PDB RFQ 2023-066



P6 ID: 291242.Client.GMP.BL01 Date Date: 26-Oct-25



PHASE 2 Pre-Construction Schedule - IFC

Detail Schedule by WBS

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22MGD Nanofiltration Water Treatment Plant - PDB RFQ 2023-066

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Activity ID	Activity Name	OD	Rem Dur (WDs)	Start	Finish	Qtr 4	Qtr 1	202 Qtr 2	Qtr 3	Qtr 4	Qtr 1	2027 Qtr 2	Qtr 3 Qtr 4	Qtr 1	2028 Qtr 2 Qtr 3	Qtr 4	Qtr 1	Qtr 2 029	Qtr 3 Qtr 4
ON ODD 00000				00.5 + 00	47.14	OND		+ + + +	JAS	DND	J F M	A M J J	A S O N	DJFMA	MJJAS	SOND	J F M A	A M J J	ASONE
CN.SRD.00020	Prepare & Submit, Eng. Review & Approve - Demo Plan	30	30	03-Feb-26	17-Mar-26	_		<u>. </u>											
CN.SRD.00030	Prepare & Submit, Eng Review & Approve, Fab/Del - Stormwater Manholes & Pipe	75	75	03-Feb-26	19-May-26	-								!		}	1	-	
CN.SRD.00040	Prepare & Submit, Eng Review & Approve - Site Electric Manholes	80	80	03-Feb-26	27-May-26												i !		
Procure Gas Generator &	•	275	275	02-Feb-26	10-Mar-27	ш						Procure Gas	Generator & F	uel Tank Syste	em		1 1 1		
CN.SRD.16110	Long-Lead Equipment - Natural Gas Generator & Fuel Sys	0	0		02-Feb-26	-	_	<u>i </u>									1		
CN.SRD.16120	Vendor Submittals - Natural Gas Generator & Fuel Sys	75	75	03-Feb-26	19-May-26	_		_						1			1 1 1		
CN.SRD.16130	Eng. Rev & Approve - Natural Gas Generator & Fuel Sys	20	20	20-May-26	17-Jun-26														
CN.SRD.16150	Fab & Deliver - Natural Gas Generator & Fuel Sys (36w)	180	180	18-Jun-26	10-Mar-27			-	:				i 1	1	i !		 		
CN.SRD.19879	Fab & Deliver - Fuel System (36w)	180	180	18-Jun-26	10-Mar-27				:										
Procure Surficial Biscayı	•	100	100	03-Feb-26	24-Jun-26	ш			Procure S	urficial Bi	scayne /	quifer Wells	į	i i	i !		; ; ;		
CN.SRD.20199	Prepare & Submit - Surficial Biscayne Aquifer Well Submittals	40	40	03-Feb-26	31-Mar-26												1		
CN.SRD.20209	Eng. Rev & Approve - Surficial Biscayne Aquifer Well Submittals	20	20	01-Apr-26	28-Apr-26										į		; ;	i	
CN.SRD.20219	Fab & Deliver Mat'ls / Mobilize - Surficial Biscayne Aquifer Well	40	40	29-Apr-26	24-Jun-26	Ш											1		
Procure Deep Injection W	Vell State of the	200	200	03-Feb-26	17-Nov-26	Ш		1 1			cure De	p Injection \	Vell	1			; ;	i	
DIW#2 Submittals		80	80	03-Feb-26	27-May-26			DIV	W#2 Subn	nittals				1		}	!		
CN.SRD.20010	Prepare & Submit - DIW#2 Submittals	40	40	03-Feb-26	31-Mar-26			_									i 1	i	
CN.SRD.20020	Eng. Rev & Approve - DIW#2 Submittals	20	20	01-Apr-26	28-Apr-26									1			1		
CN.SRD.20030	Fab & Deliver / Mobilize - DIW#2	20	20	29-Apr-26	27-May-26														
DIW#1 Submittals		80	80	29-Apr-26	20-Aug-26				→ DľW	/#1 Subm	nittals		1	1			1 1 1	1	
CN.SRD.20139	Prepare & Submit - DIW#1 Submittals	40	40	29-Apr-26	24-Jun-26												1 1 1		
CN.SRD.20149	Eng. Rev & Approve - DIW#1 Submittals	20	20	25-Jun-26	23-Jul-26			•					į		i		; ; ;		
CN.SRD.20159	Fab & Deliver / Mobilize - DIW#1	20	20	24-Jul-26	20-Aug-26									1			 		
DZMW Submittals		80	80	24-Jul-26	17-Nov-26						MW Sub	mittals		1	i		; ; ;	i	
CN.SRD.20169	Prepare & Submit - DZMW Submittals	40	40	24-Jul-26	18-Sep-26												1		
CN.SRD.20179	Eng. Rev & Approve - DZMW Submittals	20	20	21-Sep-26	19-Oct-26				Ė	1							1		
CN.SRD.20189	Fab & Deliver / Mobilize - DZMW	20	20	20-Oct-26	17-Nov-26									1			1 1 1		
Procure 1st Underslab Ut	• •	60	60	03-Feb-26	28-Apr-26		_	Procu	ire 1st Unc	lerslab ψt	ility Rou	gh-in Materia	ls				1		
CN.SRD.10070	Prepare & Submit, Eng. Review & Approve - Utility Rough-in Materials	40	40	03-Feb-26	31-Mar-26												1		
CN.SRD.10130	Fab & Deliver - Utility Rough-in Materials	20	20	01-Apr-26	28-Apr-26												1		
Procure 1st Concrete Rei	inforcement	100	100	03-Feb-26	24-Jun-26		_		Procure 1	st Concre	ete Reinf	orcement	1	1	 	1	1 1 1	1	}
CN.SRD.10080	Prepare & Submit, Eng. Review & Approve - 1st Concrete Reinforcement	75	75	03-Feb-26	19-May-26												1		
CN.SRD.10140	Fab & Deliver - 1st Concrete Reinforcement, Booster PS	25	25	20-May-26	24-Jun-26								1	1			1 1 1		
Yard Piping		270	270	03-Feb-26	03-Mar-27	ш	_				`	ard Piping							
CN.SRD.10150	Prepare & Submit, Eng. Review & Approve - Yard Piping	60	60	03-Feb-26	28-Apr-26				1				1	1		1	1 1 1	1	
CN.SRD.10160	Fab & Deliver - Yard Piping	210	210	29-Apr-26	03-Mar-27														
Procure Booster Pumps		315	315	03-Feb-26	05-May-27	ш	_	1	1			Procur	e Booster Pum	ıps	 	1	1 1 1		}
CN.SRD.10020	Prepare & Submit, Eng. Review & Approve - Booster Pumps	75	75	03-Feb-26	19-May-26														
CN.SRD.10025	Fab & Deliver - Booster Pumps	240	240	20-May-26	05-May-27								1	1			1 1 1		1
Procure Clearwell Modific	cations	200	200	03-Feb-26	17-Nov-26							arwell Modifi	cations				1		
Concrete Submittals		160	160	03-Feb-26	18-Sep-26			1 1		Concrete	Submitta	als					İ		
CN.SRD.19060	Prepare & Submit, Eng. Review & Approve - Concete Rebar & Assessories	80	80	03-Feb-26	27-May-26	-													
CN.SRD.19070	Fab & Deliver - Concete Rebar & Assessories	80	80	28-May-26	18-Sep-26	11											i		
Process Piping Submittal		200	200	03-Feb-26	17-Nov-26				-	─ Pro	cess Pip	ing Submitta	ls		 		1		
CN.SRD.20229	Prepare & Submit - Process Piping & Accessories, Clearwell Mods	60	60	03-Feb-26	28-Apr-26	-							i 1 1		; ! !	1	i		1
CN.SRD.20239	Eng. Rev & Approve - Process Piping & Accessories, Clearwell Mods	20	20	29-Apr-26	27-May-26	1							1		!		1		
CN.SRD.20249	Fab & Deliver - Process Piping & Accessories, Clearwell Mods	120	120	28-May-26	17-Nov-26						_		1		: ! !	1	1		1
Procure Degassifier & Oc		235	235	03-Feb-26	11-Jan-27	H			-		Procu	e Degassifie	r & Odor Conti	ol Equipment	 	1	1		1
CN.SRD.19010	Prepare & Submit, Eng Review and Approve - Degassifier & Odor Control Sys	75	75	03-Feb-26	19-May-26				-					1	!	1	i		

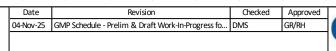
P6 ID: 291242.Client.GMP.BL01 Date Date: 26-Oct-25



PHASE 2 Pre-Construction Schedule - IFC

Detail Schedule by WBS

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22MGD Nanofiltration Water Treatment Plant - PDB RFQ 2023-066

A 41 11 12						0000
Activity ID	Activity Name	OD	Rem Dur (WDs)	Start	Finish	2026 2027 2028 2029 Qtr 4 Qtr 1 Qtr 2 Qtr 3
CN.SRD.19050	Fab & Deliver - Degassifier & Odor Control Sys	160	160	20-May-26	11-Jan-27	
Procure Raw Water Booste	er Pump Station Automatic Backwash Strainer	100	100	03-Feb-26	24-Jun-26	Procure Raw Water Booster Pump Station Automatic Backwash Strainer
CN.SRD.19090	Prepare & Submit- RW Booster Pump Stn Backwash Strainer	50	50	03-Feb-26	14-Apr-26	
CN.SRD.19095	Eng. Review and Approve-RW Booster Pump Stn Backwash Strainer	20	20	15-Apr-26	12-May-26	
CN.SRD.19099	Fab & Deliver-RW Booster Pump Stn Backwash Strainer	30	30	13-May-26	24-Jun-26	
Procure SAS Well Pumps		100	100	03-Feb-26	24-Jun-26	▼ Procure SAS Well Pumps
CN.SRD.19109	Prepare & Submit- SAS Well Pumps	50	50	03-Feb-26	14-Apr-26	
CN.SRD.19119	Eng. Review and Approve-SAS Well Pumps	20	20	15-Apr-26	12-May-26	
CN.SRD.19129	Fab & Deliver-SAS Well Pumps	30	30	13-May-26	24-Jun-26	
Procure Chemical Systems	S	100	100	03-Feb-26	24-Jun-26	Procure Chemical Systems
Procure Chemical System S	Sulfuric Pump Skid	100	100	03-Feb-26	24-Jun-26	Procure Chemical System Sulfuric Pump Skid
CN.SRD.19229	Prepare & Submit- Sulfuric Pump Skid	50	50	03-Feb-26	14-Apr-26	
CN.SRD.19239	Eng. Review and Approve– Sulfuric Pump Skid	20	20	15-Apr-26	12-May-26	
CN.SRD.19249	Fab & Deliver Sulfuric Pump Skid	30	30	13-May-26	24-Jun-26	
Procure Chemical System A	Antiscalant Dosing Pump Skid	100	100	03-Feb-26	24-Jun-26	Procure Chemical System Antiscalant Dosing Pump Skid
CN.SRD.19259	Prepare & Submit-Antiscalant Dosing Pump Skid	50	50	03-Feb-26	14-Apr-26	
CN.SRD.19269	Eng. Review and Approve-Antiscalant Dosing Pump Skid	20	20	15-Apr-26	12-May-26	
CN.SRD.19279	Fab & Deliver-Antiscalant Dosing Pump Skid	30	30	13-May-26	24-Jun-26	
Procure Chemical System S	Sodium Hypochlorite Transfer Pump No.1	100	100	03-Feb-26	24-Jun-26	Procure Chemical System Sodium Hypochlorite Transfer Pump No.1
CN.SRD.19289	Prepare & Submit-Sodium Hypochlorite Transfer Pump No.1	50	50	03-Feb-26	14-Apr-26	
CN.SRD.19299	Eng. Review and Approve-Sodium Hypochlorite Transfer Pump No.1	20	20	15-Apr-26	12-May-26	
CN.SRD.19309	Fab & Deliver-Sodium Hypochlorite Transfer Pump No.1	30	30	13-May-26	24-Jun-26	
Procure Chemical System A		100	100	03-Feb-26	24-Jun-26	Procure Chemical System Antiscalant Storage Tank
CN.SRD.19319	Prepare & Submit-Antiscalant StorageTank	50	50	03-Feb-26	14-Apr-26	The state of the s
CN.SRD.19329	Eng. Review and Approve-Antiscalant StorageTank	20	20	15-Apr-26	12-May-26	
CN.SRD.19339	Fab & Deliver-Antiscalant StorageTank	30	30	13-May-26	24-Jun-26	
Procure Chemical System S	<u> </u>	100	100	03-Feb-26	24-Jun-26	Procure Chemical System Sulfuric Storage Tanks
CN.SRD.19349	Prepare & Submit-Sulfuric Storage Tank	50	50	03-Feb-26	14-Apr-26	The state of the s
CN.SRD.19359	Eng. Review and Approve-Sulfuric Storage Tank	20	20	15-Apr-26	12-May-26	
CN.SRD.19369	Fab & Deliver-Sulfuric Storage Tank	30	30	13-May-26	24-Jun-26	
	Sodium Hypochlorite Day Tank	100	100	03-Feb-26	24-Jun-26	Procure Chemical System Sodium Hypochlorite Day Tank
CN.SRD.19379	Prepare & Submit-Sodium Hypochlorite Day Tank	50	50	03-Feb-26	14-Apr-26	
CN.SRD.19389	Eng. Review and Approve-Sodium Hypochlorite Day Tank	20	20	15-Apr-26	12-May-26	
CN.SRD.19399	Fab & Deliver-Sodium Hypochlorite Day Tank	30	30	13-May-26	24-Jun-26	
	Sodium Hydroxide Bulk Tank	100	100	03-Feb-26	24-Jun-26	Procure Chemical System Sodium Hydroxide Bulk Tank
CN.SRD.19409	Prepare & Submit- Sodium Hydroxide Bulk Tank	50	50	03-Feb-26	14-Apr-26	Troduid Chomical System Codium Hydroxido Cam Cam
CN.SRD.19419	Eng. Review and Approve- Sodium Hydroxide Bulk Tank	20	20	15-Apr-26	12-May-26	
CN.SRD.19429	Fab & Deliver- Sodium Hydroxide Bulk Tank	30	30	13-May-26	24-Jun-26	
	Sodium Hydroxide Day Tank	100	100	03-Feb-26	24-Jun-26	Procure Chemical System Sodium Hydroxide Day Tank
CN.SRD.19439	Prepare & Submit- Sodium Hydroxide Day Tank	50	50	03-Feb-26	14-Apr-26	Troduction Continued System Containing Grant Containing G
CN.SRD.19449	Eng. Review and Approve- Sodium Hydroxide Day Tank	20	20	15-Apr-26	12-May-26	
CN.SRD.19459	Fab & Deliver- Sodium Hydroxide Day Tank	30	30	13-May-26	24-Jun-26	
Procure Chemical System I	· · · · · · · · · · · · · · · · · · ·	100	100	03-Feb-26	24-Jun-26	Procure Chemical System Membrane Cleaning Tanks
CN.SRD.19469	Prepare & Submit– Membrane Cleaning Tanks	50	50	03-Feb-26	14-Apr-26	Trocard Charman Cyclem Membrano Chearing ranks
CN.SRD.19479	Eng. Review and Approve—Membrane Cleaning Tanks	20	20	15-Apr-26	12-May-26	
CN.SRD.19489	Fab & Deliver- Membrane Cleaning Tanks	30	30	13-Apr-26	24-Jun-26	
Procure Chemical System (<u> </u>	100	100	03-Feb-26	24-Jun-26	Procure Chemical System CIP Pump
CN.SRD.19499	Prepare & Submit- CIP Pump	50	50	03-Feb-26	14-Apr-26	Trocure Chemical System On Tump
3,1,3,13,10,100				00.0020	11710120	Date Revision Checked Approved

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Date Date: 26-Oct-25



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Detail Schedule by WBS

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 Revision
 Checked
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 04-Nov-25
 GMP Schedule - Prelim & Draft Work-In-Progress fo...
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22MGD Nanofiltration Water Treatment Plant - PDB RFQ 2023-066

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Activity ID	Activity Name	OD	Rem Dur (WDs)	Start	Finish	Qtr 4		026 Qtr 3 J A S	Qtr 4 C	Qtr 1 Q	2027 tr 2 Qtr 3 M J J A	3 Qtr 4	Qtr 1	2028 Qtr 2 Qtr A M J J A	73 Qtr 4	Qtr 1	Qtr 2 A M J	Qtr 3 Qtr 4
CN.SRD.19509	Eng. Review and Approve- CIP Pump	20	20	15-Apr-26	12-May-26													
CN.SRD.19519	Fab & Deliver- CIP Pump	30	30	13-May-26	24-Jun-26						; ;	1						
Procure Chemical System	Sodium Hydroxide Dosing Pump	100	100	03-Feb-26	24-Jun-26		1	▼ Procure 0	hemical Sy	stem Sodi	um Hydroxid	de Dosing Po	ump					
CN.SRD.19529	Prepare & Submit-Sodium Hydroxide Dosing Pump	50	50	03-Feb-26	14-Apr-26						1							
CN.SRD.19539	Eng. Review and Approve-Sodium Hydroxide Dosing Pump	20	20	15-Apr-26	12-May-26						; ; ;	į						
CN.SRD.19549	Fab & Deliver-Sodium Hydroxide Dosing Pump	30	30	13-May-26	24-Jun-26						!	1						
Procure Chemical System	Sodium Hypochlorite Dosing Pump	100	100	03-Feb-26	24-Jun-26		▼	▼ Procure 0	hemical Sy	stem Sodi	um Hypochl	i lorite Dosing	Pump					
CN.SRD.19559	Prepare & Submit- Sodium Hypochlorite Dosing Pump	50	50	03-Feb-26	14-Apr-26				'		[
CN.SRD.19569	Eng. Review and Approve- Sodium Hypochlorite Dosing Pump	20	20	15-Apr-26	12-May-26													
CN.SRD.19579	Fab & Deliver- Sodium Hypochlorite Dosing Pump	30	30	13-May-26	24-Jun-26						1 1 1				1		1	
Procure Chemical System	n Sulfuric Acid Transfer Pump	100	100	03-Feb-26	24-Jun-26			▼ Procure 0	hemical Sv	stem Sulfu	uric Acid Trai	; nsfer Pump						
CN.SRD.19589	Prepare & Submit-Sulfuric Acid Transfer Pump	50	50	03-Feb-26	14-Apr-26						1							
CN.SRD.19599	Eng. Review and Approve-Sulfuric Acid Transfer Pump	20	20	15-Apr-26	12-May-26						1							
CN.SRD.19609	Fab & Deliver- Sulfuric Acid Transfer Pump	30	30	13-May-26	24-Jun-26					i	; ; ;							
Procure Chemical System	·	100	100	03-Feb-26	24-Jun-26			▼ Procure 0	hemical Sy	; stem Flush	nina Pump				!		-	
CN.SRD.19619	Prepare & Submit- Flushing Pump	50	50	03-Feb-26	14-Apr-26						g							
CN.SRD.19629	Eng. Review and Approve- Flushing Pump	20	20	15-Apr-26	12-May-26					-	1 1 1	1					1	
CN.SRD.19639	Fab & Deliver- Flushing Pump	30	30	13-May-26	24-Jun-26	-					1							
Procure Degasifiers	Tab & Deliver- Hushing Fump	100	100	03-Feb-26	24-Jun-26			Procure'	Degasifiers	į	i 1	i !						
CN.SRD.19649	Prepare & Submit - Degassifiers	50	50	03-Feb-26	14-Apr-26			V Flocule, L	egasilicis	!	!	1						
CN.SRD.19659	Eng. Review and Approve- Degasifiers	20	20	15-Apr-26	12-May-26	-					; ;							
CN.SRD.19669	Fab & Deliver - Degassifiers	30	30	13-May-26	24-Jun-26	-					1	1						
	•		100	03-Feb-26				Drogues!	\oggaifier D		1	1						
Procure Degasifier Blower CN.SRD.19679	Prepare & Submit - Degassifier Blowers	100 50	50	03-Feb-26	24-Jun-26			Procure	Degasifier Bl	owers	1 1 1	1					1	
	•				14-Apr-26	-					!							
CN.SRD.19689	Eng. Review and Approve - Degassifier Blowers	20	20	15-Apr-26	12-May-26	_					į							
CN.SRD.19699	Fab & Deliver - Degassifier Blowers	30	30	13-May-26	24-Jun-26						1	1						
Procure Off gas scrubber	•	100	100	03-Feb-26	24-Jun-26		1	▼ Procure;0	Off gas scrul	ober systei	m ¦							
CN.SRD.19709	Prepare & Submit - Gas Scrubber System	50	50	03-Feb-26	14-Apr-26	_					1 1 1	1					1	
CN.SRD.19719	Eng. Review and Approve - Gas Scrubber System	20	20	15-Apr-26	12-May-26	_					1	1						
CN.SRD.19729	Fab & Deliver - Gas Scrubber System	30	30	13-May-26	24-Jun-26						; ; ;	į						
Procure Recirculate pump		100	100	03-Feb-26	24-Jun-26		1	▼ Procure:F	Recirculate p	oump ¦	!							
CN.SRD.19739	Prepare & Submit - Recirculating Pump	50	50	03-Feb-26	14-Apr-26					į	i !	1						
CN.SRD.19749	Eng. Review and Approve - Recirculating Pump	20	20	15-Apr-26	12-May-26						!							
CN.SRD.19759	Fab & Deliver - Recirculating Pump	30	30	13-May-26	24-Jun-26			71 1			; ;							
Procure Administration Bu	-	159	159	02-Feb-26	17-Sep-26		1	1	Procure Adn	ninistration	Building	1						
CN.SRD.09040	Prepare, Submit, Eng Rev, Fab/Del - Roof	75	75	02-Feb-26	18-May-26													
CN.SRD.09010	Prepare, Submit, Eng Rev, Fab/Del - 1st Concrete Reinforcing, Admin Bldg	90	90	02-Feb-26	09-Jun-26		i			-	1 1 1	1					1	
CN.SRD.09020	Prepare, Submit, Eng Rev, Fab/Del - HVAC System	100	100	02-Feb-26	23-Jun-26			J			1 1 1	1		1 I I I I I I I I I I I I I I I I I I I	1 1 1		1	
CN.SRD.09030	Prepare, Submit, Eng Rev, Fab/Del - Doors, Windows, Storefront, Admin Bldg	160	160	02-Feb-26	17-Sep-26						; 1 1	1		i i i i i i i i i i i i i i i i i i i	1 1 1		1	
CN.SRD.09000	Prepare, Submit, Eng Rev, Fab/Del - General Architectural Finishes	80	80	03-Feb-26	27-May-26					1	1	1			1			
Procure Process Building		159	159	02-Feb-26	17-Sep-26		▼	 	Procure Pro	cess Buildi	ing				; !			
CN.SRD.20069	Prepare, Submit, Eng Rev, Fab/Del - Roof	75	75	02-Feb-26	18-May-26							1					1	
CN.SRD.20039	Prepare, Submit, Eng Rev, Fab/Del - 1st Concrete Reinforcing, Admin Bldg	90	90	02-Feb-26	09-Jun-26						1							
CN.SRD.20059	Prepare, Submit, Eng Rev, Fab/Del - HVAC System	100	100	02-Feb-26	23-Jun-26]			1 1 1	1		i i i i i i i i i i i i i i i i i i i	1 1 1			1
CN.SRD.20049	Prepare, Submit, Eng Rev, Fab/Del - Doors, Windows, Storefront, Admin Bldg	160	160	02-Feb-26	17-Sep-26						1	1		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1		!	1
CN.SRD.20079	Prepare, Submit, Eng Rev, Fab/Del - General Architectural Finishes	80	80	03-Feb-26	27-May-26			1 1		i	i	: ! !			1		i	
Procure EEP - Switchboar		345	345	03-Feb-26	17-Jun-27		▼			- !	Procu	ıre EEP - Sw	vitchboards	3	!		-	!
CN.SRD.20109	Vendor Submittals - Switchboards	75	75	03-Feb-26	19-May-26						1							
				1.				· ·			Date	- '	Revisio	n	Chackad	Approved		-

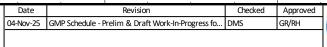
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PHASE 2 Pre-Construction Schedule - IFC

Detail Schedule by WBS

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22MGD Nanofiltration Water Treatment Plant - PDB RFQ 2023-066

Adv. Br						
tivity ID	Activity Name	OD	Rem Dur (WDs)	Start	Finish	2026 2027 2028 2029 Qtr 4 Qtr 1 Qtr 2 Qtr 3 Qtr 4 Qtr 3
			(**************************************			
CN.SRD.20119	Eng. Rev & Approve - Switchboards	20	20	20-May-26	17-Jun-26	
CN.SRD.20129	Fabrication & Deliver - Switchboards (50 weeks)	250	250	18-Jun-26	17-Jun-27	
Mobilization		94	94	05-Jan-26	18-May-26	▼ Mobilization
Construction Permitting		45	45	05-Jan-26	10-Mar-26	▼ Construction Permitting
CN.PMT.10010	Prepare & Submit Construction Permitting	5	5	05-Jan-26	09-Jan-26	
CN.PMT.10020	Agency Review Construction Permit & Approve	40	40	12-Jan-26	10-Mar-26	
Site Mobilization		17	17	18-Mar-26	09-Apr-26	Site Mobilization
CN.SM.10010	Commence Initial Site Preparation	0	0	18-Mar-26		
CN.SM.10020	Initial Site Survey	5	5	18-Mar-26	24-Mar-26	
CN.SM.10030	Utility Locates	5	5	25-Mar-26	31-Mar-26	
CN.SM.10040	Install Environmental Protection Measures	3	3	01-Apr-26	03-Apr-26	
CN.SM.10050	Environmental Protection Permit Inspection & Acceptance	1	1	06-Apr-26	06-Apr-26	
CN.SM.10100	Commence Construction / Permits Approved & Inspection Complete	0	0	07-Apr-26		
CN.SM.10060	Install Temporary Fencing	3	3	07-Apr-26	09-Apr-26	
Field Office Mobilization		30	30	07-Apr-26	18-May-26	▼ Field Office Mobilization
CN.POM.10010	Field Office Mobilization (Prepare & Set Trailers and Temp Utilities)	30	30	07-Apr-26	18-May-26	
Construction - 22MGD W7	TP TP	485	485	07-Apr-26	15-Mar-28	▼ Construction - 22MGD WTP
Demo & Utility Relocations		143	143	07-Apr-26	28-Oct-26	Demo & Utility Relocations
Site Demolition Plan		143	143	07-Apr-26	28-Oct-26	Site Demolition Plan
CN.100	General Site Demolition	20	20	07-Apr-26	04-May-26	
CN.200	Demo Existing Asphalt Pavement & Sidewalk Near New Admin building	3	3	10-Apr-26	14-Apr-26	
CN.220	Demo Existing Area Light, Utility Pole, Chain Link Fence, Posts, Gate & Foundation(Typ.) around NF Membrane Building	3	3	10-Apr-26	14-Apr-26	
CN.360	Demo Existing Electrical Feeder Line(3/1C-1000KCMIL) & Overhead Electric Wire (Near Admin Building)	2	2	15-Apr-26	16-Apr-26	
CN.230	Demo Existing Asphalt Pavement , Curb , Sidewalk & Tank Around NF Membrane Buildin	3	3	15-Apr-26	17-Apr-26	
CN.190	Demo Existing Stormwater System for Future Process Bldg Area	5	5	15-Apr-26	21-Apr-26	
CN.370	Demo Pumps with Electric motors, Control Panels ,Cable trays for Sludge Thickener No.2	3	3	17-Apr-26	21-Apr-26	
CN.350	Mill Existing Asphalt near New NF Membrane Building & Administration Building	3	3	20-Apr-26	22-Apr-26	
CN.340	Demo Existing Asphalt Pavement & Sidewalk near Upcoming Diesel Fuel Storage Tanks	5	5	20-Apr-26	24-Apr-26	
CN.260	Demo Elevated Walkway Between Existing Dewatering Building & Sludge Thickener#2 &	2	2	22-Apr-26	23-Apr-26	
	and associated Support & footings				·	
CN.380	Demo Existing electrical Equipments, Panelboards, Lighting & conduits for Dewatering Building	5	5	22-Apr-26	28-Apr-26	
CN.250	Demo Existing Sludge Thickener #2	10	10	22-Apr-26	05-May-26	
CN.320	Demo Elevated Walkway Between Sludge Thickene#2 & Sludge Thickener#1 and associated Support & footings	5	5	06-May-26	12-May-26	
CN.310	Demo Existing Sludge Pump Station & Appurtences	5	5	13-May-26	19-May-26	
CN.270	Demo Existing Dewatering Bldg & Overhead Steel Walkaway	10	10	13-May-26	27-May-26	
CN.300	Demo Existing Gravel Storage Yard	5	5	28-May-26	03-Jun-26	
CN.330	Demo Existing Detention Pond	5	5	28-May-26	03-Jun-26	
CN.280	Demo Existing Sludge Lagoon	5	5	04-Jun-26	10-Jun-26	
CN.390	Demo Existing Sodium Hypochlorite Containment Piping, inner Tubing & existing Railings for West Clearwell	5	5	04-Jun-26	10-Jun-26	
CN.290	Demo Concrete Pad & Appurtenances (Under Seperate Contract)*	5	5	22-Oct-26	28-Oct-26*	
Utility Relocations	11 \ \ 1 - /	30	30	13-May-26	24-Jun-26	▼ Utility Relocations
CN.2120	Relocate Existing Electric Manhole & buried Electric/Fiber Optic Service(Process Building Area)	10	10	13-May-26	27-May-26	

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Way Bu							 	000				07			0000				20
Activity ID	Activity Name	OD	Rem Dur (WDs)	Start	Finish	Qtr 4		026 Qtr 3	Qtr 4	Otr 1	20 Qtr 2		Qtr 4	Otr 1	2028 Qtr 2 0	Qtr 3 Otr 4	Otr 1	20 Qtr 2	29 Qtr 3 Qtr 4
			(**D3)				FMAM.	JAS	OND	JFN	MAM J	JAS	OND	JFM	AMJJ	ASON	DJFN	M A M J	JASON
CN.2000	Utility Relocations for Process Building Area	10	10	19-May-26	02-Jun-26														
CN.2130	Relocate Existing Fire Hydrant & Service Line(Process Building Area)	2	2	28-May-26	29-May-26		1								! !				
CN.2140	Protect Existing Junction Box, Electric manhole & Buried Cables, Overhead Wires (Process Building Area)	2	2	01-Jun-26	02-Jun-26		I									 			
CN.2240	Relocate NF Membrane Pilot Skid (East Clearwell)	5	5	11-Jun-26	17-Jun-26														1
CN.2150	Protect existing Water valves, Raw Water lines, Sanitary Sewer Manholes(Clearwell Area)	2	2	16-Jun-26	17-Jun-26		I									 			
CN.2180	Protect/Relocate Existing Water lines, Drain Lines, Buried electric & junction Boxes(Clearwell Area)	5	5	18-Jun-26	24-Jun-26											! ! !			
Yard Piping Demolition Plan		54	54	15-Apr-26	30-Jun-26			▼ Yard Pi	oing Dem	nolition Pl	an				i i i	i !			i !
CN.30100	Remove Existing 376 LF Storm Drain Pipe, Catch Basin & Buried Structure(Process Building Area)	18	18	15-Apr-26	08-May-26											 			
CN.30090	Remove Existing 99LF-8" PVC Sanitary Sewer Pipe(Process Building Area)	2	2	11-May-26	12-May-26		1												
CN.30110	Remove Existing 179LF-30' RCP Storm Drain & Buried Structure(NF Membrane Building)	2	2	03-Jun-26	04-Jun-26		1									!			
CN.30180	Remove Existing 73LF-15' RCP Storm Drain & Buried Structure(NF Membrane Building)	5	5	05-Jun-26	11-Jun-26						i								
CN.30120	Remove Existing 80 LF 6" PVC Portable Service Line(Near Sludge Thickener)	2	2	12-Jun-26	15-Jun-26		1									1			
CN.30190	Remove Existing 183 LF- 8" VCP Sanitary Sewer Pipe & Manhole(Near Chemical Storage)	2	2	16-Jun-26	17-Jun-26		I									 			
CN.30130	Remove Existing 76LF -15" DIP Storm Drain & Concrete Wa II(Near Clearwe II)	2	2	16-Jun-26	17-Jun-26		ı												
CN.30200	Remove Existing 122 LF-30" Washwater Drain Line to be removed(Near Chemical Storage)	2	2	18-Jun-26	19-Jun-26											 			
CN.30210	Remove Existing 43 LF-24" DIP Storm Drain(Near Clearwell)	2	2	22-Jun-26	23-Jun-26			I			1					1			
CN.30140	Remove 24" Raw Water Line, 20" Raw Water Line(Seperate Contract)*	5	5	24-Jun-26	30-Jun-26			ď											
Sitework		479	479	15-Apr-26	15-Mar-28		—				:			 	Sitework				
Site Preparation		6	6	15-Apr-26	22-Apr-26		▼ Site	Preparatio	n							1			
CN.210	Install Stabilized Construction Entrance(1 Nos.) Near New Admin Building	3	3	15-Apr-26	17-Apr-26		I												1
CN.240	Install Stabilized Construction Entrance(2 Nos.) Near Process Area & new Booster Pump Station(1 nos)	3	3	20-Apr-26	22-Apr-26		I												
Site Improvements & Restora		454	454	20-May-26	15-Mar-28		_				1			_	Site Improve	ements & Rest	toration		
CN.SI.20010	Final Site Improvements & Restoration	50	50	04-Jan-28	15-Mar-28											1			
Stormwater Improvements		40	40	20-May-26	16-Jul-26		_	Storm	water Im	proveme	nts				! ! !	i !			
CN.SW.10010	Construct Stormwater Detention System	40	40	20-May-26	16-Jul-26			-								 			
Membrane Bldg Stormwater System		10	10	20-May-26	03-Jun-26	_	₩.	Membrane	Bldg St	ormwater	System					i !			i !
CN.2010	Install Stormwater Drainage System at Process Area	10	10	20-May-26	03-Jun-26		_	0.4	-141							1			
Site Electrical CN.30020	Install Site Electrical Manholes & Ductbanks	40 40	40 40	28-May-26 28-May-26	23-Jul-26 23-Jul-26			Site I	Electrical							!			
Yard Piping	Install Site Electrical Marinoles & Ductbarks	286	286	01-Jul-26	20-Aug-27						i	Y:	ard Piping						
CN.YP.00010	Utility Locates, Potholing & Relocations (As necessary)	200	20	01-Jul-26	29-Jul-26							▼ 10	ila i ipilig	'		1			
CN.YP.00020	Yard Piping- 36"-DGWT-HDPE (Clearwell to Degasifier)	5	5	01-5ui-20 04-Mar-27	10-Mar-27	-					!								1
CN.YP.40050	Yard Piping - 3/4"(3")-NaOH-PVC(PVC to Clearwell)	20	20	04-Mar-27	31-Mar-27	-					i								1
CN.YP.40070	Yard Piping -30"-DGWT-HDPE(36" inch-DGWT to Clarifier)	5	5	11-Mar-27	17-Mar-27	-	1			-					1 1 1 1 1 1	 			:
CN.YP.60010	Yard Piping -28"-FBL-HDPE(Process Bldg to Dry Retention Basin)	10	10	11-Mar-27	24-Mar-27	-					ı.					1			:
CN.YP.50010	Yard Piping - 6"-BW-PVC & 12"-BW-PVC (Sand Strainer Backwash to Stormwater Pond)	4	4	01-Apr-27	06-Apr-27	-				"	· ;					! ! !			
CN.YP.40040	Yard Piping-5/8"(2")-NaOCI-PE (PVC) (From Clearwell to In-Line Static Mixer Vault)	5	 5	07-Apr-27	13-Apr-27	-					<u></u>								1
CN.YP.20010	Yard Piping - 42"-SARW-HDPE to Cartridge Filters (Booster Pump / Sand Strainer to Process Bldg)	20	20	25-Jun-27	23-Jul-27											! ! ! !			
CN.YP.40030	Yard Piping- (2)3/4"-SA-FKM (PVDF Containment)(Membrane Building to Chemical Storage Area)	20	20	01-Jul-27	29-Jul-27		 									 			
CN.YP.30010	Yard Piping - 42"-NFP-HDPE (Process Building to Degassisfier)	20	20	01-Jul-27	29-Jul-27		 									 			

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MAY BE																			
Activity ID	Activity Name	OD	Rem Dur	Start	Finish	Qtr 4	Otr		026 Otr 3	Otr	4 Otr	1 (2027 Otr 2 Ot	r3 Otr	4 (2028 Qtr 1 Qtr 2 Qtr 3 Qtr 4	1 Otr	20: Otr 2	
			(WDs)				D J F	MAM	JAS	ON	DJF	MA		AIS OI NI	DJ		DJF	M A M J	JASONE
CN.YP.40010	Yard Piping - 20"-NFC HDPE Deep Well Injection 2,STA0+00 to 6+70	30	30	01-Jul-27	12-Aug-27				:	:		-							:
CN.YP.10010	Yard Piping - 36"-SARW-DI (Booster PS to Raw Water Intake)	20	20	26-Jul-27	20-Aug-27														
CN.YP.40020	Yard Piping - 20"-NFC HDPE Deep Well Injection 1	5	5	13-Aug-27	19-Aug-27					-		-	1 1 1						
CN.YP.40060	Yard Piping- 4"-SPL-HDPE(20"-NFC HDPE to DZMW-1)	5	5	13-Aug-27	19-Aug-27								1						
Surficial Biscayne Aquifier	Wells	362	362	25-Jun-26	07-Dec-27			•	VI	1		- 1	- i	- i	▼ Su	rficial Biscayne Aquifier Wells			İ
Surficial Well 46 (Delray Bea		79	79	25-Jun-26	16-Oct-26			,	 	┆ Sι	urficial We	ell 46 (E	Delray Beac	h Golf Club) (105	-165 Ft)			
Well Development		49	49	25-Jun-26	02-Sep-26			-	<u>'</u>	1	evelopme	, ,							}
CN.130.46100	Commence Work - Surficial Aquifer Well 46	0	0	25-Jun-26				•	•	1			1 1 1	1					
CN.130.46110	Well Development (Drilling & Install Well Pump)	10	10	30-Jun-26	14-Jul-26					-			1 1 1	1					
CN.130.46120	Well Development Clean-up and Prep Slab-on-Grade	2	2	15-Jul-26	16-Jul-26				1										
CN.130.46125	F/R/P Concrete Well Pedistal, Cure & Strip Forms	7	7	15-Jul-26	23-Jul-26					1			1	1					
CN.130.46135	Rough-in Underslab Electrical	2	2	17-Jul-26	20-Jul-26				1				<u>;</u>						
CN.130.46130	Rough-in Thru Slab & Underslab DIP to 12" PVC Adapter	3	3	24-Jul-26	28-Jul-26			!	1	}			:	!					
CN.130.46140	F/R/P Well Pad Concrete Slab-on-Grade, Cure & Strip Forms	10	10	24-Jul-26	06-Aug-26								; ;						į
CN.130.46150	Install Pipe Supports	2	2	07-Aug-26	10-Aug-26			!					1 1 1	1 1 1					
CN.130.46160	Install Well Pump	2	2	11-Aug-26	12-Aug-26			: ! !	1			i	! ! !	; 1 1					
CN.130.46170	Install A/G Piping & Appurtances	5	5	13-Aug-26	19-Aug-26					-			1	1					
CN.130.46180	Pipe Coatings	5	5	20-Aug-26	26-Aug-26					-			i 1 1	1					į
CN.130.46190	Contractor Completion List - Well 46	5	5	27-Aug-26	02-Sep-26					-			1	1					
Well Electrical Panel Work		24	24	07-Aug-26	10-Sep-26				_	Well E	Electrical F	; Panel ∖	Work !	; ; ;					
CN.130.46200	Rough-in Underslab Electrical for Elec Panel SoG	2	2	07-Aug-26	10-Aug-26				ı	1			1	1					
CN.130.46210	F/R/P Well Elec Panel Concrete Slab-on-Grade	10	10	11-Aug-26	24-Aug-26					-			i 1	i 1					
CN.130.46220	Install Well Panel - Power & Terminate to Well Pump	7	7	25-Aug-26	02-Sep-26								1	1					
CN.130.46230	Electrical Check-out - Well 46	5	5	03-Sep-26	10-Sep-26								; ; ;	; ; ;					
Well Site Work		54	54	25-Jun-26	10-Sep-26			,	-	: Well S	Site Work		1	1					
CN.130.46310	Clear & Grub and Prep for Well Development	3	3	25-Jun-26	29-Jun-26								i 1 1	i !					į
CN.130.46320	Final Grade Area & Restore	3	3	25-Aug-26	27-Aug-26				1	-			1	1					
CN.130.46330	Install Gravel	2	2	28-Aug-26	31-Aug-26					-			i 1	i 1					
CN.130.46340	Install Fencing	3	3	01-Sep-26	03-Sep-26				1				1	1					
CN.130.46350	Mechanical Completion / Ready for COPI - Well 46	0	0	1	10-Sep-26				•	-			1 1 1	1 1 1		1 1 1 1 1 1 1 1 1			}
PVC RW Pipe Installation / 0		56	56	29-Jul-26	16-Oct-26				_	; P \	/C RW Pii	; pe l'nst	tallation / C	OPI & ORT					
CN.130.46410	Well 46 - Install 12" PVC, Well 46 to 16" PVC RW	5	5	29-Jul-26	04-Aug-26			1			, ,		-	-					}
CN.130.46510	Well 46 - Disinfect and Obtain COPI	20	20	11-Sep-26	08-Oct-26									1					
CN.130.46520	Well 46 - Perform ORT	5	5	09-Oct-26	16-Oct-26														
Surficial Well 47 (Delray Bea	ach Golf Club) (105-165 Ft)	83	83	24-Jul-26	20-Nov-26				-	;	Surficial	Well 4	; 17 (Delray B	each Golf C	Club) (105-165 Ft)			
CN.130.46510 CN.130.46520 Surficial Well 47 (Delray Bea	,,	53	53	24-Jul-26	07-Oct-26				-		ell Develop				(
CN 130 47100	Commence Work - Surficial Aquifer Well 47	0	0	24-Jul-26					•				! ! !	i !					
CN.130.47110	Well Development (Drilling & Pump Install)	10	10	29-Jul-26	11-Aug-26			!					1 1 1	1					
CN.130.47125	F/R/P Concrete Well Pedistal, Cure & Strip Forms	7	7	12-Aug-26	20-Aug-26			: ! !				i	! ! !	; 1 1					
CN.130.47120	Well Development Clean-up and Prep Slab-on-Grade	2	2	21-Aug-26	24-Aug-26			1	1				1 1 1	1 1 1					
CN.130.47135	Rough-in Underslab Electrical	2	2	25-Aug-26	26-Aug-26			!	1			i	;	; !					
CN.130.47130	Rough-in Thru Slab & Underslab DIP to 12" PVCAdapter	3	3	25-Aug-26	27-Aug-26				1				1 1 1	1 1 1					
CN.130.47140	F/R/P Well Pad Concrete Slab-on-Grade, Cure & Strip Forms	10	10	27-Aug-26	10-Sep-26			: !				i	; ; ;	: 1 1					į
CN.130.47150	Install Pipe Supports	2	2	11-Sep-26	14-Sep-26			! ! !	1				1 1 1	1 1 1					
CN.130.47160	Install Well Pump	2	2	15-Sep-26	16-Sep-26			! ! !	1			i	; ; ;	; 1 1					
CN.130.47170	Install A/G Piping & Appurtances	5	5	17-Sep-26	23-Sep-26					ı		-	 	1 1 1					
CN.130.47180	Pipe Coatings	5	5	24-Sep-26	30-Sep-26	1		: ! !		ď			; ; ;	: 1 1					
2.2.00	ı - ·-····g-	,		_ : 55p 20				1	!	-		- !	!	!				! !	<u> </u>

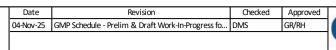
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PAY B															
Activity ID	Activity Name	OD	Rem Dur (WDs)	Start	Finish	Otr 4	Otr 1	2026		Otr 4	Otr 1	2027	Otr 4	2028 Qtr 1 Qtr 2 Qtr 3 Qtr 4	2029 Otr 1 Otr 2 Otr 3
			(VVDS)			ONI	JFN	MAMJJ	TAISO	N D	JFN	MAMJJAIS	OND		D J F M A M J J A S C
CN.130.47190	Contractor Completion List - Well 47	5	5	01-Oct-26	07-Oct-26				1				:		
Well Electrical Panel Work		24	24	11-Sep-26	15-Oct-26				*	Well E	Electrical	Panel Work	1		
CN.130.47200	Rough-in Underslab Electrical for Elec Panel SoG	2	2	11-Sep-26	14-Sep-26				1				1		
CN.130.47210	F/R/P Well Elec Panel Concrete Slab-on-Grade	10	10	15-Sep-26	28-Sep-26								1		
CN.130.47220	Install Well Panel - Power & Terminate to Well Pump	7	7	29-Sep-26	07-Oct-26								1		
CN.130.47230	Electrical Check-out - Well 47	5	5	08-Oct-26	15-Oct-26								1		
Well Site Work		58	58	24-Jul-26	15-Oct-26			1	- 	Well \$	Site Work	k	1		
CN.130.47310	Clear & Grub and Prep for Well Development	3	3	24-Jul-26	28-Jul-26				0						
CN.130.47320	Final Grade Area & Restore	3	3	29-Sep-26	01-Oct-26				į				1		
CN.130.47330	Install Gravel	2	2	02-Oct-26	05-Oct-26				ja (
CN.130.47340	Install Fencing	3	3	06-Oct-26	08-Oct-26				1				1		
CN.130.47350	Mechanical Completion / Ready for COPI - Well 47	0	0		15-Oct-26				•				1		
PVC RW Installation / COPI &	ORT	58	58	28-Aug-26	20-Nov-26				+	→ P	/C RW I	nstallation / COPI &	ORT		
CN.130.47410	Well 47 - Install 12" PVC, Well 46 to 16" PVC RW	10	10	28-Aug-26	11-Sep-26								1		
CN.130.47510	Well 47 - Disinfect and Obtain COPI	20	20	16-Oct-26	13-Nov-26								1		
CN.130.47520	Well 47 - Perform ORT	5	5	16-Nov-26	20-Nov-26					1			1		
Surficial Well 48 (Lakeview G	olf Club) (105-170 FT)	83	83	21-Aug-26	22-Dec-26				- 		Surficia	Well 48 (Lakeview	Golf Club) (105-170 FT)	
Well Development		53	53	21-Aug-26	05-Nov-26					▼ We	I Develo	pment	1		
CN.130.48100	Commence Work - Surficial Aquifer Well 48	0	0	21-Aug-26					•				1		
CN.130.48115	Well Development (Drilling & Pump Install)	10	10	26-Aug-26	09-Sep-26			i i					1		
CN.130.48120	Well Development Clean-up and Prep Slab-on-Grade	2	2	10-Sep-26	11-Sep-26				1				1		
CN.130.48125	F/R/P Concrete Well Pedistal, Cure & Strip Forms	7	7	14-Sep-26	22-Sep-26			1 1	0				1		
CN.130.48135	Rough-in Underslab Electrical	2	2	23-Sep-26	24-Sep-26				I.				1		
CN.130.48130	Rough-in Thru Slab & Underslab DIP to 12" PVC Adapter	3	3	23-Sep-26	25-Sep-26				I.				1		
CN.130.48140	F/R/P Well Pad Concrete Slab-on-Grade, Cure & Strip Forms	10	10	25-Sep-26	08-Oct-26				Ė				1		
CN.130.48150	Install Pipe Supports	2	2	09-Oct-26	13-Oct-26				0				1 1 1		
CN.130.48160	Install Well Pump	2	2	14-Oct-26	15-Oct-26				1				1		
CN.130.48170	Install A/G Piping & Appurtances	5	5	16-Oct-26	22-Oct-26								1 1		
CN.130.48180	Pipe Coatings	5	5	23-Oct-26	29-Oct-26								1		
CN.130.48190	Contractor Completion List - Well 48	5	5	30-Oct-26	05-Nov-26					.			1		
Well Electrical Panel Work		24	24	09-Oct-26	13-Nov-26				_	→ w	ell Electri	ical Panel Work	1		
CN.130.48200	Rough-in Underslab Electrical for Elec Panel SoG	2	2	09-Oct-26	13-Oct-26				0				1		
CN.130.48210	F/R/P Well Elec Panel Concrete Slab-on-Grade	10	10	14-Oct-26	27-Oct-26			i i					i !		
CN.130.48220	Install Well Panel - Power & Terminate to Well Pump	7	7	28-Oct-26	05-Nov-26								1		
CN.130.48230	Electrical Check-out - Well 48	5	5	06-Nov-26	13-Nov-26				į				1		
Well Site Work		58	58	21-Aug-26	13-Nov-26				-	▼ We	ell Site W	Vork	1		
CN.130.48310	Clear & Grub and Prep for Well Development	3	3	21-Aug-26	25-Aug-26				1				1		
CN.130.48320	Final Grade Area & Restore	3	3	28-Oct-26	30-Oct-26					1			1		
CN.130.48330	Install Gravel	2	2	02-Nov-26	03-Nov-26					ı			1		
CN.130.48340	Install Fencing	3	3	04-Nov-26	06-Nov-26					ı			1		
CN.130.48350	Mechanical Completion / Ready for COPI - Well 48	0	0		13-Nov-26	1				•			1 1 1		
PVC RW Installation / COPI &		58	58	28-Sep-26	22-Dec-26				-		PVC R	W Installation / COF	& ORT		
CN.130.48410	Well 48 - Install 12" PVC, Well 48 to 16" PVC RW	10	10	28-Sep-26	09-Oct-26				Ì				1 1		
CN.130.48510	Well 48 - Disinfect and Obtain COPI	20	20	16-Nov-26	15-Dec-26				:				1 1 1		
CN.130.48520	Well 48 - Perform ORT	5	5	16-Dec-26	22-Dec-26				i				1		
CN.130.48210 CN.130.48220 CN.130.48230 Well Site Work CN.130.48310 CN.130.48320 CN.130.48330 CN.130.48340 CN.130.48350 PVC RW Installation / COPI 8 CN.130.48510 CN.130.48520 Surficial Well 49 (Lakeview G	colf Club) (105-170 FT)	85	85	23-Sep-26	28-Jan-27				-		Sur	rficial Well 49 (Lake	ew Golf (Olub) (105-170 FT)	
Well Development		55	55	23-Sep-26	14-Dec-26				V			velopment	1		
· · · · · · · · · · · · · · · · · ·							1				_	 		1 1	<u> </u>

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22MGD Nanofiltration Water Treatment Plant - PDB RFQ 2023-066

PAY BY					2023-000									
Activity ID	Activity Name	OD	Rem Dur	Start	Finish	Qtr 4	Otr 1	2026	1 0	tr 1	2027	Otr 4	2028 Qtr 1 Qtr 2 Qtr 3 Qtr 4	2029
			(WDs)			OND	JIFIM	MAMJJASON		F M	AMJJAI	SOND		JIFIM AIMIJ JIAIS OINII
CN.130.49100	Commence Work - Surficial Aquifer Well 49	0	0	23-Sep-26							 			
CN.130.49110	Well Development (Drilling & Pump Install) - Well 49	10	10	30-Sep-26	14-Oct-26					- 1				
CN.130.49120	Well Development Clean-up and Prep Slab-on-Grade	2	2	15-Oct-26	16-Oct-26			1						
CN.130.49115	F/R/P Concrete Well Pedistal, Cure & Strip Forms	7	7	19-Oct-26	27-Oct-26	1				1	i ! !			
CN.130.49135	Rough-in Underslab Electrical	2	2	28-Oct-26	29-Oct-26	-								
CN.130.49130	Rough-in Thru Slab & Underslab DIP to 12" PVCAdapter	3	3	28-Oct-26	30-Oct-26	-				i	i !			
CN.130.49140	F/R/P Well Pad Concrete Slab-on-Grade, Cure & Strip Forms	10	10	30-Oct-26	13-Nov-26	-								
CN.130.49150	Install Pipe Supports	2	2	16-Nov-26	17-Nov-26	-				i				
CN.130.49160	Install Well Pump	2	2	18-Nov-26	17-Nov-26	-								
	'	5		20-Nov-26	30-Nov-26	-			_					
CN.130.49170	Install A/G Piping & Appurtances		5			-			.					
CN.130.49180	Pipe Coatings	5	5	01-Dec-26	07-Dec-26	-			<u>'</u> _					
CN.130.49190	Contractor Completion List - Well 49	5	5	08-Dec-26	14-Dec-26			i i _			į			
Well Electrical Panel Work	Pourt in the level of Electrical for Electrical Co.	24	24	16-Nov-26	21-Dec-26			Y	W	ell Elect	rical Panel Wor	rk		
CN.130.49200	Rough-in Underslab Electrical for Elec Panel SoG	2	2	16-Nov-26	17-Nov-26	-			_	i	1 1 1	1		
CN.130.49210	F/R/P Well Elec Panel Concrete Slab-on-Grade	10	10	18-Nov-26	03-Dec-26	-			_		1 1 1			
CN.130.49220	Install Well Panel - Power & Terminate to Well Pump	7	7	04-Dec-26	14-Dec-26	_				į				
CN.130.49230	Electrical Check-out - Well 49	5	5	15-Dec-26	21-Dec-26					- 1				
Well Site Work		60	60	23-Sep-26	21-Dec-26				W	ell Site	Work			
CN.130.49310	Clear & Grub and Prep for Well Development	5	5	23-Sep-26	29-Sep-26					- 1	1	1		
CN.130.49320	Final Grade Area & Restore	3	3	04-Dec-26	08-Dec-26				1					
CN.130.49330	Install Gravel	2	2	09-Dec-26	10-Dec-26				1	1	i !			
CN.130.49340	Install Fencing	3	3	11-Dec-26	15-Dec-26				1					
CN.130.49350	Mechanical Completion / Ready for COPI - Well 49	0	0		21-Dec-26				•					
PVC RW Installation / COPI &	ORT	58	58	02-Nov-26	28-Jan-27			_		PVC	RW Installation	/ COPI & OI	₹Т	
CN.130.49410	Well 49 - Install 12" PVC, Well 49 to 12" PVC RW Tee at Well 48 Connection	10	10	02-Nov-26	16-Nov-26									
CN.130.49510	Well 49 - Disinfect and Obtain COPI	20	20	22-Dec-26	21-Jan-27									
CN.130.49520	Well 49 - Perform ORT	5	5	22-Jan-27	28-Jan-27									
Surficial Well 50 (Lakeview G	Colf Club) (105-170 FT)	85	85	28-Oct-26	04-Mar-27			—		- ▼ \$ι	ırficial Well 50 (Lakeview G	olf Club) (105-170 FT)	
Well Development		55	55	28-Oct-26	20-Jan-27			_		Well D	evelopment			
CN.130.505100	Commence Work - Surficial Aquifer Well 50	0	0	28-Oct-26				•		- 1				
CN.130.505110	Well Development (Drilling & Pump Install)	10	10	04-Nov-26	18-Nov-26									
CN.130.505120	Well Development Clean-up and Prep Slab-on-Grade	2	2	19-Nov-26	20-Nov-26					1	1	1		
CN.130.505115	F/R/P Concrete Well Pedistal, Cure & Strip Forms	7	7	23-Nov-26	03-Dec-26									
CN.130.505135	Rough-in Underslab Electrical	2	2	04-Dec-26	07-Dec-26				1					
CN.130.505130	Rough-in Thru Slab & Underslab DIP to 12" PVC Adapter	3	3	04-Dec-26	08-Dec-26									
CN.130.505140	F/R/P Well Pad Concrete Slab-on-Grade, Cure & Strip Forms	10	10	08-Dec-26	21-Dec-26					- 1	1			
CN.130.505150	Install Pipe Supports	2	2	22-Dec-26	23-Dec-26				ı		1			
CN.130.505160	Install Well Pump	2	2	24-Dec-26	28-Dec-26					i	1 1 1	1		
CN.130.505170	Install A/G Piping & Appurtances	5	5	29-Dec-26	05-Jan-27	11			þ		1 1 1			
CN.130.505115 CN.130.505135 CN.130.505130 CN.130.505140 CN.130.505150 CN.130.505160 CN.130.505170 CN.130.505180 CN.130.505190 Well Electrical Panel Work CN.130.505200	Pipe Coatings	5	5	06-Jan-27	12-Jan-27					i	1	1		
CN.130.505190	Contractor Completion List - Well 50	5	5	13-Jan-27	20-Jan-27						1	1		
Well Electrical Panel Work	***	24	24	22-Dec-26	27-Jan-27				_	Well F	: Electrical Panel	Work		
CN.130.505200	Rough-in Underslab Electrical for Elec Panel SoG	2	2	22-Dec-26	23-Dec-26				il '					
CN.130.505210	F/R/P Well Elec Panel Concrete Slab-on-Grade	10	10	24-Dec-26	08-Jan-27	1					1			
CN.130.505220	Install Well Panel - Power & Terminate to Well Pump	7	7	11-Jan-27	20-Jan-27	1			T.		1			
CN.130.505230	Electrical Check-out - Well 50	5	5	21-Jan-27	27-Jan-27	1			-					
Well Site Work		60	60	28-Oct-26	27-Jan-27					ام/۸/	Site Work			
VIOIR ORC VIOIR		00	00	20-00-20	ZI Jail-ZI		<u> </u>	1		V V CIII, C	NO WOIK	-!		

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22MGD Nanofiltration Water Treatment Plant - PDB RFQ 2023-066

PAY BE					2023-000	
Activity ID	Activity Name	OD	Rem Dur	Start	Finish	2026 2027 2028 2029 Ote 4 Ote 4 Ote 3 Ote 4 Ote 4 Ote 3 Ote 3 Ote 4 Ote 3 Ote 3 Ote 4 Ote 3 Ote 3 Ote 4 Ote 3 Ote 3 Ote 4 Ote 3 Ote 3 Ote 4 Ote 5 Ote 5 Ote 6 Ote
			(WDs)			Qtr 4 Qtr 1 Qtr 2 Qtr 3 Qtr 4 Qtr 1 Qtr 2 Qtr 3 Qtr 4 Qtr 1 Qtr 2 Qtr 3 Qtr 4 Qtr 1 Qtr 3 Qtr 4 Qtr 1 Qtr 2 Qtr 3 Qtr 4 Qtr 3 Qtr 4 Qtr 1 Qtr 2 Qtr 3 Qtr 4 Qtr 3 Qtr 4 <th< th=""></th<>
CN.130.505310	Clear & Grub and Prep for Well Development	5	5	28-Oct-26	03-Nov-26	
CN.130.505320	Final Grade Area & Restore	3	3	11-Jan-27	13-Jan-27	
CN.130.505330	Install Gravel	2	2	14-Jan-27	15-Jan-27	
CN.130.505340	Install Fencing	3	3	19-Jan-27	21-Jan-27	
CN.130.505350	Mechanical Completion / Ready for COPI - Well 50	0	0		27-Jan-27	
PVC RW Installation / COPI	·	58	58	09-Dec-26	04-Mar-27	PVC RW Installation / COPI & ORT
CN.130.505410	Well 50 - Install 12" PVC, Well 50 to 12" PVC RW Tto 30" PE RW Line	25	25	09-Dec-26	14-Jan-27	V VOICE AND A STATE OF THE STAT
CN.130.50510	Well 50 - Disinfect and Obtain COPI	20	20	28-Jan-27	25-Feb-27	
CN.130.50520	Well 50 - Perform ORT	5	5	26-Feb-27	04-Mar-27	
Surficial Well 45 (Catherine S		85	85	04-Dec-26	07-Apr-27	Surficial Well 45 (Catherine Strong Park) (110-150 FT)
Well Development	Section and the section of the secti	55	55	04-Dec-26	24-Feb-27	Well Development
CN.130.45100	Commence Work - Surficial Aquifer Well 45	0	0	04-Dec-26		
CN.130.45110	Well Development (Drilling & Pump Install)	10	10	11-Dec-26	24-Dec-26	
CN.130.45120	Well Development Clean-up and Prep Slab-on-Grade	2	2	28-Dec-26	29-Dec-26	
CN.130.45240	Well Drilling Activities Complete	0	0		29-Dec-26	
CN.130.45115	F/R/P Concrete Well Pedistal, Cure & Strip Forms	7	7	30-Dec-26	08-Jan-27	
CN.130.45135	Rough-in Underslab Electrical	2	2	11-Jan-27	12-Jan-27	
CN.130.45130	Rough-in Thru Slab & Underslab DIP to 12" PVC Adapter	3	3	11-Jan-27	13-Jan-27	
CN.130.45140	F/R/P Well Pad Concrete Slab-on-Grade, Cure & Strip Forms	10	10	13-Jan-27	27-Jan-27	
CN.130.45150	Install Pipe Supports	2	2	28-Jan-27	29-Jan-27	
CN.130.45160	Install Well Pump	2	2	01-Feb-27	02-Feb-27	
	'					
CN.130.45170	Install A/G Piping & Appurtances	5	5	03-Feb-27	09-Feb-27	
CN.130.45180	Pipe Coatings	5	5	10-Feb-27	17-Feb-27	
CN.130.45190	Contractor Completion List - Well 45	5	5	18-Feb-27	24-Feb-27	
Well Electrical Panel Work	Devembling I be described. File attituded from Files Devemble Co.C.	24	24	28-Jan-27	03-Mar-27	▼ Well Electrical Panel Work
CN.130.45200	Rough-in Underslab Electrical for Elec Panel SoG	2	2	28-Jan-27	29-Jan-27	
CN.130.45210	F/R/P Well Elec Panel Concrete Slab-on-Grade	10	10	01-Feb-27	12-Feb-27	
CN.130.45220	Install Well Panel - Power & Terminate to Well Pump	7	7	16-Feb-27	24-Feb-27	
CN.130.45230	Electrical Check-out - Well 45	5	5	25-Feb-27	03-Mar-27	
Well Site Work		60	60	04-Dec-26	03-Mar-27	Vell Site Work
CN.130.45310	Clear & Grub and Prep for Well Development	5	5	04-Dec-26	10-Dec-26	
CN.130.45320	Final Grade Area & Restore	3	3	16-Feb-27	18-Feb-27	
CN.130.45330	Install Gravel	2	2	19-Feb-27	22-Feb-27	
CN.130.45340	Install Fencing	3	3	23-Feb-27	25-Feb-27	
CN.130.45350	Mechanical Completion / Ready for COPI - Well 45	0	0		03-Mar-27	
PVC RW Installation / COPI		58	58	14-Jan-27	07-Apr-27	PVC RW Installation / COPI & ORT
CN.130.45410	Well 45 - Install 12" PVC, Well 49 to 12" PVC RW Tto 30" PE RW Line	7	7	14-Jan-27	25-Jan-27	
CN.130.45510	Well 45 - Disinfect and Obtain COPI	20	20	04-Mar-27	31-Mar-27	
CN.130.45520	Well 45 - Perform ORT	5	5	01-Apr-27	07-Apr-27	
CN.130.10040	Mechanical Completion - Aquifer Wells	0	0		07-Apr-27	
Well Communication / FDT		35	35	15-Oct-27	07-Dec-27	▼ Well Communication / FDT
CN.130.99010	Mobile Private Network Configured and Cummunicating	10	10	15-Oct-27	28-Oct-27	
CN.130.99020	Verify Wireless Communication to Finalize ORT	15	15	29-Oct-27	19-Nov-27	
CN.130.99030	Complete FDT on New and Existing Wells	10	10	22-Nov-27	07-Dec-27	
Deep Injection Well (DIW)		162	162	03-Feb-27	22-Sep-27	Deep Injection Well (DIW)
DIW-2		139	139	03-Feb-27	19-Aug-27	DIW-2
Concrete		18	18	03-Feb-27	01-Mar-27	Concrete

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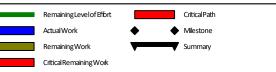


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22MGD Nanofiltration Water Treatment Plant - PDB RFQ 2023-066

MAY BY					2023-000										
Activity ID	Activity Name	OD	Rem Dur (WDs)	Start	Finish	Qtr 4	Otr 1	202 L Otr 2		Otr 4	Otr 1	2027	Otr 4	2028 Qtr 1 Qtr 2 Qtr 3 Qtr 4	2029 Otr 1 Otr 2 Otr 3 Otr 4
			(۷۷۵5)			ONE	JIFIM	A M J	JAS	OND	JFM	AMJJAS	SOND	JIFIM AIMIJ JIAISONID	J F M A M J J A S O N C
CN.1230	Commence Work- DIW-2	0	0	03-Feb-27*							•		:		
CN.1210	Prepare SoG Subgrade	3	3	10-Feb-27	12-Feb-27						1	<u> </u>			
CN.1220	F/R/P Wellhead & Pipe Support	10	10	16-Feb-27	01-Mar-27								-		
Drilling Work		66	66	03-Feb-27	07-May-27						_	Drilling Worl	c		
CN.1240	Mobilization ,Site Prep, Water Supply, Drill Pad And Fluid Management	5	5	03-Feb-27	09-Feb-27										
CN.1250	Furnish, Drill, Install And Grout 36" Steel Pit Casing	5	5	02-Mar-27	08-Mar-27						0				
CN.1260	Drill 34" Dia Borehole	5	5	09-Mar-27	15-Mar-27						0		1		
CN.1270	Cement Grouting	5	5	16-Mar-27	22-Mar-27				į						
CN.1280	Furnish, Drill, Install And Grout 24" SCH40 PVC Casing	5	5	23-Mar-27	29-Mar-27							i			
CN.1290	Drill 22" Dia Borehole	5	5	30-Mar-27	05-Apr-27				į				i !		
CN.1300	Furnish, Drill, Install And Grout 14" PVC SDR^26 Certainteed Certa-Lok Riser Casing	5	5	06-Apr-27	12-Apr-27							0			
CN.1310	Furnish, Drill, Install And Grout 14" SS 316L screen	5	5	13-Apr-27	19-Apr-27				į				i		
CN.1320	Perform geophysical Logging	3	3	20-Apr-27	22-Apr-27							1			
CN.1330	Perform Plumbness And Alignment Test	5	5	23-Apr-27	29-Apr-27				į				1		
CN.1340	Conduct Step Drawdown Test & Water Samples	5	5	30-Apr-27	06-May-27	1							1		
CN.2230	Mobilize to DZMW-1	0	0	07-May-27	,				į			•	i 1		
Piping		10	10	07-May-27	20-May-27							▼ Piping	1		
CN.1350	Install & connect 10" HDPE to Wellhead Supporting flange	5	5	07-May-27	13-May-27										
CN.1360	Interconnection with Booster Pump Station	5	5	14-May-27	20-May-27										
Electrical	'	20	20	23-Apr-27	20-May-27				į			Electrical	i !		
CN.1370	Install Cable Gallery	5	5	23-Apr-27	29-Apr-27										
CN.1410	Install I&C Instrumentation	5	5	23-Apr-27	29-Apr-27	1			į						
CN.1380	Pull Wire & Cables	5	5	30-Apr-27	06-May-27								1		
CN.1390	Install of Electrical Panels & Rough-in Conduit	5	5	07-May-27	13-May-27				į				i		
CN.1400	Electrical Terminations	5	5	14-May-27	20-May-27	1									
Field Testing		63	63	21-May-27	19-Aug-27				į				i Field Testin	d	
CN.1420	Electrical Calibration Check-out, DIW#2	5	5	21-May-27	27-May-27										
CN.1430	I&C Loop Check, DIW#2	5	5	28-May-27	04-Jun-27	1			į				i !		
CN.1440	Field Testing - Pre-commissioning, DIW#2	5	5	06-Aug-27	12-Aug-27	1									
CN.1450	Mechanical Completion, DIW#2	5	5	13-Aug-27	19-Aug-27	1									
DIW-1		96	96	07-May-27	22-Sep-27								▼ DIW-1		
Drilling Work		66	66	07-May-27	10-Aug-27				į				rilling Work		
	Commence Work- DIW-1	0	0	07-May-27	- J							•	0		
CN.1490	Mobilization ,Site Prep, Water Supply, Drill Pad And Fluid Management	5	5	07-May-27	13-May-27								1		
CN.1460	Prepare SoG Subgrade for Drilling	3	3	14-May-27	18-May-27								1		
CN.1480 CN.1490 CN.1460 CN.1470 CN.1500	F/R/P Wellhead & Pipe Support	10	10	19-May-27	02-Jun-27										
CN.1500	Furnish, Drill, Install And Grout 36" Steel Pit Casing	5	5	03-Jun-27	09-Jun-27	1									
CN.1510	Drill 34" Dia Borehole	5	5	10-Jun-27	16-Jun-27	1									
CN.1520	Cement Grouting	5	5	17-Jun-27	23-Jun-27	1									
CN.1530	Furnish, Drill, Install And Grout 24" SCH40 PVC Casing	5	5	24-Jun-27	30-Jun-27	1									
CN.1540	Drill 22" Dia Borehole	5	5	01-Jul-27	08-Jul-27	-									
CN.1550	Furnish, Drill, Install And Grout 14" PVC SDR^26 Certainteed Certa-Lok Riser Casing	5	5	09-Jul-27	15-Jul-27	-									
CN.1560	Furnish, Drill, Install And Grout 14" SS 316L screen	5	5	16-Jul-27	22-Jul-27	-							1		
CN. 1500 CN. 1570	Perform geophysical Logging	3	3	23-Jul-27	27-Jul-27	-			i				1 1		
CN. 1570 CN. 1580			5		03-Aug-27	-			!			; "	1		
CN. 1580 CN. 1590	Perform Plumbness And Alignment Test Conduct Step Provideur Test & Water Samples	5	5 5	28-Jul-27 04-Aug-27	10-Aug-27	-			i				1		
	Conduct Step Drawdown Test & Water Samples	5			-							<u> </u>	Pining		
Piping		10	10	11-Aug-27	24-Aug-27			<u> </u>					Piping		

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PAY BEY				KFC	2023-066																
Activity ID	Activity Name	OD	Rem Dur	Start	Finish			2020			0:		2027				2028			202	
			(WDs)			Qtr 4	Qtr 1	Qtr 2	Qtr3	Qtr 4	Qtr 1	Qtr 2	Qtr:	3 Qtr 4	Qt	tr 1 Qtr	2 Qtr 3	Qtr 4	Qtr 1	Qtr 2	Qtr 3 Qtr 4 J A S O N I
CN.1600	Install & connect 10" HDPEto Wellhead Supporting flange	5	5	11-Aug-27	17-Aug-27		0 1 1 101	74 101 0	اماما		3 1 IVI		3 3 A	12 2 14	5 0	. [101017	- VINIT		77 141 0	JA S S S S S S S S S S S S S S S S S S S
CN.1610	Interconnection with Booster Pump Station	5	5	18-Aug-27	24-Aug-27							i !		i I		; ; ;	i !	i			
Electrical	<u>'</u>	20	20	28-Jul-27	24-Aug-27									Electrical		 	1				
CN.1620	Install Cable Gallery	5	5	28-Jul-27	03-Aug-27				į			i		1		; ; ;	i !	1			
CN.1660	Install I&C Instrumentation	5	5	28-Jul-27	03-Aug-27							!		1		 		1			
CN.1630	Pull Wire & Cables	5	5	04-Aug-27	10-Aug-27									1		i 1 1					
CN.1640	Install of Electrical Panels & Rough-in Conduit	5	5	11-Aug-27	17-Aug-27											 					
CN.1650	Electrical Terminations	5	5	18-Aug-27	24-Aug-27							1		1		 	1				1
Field Testing		20	20	25-Aug-27	22-Sep-27							!	1	Field	Testina	1	1				
CN.1670	Electrical Calibration Check-out, DIW#1	5	5	25-Aug-27	31-Aug-27								i			i ! !		-			
CN.1680	I&C Loop Check, DIW#1	5	5	01-Sep-27	08-Sep-27							!									
CN.1690	Field Testing - Pre-commissioning, DIW#1	5	5	09-Sep-27	15-Sep-27											i ! !	i !				
CN.1700	Mechanical Completion, DIW#1	5	5	16-Sep-27	22-Sep-27											 	1	1			
Dual Zone Monitoring Well (·	91	91	07-May-27	15-Sep-27				į			_	i	Dual 7	one Mo	onitoring W	; /ell (DZM)//;	1)			
Drilling Work		68	68	07-May-27	12-Aug-27							-	-	Drilling Wo		i i	()	. /			1
CN.1730	Commence Work- DZMW-1	0	0	07-May-27	3							•				 		-			
CN.1740	Mobilization ,Site Prep, Water Supply, Drill Pad And Fluid Management	5	5	07-May-27	13-May-27											 					
CN.1710	Prepare SoG Subgrade for Drilling	3	3	14-May-27	18-May-27											i !	i				
CN.1720	F/R/P Wellhead & Pipe Support	10	10	19-May-27	02-Jun-27									1		 	1				
CN.1750	Furnish, Drill, Install And Grout 36" Steel Pit Casing	5	5	03-Jun-27	09-Jun-27				į			_		i !		; ; ;	i !	i i			
CN.1760	Drill 34" Dia Borehole	5	5	10-Jun-27	16-Jun-27							- 	1	1		 	1				
CN.1770	Cement Grouting	5	5	17-Jun-27	23-Jun-27									1		 					
CN.1780	Fumish, Drill, Install And Grout 24" SCH40 PVC Casing	5	5	24-Jun-27	30-Jun-27								_			 		1			
CN:1790	Drill 22" Dia Borehole	5	5	01-Jul-27	08-Jul-27								<u> </u>			i !		1			
CN.1800	Fumish, Drill, Install And Grout 14" PVC SDR^26 Certainteed Certa-Lok Riser Casing	5	5	09-Jul-27	15-Jul-27							!		1		 	1	1			
CN.1810	Furnish, Drill, Install And Grout 14" SS 316L Screen	5	5	16-Jul-27	22-Jul-27				į			i		; ;		; ; ;		1			
CN.1820		5	5	23-Jul-27	29-Jul-27							!						1			
CN.1820 CN.1830	Perform Geophysical Logging Perform Plumbness And Alignment Test	5	5	30-Jul-27	05-Aug-27											i 1 1					
	-		5		_											 					
CN.1840	Conduct Step Drawdown Test & Water Samples	5	U	06-Aug-27	12-Aug-27							1		7 Dinim		1 1 1	1				1
Piping CN.1850	Install & connect 10" HDPE to Wellhead Supporting flange	10 5	10	13-Aug-27 13-Aug-27	26-Aug-27							!		Piping		 	!				
CN.1860	* * * * * * * * * * * * * * * * * * * *	5	5	_	19-Aug-27											 		-			1
	Interconnection with Booster Pump Station		J	20-Aug-27	26-Aug-27							!									
Electrical CN.1870	Install Cable Gallery	14 5	14 5	30-Jul-27 30-Jul-27	18-Aug-27 05-Aug-27			-				! !	**	Electrical		 	1	-			
CN.1910	Install I&C Instrumentation	5	5	30-Jul-27	05-Aug-27											¦ !					
CN.1880	Pull Wire & Cables	3	3	06-Aug-27	10-Aug-27							!	"	1		1 1 1	1				
CN. 1890	Install of Electrical Panels & Rough-in Conduit		3	-	13-Aug-27																
	-	3	-	11-Aug-27	-							1	1 1	1 1		 	1	-			1
CN.1900	Electrical Terminations	3	3	16-Aug-27	18-Aug-27				1				_	 		nol Teletin ::	! ! !	!			
Field Functional Testing	Electrical Calibration Check-out	19	19	19-Aug-27	15-Sep-27 20-Aug-27				į			:	_	-▼ Field F	unction	nal Testing	!				
CN.1920			3	19-Aug-27	-				1			:	<u>'</u>			 	! ! !	1			
CN.1930	I&C Loop Check	3	•	23-Aug-27	25-Aug-27							!	'			i !	1	!			
CN.1940	Field Testing - Pre-commissioning	5	5	09-Sep-27	15-Sep-27											 	1	1			
CN.1950	Mechanical Completion - DZMW-1	0	0	00.1	15-Sep-27									•							
Process, Storage and CIP		443	443	03-Jun-26	13-Mar-28								1	1		Proce	ess, Storag	and CIP I	Building (Do	puble Heig	11)
Adminstration Building (1-	Story)	304	304	07-Apr-26	22-Jun-27				1					instration E	Building	, (1-Story)	: ! !	i !			
Civil/Structural Works	Owner was West Administrative Plan	208	208	07-Apr-26	01-Feb-27						Civil	l/Structu	ral Work	(S		 	1 1 1	1			1
CN.184.10010	Commence Work - Administration Bldg	0	0	07-Apr-26				· :	1			į	i	i I		<u> </u>	i 1	1			i

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PHASE 2 Pre-Construction Schedule - IFC

Detail Schedule by WBS

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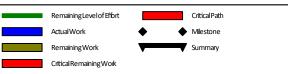


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22MGD Nanofiltration Water Treatment Plant - PDB RFQ 2023-066

Section Control Cont	MAY BY					X = 0 = 0									
Column C	Activity ID	Activity Name	OD	Rem Dur	Start	Finish									
CH 16 CH				(VVDs)			Qtr4 Qtr1 Qtr2 Qtr3 Qtr4 Qtr3	Content 1970 Content 1970 Content 1970 Content Con	CN.184.10020	Clear & Grub / Rough Grading	3	3	17-Apr-26	22-Apr-26	
CV116-10006		-	15	15	· ·	· ·									
Chi 154 1550 December Recipit December Security December		· · · · · · · · · · · · · · · · · · ·		20		-									
Control 1980															
Col 144 Motion Merit Memory Wiss, Columns & Bornes 50 50 15-89-20 17-89-20		·													
Child Chil	<u> </u>	·		25											
ON 164-10500 Feel Theses Scarre & Head Relange (1) 10 17-No-200 (2) 0.00-20 (2				-	-	-									
Chi 14 10 10 Initial Process (CAUL WILL) Chief Doors		·			•										
Nat 100 Note 100 Note 100 1		-													
Child # 10100 PARP Corone Petator Shar Fathorne 19 19 17-10-27 1-14-27	.	·		-											
No. 184.1010 Install Bording, Calogree & CPDM Membrane 30 30 17 Ev.22 0 Feb.27		·													
October Decided photo-in-Correlation October Oc				-											
Media					17 200 20										
No.154.2007 Initial Extence Stainary Hardrate & Mise Medals S S 11.4072 15		Dullding Dice-in Complete		0	11 ₋ lan-27										
Mechanical Morks		Install Exterior Stairway Handrails & Misc Metals		5			W Ivietals								
MAC Weste				50			Mechanical Works								
Cx 143 50010 Install HAC Correspond norm regroup Conditioned 5 5 51 Feb 27 127-bit 2															
Col. 144 00000 Incelal HAVC Main Dutwork Installation 5 5 22-Eho 27 0.14-Way 77		Install HVAC Compressor and Condensor	10	10	01-Feb-27	15-Feb-27									
First Sprinker Protection System	CN.184.30020	Install HVAC Electrical Room Temporary Conditioned	5	5	15-Feb-27	22-Feb-27									
Color Institution of Fire Eprintier Protection System	CN.184.30030	Install HVAC Main Ductwork Installation	5	5	22-Feb-27	01-Mar-27									
Color Institution of Fire Eprintier Protection System	Fire Sprinkler Protection Sys	tem	20	20		12-Apr-27	▼▼ Fire Sprinkler Protection System								
CN 194.30050 Exterior Architectural Finishes 50 50 01 Feb-27 12 Apr-27			20												
CN 184-30060 Architectural Finishes 100 100 101-Feb-27 22-Jun-27 2	Architectural Works		100	100	01-Feb-27	22-Jun-27	▼ Architectural Works								
Peterical Works	CN.184.30050	Exterior Architectural Finishes	50	50	01-Feb-27	12-Apr-27									
CN 184 40010 Site Electric Feeders, Transformer Instal. Connect to Be Room 15 15 23-Jul-26 13-Aug-26	CN.184.30060	Architectural Finishes	100	100	01-Feb-27	22-Jun-27									
CN 184.40020 Electrical Rough-in 30 30 01-Feb-27 15-Mar-27 CN 184.40030 Pul Wire, Cable & Terminations - Admin Bidg 15 15 15-Mar-27 05-Apr-27 CN 184.40040 Electrical Room Terminations 5 5 5 06-Apr-27 01-Jun-27 Pre-Commissioning - Admin Bidg 35 35 12-Apr-27 01-Jun-27 CN 184.90010 Electrical Check 10 10 12-Apr-27 25-Apr-27 03-Mary-27 CN 184.90020 HA/AC Test & Balancing 5 5 26-Apr-27 03-Mary-27 CN 184.90030 Pre-commission Life Saftley System 5 5 26-Apr-27 03-Mary-27 CN 184.90030 Pre-commission Life Saftley System 5 5 26-Apr-27 03-Mary-27 CN 184.90050 Mechanical Completion - Admin Bidg 20 20 20 20 20 20 20 2	Electrical Works		178	178	23-Jul-26	12-Apr-27	▼ Electrical Works								
CN 184 40030 Pull Wire, Cable & Terminations - Admin Bidg 15 15 15-Mar-27 05-Apr-27 02-Apr-27 02-A	CN.184.40010	Site Electric Feeders, Transformer Install, Connect to Elec Room	15	15	23-Jul-26	13-Aug-26									
CN.184.40040 Electrical Room Teminations 5 5 06-Apr-27 12-Apr-27	CN.184.40020	Electrical Rough-In	30	30	01-Feb-27	15-Mar-27									
Pre-Commissioning - Admin Bitig	CN.184.40030	Pull Wire, Cable & Terminations - Admin Bldg	15	15	15-Mar-27	05-Apr-27									
CN 184.90010 Electrical Check 10 10 12-Apr-27 26-Apr-27 26-Apr-27 CN 184.90020 H/NC Test & Balancing 5 5 26-Apr-27 33-May-27 33-May-27 CN 184.90030 Pre-commission Life Saftey System 5 5 26-Apr-27 33-May-27 CN 184.90040 Contractor Pre-Punch / Test & Balancing - Admin Bidg 20 20 03-May-27 01-Jun-27 CN 184.90050 Mechanical Completion - Admin Bidg 0 0 01-Jun-27 CN 184.90050 Mechanical Completion - Admin Bidg 0 0 01-Jun-27 CN 184.90050 Mechanical Completion - Admin Bidg 0 0 02-Oct-28 15-Sep-27 Site Civil CN 200.10010 Commence Work - Chem Storage 0 0 02-Oct-28 31-Aug-27 Site Civil CN 200.10010 Commence Work - Chem Storage 0 0 02-Oct-28 05-Oct-26 05-Oct-26 07-Oct-28	CN.184.40040	Electrical Room Terminations	5	5	06-Apr-27	12-Apr-27									
CN.184.90020 H/NaC Test & Balancing 5 5 5 26-Apr-27 03-May-27 CN.184.90030 Pre-commission Life Saftey System 5 5 5 26-Apr-27 03-May-27 CN.184.90040 Contractor Pre-Punch / Test & Balancing - Admin Bidg 20 20 03-May-27 O1-Jun-27 CN.184.90050 Mechanical Completion - Admin Bidg 0 0 0 10-Jun-27 Chiemical Storage Canopy 238 238 02-Oct-26 15-Sep-27 Site Civil 228 228 02-Oct-26 31-Aug-27 CN.200.10010 Commence Work - Chem Storage 0 0 0 02-Oct-26 CN.200.10020 Survey & Utility Locates - Chem Storage 1 0 10 06-Oct-26 20-Oct-26 CN.200.10030 Utility Relocation (Exist 6"DIP & Buried Electric) - Chem Storage 1 0 10 06-Oct-26 20-Oct-26 CN.200.10040 Connect Service Water Connection 5 5 5 10-Dec-26 16-Dec-26 CN.200.10050 Final Site Grading 5 5 5 25-Aug-27 31-Aug-27 Concrete CN.200.11010 Structural Excavation & Prep SoG 3 3 3 21-Oct-26 23-Oct-26 CN.200.11015 Underslab Rough-in (Plumbing / Electrical) 10 10 26-Oct-26 06-Nov-26 CN.200.11015 Underslab Rough-in (Plumbing / Electrical) 10 10 10 26-Oct-26 06-Nov-26 CN.200.11015 Underslab Rough-in (Plumbing / Electrical) CN.200.11016 Contract Service Water Contract Service Wate	Pre-Commisioning - Admin I	Bldg	35	35	12-Apr-27	01-Jun-27	Pre-Commisioning - Admin Bldg								
CN 184.90030 Pre-commission Life Saftey System 5 5 26-Apr-27 03-May-27 CN 184.90040 Contractor Pre-Punch / Test & Balancing - Admin Bidg 20 20 03-May-27 01-Jun-27 CN 184.90050 Mechanical Completion - Admin Bidg 0 0 01-Jun-27 CN 184.90050 Mechanical Completion - Admin Bidg 0 0 01-Jun-27 CN 184.90050 Mechanical Completion - Admin Bidg 0 0 01-Jun-27 CN 184.90050 Mechanical Completion - Admin Bidg 0 0 01-Jun-27 CN 184.90050 Mechanical Completion - Admin Bidg 0 0 01-Jun-27 CN 184.90050 Mechanical Completion - Admin Bidg 0 0 01-Jun-27 CN 195.20050 Mechanical Completion - Admin Bidg 0 0 01-Jun-27 CN 195.20050 Mechanical Completion - Admin Bidg 0 0 01-Jun-27 CN 195.20050 Mechanical Completion - Admin Bidg 0 0 01-Jun-27 CN 195.20050 Mechanical Completion - Admin Bidg 0 0 01-Jun-27 CN 195.20050 Mechanical Completion - Admin Bidg 0 0 01-Jun-27 CN 195.20050 Mechanical Completion - Admin Bidg 0 0 01-Jun-27 CN 195.20050 Mechanical Completion - Admin Bidg 0 0 195.20050 Mechanical Completion - Admin Bidg 0 0 01-Jun-27 CN 195.20050 Mechanical Completion - Admin Bidg 0 0 195.20050 Mechanical Completion - Admin Bidg 0 0 195.20050 Mechanical Completion - Admin Bidg 0 195.20050 Mechanical Completion - Admin Bidg 0 195.20050 Mechanical Completion - Admin Bidg 0 195.20050 Mechanical Completion - Admin Bidg 0 195.20050 Mechanical Completion - Admin Bidg 0 195.20050 Mechanical Completion - Admin Bidg 0 195.20050 Mechanical Completion - Admin Bidg 0 195.20050 Mechanical Completion - Admin Bidg 0 195.20050 Mechanical Completion - Admin Bidg 0 195.20050 Mechanical Completion - Admin Bidg 0 195.20050 Mechanical Completion - Admin Bidg 0 195.20050 Mechanical Completion - Admin Bidg 0 195.20050 Mechanical Completion - Admin Bidg 0 195.20050 Mechanical Completion - Admin Bidg 0 195.20050 Mechanical Completion - Admin Bidg 0 195.20050 Mechanical Completion - Admin Bidg 0 195.20050 Mechanical Completion - Admin Bidg 0 195.20050 Mechanical Completion - Admin Bidg 0 195.20050 Mechanical Completion - Admin Bidg 0 195.20050 Mechanical Completion -	CN.184.90010	Electrical Check	10	10	12-Apr-27	26-Apr-27									
CN 184.90040 Contractor Pre-Punch / Test & Balancing - Admin Bldg 20 20 03-May-27 01-Jun-27	CN.184.90020	HVAC Test & Balancing	5	5	26-Apr-27	03-May-27									
CN.184.90050 Mechanical Completion - Admin Bidg 0 0 0 0 1-Jun-27	CN.184.90030	Pre-commission Life Saftey System	5	5	26-Apr-27	03-May-27									
Chemical Storage Canopy 238 238 02-Oct-26 15-Sep-27 Site Civil 228 228 02-Oct-26 31-Aug-27 CN.200.10010 Commence Work - Chem Storage 0 0 0.2-Oct-26 05-Oct-26 CN.200.10020 Survey & Utility Locates - Chem Storage 2 2 02-Oct-26 05-Oct-26 05-Oct-26 CN.200.10030 Utility Relocation (Exist 6"DIP & Buried Electric) - Chem Storage 10 10 06-Oct-26 20-Oct-26 16-Dec-26 25-Jan-27 16-Dec-26 16-Dec-26 25-Jan-27 16-Dec-26 16-Dec-26 16-Dec-26 25-Jan-27 16-Dec-26 16-Dec-26	CN.184.90040	Contractor Pre-Punch / Test & Balancing - Admin Bldg	20	20	03-May-27	01-Jun-27									
Site Civil 228 228 02-Oct-26 31-Aug-27 CN.200.10010 Commence Work - Chem Storage 0 0 02-Oct-26 05-Oct-26 CN.200.10020 Survey & Utility Locates - Chem Storage 2 2 02-Oct-26 05-Oct-26 CN.200.10030 Utility Relocation (Exist 6" DIP & Buried Electric) - Chem Storage 10 10 06-Oct-26 20-Oct-26 CN.200.10040 Connect Service Water Connection 5 5 10-Dec-26 16-Dec-26 CN.200.10050 Final Site Grading 5 5 25-Aug-27 31-Aug-27 Concrete 63 63 21-Oct-26 25-Jan-27 CN.200.11010 Structural Excavation & Prep SoG 3 3 21-Oct-26 23-Oct-26 CN.200.11015 Underslab Rough-in (Plumbing / Electrical) 10 10 26-Oct-26 06-Nov-26	CN.184.90050	Mechanical Completion - Admin Bldg	0	0		01-Jun-27									
CN.200.10010 Commence Work - Chem Storage 0 0 0 02-Oct-26 CN.200.10020 Survey & Utility Locates - Chem Storage 2 2 02-Oct-26 05-Oct-26 CN.200.10030 Utility Relocation (Exist 6" DIP & Buried Electric) - Chem Storage 10 10 06-Oct-26 20-Oct-26 CN.200.10040 Connect Service Water Connection 5 5 5 10-Dec-26 16-Dec-26 CN.200.10050 Final Site Grading 5 5 5 25-Aug-27 31-Aug-27 Concrete CN.200.11010 Structural Excavation & Prep SoG 3 3 3 21-Oct-26 23-Oct-26 CN.200.11015 Underslab Rough-in (Plumbing / Electrical) 10 10 26-Oct-26 06-Nov-26	Chemical Storage Canopy		238	238	02-Oct-26	15-Sep-27	▼ Chemica Storage Canopy								
CN.200.10020 Survey & Utility Locates - Chem Storage 2 2 02-Oct-26 05-Oct-26 CN.200.10030 Utility Relocation (Exist 6" DIP & Buried Electric) - Chem Storage 10 10 06-Oct-26 20-Oct-26 CN.200.10040 Connect Service Water Connection 5 5 10-Dec-26 16-Dec-26 CN.200.10050 Final Site Grading 5 5 25-Aug-27 31-Aug-27 Concrete CN.200.11010 Structural Excavation & Prep SoG 3 3 21-Oct-26 23-Oct-26 CN.200.11015 Underslab Rough-in (Plumbing / Electrical) 10 10 26-Oct-26 06-Nov-26	Site Civil		228	228	02-Oct-26	31-Aug-27	▼ Site Civil								
CN.200.10030 Utility Relocation (Exist 6" DIP & Buried Electric) - Chem Storage 10 10 06-Oct-26 20-Oct-26 CN.200.10040 Connect Service Water Connection 5 5 10-Dec-26 16-Dec-26 CN.200.10050 Final Site Grading 5 5 25-Aug-27 31-Aug-27 Concrete CN.200.11010 Structural Excavation & Prep SoG 3 3 21-Oct-26 23-Oct-26 CN.200.11015 Underslab Rough-in (Plumbing / Electrical) 10 10 26-Oct-26 06-Nov-26	CN.200.10010	Commence Work - Chem Storage	0	0			•								
CN.200.10040 Connect Service Water Connection 5 5 10-Dec-26 16-Dec-26 CN.200.10050 Final Site Grading 5 5 25-Aug-27 31-Aug-27 Concrete CN.200.11010 Structural Excavation & Prep SoG 3 3 21-Oct-26 23-Oct-26 CN.200.11015 Underslab Rough-in (Plumbing / Electrical) 10 10 26-Oct-26 06-Nov-26		Survey & Utility Locates - Chem Storage	2	2											
CN.200.10050 Final Site Grading 5 5 25-Aug-27 31-Aug-27 Concrete CN.200.11010 Structural Excavation & Prep SoG 3 3 21-Oct-26 23-Oct-26 CN.200.11015 Underslab Rough-in (Plumbing / Electrical) 10 10 26-Oct-26 06-Nov-26	CN.200.10030	Utility Relocation (Exist 6" DIP & Buried Electric) - Chem Storage	10	10	06-Oct-26	20-Oct-26									
Concrete 63 63 21-Oct-26 25-Jan-27 CN.200.11010 Structural Excavation & Prep SoG 3 3 21-Oct-26 23-Oct-26 CN.200.11015 Underslab Rough-in (Plumbing / Electrical) 10 10 26-Oct-26 06-Nov-26	CN.200.10040	Connect Service Water Connection	5	5	10-Dec-26	16-Dec-26									
CN.200.11010 Structural Excavation & Prep SoG 3 3 21-Oct-26 23-Oct-26 CN.200.11015 Underslab Rough-in (Plumbing / Electrical) 10 10 26-Oct-26 06-Nov-26	CN.200.10050	Final Site Grading	5	5	25-Aug-27	31-Aug-27									
CN.200.11015 Underslab Rough-in (Plumbing / Electrical) 10 10 26-Oct-26 06-Nov-26	Concrete		63	63		25-Jan-27	▼ Concrete								
	CN.200.11010	Structural Excavation & Prep SoG	3	3	21-Oct-26										
CN.200.11020 F/R/P Slab on Grade 20 20 09-Nov-26 09-Dec-26	CN.200.11015	Underslab Rough-in (Plumbing / Electrical)	10	10	26-Oct-26	06-Nov-26									
	CN.200.11020	F/R/P Slab on Grade	20	20	09-Nov-26	09-Dec-26									

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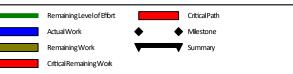


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PAY BE				KFC	2023-000	
Activity ID	Activity Name	OD	Rem Dur	Start	Finish	2026 2027 2028 2029 Qtr 4 Qtr 1 Qtr 2 Qtr 3 Qtr 4 Qtr 3
			(WDs)			OND JEMAM JJASOND JEMAM JJASOND JEMAM JJASOND JEMAM JJASOND JEMAM JJASOND
CN.200.11030	F/R/P Containment Walls	20	20	10-Dec-26	08-Jan-27	
CN.200.11050	F/R/P Tanks Foundations & Quie	30	30	10-Dec-26	25-Jan-27	
CN.200.11040	F/R/P Divider Wall	10	10	21-Dec-26	05-Jan-27	
CN.200.11060	F/R/P Stairway Foundation, Structural Steel, Grating & Handrails	10	10	11-Jan-27	25-Jan-27	
Structural / Metals		12	12	11-Jan-27	27-Jan-27	▼ Structural / Metals
CN.200.12010	Install Structural Steel & Grating for Elevated Grated Platform	12	12	11-Jan-27	27-Jan-27	
Mechanical		27	27	26-Jan-27	04-Mar-27	▼ ▼ Mechanical
Caustic Tank		5	5	26-Jan-27	01-Feb-27	▼ Caustic Tank
CN.180.20010	Install Caustic Tanks (2)	1	1	26-Jan-27	26-Jan-27	
CN.180.20020	Install SHC Dosing Pumps (2)	1	1	27-Jan-27	27-Jan-27	
CN.180.20030	Installation of Sump Pump Panel, Pump Skid and Fill Panel	2	2	28-Jan-27	29-Jan-27	
CN.180.20040	Installation of 2" Pipe between Fill Sation to Pumps and Tanks	3	3	28-Jan-27	01-Feb-27	
Sulphuric Acid Tank		26	26	27-Jan-27	04-Mar-27	▼▼ \$ulphuric Acid Tank
CN.180.30020	Install Sulphuric Acid Tanks (4)	2	2	27-Jan-27	28-Jan-27	
CN.180.30030	Installation of Sulphuric Acid Transfer Pumps with Skid Mounted Pumps	2	2	29-Jan-27	01-Feb-27	
CN.180.30040	Installation of Tank Ladders	2	2	02-Feb-27	03-Feb-27	
CN.180.30050	Installation of Sump Pump Panel, Fill Station & Fill Panel	10	10	02-Feb-27	16-Feb-27	
CN.180.30060	Installation of 2" and 1" Inch Piping	10	10	17-Feb-27	02-Mar-27	
CN.180.30070	Piping Pressure Testing / Tank Leak Testing	2	2	03-Mar-27	04-Mar-27	
Electrical		25	25	29-Jan-27	05-Mar-27	▼ Electrical
CN.760	Install of Electrical Panels & Rough-in Conduit	5	5	29-Jan-27	04-Feb-27	
CN.740	Install Cable Gallery	2	2	02-Feb-27	03-Feb-27	
CN.770	Electrical Terminations to LCP	4	4	05-Feb-27	10-Feb-27	
CN.750	Pull Wire & Cables	3	3	17-Feb-27	19-Feb-27	
CN.780	Install I&C Instrumentation	3	3	03-Mar-27	05-Mar-27	
Field Functional Testing		33	33	30-Jul-27	15-Sep-27	Field Functional Testing
CN.790	Flush Piping & Clean Process Piping	5	5	30-Jul-27	05-Aug-27	
CN.800	Wire Continuity / Point-to-Point Checkout	5	5	06-Aug-27	12-Aug-27	
CN.810	I&C Loop Check	3	3	13-Aug-27	17-Aug-27	
CN.820	Pre-commissioning / Manufacturer Certifications - Chem Storage System	5	5	18-Aug-27	24-Aug-27	
CN.830	Contractor Completion List - Chem Storage System	10	10	01-Sep-27	15-Sep-27	
CN.840	Mechanical Completion - Chem Storage System	0	0		15-Sep-27	
Booster Pump Station and	Strainers - 22 MGD	284	284	24-Sep-26	12-Nov-27	▼ Bopster Pump Station and Strainers - 22 MGD
Site Civil		239	239	24-Sep-26	08-Sep-27	▼ Site Civil
Booster Pump Station and Site Civil CN.140.10010 CN.140.10020 CN.140.10030 CN.140.10041 CN.140.10050	Commence Work-Booster Pump Station	0	0	24-Sep-26		
CN.140.10020	Survey and Utility Locates	2	2	24-Sep-26	25-Sep-26	
CN.140.10030	Utility Relocation	10	10	28-Sep-26	09-Oct-26	
CN.140.10041	Install Dewatering for Excavation	10	10	13-Oct-26	26-Oct-26	
CN.140.10050	Excavation to Pump Can Foundation	5	5	27-Oct-26	02-Nov-26	
CN.140.10060	Install 24" B/G Latteral Connection to Pump Can	7	7	01-Feb-27	09-Feb-27	
CN.140.10067	Tie-in 36" DI Raw Water Line (NW Corner Booster PS)	2	2	23-Jun-27	24-Jun-27	
CN.140.10065	Tie-In 24" to 36" Yard Piping	2	2	23-Aug-27	24-Aug-27	
CN.140.10003	Final Backfill & Grading	5	5	01-Sep-27	08-Sep-27	
Concrete	Tima Basaili a Grading	147	147	03-Nov-26	07-Jun-27	Concrete
CN.140.20010	F/R/P Foundation - Booster Pump Station	15	15	03-Nov-26	24-Nov-26	▼ ▼ Condete
CN.140.20055	F/R/P Pump Can Walls (5)	40	40	25-Nov-26	26-Jan-27	
CN.140.20033 CN.140.20020	Structural Backfill to 24"/36" Pipe	3	2	27-Jan-27	29-Jan-27	┦ ▮
GIV. 140.20020	Oracia Daomii to 24 /50 Tipe	3	<u> </u>	21-Jai1-21	20-Jail-21	

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22MGD Nanofiltration Water Treatment Plant - PDB RFQ 2023-066

PAP BE					Q 2025-000		
Activity ID	Activity Name	OD	Rem Dur (WDs)	Start	Finish	Qtr 4	r 4 Qtr 1 Qtr 2 Qtr 3 Qtr 4 Qtr 3
			(٧٧᠘٥)			ONE	
CN.140.20030	Install A/G 24" Piping & Appurtances at Pump Cans (5)	3	3	10-Feb-27	12-Feb-27		
CN.140.20040	Backfill & Prep SoG	3	3	16-Feb-27	18-Feb-27		
CN.140.20060	Install U/G HDPE thru SoG	3	3	07-Apr-27	09-Apr-27		
CN.140.20050	F/R/P SoG, EL 20+00	20	20	12-Apr-27	07-May-27		
CN.140.20090	F/R/P Concrete Pipe Supports for A/G 36" SS Piping & Appurtances (Cure)	15	15	10-May-27	28-May-27		
CN.140.20080	F/R/P Sand Strainer Equipment Pads and Pipe Pedastals (Cure)	20	20	10-May-27	07-Jun-27		
Mechanical		58	58	06-May-27	28-Jul-27		▼
Booster Pump(5 Nos)		33	33	06-May-27	22-Jun-27		Booster Pump(5 Nos)
CN.140.30010	Install & Align Vertical Pump Cans	10	10	06-May-27	19-May-27		
CN.140.30020	Set & Level Booster Pumps (5)	3	3	20-May-27	24-May-27		
CN.140.30030	Install of Booster Pumps(5 Nos.)	10	10	25-May-27	08-Jun-27		
CN.140.30040	Install & Interconnection of 16" SS Pipe with Booster Pump	10	10	09-Jun-27	22-Jun-27		
Sand Stariner(3 Nos)		22	22	08-Jun-27	08-Jul-27		▼ Sand Stariner(3 Nos)
CN.140.40010	Set & Level Sand Strainers (3)	3	3	08-Jun-27	10-Jun-27		
CN.140.40040	Complete Piping Interconnections B/n Header and Sand Stariners	9	9	11-Jun-27	23-Jun-27		
CN.140.40020	A/G Process Piping, 36" SS Header - Strainers	10	10	24-Jun-27	08-Jul-27		
Blend Cartridge Filter		33	33	11-Jun-27	28-Jul-27		▼ Blend Cartridge Filter
CN.140.50010	Set & Level Cartridge Filters	2	2	11-Jun-27	14-Jun-27		
CN.140.50020	Install of Blend Cartridge Filter	3	3	15-Jun-27	17-Jun-27		
CN.140.50040	A/G Process Piping, 36" SS from Strainer to Booster Pumps	7	7	09-Jul-27	19-Jul-27		
CN.140.50030	Complete Piping Interconnections B/n Booster Pumps and 36" Headder	7	7	20-Jul-27	28-Jul-27		
Electrical		20	20	15-Jun-27	13-Jul-27		▼▼ Electrical
CN.140.70010	Rough-in Electrical to Equipment	2	2	15-Jun-27	16-Jun-27		
CN.140.70030	Install Electrical Panels	5	5	17-Jun-27	23-Jun-27		
CN.140.70020	Pull Wire & Cables	5	5	24-Jun-27	30-Jun-27		
CN.140.70040	Electrical Terminations	3	3	01-Jul-27	06-Jul-27		
CN.140.70050	Install I&C Instrumentation	5	5	07-Jul-27	13-Jul-27		
Field Functional Testing		55	55	25-Aug-27	12-Nov-27		▼ Field Functional Testing
CN.140.90010	Manufacture Field Testing & Certifications (Dry)	5	5	25-Aug-27	31-Aug-27		
CN.140.90020	Flush Piping & Clean Process Piping	5	5	01-Sep-27	08-Sep-27		
CN.140.90030	Wire Continuity / Point-to-Point Checkout	5	5	09-Sep-27	15-Sep-27		
CN.140.90040	I&C Loop Check	5	5	15-Oct-27	21-Oct-27		
CN.140.90050	Pre-commissioning - Booster Pump Station & Sand Strainer	5	5	22-Oct-27	28-Oct-27		
CN.140.90060	Contractor Completion List - Booster Pump Station & Sand Strainer	15	15	22-Oct-27	12-Nov-27		
CN.140.90090	Mechanical Completion - Booster Pump Station & Sand Strainer	0	0	-	12-Nov-27		
Clearwell - Modifications to		50	50	18-Nov-26	02-Feb-27		Clearwell - Modifications to Existing - Allowance
CN.175.10010	Concrete Modifications to Existing - Allowance Bldg	50	50	18-Nov-26	02-Feb-27	•	
Degassifiers		153	153	03-Feb-27	09-Sep-27		Degassifiers
Site Civil		40	40	03-Feb-27	31-Mar-27		Site Civil
CN.170.10010	Commence Work - Degassifier	0	0	03-Feb-27	J . Mai 21		
CN.860	Survey & Utility Locates	2	2	03-Feb-27	04-Feb-27		
CN.870	Utility Relocation - Existing Water Line	5	5	05-Feb-27	11-Feb-27		
CN.880	Structural Excavation, Dewatering to U/G Pipe Inverts	10	10	12-Feb-27	26-Feb-27	-	
CN.890	Install 36" Underslab Pipe (NF to Degassifier)	3	3	01-Mar-27	03-Mar-27	-	
CN.990	Backfill Around U/G Piiping	3	3	01-Mar-27	03-War-27	-	
CN.990	Install Vertical Piping from 36" Underslab Piping thru Slab (NF to Degassifier)	5	5	04-Mar-27	10-Mar-27	_	
		5	5	11-Mar-27	10-War-27	-	
CN.910	Laying of 30" Pipe (Degassifier Effluent to Clearwell)	5	<u> </u>	i i-iviar-27	17-iviar-27		

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PHASE 2 Pre-Construction Schedule - IFC

Detail Schedule by WBS

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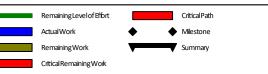


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22MGD Nanofiltration Water Treatment Plant - PDB RFQ 2023-066

PAY BE					<u> </u>									
Activity ID	Activity Name	OD	Rem Dur	Start	Finish	Qtr 4	Qtr 1	2026 Qtr 2 Qtr 3	3 Qtr 4	Qtr 1	2027 Otr 2 Otr 3	Otr 4	2028 Qtr 1 Qtr 2 Qtr 3 Qtr 4	2029 Qtr 1 Qtr 2 Qtr 3 Qtr 4
			(WDs)					A M J J A	SOND	JFM	AMJJAS	SOND	Q	J F M A M J J A S O N C
CN.920	Install Vertical Piping from 36" Underslab Piping thru Slab (NF to Clearwell)	7	7	18-Mar-27	26-Mar-27							!		
CN.930	Prep Subgrade for SoG	3	3	29-Mar-27	31-Mar-27					į	1			
Concrete		22	22	01-Apr-27	30-Apr-27						Concrete			
CN.170.20010	F/R/P Slab on Grade	12	12	01-Apr-27	16-Apr-27						•			
CN.170.20020	F/R/P Equipment Pads	10	10	19-Apr-27	30-Apr-27					1				
Mechanical		48	48	03-May-27	09-Jul-27						▼ Mech	nanical		
DeGassifier Tank		32	32	03-May-27	16-Jun-27						▼ DeGass	sifier Tank		
CN.170.30010	Set & Level - Degassifier Tanks (4)	2	2	03-May-27	04-May-27						1			
CN.170.30020	Set & Level - Degassifier Blowers (4)	2	2	05-May-27	06-May-27						1			
CN.960	Installation of Degasifier Tanks	10	10	05-May-27	18-May-27									
CN.970	A/G Piping & Appurtances, Degassifer to Blower	8	8	19-May-27	28-May-27									
CN.980	A/G Piping & Appurtnaces, Degassifier Assempbly and Piping to Headers	12	12	01-Jun-27	16-Jun-27									
Scrubber Tower		16	16	17-Jun-27	09-Jul-27						Scrub	bber Tower		
CN.170.40010	Set & Level - Scrubber Tower (1)	2	2	17-Jun-27	18-Jun-27						ı			
CN.1010	Installation of Scrubber Tower & Piping	5	5	21-Jun-27	25-Jun-27									
CN.1020	Installation of 1550 and 250 Gallon Tank & Process Piping	2	2	28-Jun-27	29-Jun-27						ļ			
CN.1030	Installation of HYPD and Caustic Dosing System & Process Piping	2	2	30-Jun-27	01-Jul-27						ļ			
CN.1040	Installation of Scrubber Recirculation Pump & Process Piping	2	2	02-Jul-27	06-Jul-27									
CN.1050	Installation of Piping, Valves from Pump to Scrubber Tower	3	3	07-Jul-27	09-Jul-27						ı			
Piping Header (48"/36" FRP)		74	74	19-Apr-27	02-Aug-27						Pip	ping Heade	r (48"/36" FRP)	
CN.170.50010	Installation of Pipe Supports for 48" (Cure)	20	20	19-Apr-27	14-May-27									
CN.1070	Install Degassifier and Scubber Header Pipe, 48"/36" Pipe	10	10	21-Jun-27	02-Jul-27						i			
CN.1080	Process Piping Latteral Connections to Scrubber Tower	5	5	06-Jul-27	12-Jul-27									
CN.2060	Process Piping Latteral Connections to Degassifiers	10	10	13-Jul-27	26-Jul-27									
CN.1090	A/G Process Piping Pressure Testing	5	5	27-Jul-27	02-Aug-27						•			
Electrical and I&C		18	18	12-Jul-27	04-Aug-27						TT EI	ectrical and	I&C	
CN.170.60010	Install Cable Gallery	2	2	12-Jul-27	13-Jul-27						1			
CN.1110	Pull Wire & Cables	3	3	14-Jul-27	16-Jul-27					1	1	1		
CN.1120	Install of Electrical Panels & Rough-in Conduit	5	5	19-Jul-27	23-Jul-27									
CN.1130	Electrical Terminations	5	5	26-Jul-27	30-Jul-27									
CN.1140	Install I&C Instrumentation	3	3	02-Aug-27	04-Aug-27									
Field Functional Testing		27	27	03-Aug-27	09-Sep-27						•	Field Fund	ctional Testing	
CN.170.90010	Manufacturer Field Certifications and Testing (Dry)	5	5	03-Aug-27	09-Aug-27									
CN.170.90020	Wire Continuity / Point-to-Point Checkout	5	5	05-Aug-27	11-Aug-27									
CN.170.90030	I&C Loop Check	5	5	12-Aug-27	18-Aug-27						•			
CN.170.90040	Pre-commissioning - Degassifier	15	15	19-Aug-27	09-Sep-27									
CN.170.90050	Contractor Completion List	15	15	19-Aug-27	09-Sep-27									
CN.170.90090	Mechanical Completion - Degassifier	0	0		09-Sep-27						•	•		
Diesel Fuel Storage		261	261	12-Jan-27	27-Jan-28					<u> </u>		<u> </u>	Diesel Fuel Stprage	
CN.280.10010	Excav, Rough-ins, Concrete Structure - Fuel Tanks	60	60	12-Jan-27	07-Apr-27									
CN.280.10020	Install Generator Fuel System - Fuel Tanks	60	60	11-Mar-27	03-Jun-27									
CN.280.10060	Install Transformer	5	5	08-Apr-27	14-Apr-27	1					1			
CN.280.10070	Electrical Tie Ins	5	5	15-Apr-27	21-Apr-27	11								
CN.280.10050	Install Fuel Lines to Generators	5	5	04-Jun-27	10-Jun-27									
CN.280.10030	Pre-commissioning - Fuel System Bldg	20	20	14-Dec-27	12-Jan-28						; ; ;			
CN.280.10040	Mechanical Completion - Fuel System Bldg	0	0		12-Jan-28	11					 	_	•	
CN.280.10080	Fuel System -Performance Testing & Certification	10	10	13-Jan-28	27-Jan-28	1					; ; ;			
J255. 15555	j i onomiano i osang a osimbanon		. •	. 5 5411 25	2. 54.125		1	1 1	- !	1 !	!	!	1- : :	! ! !

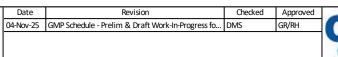
P6 ID: 291242.Client.GMP.BL01 Date Date: 26-Oct-25



PHASE 2 Pre-Construction Schedule - IFC

Detail Schedule by WBS

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22MGD Nanofiltration Water Treatment Plant - PDB RFQ 2023-066

ivity ID	Activity Name	OD	Rem Dur	Start	Finish		2026 2027	2028 2029
			(WDs)				Qtr 1 Qtr 2 Qtr 3 Qtr 4 Qtr 1 Qtr 2 Qtr 3 Qt	r 4 Qtr 1 Qtr 2 Qtr 3 Qtr 4 Qtr 1 Qtr 2 Qtr 3 N D J F M A M J J A S O N D J F M A M J J A S C
SCADA System		20	20	16-Sep-27	14-Oct-27	OND		CCADA System
CN.IC.20010	SCADA Pre-commissioning	20	20	16-Sep-27	14-Oct-27			
Dry Retention Pond		45	45	07-Apr-27	09-Jun-27		Dry Retention I	Pond
CN.30150	Dewatering & Drying Of Sludge Pond	15	15	07-Apr-27	27-Apr-27			
CN.30160	Exacavation, Sloping ,Dressing & Preparing Pond	30	30	28-Apr-27	09-Jun-27			
Performance Testing	& Record Closeout	311	311	02-Jun-27	25-Aug-28		→	Performance Testing & Record Closeout
HVAC Testing & Balance		10	10	20-Aug-27	02-Sep-27		₩ HVAC	Testing & Balancing
CN.SU.10100	HVAC Test & Balance Report	10	10	20-Aug-27	02-Sep-27			
Testing & Commission	ina	271	271	02-Jun-27	29-Jun-28		→	Testing & Commissioning
Performance Testing		182	182	23-Sep-27	15-Jun-28		-	Performance Testing
CN.PT.00020	Performance Testing - DIW#1	20	20	23-Sep-27	21-Oct-27			
CN.PT.00010	Ready for Performance Testing	0	0	14-Mar-28				•
CN.PT.10010	Membrane Performance Test - Train 1 (Incl Loading Membranes)	21	21	14-Mar-28	11-Apr-28			
CN.PT.10015	Acclimation Period, Train 1	21	21	14-Mar-28	11-Apr-28			
CN.PT.10020	Membrane Performance Test - Train 2 (Incl Loading Membranes)	21	21	12-Apr-28	10-May-28			
CN.PT.10030	Membrane Performance Test - Train 3 (Incl Loading Membranes)	21	21	19-Apr-28	17-May-28			
CN.PT.10040	Membrane Performance Test - Train 4 (Incl Loading Membranes)	21	21	26-Apr-28	24-May-28			
CN.PT.10050	Membrane Performance Test - Train 5 (Incl Loading Membranes)	21	21	03-May-28	01-Jun-28			
CN.PT.10060	Membrane Performance Test - Train 6 (Incl Loading Membranes)	21	21	10-May-28	08-Jun-28			
CN.PT.10070	Membrane Performance Test - Train 7 (Incl Loading Membranes)	21	21	17-May-28	15-Jun-28			
CN.SU.10090	Substantial Completion	0	0		15-Jun-28			•
System Commissioning		10	10	16-Jun-28	29-Jun-28			System Commissioning
CN.PT.20010	System Commissioning	10	10	16-Jun-28	29-Jun-28			
Administration Building	_	20	20	02-Jun-27	29-Jun-27		Administration	n Building
CN.1960	Administration Building - Punchlist	15	15	02-Jun-27	22-Jun-27	-		
CN.1980	Fire Marshall Acceptance	3	3	23-Jun-27	25-Jun-27	-		
CN.1970	Owner Punchlist Acceptance	5	5	23-Jun-27	29-Jun-27	-	•	
CN.1990	Administration Building Complete	0	0		29-Jun-27		↑	
Record Closeout		40	40	30-Jun-28	25-Aug-28			Record Closeout
CN.CO.10010	Record Documents & Final Project Closeout	40	40	30-Jun-28	25-Aug-28			

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CN.CO.95000



Project Completion

PHASE 2 Pre-Construction Schedule - IFC

Detail Schedule by WBS

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Attachment 6

Risk Register



Delray Membrane WTP Phase 1 Project Name: Input Provider: D. Sutter Project Number: 291242 Run Date: 11/5/25

CSL: Suzanne Mechler Version: Rev 10.3 PMCL: Risk\$ + OH&P Victor Pujals 24,495,241 21,968,826 PMD: Ajish Nambiar Risk\$ + Opp\$ PMC: Risk\$ 21,968,826 Ryan Hagaman LCE: Elias Andraos Opportunity\$ PCS: Doug Sutter High Risk\$ 15,247,209

> Schedule Days Risk *OH&P is not included in the value(s) below. It is added at the top-line above.

404

Update: G. Roy, R. Hagaman, D. Sutter

RISK PROBABILIT	Y ASSESSMENT	CO	ST ASSESSMENT	SCHEDULE ASSESSMENT				
Rating	Guideline	Impact Rating	Cost Impact Guideline	Rating	Guideline			
Very Low (VL)	ry Low (VL) 10%		<\$10,000	Negligible	< 1 Week			
Low (L)	Low (L) 30%		\$10,000 - \$100,000	Marginal	1-2 Weeks			
Moderate (M)	50%	Significant	>\$100,000 - \$500,000	Significant	> 2-4 Weeks			
High (H)	` '		>\$500,000 - \$1 million	Critical	> 4-8 Weeks			
Very High (VH) 90%		Crisis	>\$1 million	Crisis	> 8 Weeks			

			-		•	OTTO: IS THO	t included in the value(s) below. It is added at the top-line above.		DART TWO			DART TURES	0	Disc. Sec.	
			PAI	RT ONE - Risk / Opportunity Identifica	lon			I	PART TWO			PART THREE -	Contingency	Planning	Assumptions
ID	Risk Prob	Risk Change	Risk/Opportunity Element	Definition of Risk/Opportunity Element	Consequence of Occurrence (Cost (\$) and Schedule (days) Impact)	Risk/ Opp	Risk Mitigation / Opportunity Suggestion (technical approach)	BIC	Pricing Strategy Contingency		Cost (whole \$)	Cost Probability	Schedule (days)	Schedule Probability	Assumptions
					\$ -				J ,	Optimistic	\$ -	20%		40%	Mar-2025: Risk Closed - Foundation design completed based on thorough
1	М		Technical/Engineering	Site Soil Conditions for Suitable Econmonical Foundations	Schedule (days):		Perform geotech investigation in locations of final designed foundation to ensure good soils	Greg Roy	Contingency	Most Likely	\$ -	70%	20		geotech analysis. Nov 2024: Pocket poor soil identified
					28					Pessimistic	\$ -	10%	60	10%	
					\$ -		Pre-design raw water characterization, pre-			Optimistic	\$ -	80%	0	40%	Closed: 6/5/2025 Updated 1/13/2025: Reduced risk
2	М		Technical/Engineering	Excessive iron in raw water impacting ability to pilot	Schedule (days):	CLOSED	treatment pilot testing, wellfield and raw water well system rehabilitation.	Greg Roy	Contingency	Most Likely	\$ -	15%	0	50%	percentage. Nov 2024: Pilot still delayed
					0					Pessimistic	\$ -	5%	0	10%	
					\$ 122,500					Optimistic	\$ 25,000	40%	15	40%	Updated: 6/5/2025 BRI included in direct costs. This risk is for BRI
3	L		Environmental	Severe Weather			Carry appropriate insurances per contract and look to carry Owner's contingency for impacts of a	Owner	Contingency	Most Likely	\$ 125,000		20	F00/	deductible costs, storm prep, or other general weather prep or clean up including potential down time. Definition
					Schedule (days):		named storm or similar force majeure.			Pessimistic	\$ 125,000	50%	60		of FM and contract relief per agreement.
					21					Optimistic	\$ 500,000	10%	60	10%	Closed: 6/5/2025 Updated 1/13/2025: Reduced risk
					\$ -		Work with technical staff to clarify as early as			Optimistic	\$ -	95%	0	40%	percentage.
4	L		Technical/Engineering	Design Definition Progression	Schedule (days):		possible, but some decisions can't be made until post GMP.	Ajish Nambiar	Contingency	Most Likely	\$ -	5%	0	50%	
					0					Pessimistic	\$ -	0%	0	10%	
					\$ 155,000		Meet early with regulators in advance of permit application submittals. Utilize existing relationships			Optimistic	\$ 100,000	55%	0	40%	
5	М		Reglatory	Permitting	Schedule (days):	R	with permitting agencies and communicate frequently Align design requirements with long-lead	Joan Fernandez	Contingency	Most Likely	\$ 200,000	40%	10	50%	
					9		permit application needs. Sequence work to start in areas where permits can be obtained quicker			Pessimistic	\$ 400,000	5%	40	10%	
					\$ 2,592,209					Optimistic	\$ 1,036,884	10%	0		Updated 24Oct2025: Delay in issuing POs increases risk of schedule impacts.
6	VH		Contractual	Supply Chain Challenges	Schedule (days):	R	Early release of long lead equipment, work to move complex equipment away from critical path	Mahendra Balkaran	Contingency	Most Likely	\$ 2,073,767	60%	20	50%	Updated 1/13/2025: Increased risk percentage. Percent of material cost from OPCC
					18					Pessimistic	\$ 4,147,535	30%	80	10%	
					\$ -		Early Outroach to colicit subcontractor interest			Optimistic	\$ -	40%	0	40%	CLOSED 4NOV2025 per GMP Negotiation. Percent of labor cost from OPCC.
7	Н		Contractual	Local Labor Shortages	Schedule (days):		Early Outreach to solicit subcontractor interest and participation. Push for CCI to self-perform electrical, automation and mechanical work	Mahendra Balkaran	Contingency	Most Likely	\$ -	50%	0	50%	
					0					Pessimistic	\$ -	10%	0	10%	

 Project Name:
 Delray Membrane WTP Phase 1
 Input Provider:
 D. Sutter

 Project Number:
 291242
 Run Date:
 11/5/25

CSL: Suzanne Mechler Version: Rev 10.3 PMCL: Risk\$ + OH&P Victor Pujals 24,495,241 21,968,826 PMD: Ajish Nambiar Risk\$ + Opp\$ PMC: Ryan Hagaman Risk\$ 21,968,826 LCE: Elias Andraos Opportunity\$ PCS: Doug Sutter High Risk\$ 15,247,209

Schedule Days Risk

*OHOD 's act 's day to the add to the add to the first teacher.

Update: G. Roy, R. Hagaman, D. Sutter

RISK PROBABILIT	Y ASSESSMENT	CO	ST ASSESSMENT	SCHEDULE ASSESSMENT					
Rating	Guideline	Impact Rating	Cost Impact Guideline	Rating	Guideline				
Very Low (VL)	10%	Negligible	<\$10,000	Negligible	< 1 Week				
Low (L)	30%	Marginal	\$10,000 - \$100,000	Marginal	1-2 Weeks				
Moderate (M)	50%	Significant	>\$100,000 - \$500,000	Significant	> 2-4 Weeks				
High (H)	70%	Critical	>\$500,000 - \$1 million	Critical	> 4-8 Weeks				
Very High (VH)	90%	Crisis	>\$1 million	Crisis	> 8 Weeks				

						*OH&P is no	t included in the value(s) below. It is added at the top-line above.														
			PA	RT ONE - Risk / Opportunity Identifica	tion				PART TWO			PART THREE -	Contingency	Planning							
ID	Risk Prob	Risk Change	Risk/Opportunity Element	Definition of Risk/Opportunity Element	Consequence of Occurrence (Cost (\$) and Schedule (days) Impact)	Risk/ Opp	Risk Mitigation / Opportunity Suggestion (technical approach)	віс	Pricing Strategy Contingency		Cost (whole \$)	Cost Probability	Schedule (days)	Schedule Probability	Assumptions						
					\$ 825,000					Optimistic	\$ 750,000	40%	10	40%	Assume \$250,000/month						
8	Н		Schedule	Schedule Risk - Extended GC's	Schedule (days):	R	Weather, labor shortages, supply chain issues and others adds schedule risk to the project.	Construction Manager	Contingency	Most Likely	\$ 750,000	50%	20	50%							
					20					Pessimistic	\$ 1,500,000	10%	60	10%							
					\$ 92,000		Weather, labor shortages, supply chain issues and others adds schedule risk to the project and it's			Optimistic	\$ -	10%			Updated 24Oct2025: Risk value reduced due to execution of long lead procurement.						
9	L		Schedule	Schedule Risk - LD's	Schedule (days):	R	effective \$XXXXX per day damanges. Project may require acceleration, re-sequencing, or similar to	Owner	Contingency	Most Likely	\$ 90,000	80%	10	50%							
					8		avoid LD's.			Pessimistic	\$ 200,000	10%	30	10%							
					\$ 235,000	 -	Safety is critical and any safety incidents will affect	Construction		Optimistic	\$ 100,000	40%	0	40%							
10	L		Safety	Construction Accidents	Schedule (days):	R	productivity and schedule.	Manager	Contingency	Most Likely Pessimistic	\$ 250,000	50%	5	50%							
					5					Optimistic	\$ 700,000 \$ -	10% 50%	20		Closed: 6/5/2025 Closed and revised to Owner Allowance (\$315k was estimate)						
11	М		Location	Unforeseen Conditions	Schedule (days):	CLOSED	Existing conditions - differences between record drawings, potholed utilites during design phase, and actual conditions	Owner	Allowance	Most Likely	\$ -	45%	0		Mar-2025: An excessive amount of potholing done						
					0					Pessimistic	\$ -	5%	0	10%	Closed: 6/5/2025						
					\$ -	-	Limit alternatives which are not feasible or which			Optimistic	\$ -	60%	0	40%	010300.01012020						
12	VH		Resources	Additional Estimating & Precon efforts	Schedule (days):	CLOSED	are unlikely to be selected by client. Seek to avoid excessive alternative analysis. Focus on not backtracking on decisions after they are made.	Ajish Nambiar	Contingency	Most Likely	\$ -	35%	0	50%							
					0		,			Pessimistic	\$ -	5%	0	10%							
					\$ 127,500		Delay in the execution of Phase 2 contract or the			Optimistic	\$ 100,000	50%	0	40%							
13	L		Resources	Availability of planned resources	Schedule (days):	R	overall project schedule start could impact available resources which could increase cost or impact schedule	Greg Roy	Contingency	Most Likely	\$ 150,000	45%	5	50%							
					4		impact sometule			Pessimistic	\$ 200,000	5%	10	10%							
					\$ 2,786,617		The construction market in Delray Beach and			Optimistic	\$ 1,548,121	40%	20		Updated: 6/5/2025 To be updated after GMP2 bids are received. Percentage of Labor, Sub, Other cost						
14	М		Financial	Subcontractor and Vendor Bidder Interest (post selection, e.g. low bidder drops between 60% and 90%)	Schedule (days):	R	surrounding areas is very hot and labor availability is consistently shrinking; therefore bidder interest could be challenging. Team to create bidder B		st Mahendra	Mahendra	Mahendra	t Mahendra	Mahendra	Mahendra		Most Likely	\$ 3,096,241	50%	30	50%	from OPCC
				,	32		interest early in the project by holding outreach events between 30% and 60% design.			Pessimistic	\$ 6,192,482	10%	90	10%							

404

Delray Membrane WTP Phase 1 Project Name: Input Provider: D. Sutter Project Number: 291242 Run Date: 11/5/25 CSL: Suzanne Mechler Version: Rev 10.3 PMCL: Risk\$ + OH&P Victor Pujals 24,495,241 21,968,826 \$ PMD: Ajish Nambiar Risk\$ + Opp\$ 21,968,826 PMC: Ryan Hagaman Risk\$ \$ LCE: Elias Andraos Opportunity\$ PCS: Doug Sutter High Risk\$ 15,247,209

Schedule Days Risk

404

*OH&P is not included in the value(s) below. It is added at the top-line above.

Update: G. Roy, R. Hagaman, D. Sutter

RISK PROBABILIT	Y ASSESSMENT	CO	ST ASSESSMENT	SCHEDULE ASSESSMENT				
Rating	Guideline	Impact Rating	Cost Impact Guideline	Rating	Guideline			
Very Low (VL)	ery Low (VL) 10%		<\$10,000	Negligible	< 1 Week			
Low (L)	Low (L) 30%		\$10,000 - \$100,000	Marginal	1-2 Weeks			
Moderate (M)	50%	Significant	>\$100,000 - \$500,000	Significant	> 2-4 Weeks			
High (H)	High (H) 70%		>\$500,000 - \$1 million	Critical	> 4-8 Weeks			
Very High (VH) 90%		Crisis	>\$1 million	Crisis	> 8 Weeks			

						*UH&P is no	t included in the value(s) below. It is added at the top-line above.								
			PA	RT ONE - Risk / Opportunity Identifica	tion				PART TWO			PART THREE -	Contingency	Planning	
ID	Risk Prob	Risk Change	Risk/Opportunity Element	Definition of Risk/Opportunity Element	Consequence of Occurrence (Cost (\$) and Schedule (days) Impact)	Risk/ Opp	Risk Mitigation / Opportunity Suggestion (technical approach)	BIC	Pricing Strategy Contingency		Cost (whole \$)	Cost Probability	Schedule (days)	Schedule Probability	Assumptions
					\$ -		Additional costs, limited bid transparency to client,			Optimistic	\$ -	90%	0		CLOSED 24Oct2025: Closed due to bidding completion. Mar-2025: Owner sole source items are extreamly limited
15	М		Contractual	Sole Sourced Equipment (if applicable) which may limit competition or reduce commercial control of the project.	Schedule (days):	CLOSED	reduced commercial term negotiation (warranties, damages, lead times, etc.) when working with vendor.	Greg Roy	Contingency	Most Likely	\$ -	10%	0	50%	exteamly illined
					0					Pessimistic	\$ -	0%	0	10%	11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
					\$ 3,575,000		Labor shortages compounds traditional risks associated with sub delays. Current market has many subcontractors bidding projects without the			Optimistic	\$ 500,000	15%	0		Updated 24Oct2025: Recent projects trending subcontractor performance concerns.
16	н		Contractual	Subcontractor Performance Delays	Schedule (days):	R	proper manpower and lack the ability to meet contract requirements. It is imperative to schedule subs as early as possible to provide flexibility for	Construction Manager	Contingency	Most Likely	\$ 3,750,000	60%	40	50%	
					28		sub delays. Also work to flow all damages down to subs to ensure full commitment to schedule.			Pessimistic	\$ 5,000,000	25%	80	10%	
					\$ 680,000		Startup of an additional process is challenging.			Optimistic	\$ 200,000	40%	0	40%	
17	L		Technical/Engineering	Startup & Commissioning Delays	Schedule (days):	R	Brinig key design team on site to assist with startup and develop startup plan well in advance of any startup and commissioning. Carry startup with	Construction Manager	Contingency	Most Likely	\$ 800,000	50%	5	50%	
					5		vendor bid packages.			Pessimistic	\$ 2,000,000	10%	20	10%	
					\$ -					Optimistic		60%	0	40%	Closed: 6/5/2025 Nov 2024: Elec ductbank conflict found & mitigated
18	М		Contractual	Conflict with existing UG Utilities	Schedule (days):	CLOSED	Working at a existing plant, potential of UG utilities.	Ajish Nambiar	Contingency	Most Likely	\$ -	35%	0	50%	
					0					Pessimistic	\$ -	5%	0	10%	

Delray Membrane WTP Phase 1 Project Name: Input Provider: D. Sutter Project Number: 291242 Run Date: 11/5/25 CSL: Suzanne Mechler Version: Rev 10.3 PMCL: Risk\$ + OH&P Victor Pujals 24,495,241 21,968,826 \$ PMD: Ajish Nambiar Risk\$ + Opp\$ 21,968,826 PMC: Ryan Hagaman Risk\$ \$ LCE: Elias Andraos Opportunity\$ PCS: Doug Sutter High Risk\$ 15,247,209

Schedule Days Risk

Update: G. Roy, R. Hagaman, D. Sutter

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Rating	Guideline	Impact Rating	Cost Impact Guideline	Rating	Guideline				
Very Low (VL)	10%	Negligible	<\$10,000	Negligible	< 1 Week				
Low (L)	30%	Marginal	\$10,000 - \$100,000	Marginal	1-2 Weeks				
Moderate (M)	50%	Significant	>\$100,000 - \$500,000	Significant	> 2-4 Weeks				
High (H)	70%	Critical	>\$500,000 - \$1 million	Critical	> 4-8 Weeks				
Very High (VH)	ery High (VH) 90% Cr		>\$1 million	Crisis	> 8 Weeks				

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			PA	RT ONE - Risk / Opportunity Identifica	tion				PART TWO			PART THREE -	Contingency	Planning	
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					s -		Some owner insurance carriers perform a late			Optimistic	s -	40%	0	40%	Closed: 6/5/2025
19	VL		Contractual	Client Insurance Reviews Require Design Changes	Schedule (days):	CLOSED	review of design documents and add requirements above and beyond the basis of design. To minimize this potential impact, have insurance carrier review 60% design documents in parallel to GMP development so any comments can be	Greg Roy	Allowance	Most Likely	\$ -	50%	0	50%	
					0		picked up as part of GMP development.			Pessimistic	\$ -	10%	0	10%	
					\$ -					Optimistic	\$ -	70%	0	40%	Updated: 6/5/2025 - Owner is not utilizing any funding that requires compliance costs. Mar-2025: Mar 11, 2025 BCC meeting
20	М		Contractual	Additional Funding Impacts	Schedule (days):	CLOSED	Availability of Funding or Funding Source Requirements Impact Schedule or Budget	Greg Roy	Contingency	Most Likely	\$ -	25%	0	50%	provided commitment to funding project.
					0					Pessimistic	\$ -	5%	0	10%	
					\$ -		Work with the client to ensure they understand the			Optimistic	\$ -	40%	0	40%	CLOSED 24Oct2025: All design decisions have been made and captured in GMP.
21	L		Contractual	Timely decisions by client	Schedule (days):	CLOSED	timelines involved and provide guidance/assistance where possible to resolve issues.	Greg Roy	Contingency	Most Likely	\$ -	40%	0		Updated 1/13/2025: Increaseed risk percentage.
					0					Pessimistic	\$ -	20%	0	10%	
					\$ 101,500					Optimistic	\$ 60,000	40%	0	40%	Updated 4NOV2025 per GMP Negotiation.
22	L		Contractual	Truck Traffic & Site Controls	Schedule (days):	R	Truck traffic, deliveries, & construction equipment will be onsite together, potential traffic issues.	Construction Manager	Contingency	Most Likely	\$ 125,000	50%	5	50%	
					4					Pessimistic	\$ 150,000	10%	10	10%	
					\$ -		Hazardous material require additional handling and			Optimistic	\$ -	40%	0	40%	Updated 18Feb2025: Closed Risk. Resolved since HAZ assessment completed and any mitigation is in
23	L		Environmental	Asbestos or other hazardous materials in the existing plant.	Schedule (days):	CLOSED	disposal costs. Discuss with owner and perform any necessary investigations.	Greg Roy	Contingency	Most Likely	\$ -	50%	0	50%	direct costs.
					0					Pessimistic	\$ -	10%	1	10%	

404

Doug Sutter

PCS:

Delray Membrane WTP Phase 1 Project Name: Input Provider: D. Sutter Project Number: 291242 Run Date: 11/5/25 CSL: Suzanne Mechler Version: Rev 10.3 PMCL: Risk\$ + OH&P Victor Pujals 24,495,241 21,968,826 PMD: Ajish Nambiar Risk\$ + Opp\$ \$ PMC: Risk\$ \$ 21,968,826 Ryan Hagaman LCE: Elias Andraos Opportunity\$

High Risk\$

Schedule Days Risk

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Update: G. Roy, R. Hagaman, D. Sutter

RISK PROBABILIT	Y ASSESSMENT	COS	ST ASSESSMENT	SCHEDULE ASSESSMENT				
Rating	Guideline	Impact Rating	Cost Impact Guideline	Rating	Guideline			
Very Low (VL)	10%	Negligible	<\$10,000	Negligible	< 1 Week			
Low (L)	30%	Marginal	\$10,000 - \$100,000	Marginal	1-2 Weeks			
Moderate (M)	50%	Significant	>\$100,000 - \$500,000	Significant	> 2-4 Weeks			
High (H)	70%	Critical	>\$500,000 - \$1 million	Critical	> 4-8 Weeks			
Very High (VH)	90%	Crisis	>\$1 million	Crisis	> 8 Weeks			

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				RT ONE - Risk / Opportunity Identifica	tion			T T	PART TWO			PART THREE -	Contingency	Planning	Acquimations
ID	Risk Prob	Risk Change	Risk/Opportunity Element	Definition of Risk/Opportunity Element	Consequence of Occurrence (Cost (\$) and Schedule (days) Impact)	Risk/ Opp	Risk Mitigation / Opportunity Suggestion (technical approach)	віс	Pricing Strategy Contingency		Cost (whole \$)	Cost Probability	Schedule (days)	Schedule Probability	Assumptions
					\$ -					Optimistic	\$ -	75%	0		CLOSED 24Oct2025: Geotech work complete & unsuitables known. Updated 1/13/2025: Increased risk
24	L		Contractual	Unknown quantities of suitable fill to support installation of the structures	Schedule (days):	CLOSED	Verify soil conditions through geotech investigations & do an early cut/fill analysis to support structural designs.	Ajish Nambiar	Contingency	Most Likely	\$ -	20%	0	50%	percentage.
					0					Pessimistic	\$ -	5%	0	10%	
					\$ -					Optimistic	\$ -	75%	0	90%	CLOSED 24Oct2025: Geotech work complete and groundwater known. Mar-2025: GW levels have been
25	L		Technical/Engineering	Dewatering Issues	Schedule (days):	CLOSED	Verify underground water table elevations and underground conditions	Construction Manager	Contingency	Most Likely	\$ -	25%	0		documented and its very low. However given the plant's proximity to the ocean, and reviewing similar other projects, its possible significantly more dewatering
					0					Pessimistic	\$ -	25%	60		is required.
					\$ 7,775,000		Early definition of scope of work to send out to			Optimistic	\$ 4,000,000	5%	90		Updated 5Nov2025 per GMP Negotiation Updated 24Oct2025: Significant post 60% design changes increase direct
26	VH		Technical/Engineering	Design Development Post GMP (60% to IFC and through construction)	Schedule (days):	R	bidders. Utilize pre-construction team to run parallel cost estimate on IFC to confirm direct costs bid for GMP.	Greg Roy	Contingency	Most Likely	\$ 7,500,000	65%	120		costs and increase design development. Updated 1/13/2025: Reduced risk
					116					Pessimistic	\$ 9,000,000	30%	200	10%	percentage. Percent of direct & indirect cost from OPCC
					\$ 75,000		Early review of existing software/hardware setup to			Optimistic	\$ 50,000	55%	15	40%	Updated 1/13/2025: Reduced risk percentage.
27	М		Technical/Engineering	Software/hardware and programming and intergration into the existing conditions.	Schedule (days):	R	verify compatibility of new software/hardware setup to verify compatibility of new software/hardware setup. Obselete software not working with current software	Greg Roy	Contingency	Most Likely	\$ 100,000	40%	30	50%	
					27					Pessimistic	\$ 150,000	5%	60	10%	
					\$ 66,000	-		Construction		Optimistic	\$ 40,000	40%	15	40%	
28	М		Contractual	Damage to existing roads and asphalt	Schedule (days):	R	Video tape and document existing road conditions.	Construction Manager	Contingency	Most Likely Pessimistic	\$ 80,000	50%	20	50%	
					22					Optimistic	\$ 100,000	10%	60	10%	
29	L		Environmental	Surface water site control after a rain event.	\$ 43,000 Schedule (days):	R	Subcontractor scope to mitigate rainwater.	Construction Manager	Contingency	Most Likely	\$ 20,000 \$ 50,000	40%	15	40%	
					27					Pessimistic	\$ 100,000	10%		10%	

15,247,209

404

Delray Membrane WTP Phase 1 Project Name: Input Provider: D. Sutter Project Number: 291242 Run Date: 11/5/25

CSL: Suzanne Mechler Version: Rev 10.3 PMCL: Risk\$ + OH&P Victor Pujals 24,495,241 21,968,826 \$ PMD: Ajish Nambiar Risk\$ + Opp\$ 21,968,826 PMC: Ryan Hagaman Risk\$ \$ LCE: Elias Andraos Opportunity\$ PCS: Doug Sutter High Risk\$ 15,247,209 Schedule Days Risk 404 Update: G. Roy, R. Hagaman, D. Sutter

RISK PROBABILIT	Y ASSESSMENT	CO	ST ASSESSMENT	SCHEDULE ASSESSMENT				
Rating	Guideline	Impact Rating	Cost Impact Guideline	Rating	Guideline			
Very Low (VL) 10%		Negligible	<\$10,000	Negligible	< 1 Week			
Low (L) 30%		Marginal	\$10,000 - \$100,000	Marginal	1-2 Weeks			
Moderate (M)	50%	Significant	>\$100,000 - \$500,000	Significant	> 2-4 Weeks			
High (H) 70%		Critical	>\$500,000 - \$1 million	Critical	> 4-8 Weeks			
Very High (VH)	90%	Crisis	>\$1 million	Crisis	> 8 Weeks			

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			PAF	RT ONE - Risk / Opportunity Identifica	tion				PART TWO			PART THREE -	Contingency	Planning	
ID	Risk Prob	Risk Change	Risk/Opportunity Element	Definition of Risk/Opportunity Element	Consequence of Occurrence (Cost (\$) and Schedule (days) Impact)	Risk/ Opp	Risk Mitigation / Opportunity Suggestion (technical approach)	BIC	Pricing Strategy Contingency		Cost (whole \$)	Cost Probability	Schedule (days)	Schedule Probability	Assumptions
					\$ 100,000		Engage owner in developing a detailed MOPO plan. Conduct several meetings with operations			Optimistic	\$ 100,000	100%	0		Updated 24Oct2025: Comprehensive MOPO planning complete.
30	М		Contractual	Accidental Plant Shutdown/interruption during construction	Schedule (days):	R	staff to discuss the activities and schedule. MOPO plan will ensure all safety measures and permits are in place. It will have a EAP plan. Establish hold points. Create a communication and	Construction Manager	Contingency	Most Likely	\$ 150,000	0%	0	50%	
					0		contingency plans.			Pessimistic	\$ 250,000	0%	0	10%	
					\$ 225,000					Optimistic	\$ 125,000	40%	15	40%	
31	М		Contractual	Damage of existing systems/equipment by subcontractors	Schedule (days):	R	Carefully plan construction sequence/operations and plan with plant operations staff	Construction Manager	Contingency	Most Likely	\$ 250,000	50%	30	50%	
					26					Pessimistic	\$ 500,000	10%	45	10%	
				_	\$ -		Test for various ranges during piloting and			Optimistic	\$ -	40%	0	40%	
32	L			Source water difficult to pilot. May differ to full scale plant	Schedule (days):	CLOSED	consider treatment membranes and equipment with scalability to account for source water variations	Greg Roy	Contingency	Most Likely	\$ -	50%	0	50%	
					0					Pessimistic	\$ -	10%	0	10%	
				New process (membrane) operation for owner will require new personel and new	\$ 200,000		Engage operators early including prior to startup and commissioning to let them be part of the trouble shooting process to gain understanding and			Optimistic	\$ 100,000	65%	0	40%	
33	L		MOPO, Start-up & Testing	practices to get operations running smoothly. Substantial completion delay due to greater owner operator training.	Schedule (days):	R	experirence prior to full commissioning. Full owner training on every piece of equipment inclduing classroom and field traiing.	Greg Roy	Contingency -	Most Likely	\$ 300,000	20%	0	50%	
				5	0		Send operators to SEDA short courses and SEDA conferences			Pessimistic	\$ 500,000	15%	0	10%	CLOSED 4Nov2025 per GMP
				Cood polishbor imposts, respect residents	\$ -		Condcut outreach events, community gatherings and a 24/7 resident hotline. Work closely with the			Optimistic	\$ -	40%	0		Negotiation.
34	L		Location	Good neighbor impacts, respect residents, noise, visual appearance at Main Site	Schedule (days):	CLOSED	community regarding the architecture, colors and finish of the new membrane building to encourage a blend of the facility into the neighborhood.	Greg Roy	Contingency	Most Likely	\$ -	50%	0	50%	
					0		a sisted of the facility line the fleighborhood.			Pessimistic	\$ -	10%	0	10%	

 Project Name:
 Delray Membrane WTP Phase 1
 Input Provider:
 D. Sutter

 Project Number:
 291242
 Run Date:
 11/5/25

CSL: Suzanne Mechler Version: Rev 10.3 PMCL: Risk\$ + OH&P Victor Pujals 24,495,241 \$ 21,968,826 PMD: Ajish Nambiar Risk\$ + Opp\$ PMC: Ryan Hagaman Risk\$ \$ 21,968,826 LCE: Elias Andraos Opportunity\$ PCS: Doug Sutter High Risk\$ 15,247,209

Schedule Days Risk 404

Update: G. Roy, R. Hagaman, D. Sutter

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Rating	Guideline	Impact Rating	Cost Impact Guideline	Rating	Guideline			
Very Low (VL)	/ery Low (VL) 10%		<\$10,000	Negligible	< 1 Week			
Low (L)	30%	Marginal	\$10,000 - \$100,000	Marginal	1-2 Weeks			
Moderate (M)	50%	Significant	>\$100,000 - \$500,000	Significant	> 2-4 Weeks			
High (H)	70%	Critical	>\$500,000 - \$1 million	Critical	> 4-8 Weeks			
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		ı	PAI	RT ONE - Risk / Opportunity Identifica	tion			T T	PART TWO			PART THREE -	Contingency	Planning	Accumptions
ID	Risk Prob	Risk Change	Risk/Opportunity Element	Definition of Risk/Opportunity Element	Consequence of Occurrence (Cost (\$) and Schedule (days) Impact)	Risk/ Opp	Risk Mitigation / Opportunity Suggestion (technical approach)	BIC	Pricing Strategy Contingency		Cost (whole \$)	Cost Probability	Schedule (days)	Schedule Probability	Assumptions
					\$ 175,000		Understand the phasing of the work as well as			Optimistic	\$ 100,000	65%	0	65%	
35	L		Location	Site constraints, laydown area, space	Schedule (days):	R	delivery and traffic considerations. Early detailed planning of the work with owner and subcontrator coordination. May require renting a bonded	Greg Roy	Contingency	Most Likely	\$ 250,000	20%	0	20%	
					0		warehouse or offsite space			Pessimistic	\$ 400,000	15%	0	15%	
				OPCC Accuracy resulting in redesign and	\$ -					Optimistic	\$ -	50%	0	40%	Closed: 6/5/2025
36	М		Quality	delays.	Schedule (days):	CLOSED	Provide quality and timely information to the cost estimator. Review OPCC when it's received.	Mahendra Balkaran	Contingency	Most Likely	\$ -	40%	0	50%	
					0					Pessimistic	\$ -	10%	0	10%	
					\$ -					Optimistic	\$ -	50%	0	25%	Update 6/10/25: Source water/influent water quality is assumed to match water quality as detailed in the BODR.
37	Н			Source Water not improving for membrane treatment requiring addition of pretreatment process system.	Schedule (days):	CLOSED	Design for possibility of adding pretreatment and aggressively pursue well rehabilitation to improve water quality	Greg Roy	Allowance	Most Likely	\$ -	30%	0		Requirements for well field rehabilitation or pretreatment systems are not considered part of the GMP. 30Oct2024: Prorated cost removed
					0					Pessimistic	\$ -	20%	0	25%	from allowance in OPCC
				Florida Power and Light providing timely	\$ 480,000		Frequent correspondence between FPL/design-			Optimistic	\$ 100,000	0%	0	25%	
38	Н		Technical/Engineering	design assistance and installation of new power services	Schedule (days):	R	builder/owner	Greg Roy	Contingency	Most Likely Pessimistic	\$ 300,000 \$ 500,000	10%	0	50% 25%	
										Optimistic			0		Updated 24Oct2025: Recent corrosion study and commission plan reveals great concern with finish water
	М			The membrane plant will provide changes to water quality in the distribution system that could impact pipe corrosion and lead/copper releases. Chemical inhibitors	\$ 317,500	R	Perform a comprehensive Optimal Corrosion	Greg Roy			\$ 100,000	5%	0		This risk is not related to iron levels in the influent water which is an Owner's
39			Technical/Engineering	will be included in the design based on desktop studies but may not be sufficient.	Schedule (days):		Control Treatment Evaluation.	Crog ray	Contingency	Most Likely	\$ 250,000	45%	0	50%	direct cost.
				Adjustments to the installed inhibitors may be necessary to combat LCRR violations.						Pessimistic					
					0						\$ 400,000	50%	0		CLOSED 24Oct2025: The GMP does
				Owner decided (5Nov2024) to not include	\$ -					Optimistic	\$ -	60.0%	0	0%	not include post treatment for reminieralization. Nov 2024: Lowered riks percetange
40	L		Technical/Engineering	process for re-mineralization. As piloting occurs, this design decision might change and a more costly option required such as	Schedule (days):	CLOSED				Most Likely	\$ -	30.0%	0		weighting due to Owner dcison made Nov 5, 2024. 15Oct2024: New Risk
				calcite contractors. The probability is low.	0					Pessimistic	\$ -	10.0%	0	50%	

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Schedule Days Risk

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ID	Risk Prob	Risk Change	Risk/Opportunity Element	Definition of Risk/Opportunity Element	Consequence of Occurrence (Cost (\$) and Schedule (days) Impact)	Risk/ Opp	Risk Mitigation / Opportunity Suggestion (technical approach)	BIC	Pricing Strategy Contingency		Cost (whole \$)	Cost Probability	Schedule (days)	Schedule Probability	Assumptions
					\$ -					Optimistic	\$ -	60.0%	C		Closed: 6/5/2025 Moved to Owners Allowance and to be carried in Estimate
41	М		Financial	Impacts of potential tariffs on global price equipment and materials	Schedule (days):	CLOSED	The only mitigation is to carry more contingency for known international tariffs	G. Roy	Allowance	Most Likely	\$ -	30.0%	C		as Allowance. 18Feb2025: New Risk Added
					0					Pessimistic	\$ -	10.0%	C	40%	
					\$ -					Optimistic	\$ -	5.0%	C	40%	Closed: 6/5/2025 Moved to Owners Allowance and to be carried in Estimate
42	М		Financial	FPL direct cost to City for electrical service work with transformers	Schedule (days):	CLOSED	N/A	G. Roy	Allowance	Most Likely	\$ -	90.0%	C		as Allowance. 18Feb2025: New Risk Added
					0					Pessimistic	\$ -	5.0%	C	20%	
					\$ -					Optimistic	\$ -	5.0%	C	20%	Closed: 6/5/2025 Moved to Owners Allowance and to be carried in Estimate
43	М		Financial	Permitting direct cost to City	Schedule (days):	CLOSED	N/A	G. Roy	Allowance	Most Likely	\$ -	90.0%	С		as Allowance. 18Feb2025: New Risk Added
					0					Pessimistic	\$ -	5.0%	C	40%	
				The location of all 6 new production wells has not been establish and has been	\$ -					Optimistic	\$ -	10.0%	C		Closed: 6/5/2025 March-2025: Risk added
44	М		Technical/Engineering	assumed for GMP development. Changes to these locations could increase	Schedule (days):	CLOSED	Obtain regulator approval for the currently recommended well locations.	G. Roy	Contingency	Most Likely	\$ -	80.0%	C	20%	
				construction costs.	0					Pessimistic	\$ -	10.0%	C	20%	
					\$ -		Work with City to identify disposal locations for			Optimistic	\$ -	20.0%	C		CLOSED 24Oct2025: A plan developed for disposal of off spec process water.
45	М		Environmental	Disposal of off-spec water during startup & commissioning	Schedule (days):	CLOSED	offspec water. May require temporary piping, hoses and/or pumps to properly complete flushing,	Const. Mgr	Contingency	Most Likely	\$ -	60.0%	C	20%	
					0		testing, and startup.			Pessimistic	\$ -	20.0%	C	20%	

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Delray Membrane WTP Phase 1 Project Name: Input Provider: D. Sutter Project Number: 291242 Run Date: 11/5/25 CSL: Suzanne Mechler Version: Rev 10.3 PMCL: Risk\$ + OH&P Victor Pujals 24,495,241 21,968,826 \$ PMD: Ajish Nambiar Risk\$ + Opp\$ 21,968,826 PMC: Ryan Hagaman Risk\$ \$ LCE: Elias Andraos Opportunity\$ PCS: Doug Sutter High Risk\$ 15,247,209

Schedule Days Risk

Update: G. Roy, R. Hagaman, D. Sutter

RISK PROBABILIT	Y ASSESSMENT	cos	ST ASSESSMENT	SCHEDULE ASSESSMENT				
Rating	Guideline	Impact Rating	Cost Impact Guideline	Rating	Guideline			
Very Low (VL)	Very Low (VL) 10%		<\$10,000	Negligible	< 1 Week			
Low (L)	Low (L) 30%		\$10,000 - \$100,000	Marginal	1-2 Weeks			
Moderate (M)	50%	Significant	>\$100,000 - \$500,000	Significant	> 2-4 Weeks			
High (H)	High (H) 70%		>\$500,000 - \$1 million	Critical	> 4-8 Weeks			
Very High (VH)	90%	Crisis	>\$1 million	Crisis	> 8 Weeks			

	*OH&P is not included in the value(s) below. It is added at the top-line above.														
			PAF	RT ONE - Risk / Opportunity Identifica	tion				PART TWO			PART THREE -	Contingency	Planning	
ID	Risk Prob	Risk Change	Risk/Opportunity Element	Definition of Risk/Opportunity Element	Consequence of Occurrence (Cost (\$) and Schedule (days) Impact)	Risk/ Opp	Risk Mitigation / Opportunity Suggestion (technical approach)	BIC	Pricing Strategy Contingency		Cost (whole \$)	Cost Probability	Schedule (days)	Schedule Probability	Assumptions
					\$ 400,000					Optimistic	\$ 250,000	10.0%	0	60%	Added Risk 24Oct2025
46	М		Contractual	main road and new requirement to maintain existing Dewatering Building thru 1/2	Schedule (days):	R	Continuously enhance construction sequencing plan as work progresses		Contingency	Most Likely	\$ 400,000	75.0%	0	20%	
				construction.	0					Pessimistic	\$ 500,000	15.0%	0	20%	
					\$ 570,000		Provide proper pre construction assessments followed by maximize distance between work and			Optimistic	\$ 100,000	20.0%	0	60%	Added Risk 24Oct2025
47	М		Technical/Engineering	Protection of Existing Structures	Schedule (days):	R	existing structures, subsurface support (shoring) or other mitigation if necessary and continuous	G. ROy	Contingency	Most Likely	\$ 500,000	60.0%	0	20%	
					0		monitoring.			Pessimistic	\$ 1,250,000	20.0%	0	20%	
					\$ 250,000					Optimistic	\$ 100,000	20.0%	0	50%	Added Risk 24Oct2025
48	М		Technical/Engineering	Construction Health and Safety Hazards	Schedule (days):	R	Develop and strictly enforce all Health and Safety Plans, and have a dedicated H&S Manager.	G. Roy	Contingency	Most Likely	\$ 250,000	60.0%	0	30%	
					0					Pessimistic	\$ 400,000	20.0%	0	20%	
					\$ -					Optimistic	\$ -	20.0%	0	10%	
49					Schedule (days):	R				Most Likely	\$ -	60.0%	0	50%	
					0					Pessimistic	\$ -	20.0%	0	40%	
					\$ -					Optimistic					
50					Schedule (days):					Most Likely					
					0					Pessimistic					

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Attachment 7

Bid Analysis



Bid Analysis



2025-04 Delray WTP-60 Blue Sheets

			OPCC	S	elected Bid		Variance
Package/Section:		N	Major PO's				
400.26 32 13 Diesel-Engine_Driven Generator Sets & Fuel Tanks		Soc	Allowance	Soc	Allowance		See Allowance
400.41 22 13.23 Mobile All Terrain Crane and Pallet Stacker		\$	197.027	\$	238.259	\$	41.232
400.43 24 16 Process Sump Pumps		\$	44.549		40,134	\$	(4,415)
400.43 24 16 Flocess Sump Fumps 400.43 32 41 Flushing and Clean In Place Pumps		\$	314.815	•	358.732	\$	43.917
400.43 41 13 Welded Steel Tanks (H2SO4) Bulk & Day Tank		\$	115,472	•	128,072	\$	12,600
400.43 41 45 FRP Chemical Tanks		\$	1,003,038	•	871.978	\$	(131,060)
400.46 33 66 Chemical Transfer & Metering Pumps		\$	387,190		521,908	\$	134,718
400.46 41 17 Static Mixers		\$	229.281		148.659	\$	(80,622)
400.46 53 26 Degasifier Equipment		\$	3,801,546	•	2.026.788	\$	
		\$	992.417	_	,,	\$	(1,774,758) 72.047
400.46 61 53 Cartridge Filters		т —	,	т.	1,064,464	-	
400.46 63 00 Membrane Elements		\$	2,831,588	\$	2,593,767	\$	(237,821)
400.46 63 23 NF System		\$	7,812,648	\$	8,390,077	\$	577,429
SUBTOTAL		\$	17,729,571	\$	16,382,839		
		•		_			// 700 000
503.26 00 00 Electrical & Instrumentation		\$	19,126,775	\$	17,587,455	\$	(1,539,320)
SUBTOTAL		\$	19,126,775	\$	17,587,455		
200.01 32 23 Surveying		\$	279,496	\$	228,746	\$	(50,750)
200.01 45 23 Materials Testing		\$	57,017		201,639	\$	144,622
200.03 30 00 Site CIP Concrete & Reinforcing		\$	1,332,459		1,277,623	\$	(54,837)
200.05 50 00 Misc Metals		\$	275,237	\$	445,763	\$	170,526
200.09 00 00 Building Envelope - NF Membrane and Admin Buildings		\$	25,363,853	\$	29,255,209	\$	3,891,356
200.09 96 73 Paint & High Performance Coatings		\$	537.517	\$	520,366	\$	(17,151)
200.13 34 19 Metal Canopies		\$	389,897	\$	214,343	\$	(175,554)
200.31 00 00 Sitework (Plant & SAS Wells)		\$	15,076,803	\$	17,930,200	\$	2,853,397
200.31 00 01 Precast Wall		\$	1.006.053		202,216	\$	(803,837)
200.31 00 02 Landscaping and Irrigation		\$	812,344	•	812,344	\$	-
200.31 00 03 Site Signage		\$	68,676	\$	68,676	\$	
200.31 00 04 Fencing		\$	194,151	\$	194,151	\$	-
200.31 45 00 Deep Foundations		\$	2,049,587	\$	1,649,921	\$	(399,666)
200.33 00 00 SAS Well Installation		\$	6,549,331	\$	4,712,000	\$	(1,837,331)
200.33 11 13 SAS Well Rehabilitation		\$	1,800,000	\$	1,106,311	\$	(693,689)
200.33 14 11 Raw Water Main		\$	1,132,295	т —	1,132,295	\$	(000,000)
200.40 00 00 Process Mechanical		\$	18,917,194	\$	22.729.075	\$	3,811,881
Charter Bus for Contractor Staff		_	10,017,104	\$	601,425	_	0,011,001
Parking Lot for Contractor Staff				\$	275.000		
SUBTOTAL		\$	75,841,910	\$	83,557,303		
		T	-,,		,,		
	SUBTOTAL	\$	112,698,256	\$	117,527,597	\$	3,952,916
							, ,
-	TOT::		440,000,050		447 507 507	•	0.050.040
	TOTAL	\$	112,698,256	\$	117,527,597	\$	3,952,916