

**Task Order No. 9, Amendment 2**

**City of Sweet Home WWTP Phase 1 Final Design and Bidding, and Phase 2 60% Design**

**West Yost Job Number 936-50-21-09**

In accordance with the Contract between the City of Sweet Home (Client) and West Yost Associates, Inc. (Consultant), dated September 2, 2020, Consultant is authorized to complete the work scope defined in this Task Order No. 9, Amendment 2 according to the schedule and budget defined herein.

WORK SCOPE

The Scope of Services includes providing Final Design services for the City of Sweet Home Wastewater Treatment Plant Improvements Project in accordance with the Letter Proposal dated April 21, 2022 (Exhibit A).

COMPENSATION

Compensation shall be in accordance with the provisions of the Task Order Agreement between Client and Consultant.

The compensation limit for services performed under this task order shall not exceed \$2,290,858. If additional funds are required to complete the services defined herein beyond this limit, Consultant shall notify Client in writing prior to reaching the authorized limit and will not proceed with work in excess of the limit without the prior written approval of Client.

SCHEDULE

Schedule shall be performed as shown in Exhibit A.

WEST YOST ASSOCIATES, INC.

Charles Duncan  
Signature

Charles Duncan  
Printed Name

President & CEO  
Title

April 26, 2022  
Date

CITY OF SWEET HOME

Christy Wurster  
Signature

Christy S. Wurster  
Printed Name

City Manager Pro Tem  
Title

April 27, 2022  
Date



5 Centerpointe Drive 503.451.4500 phone  
 Suite 130 530.756.5991 fax  
 Lake Oswego OR 97035 westyost.com

April 21, 2022

SENT VIA: EMAIL

Mr. Greg Springman  
 Public Works Director  
 City of Sweet Home  
 1400 24th Avenue  
 Sweet Home, OR 97386

**SUBJECT: Proposal for Engineering Services for Sweet Home WWTP Phase 1 Final Design and Bidding, and Phase 2 60% Final Design**

Dear Mr. Springman:

This letter proposal summarizes West Yost's proposed scope, budget schedule and team for continuing design of the Sweet Home Wastewater Treatment Plant (WWTP) Improvements Project. The project is planned for construction in two phases as noted in the schedule section of this proposal. Key project elements and phases are summarized below along with the Design Manager for each phase.

**WWTP Phase 1 Improvements (Design Manager: Bill Schilling)**

- Demolition of existing upper plant area buildings and structures
- Upper plant area civil and site improvements including new gated main plant entrance and gate, new retaining wall along the west and south property lines, plant utilities including water, sanitary sewer, storm drainage and upper plant paving.
- Relocation of the existing public restroom.
- New influent pump station with self-cleaning, trench style wet well and dual force mains for pumping raw influent to the new headworks.
- Building "A" pre-engineered metal building (PEMB) consolidating the headworks, dewatering, O&M/Control area and Maintenance facility into a single "L" shaped structure.
- Primary Clarification including primary influent control structure (PICS), three (3) covered rectangular primary clarifiers, primary sludge pumping, primary scum pump station, headworks and primary clarifier odor control facilities and primary effluent control structure (PECS).
- Main Electrical and Blower (MEB) building that will house the main service entrance, switchgear and also the blower room to house blowers that will be installed in Phase 2

**WWTP Phase 2 Liquid Stream Upgrades (Design Manager: Jane Costello)**

- Demolition of the existing Administration Building, two existing 45' diameter secondary clarifiers and the existing RAS/WAS pump building.
- Lower plant area civil and site improvements including lower gated ingress/egress for emergency vehicle access, new looped lower plant driveway, plant utilities including looped drinking water transmission main, utility water piping and storm drains, and lower plant paving.

- Conversion of the existing influent pump station into the Recycle/Drain Pump Station that will be used for pumping site storm water and plant recycle streams to the PICS.
- Rehabilitation and upgrades to existing Aeration Basins 1 and 2 and construction of a new Aeration Basin 3 along with a new mixed liquor control structure (MLCS) splitting flows to the two secondary clarifiers.
- Installation of aeration blowers and piping in the MEB Building constructed in Phase 1.
- New RAS/WAS/scum pump stations for the existing 60' diameter secondary clarifier (SC60).
- New 90' diameter suction-header style secondary clarifier (SC90) with submersible RAS/WAS pump stations.
- New tertiary filter complex with three cloth media disk filter basins.
- Conversion of the existing chlorine contact basin into a two-train UV disinfection facility and utility water wet well providing reuse/process water throughout the WWTP.
- New effluent Parshall flume for metering effluent discharge and peak flow outfall connecting to the existing outfall near the bank of the South Santiam River.
- New Tertiary Building with electrical room serving the lower plant area, utility water pump station and restrooms for staff working in the lower plant area.

#### **Phase 2 Solids Stream Upgrades (Design Manager: Preston Van Meter)**

- New glass-lined bolted steel (GLBS) solids blend tank consolidating and blending primary sludge, secondary WAS from the SC60 and SC90 and primary scum.
- New Solids building housing the blended solids feed pumps, solids thickener, digester feed pumps, boiler, heat exchanger and digested sludge feed pumps.
- New 400,000 gallon primary digester constructed inside the existing aerobic digester along with pump mixing system, gas safety equipment, waste gas flare and access platform.
- New glass-lined bolted steel (GLBS) digested sludge storage tank for storage of digested sludge prior to being pumped to the new solids dewatering facility constructed in Phase 1.
- New dewatering feed pumps

This proposal provides an introduction to our project team along with West Yost's proposed Scope of Services, Budget and Schedule for the project.

## **PROJECT TEAM**

West Yost's project team continuing on the project and completing design for Phase 1 and Phase 2 in parallel includes:

**Corie Moolenkamp** (West Yost) – Principal-in-Charge supporting the City and project team

**Preston Van Meter** (West Yost) – Project Manager and primary point of contact.

**Brooke Barry** (West Yost) – Deputy Project Manager, Civil Design Lead and alternate point of contact.

**Bill Schilling** (West Yost) – Phase 1 Design Manager

**Jane Costello** (West Yost) – Phase 2 Liquids Stream Design Manager

**Greg Chung** (West Yost) – Phase 2 Solids Stream Design Manager

**Walt Meyer and Tim Banyai** (West Yost) – QA/QC and technical advisors  
**Ace Engineers** – Structural Design Lead  
**Strongwork Architecture** – Architectural Design Lead  
**Interface Engineering** – Building A MEP and Overall HVAC Design Lead  
**Landis Consulting** – Electrical, Instrumentation and Controls (EI&C) Design Lead  
**The Automation Group** – Controls and Automation Lead and City Integrator-of-Record  
**Cadworks** – Mechanical and Structural CAD Design and 3D modeling

## SCOPE OF SERVICES

West Yost’s proposed Scope of Services for City’s WWTP Improvements Project is included as Attachment A. The Scope of Services includes the following tasks:

- Task 1.** Project Management
- Task 2.** Project Planning and Coordination Activities
- Task 3.** Phase 1 Final Design and Bidding
- Task 4.** Phase 2 Preliminary and 60% Design
- Task 5.** Design Contingency

Final design sheet lists for Phase 1 and Phase 2 are included as Scope of Services Exhibits 1 and 2, respectively.

## PROJECT BUDGET

West Yost’s proposed level of effort and budget is summarized in Table 1 below and Attachment B. West Yost will perform the Scope of Services with a not-to-exceed budget of **\$2,290,858**. Any additional services not included in this Scope of Services will be performed only after receiving written authorization and a corresponding budget augmentation.

<b>Task</b>	<b>Budget, \$</b>
Task 1. Project Management	161,315
Task 2. Project Planning and Coordination Activities	130,394
Task 3. Phase 1 Final Design and Bidding Services	832,399
Task 4. Phase 2 Preliminary and 60% Design	974,097
Task 5. Design Contingency	196,652
<b>Total Project Budget</b>	<b>\$2,290,858</b>

## SCHEDULE

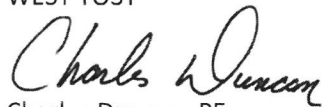
An updated project schedule showing current anticipate key milestone dates and completion timelines is included as Attachment C. West Yost's full design team is currently working on Phase 1 final design to bid Phase 1 this summer to obtain \$7 Million of grant funding from the Oregon legislature for work completed by June 30, 2023.

## CONTRACTUAL TERMS AND CONDITIONS

West Yost will complete the project in accordance with the terms and conditions of our current City Engineer-of-Record contract. If West Yost's proposal is accepted by the City, a Task Order Agreement with signature blocks will be prepared for all parties to fully execute the contract.

Thank you for providing West Yost the opportunity to be of continued service to the City. We look forward to working with you on this important project. Please call, 503.784.9536, if you have any questions or require additional information.

Sincerely,  
WEST YOST



Charles Duncan, PE  
President & CEO  
PE# 91819



Preston Van Meter, PE  
Principal Engineer  
PE# 51615

## Attachment A

### Scope of Services

# ATTACHMENT A

## SCOPE OF SERVICES

April 21, 2022

West Yost proposes to provide the following Scope of Services to finalize the WWTP Phase 1 design and proceed through bidding and Contractor selection as well as WWTP Phase 2 through 60% Design.

### Task 1. Project Management

Project management includes coordination of West Yost's internal team and subconsultants, quality assurance and quality control (QA/QC) activities, and preparation of monthly project updates and invoices.

#### ***Task 1.01. Contracts and Project Management Plan (PMP)***

Coordinate with the City and Owner's Representative to finalize contracts for West Yost and our subconsultants. Prepare a Project Management Plan to guide the completion of the project, summarizing team coordination activities, reporting requirements, project scope, key schedule milestones, staffing plan, contingency planning for unforeseen changes in project scope, and other related project elements.

#### ***Task 1.02. Monthly Project Status Reports and Invoices***

Prepare monthly project updates, including a summary of project status, monthly invoice for services performed, earned value analysis (EVA) assessing project completion versus budget utilized, key upcoming project milestones, and any anticipated issues that may impact project budget or schedule.

#### ***Task 1.03. Team Coordination Activities***

West Yost will conduct bi-weekly project check-in conference calls with City staff to review and discuss design issues, track project budget and schedule status, identify key coordination items (e.g. permitting) and other elements pertinent to the Project. For budgeting purposes, 16 one-hour bi-weekly team conference calls to be attended virtually by West Yost's Project Manager, Deputy Project Manager and Mechanical Lead are included. West Yost's full design team will also conduct weekly half hour Plan of the Week (POTW) meetings to coordinate design team activities and keep the project on track to meet the aggressive project schedule.

#### **Task 1 Assumptions**

- The project duration is anticipated to begin in May and continue through December 2022, therefore eight (8) monthly project progress reports and invoices are budgeted.
- Action items from bi-weekly project check-in conference calls will be sent to attendees via email.

#### **Task 1 Deliverables**

- West Yost will provide one electronic (PDF) copy of monthly progress reports with invoices.

### Task 2. Project Planning and Coordination Activities

This task is unchanged from the original Scope of Work except for Tasks 2.08 and 2.09 which are deleted given the significant changes in the project for both design phases. Key deliverables for Phase 1 and Phase 2 design are summarized in Tasks 3 and 4, respectively.

***Task 2.01. USDA Preliminary Engineering Report (PER) and Environmental Review (ER) Updates***

West Yost will update the PER prepared previously to depict the currently planned approach for WWTP upgrades and update costs based on current market conditions. The ER will be updated to address cultural resources comments received during agency review.

***Task 2.02. Geotechnical Engineering Report (GER) and Geotechnical Data Report (GDR) Updates***

West Yost will work with McMillan-Jacobs to update the GER and GDR prepared previously to depict the currently planned approach for WWTP upgrades. Additional field work includes seven (7) new soil borings to further identify depth to basalt rock at deeper structures including the new influent pump station, primary clarifiers and 90' secondary clarifier (SC90).

***Task 2.03. Regulatory Agency Meetings and Coordination***

West Yost will conduct two meetings with Oregon DEQ and other interested agencies to update them on the overall WWTP project, timing for Phase 1 and 2 plan reviews and other details. It is anticipated the meetings will be at the Salem DEQ office and attended by West Yost's Project Manager and Deputy Project Manager. This task also includes time for ongoing phone calls and discussions with DEQ and other regulatory agencies, budgeted at 16 hours for West Yost's Project Manager and Deputy Project Manager.

***Task 2.04. Funding Agency Meetings and Coordination***

West Yost will attend up to four (4) meetings with the DEQ CWSRF program, USDA Rural Utilities Service and Business Oregon and support the City in completed funding applications and associated project funding needs.

***Task 2.05. General Contractor Pre-Qualification***

Prepare a Request for Qualifications (RFQ) for soliciting Statements of Qualifications from General Contractors interested in being pre-qualified and bidding the WWTP Phase 1 and Phase 2 projects that will be bid separately. It is anticipated the pre-qualified General Contractors list developing through the selection process will be utilized for bidding of both phases of the project and that no new pre-qualified General Contractors will be added to the list during Phase 2 bidding. Support the City in reviewing General Contractor submittals and prepare a memo summarizing the pre-qualified General Contractors for distribution by City staff.

***Task 2.06. Construction Documentation Software Selection***

Prepare a Request for Proposals (RFP) to solicit proposals from vendors providing 3<sup>rd</sup> party construction documentation support programs. It is anticipated the construction documentation software will be a web-based application utilized for Phase 1 and Phase 2 of the project. Prepare an Engineer's Recommendation of Award Memo related to the solicitation and selection process.

***Task 2.07. Special Inspections and Testing Firm Selection***

Prepare a Request for Proposals (RFP) to solicit proposals from companies interested in providing third party special inspections and testing as required by the Oregon codes and reviewed by the City's Building Official and Linn County electrical inspector. Prepare an Engineer's Recommendation of Award Memo related to the solicitation and selection process.



### **Task 2.08. Biological Process Design Confirmation**

West Yost's design team will coordinate with the biological process design team to confirm the final secondary and tertiary mechanical design conforms to requirements of the biological process design.

#### **Task 2 Assumptions**

- USDA PER and ER updates will entail updating one alternative based on modifications for the current design approach with cost updates for other alternatives applied using the ENR-CCI construction cost index and additional contingencies.
- GER/GDR updates will entail updating the reports for the current design approach and adding in additional testing for rock depths at new structures, consisting primarily of the new IPS, primary clarifiers and new 90' secondary clarifier.
- Drawings will be developed for printing and readability based on 11x17 half-size reductions.
- Printing of Final CDs for Bidders is not included in West Yost's budget. It is anticipated copies of Final CDs will be issued to Bidders electronically or through a 3<sup>rd</sup> party print company.
- Construction services to be provided by West Yost and sub-consultants beyond Phase 1 Bidding Services will be contracted separately.

#### **Task 2 Deliverables**

- One electronic (PDF) copy of the draft and final Preliminary Engineering Report and Environmental Review.
- One electronic (PDF) copy of the updated GER and GDR.
- One electronic (PDF) copy of the agenda, presentation slides and minutes from regulatory and funding agency review meetings and workshops.
- One electronic (PDF) copy of the draft and final General Contractor Pre-qualification RFP and Pre-qualified Contractors list for distribution by City staff.
- One electronic (PDF) copy of the draft and final Construction Documentation Vendor RFP and Engineer's Recommendation of Award Memo.
- One electronic (PDF) copy of the draft and final Special Inspections and Testing firm RFP and Engineer's Recommendation of Award Memo.

## **Task 3 WWTP Phase 1 Final Design & Bidding Services**

Task 3 will carry the current Phase 1 60% design through completion and development of final Contract Documents for bidding. This task also includes providing bid period services for selection of the General Contractor to complete the project following a General Contractor Pre-Qualification process defined in Task 2.

### **Task 3.01. Phase 1 90% Final Design**

Prepare the Phase 1 90% Design including drawings as summarized in Scope of Services Exhibit 1, Division 0 and 1 "front end" specifications including bid documents, contract documents and general conditions, Phase 1 Engineer's Opinion of Probable Construction Cost (OPCC) and updated project schedule.

**Task 3.02. Phase 1 90% Final Design Workshops**

Conduct a total of three (3) workshops with City staff to review the Phase 1 90% design. For budgeting purposes, the workshops will be attended by key members of West Yost's project team. Workshops will be attended by West Yost Project Manager, Deputy Project Manager, Phase 1 Design Manager, staff engineers and key sub-consultant partners.

**Task 3.03. WWTP Phase 1 Final Design Reviews and Coordination**

Submit the Phase 1 90% Final Design to DEQ, USDA, City Building Official and Linn County (electrical) for review. Lead agency meetings as required to obtain regulatory and funding agency approvals to proceed. This task assumes one (1) meeting with USDA, one (1) meeting with Oregon DEQ and one (1) meeting with the City's Building Official.

**Task 3.04. Phase 1 Final Contract Documents**

Incorporate review comments and prepare final Phase 1 Contract Documents (Final CDs) for bidding. West Yost will prepare a 60% Design Submittal focused on general, demolition, civil, mechanical, architectural, building MEP and instrumentation drawings, specifications TOC, updated project schedule and Engineer's OPCC.

**Task 3.05. Phase 1 Bidding Services**

West Yost will provide bid period services, including:

- Attend mandatory Pre-Bid Conference;
- Respond to Bidder inquiries and questions;
- Prepare and issue up to four (4) addenda to the Final CDs;
- Support City staff in reviewing General Contractor bids;
- Prepare the Engineer's Recommendation of Award; and
- Prepare Conformed Contract Documents to be used for Phase 1 construction.

**Task 3 Assumptions**

- No additional topographical surveying, hazardous materials survey or environmental documentation are anticipated to be required as part of the project.
- No services associated with hazardous materials removal or cultural artifacts recovery and monitoring are included in West Yost's Scope of Services.
- Deferred submittals during construction will be used for design-build of the following Building A systems: (1) Fire Detection and Alarm System and (2) Building Automation, Energy Management and Temperature Control Systems.
- A standby diesel-engine generator with belly tank is anticipated for the Sweet Home WWTP. No onsite battery storage or photo-voltaic systems are included in West Yost's Scope of Services.
- CAD drawings will be developed using the following platforms: (1) Buildings and Structures: AutoCAD Plant 3D and Revit, (2) Civil/Site Work and Yard Piping: AutoCAD Civil 3D and (3) Electrical and Instrumentation: AutoCAD.
- Drawings will be developed for printing and readability based on 11x17 half-size reductions.
- Specifications shall be developed in the Construction Specifications Institute (CSI) 6-digit format.
- Printing of Final CDs for Bidders is not included in West Yost's budget. It is anticipated copies of Final CDs will be issued to Bidders electronically or through a 3<sup>rd</sup> party print company.

- Building and electrical permits will be pulled by the General Contractor and fees paid by the City of Sweet Home.
- Construction services to be provided by West Yost and sub-consultants beyond Phase 1 Bidding Services will be contracted separately.

### **Task 3 Deliverables**

- Two (2) hard copies and one (1) electronic (PDF) copy of the WWTP Phase 1 90% Design Submittal.
- Five (5) hard copies and 1 electronic (PDF) copy of the WWTP Final Contract Documents.
- One electronic (PDF) copy of the agenda and minutes from all Phase 1 meetings and workshops with City staff, permitting and funding agencies.
- One electronic (PDF) copy of the agendas and minutes from all regulatory and funding agency meetings.

## **Task 4 WWTP Phase 2 Preliminary and 60% Design**

Task 4 will carry the current Phase 2 conceptual layout, design and OPCC that has been prepared by West Yost through preliminary and 60% design completion.

### ***Task 4.01. Phase 2 Preliminary Design***

Prepare the Phase 2 Preliminary Design carrying the design to the range of 10% to 30% completion depending on the process area. Elements of Phase 2 requiring greater detail for coordination with Phase 1 construction will be carried to a greater level of design. This task includes developing of drawings for all Phase 2 unit processes, Specifications Table of Contents and updated Phase 2 Engineer's Opinion of Probable Construction Cost (OPCC). No preliminary design report (PDR) is anticipated to be prepared as a part of Phase 2 Preliminary Design.

### ***Task 4.02. Phase 2 Preliminary and 60% Design Workshops***

Conduct a total of six (6) workshops with City staff to review the Phase 2 preliminary and 60% design. For budgeting purposes, the workshops will be attended by key members of West Yost's project team. Workshops will be attended by West Yost Project Manager, Deputy Project Manager, Phase 2 Design Manager, staff engineers and key sub-consultant partners.

### ***Task 4.03. Phase 2 60% Design***

Prepare the Phase 2 60% Design including drawings as summarized in Scope of Services Exhibit 2, critical equipment specifications, Phase 2 Engineer's Opinion of Probable Construction Cost (OPCC) and updated project schedule.

### **Task 4 Assumptions**

- Assumptions for Task 3 detailed design, including CAD platforms, specifications, building permit fees and relates shall the same for Task 4.
- No additional topographical surveying, hazardous materials survey or environmental documentation are anticipated to be required as part of the project.
- No services associated with hazardous materials removal or cultural artifacts recovery and monitoring are included in West Yost's Scope of Services.
- Drawings will be developed for printing and readability based on 11x17 half-size reductions.

#### **Task 4 Deliverables**

- One electronic (PDF) copy of the agendas and minutes from all Phase 2 meetings and workshops.
- One (1) electronic (PDF) copy of the WWTP Phase 2 Preliminary Design including drawings, specifications table of contents, Engineer's Opinion of Probable Construction Cost and updated Project Schedule.
- Two (2) hard copies and one (1) electronic (PDF) copy of the WWTP Phase 2 60% Design including drawings, critical equipment specifications, Engineer's Opinion of Probable Construction Cost and updated Project Schedule.

### **Task 5 Contingency**

#### ***Task 5.01. Owner-Controlled Contingency***

Contingency funds are set aside to provide the City of Sweet Home and West Yost a contingency fund to address unanticipated design. The funding could also be utilized for early Phase 1 construction activities to keep the start of construction on track. Contingency funds are Owner-controlled and will only be utilized by West Yost upon written authorization of the City.

Exhibit 1

Phase 1 Sheet List

# Sweet Home WWTP Improvements Project

## Scope of Work Exhibit 1

### Phase 1 Final Design Sheet List

Sheet List Title	Number of Sheets: 60% Submittal	Number of Sheets: 90%/Final Submittal
General	8	8
Civil	19	19
Architectural	17	30
Structural	40	47
Mechanical	28	38
Plumbing	9	9
HVAC	6	7
Building Electrical	11	11
Technology	3	3
Electrical	50	70
Instrumentation & Control	0	75
Process & Instrumentation Diagrams	19	19
<b>Total</b>	<b>210</b>	<b>336</b>

Sheet No.	Drawing No.	Drawing Title	60%	90%/ Final
<b>General</b>				
1	G-000	Cover Sheet	X	X
2	G-001	Drawing Index	X	X
3	G-002	General Notes	X	X
4	G-003	Symbols	X	X
5	G-004	Abbreviations	X	X
6	G-005	Design Criteria	X	X
7	G-006	Process Flow Diagram	X	X
8	G-007	Hydraulic Profile	X	X
<b>Civil</b>				
9	C-001	Civil Details 1	X	X
10	C-002	Civil Details 2	X	X
11	C-003	Civil Details 3	X	X
12	C-004	Civil Details 4	X	X
13	C-005	Civil Details 5	X	X
14	C-010	Erosion Control Notes And Details	X	X
15	C-011	Erosion Control Plan	X	X

# Sweet Home WWTP Improvements Project

## Scope of Work Exhibit 1

### Phase 1 Final Design Sheet List

<b>Table 1-2. Anticipated Sheet List</b>				
Sheet No.	Drawing No.	Drawing Title	60%	90%/ Final
16	C-020	Existing Conditions Plan	X	X
17	C-021	Site Demolition Plan	X	X
18	C-031	Existing Utilities Plan	X	X
19	C-032	Existing Utilities Demolition Plan	X	X
20	C-033	Overall Site Plan, Structure Coordinates, Staging, And Access	X	X
21	C-034	Overall Grading, Drainage, And Paving Plan	X	X
22	C-035	Retaining Wall Profiles	X	X
23	C-036	Yard Piping Plan	X	X
24	C-040	Pipe Profiles 1	X	X
25	C-041	Pipe Profiles 2	X	X
26	C-042	Pipe Profiles 3	X	X
27	C-043	Pipe Profiles 4	X	X
<b>Architectural</b>				
28	A-001	Architectural Legend And Code Information	X	X
29	A-002	Architectural Life Safety Plans And Code Information		X
30	A-003	Architectural Door Types Schedules	X	X
31	A-004	Architectural Window Types And Schedules And Finish Schedules	X	X
32	A-005	Architectural Details - Vertical Assemblies	X	X
33	A-006	Architectural Details - Horizontal Assemblies	X	X
34	A-007	Architectural Details - Storefront Details		X
35	A-008	Architectural Details - Door Details		X
36	A-009	Architectural Details - Overhead Door Details		X
37	A-010	Architectural Details - Window Details 1		X
38	A-011	Architectural Details - Window Details 2		X
39	A-012	Architectural Details - Louver Details		X
40	A-013	Architectural Details - Misc Building Details 1	X	
41	A-014	Architectural Details - Misc Building Details 2		X
42	A-015	Architectural Details - Misc Building Details 3		X
43	A-016	Architectural Details - Typical Interior Finish Details	X	X
44	A-017	Architectural Details - Typical Interior Finish Details	X	X
45	A-200	Building A - First Floor Plan	X	X
46	A-201	Building A - Second Floor Plan	X	X
47	A-202	Building A - Administration Area Enlarged Plan 1	X	X
48	A-203	Building A - Administration Area Enlarged Plan 2	X	X
49	A-204	Building A - Building Elevations 1	X	X

# Sweet Home WWTP Improvements Project

## Scope of Work Exhibit 1

### Phase 1 Final Design Sheet List

Table 1-2. Anticipated Sheet List				
Sheet No.	Drawing No.	Drawing Title	60%	90%/ Final
50	A-205	Building A - Building Elevations 2	X	X
51	A-206	Building A - Reflected Ceiling Plans	X	X
52	A-207	Building A - Roof Plan	X	X
53	A-208	Building A - Building Sections	X	X
54	A-209	Building A - Interior Elevations 1		X
55	A-210	Building A - Interior Elevations 2		X
56	A-400	Main Electrical & Blower Building - Floor Plan		X
57	A-401	Main Electrical & Blower Building - Elevations & Sections		X
<b>Structural</b>				
58	S-001	General Structural Notes, Structural Abbreviations	X	X
59	S-002	Special Inspections And Structural Notes	X	X
60	S-003	Structural Material Notes	X	X
61	S-004	Structural Material Notes Continued	X	X
62	S-005	Structural Details - Concrete Joints	X	X
63	S-006	Structural Details - Concrete Reinforcing	X	X
64	S-007	Structural Details - Concrete Bases	X	X
65	S-008	Structural Details - Masonry Details 1	X	X
66	S-009	Structural Details - Masonry Details 2	X	X
67	S-010	Structural Details - Grating	X	X
68	S-011	Structural Details - Structural Steel	X	X
69	S-012	Structural Details - Railings	X	X
70	S-013	Structural Details - Typical		X
71	S-100	Site Retaining Wall Details	X	X
72	S-110	Influent Pump Station - Plan & Sections	X	X
73	S-111	Influent Pump Station - Transverse Section 1	X	X
74	S-112	Influent Pump Station - Transverse Section 2	X	X
75	S-113	Influent Pump Station - Transverse Sections & Details	X	X
76	S-200	Building A - Foundation Plan And Second Floor Framing Plan	X	X
77	S-201	Building A - Foundation Details	X	X
78	S-202	Building A - Framing Details	X	X
79	S-230	Raw Sewage Screening - Foundation & Grating Plans	X	X
80	S-231	Raw Sewage Screening - Sections 1	X	X
81	S-232	Raw Sewage Screening - Sections 2	X	X
82	S-233	Raw Sewage Screening - Sections 3	X	X
83	S-240	Grit Removal - Foundation Plans	X	X



**Sweet Home WWTP Improvements Project**  
**Scope of Work Exhibit 1**  
**Phase 1 Final Design Sheet List**

**Table 1-2. Anticipated Sheet List**

Sheet No.	Drawing No.	Drawing Title	60%	90%/Final
84	S-241	Grit Removal - Top Plan & Section	X	X
85	S-242	Grit Removal - Structural Section	X	X
86	S-243	Grit Removal - Inlet/Outlet Section	X	X
87	S-244	Grit Removal - Bypass Section	X	X
88	S-251	Dewatering - Foundation & Framing Plans	X	X
89	S-252	Dewatering - Sections & Details	X	X
90	S-310	Primary Clarifier - Lower Foundation Plans	X	X
91	S-311	Primary Clarifier - Upper Foundation Plan & Top Slab Plan	X	X
92	S-312	Primary Clarifier - Overall Section	X	X
93	S-313	Primary Clarifier - Longitudinal Section 1	X	X
94	S-314	Primary Clarifier - Longitudinal Section 2	X	X
95	S-315	Primary Clarifier - Transverse Section	X	X
96	S-316	Primary Influent Control Structure - Plan & Sections 1	X	X
97	S-317	Primary Influent Control Structure - Plan & Sections 2		X
98	S-318	Primary Effluent Control Structure - Plan & Sections 1	X	X
99	S-319	Primary Effluent Control Structure - Plan & Sections 2		X
100	S-320	Primary Scum Pump Station - Plan & Sections		X
101	S-330	Odor Control - Plan & Sections	X	X
102	S-400	Main Electrical & Blower Building - Foundation & Framing Plans		X
103	S-401	Main Electrical & Blower Building - Sections & Details		X
104	S-402	Generator Foundation Plan, Sections, & Details		X
<b>Mechanical</b>				
105	M-001	Mechanical Notes, Legends, Abbreviations I		X
106	M-002	Mechanical Details 1	X	X
107	M-003	Mechanical Details 2	X	X
108	M-004	Mechanical Details 3	X	X
109	M-005	Mechanical Details 4	X	X
110	M-006	Mechanical Details 5		X
111	M-007	Mechanical Details 6		X
112	M-110	Influent Pump Station - Isometric	X	X
113	M-111	Influent Pump Station - Plan & Sections	X	X
114	M-112	Influent Pump Station - Sections & Details 1	X	X
115	M-113	Influent Pump Station - Sections & Details 2	X	X
116	M-114	Influent Pump Station - Sections & Details 3	X	X
117	M-230	Raw Sewage Screening - Isometric	X	X

# Sweet Home WWTP Improvements Project

## Scope of Work Exhibit 1

### Phase 1 Final Design Sheet List

<b>Table 1-2. Anticipated Sheet List</b>				
Sheet No.	Drawing No.	Drawing Title	60%	90%/ Final
118	M-231	Raw Sewage Screening - Top Plan	X	X
119	M-232	Raw Sewage Screening - Bottom Plan	X	X
120	M-233	Raw Sewage Screening - Sections 1	X	X
121	M-234	Raw Sewage Screening - Sections 2	X	X
122	M-240	Grit Removal - Isometric	X	X
123	M-241	Grit Removal - Plan & Sections	X	X
124	M-242	Grit Removal - Sections & Details	X	X
125	M-250	Dewatering - Isometric	X	X
126	M-251	Dewatering - Plan	X	X
127	M-252	Dewatering - Section & Details 1	X	X
128	M-253	Dewatering - Section & Details 2	X	X
129	M-254	Dewatering - Section & Details 3	X	X
130	M-310	Primary Clarifier - Isometric	X	X
131	M-311	Primary Clarifier - Bottom Plan	X	X
132	M-312	Primary Clarifier - Top Plan	X	X
133	M-313	Primary Clarifier - Sections 1	X	X
134	M-314	Primary Clarifier - Pics Enlarged Plans & Sections	X	X
135	M-315	Primary Clarifier - Pecs Enlarged Plans & Sections	X	X
136	M-316	Primary Clarifier - Primary Scum Pump Station Enlarged Plans & Sections 3		X
137	M-317	Primary Clarifier - Details 1		X
138	M-318	Primary Clarifier - Details 2		X
139	M-319	Primary Clarifier - Details 3		X
140	M-331	Odor Control - Headworks Odor Control Plan & Sections		X
141	M-332	Odor Control - Primary Odor Control Plan & Sections		X
142	M-333	Odor Control - Details		X
<b>Plumbing</b>				
143	P-001	Plumbing Symbol List And General Notes	X	X
144	P-002	Plumbing Schedules	X	X
145	P-003	Plumbing Details	X	X
146	P-004	Plumbing Details	X	X
147	P-005	Gas Riser Diagram	X	X
148	P-200	Building A - Underground Plan	X	X
149	P-201	Building A - First Floor Plan	X	X
150	P-202	Building A - Second Floor Plan	X	X

# Sweet Home WWTP Improvements Project

## Scope of Work Exhibit 1

### Phase 1 Final Design Sheet List

<b>Table 1-2. Anticipated Sheet List</b>				
Sheet No.	Drawing No.	Drawing Title	60%	90%/ Final
151	P-203	Building A - Enlarged Plans	X	X
<b>HVAC</b>				
152	H-001	HVAC Symbol List And General Notes	X	X
153	H-002	HVAC Schedules 1	X	X
154	H-003	HVAC Schedules 2	X	X
155	H-004	HVAC Details	X	X
156	H-200	Building A - First Floor Plan	X	X
157	H-201	Building A - Second Floor Plan	X	X
158	H-400	Main Electrical & Blower Building - Floor Plan		X
<b>Building Electrical</b>				
159	BE-001	Building Electrical Symbol List And General Notes	X	X
160	BE-002	Building Electrical Lighting Control Matrix	X	X
161	BE-003	Building Electrical Details	X	X
162	BE-004	Building Electrical Schedules 1	X	X
163	BE-005	Building Electrical Schedules 2	X	X
164	BE-200	Building A - First Floor Lighting Plan	X	X
165	BE-201	Building A - Second Floor Lighting Plan	X	X
166	BE-202	Building A - First Floor Power Plan	X	X
167	BE-203	Building A - Second Floor Power Plan	X	X
168	BE-204	Building A - Laboratory Power Plan	X	X
169	BE-205	Building A - Electrical Single Line Diagrams	X	X
<b>Technology</b>				
170	T-001	Technology Symbol List And General Notes	X	X
171	T-200	Building A - First Floor Technology Plan	X	X
172	T-201	Building A - Second Floor Technology Plan	X	X
<b>Electrical</b>				
173	E-001	Electrical Abbreviations	X	X
174	E-002	Electrical Symbols	X	X
175	E-003	Electrical Details 1	X	X
176	E-004	Electrical Details 2	X	X
177	E-005	Electrical Details 3	X	X
178	E-006	Electrical Details 4	X	X
179	E-007	Electrical Details 5		X
180	E-010	Service Entrance One-Line Diagram	X	X
181	E-011	Mcc-1 One-Line Diagram	X	X

# Sweet Home WWTP Improvements Project

## Scope of Work Exhibit 1

### Phase 1 Final Design Sheet List

Table 1-2. Anticipated Sheet List				
Sheet No.	Drawing No.	Drawing Title	60%	90%/ Final
182	E-012	Mcc-2 One-Line Diagram	X	X
183	E-013	Mcc-3 One-Line Diagram	X	X
184	E-014	Mcc-4 One-Line Diagram	X	X
185	E-020	Power Conduit Schedule 1	X	X
186	E-021	Power Conduit Schedule 2		X
187	E-022	Control Conduit Schedule 1	X	X
188	E-023	Control Conduit Schedule 2		X
189	E-024	Mechanical & Luminaire Schedule	X	X
190	E-030	Panel Schedules 1	X	X
191	E-031	Panel Schedules 2	X	X
192	E-032	Panel Schedules 3	X	X
193	E-033	Panel Schedules 4	X	X
194	E-050	Service Entrance- Raceway Block Diagram	X	X
195	E-052	Influent Pump Station - Raceway Block Diagram	X	X
196	E-054	Raw Sewage Screens - Raceway Block Diagram	X	X
197	E-056	Grit Removal - Raceway Block Diagram	X	X
198	E-058	Solids Dewatering - Raceway Block Diagram	X	X
199	E-060	Odor Control - Raceway Block Diagram		X
200	E-062	Primary Clarifier - Raceway Block Diagram	X	X
201	E-101	Electrical Site Demolition Plan	X	X
202	E-102	Electrical Overall Site Plan	X	X
203	E-103	Electrical Hazardous Location Plan	X	X
204	E-104	Meb Main Electrical Room Floor Plan	X	X
205	E-105	Existing Electrical Building Demolition Floor Plan	X	X
206	E-106	Existing Electrical Building Electrical Floor Plan	X	X
207	E-110	Influent Pump Station - Overall Site Plan	X	X
208	E-111	Influent Pump Station - Electrical Plan & Section	X	X
209	E-112	Influent Pump Station - Pump Disconnect Panel & Stand Elevations	X	X
210	E-201	Building A - Power & Control Plan	X	X
211	E-202	Building A - Headworks Hazardous Location Plan	X	X
212	E-203	Building A - Lighting Plan	X	X
213	E-204	Building A - Electrical Room Enlarged Plan	X	X
214	E-231	Raw Sewage Screen - Electrical Plan	X	X
215	E-241	Grit Removal - Electrical Plan & Sections	X	X
216	E-251	Solids Dewatering - Electrical Plan	X	X

# Sweet Home WWTP Improvements Project

## Scope of Work Exhibit 1

### Phase 1 Final Design Sheet List

<b>Table 1-2. Anticipated Sheet List</b>				
Sheet No.	Drawing No.	Drawing Title	60%	90%/ Final
217	E-310	Primary Clarifier - Electrical Plan	X	X
218	E-311	Primary Clarifiers - Electircal Sections & Details	X	X
219	E-330	Odor Control - Electrical Plan & Sections		X
220	E-901	Influent Pump Station - Motor Schematics 1		X
221	E-902	Inflent Pump Station - Motor Schematics 2		X
222	E-903	Influent Pump Station - Pump Disconnect Panel Lcs 1		X
223	E-904	Influent Pump Station - Pump Disconnect Panel Lcs 2		X
224	E-905	Raw Sewage Screens Vfd - Motor Schematic	X	X
225	E-906	Raw Sewage Screens - Local Control Station		X
226	E-907	Screenings Wash Press - Motor Schematic	X	X
227	E-908	Screenings Wash Press - Local Control Station		X
228	E-909	Grit System - Motor Schematic	X	X
229	E-910	Grit System - Local Control Station		X
230	E-911	Dewatering Screw Press - Motor Schematic	X	X
231	E-912	Dewatering Conditioning Tank - Motor Schematic		X
232	E-913	Dewatering Conveyors - Motor Schematic	X	X
233	E-914	Dewatering - Local Control Station		X
234	E-915	Primary Clarifier Sludge Collectors - Motor Schematic	X	X
235	E-916	Primary Clarifier Scum Collectors - Motor Schematic	X	X
236	E-917	Primary Clarifier Sludge Pumps - Motor Schematic		X
237	E-918	Primary Clarifier Scum Pump - Motor Schematic	X	X
238	E-919	Primary Clarifiers - Local Control Stations 1		X
239	E-920	Primary Clarifiers - Local Control Stations 2		X
240	E-921	Odor Control Blowers - Motor Schematic		X
241	E-922	Odor Control Blowers - Local Control Station		X
242	E-923	Primary Scum Pump - Motor Schematic		X
<b>Instrumentation &amp; Control (I&amp;C)</b>				
243	IC-001	Instrumentation & Control Legends, Symbols, And Abbreviations 1		X
244	IC-002	Instrumentation & Control Legends, Symbols, And Abbreviations 2		X
245	IC-003	Overall Site OT Ethernet Communications Interconnect		X
246	IC-004	CP-100 OT Ethernet Communications Interconnect		X
247	IC-005	CP-200 OT Ethernet Communications Interconnect		X
248	IC-006	CP-300 OT Ethernet Communications Interconnect		X
249	IC-010	Main PLC OT Netwrok Panel - Front View		X
250	IC-011	Main PLC OT Netwrok Panel - Back View		X

# Sweet Home WWTP Improvements Project

## Scope of Work Exhibit 1

### Phase 1 Final Design Sheet List

Sheet No.	Drawing No.	Drawing Title	60%	90%/ Final
251	IC-012	Main PLC OT Network Panel - Bill Of Materials		X
252	IC-013	Main PLC OT Network Panel - Power Distribution Schematic		X
253	IC-014	Main PLC OT Network Panel - Point I/O Input Module Diagrams		X
254	IC-015	Main PLC OT Network Panel - Point I/O Output Module Diagrams		X
255	IC-020	Nip-100 Network Interface Panel Layout (For CP-100)		X
256	IC-021	Nip-200 Network Interface Panel Layout (For CP-200)		X
257	IC-022	Nip-300 Network Interface Panel Layout (For CP-300)		X
258	IC-100	CP-100 Elevation View		X
259	IC-101	CP-100 Terminal Strip Details 1		X
260	IC-102	CP-100 Terminal Strip Details 2		X
261	IC-103	CP-100 Power Distribution Schematic 1		X
262	IC-105	CP-100 PLC & Ups Wiring Diagram		X
263	IC-106	CP-100 Digital Inputs, Slot X		X
264	IC-107	CP-100 Digital Inputs, Slot X		X
265	IC-108	CP-100 Digital Outputs, Slot X		X
266	IC-109	CP-100 Analog Inputs, Slot X		X
267	IC-110	CP-100 Analog Inputs, Slot X		X
268	IC-111	CP-100 Analog Outputs, Slot X		X
269	IC-120	XXX Loop Diagram		X
270	IC-121	XXX Loop Diagram		X
271	IC-122	XXX Loop Diagram		X
272	IC-123	XXX Loop Diagram		X
273	IC-124	XXX Loop Diagram		X
274	IC-125	XXX Loop Diagram		X
275	IC-126	XXX Loop Diagram		X
276	IC-127	XXX Loop Diagram		X
277	IC-128	XXX Loop Diagram		X
278	IC-200	CP-200 Elevation View		X
279	IC-201	CP-200 Terminal Strip Details 1		X
280	IC-202	CP-200 Terminal Strip Details 2		X
281	IC-203	CP-200 Power Distribution Schematic 1		X
282	IC-205	CP-200 PLC & Ups Wiring Diagram		X
283	IC-206	CP-200 Digital Inputs, Slot X		X
284	IC-207	CP-200 Digital Inputs, Slot X		X
285	IC-208	CP-200 Digital Outputs, Slot X		X

# Sweet Home WWTP Improvements Project

## Scope of Work Exhibit 1

### Phase 1 Final Design Sheet List

**Table 1-2. Anticipated Sheet List**

Sheet No.	Drawing No.	Drawing Title	60%	90%/ Final
286	IC-209	CP-200 Analog Inputs, Slot X		X
287	IC-210	CP-200 Analog Inputs, Slot X		X
288	IC-211	CP-200 Analog Outputs, Slot X		X
289	IC-220	Area 200 Loop Diagram I		X
290	IC-221	Area 200 Loop Diagram Ii		X
291	IC-222	Area 200 Loop Diagram Iii		X
292	IC-223	Area 200 Loop Diagram Iv		X
293	IC-224	Area 200 Loop Diagram V		X
294	IC-225	Area 200 Loop Diagram Vi		X
295	IC-226	Area 200 Loop Diagram Vii		X
296	IC-227	Area 200 Loop Diagram Viii		X
297	IC-228	Area 200 Loop Diagram Ix		X
298	IC-300	CP-300 Elevation View		X
299	IC-301	CP-300 Terminal Strip Details 1		X
300	IC-302	CP-300 Terminal Strip Details 2		X
301	IC-303	CP-300 Power Distribution Schematic 1		X
302	IC-305	CP-300 PLC & Ups Wiring Diagram		X
303	IC-306	CP-300 Digital Inputs, Slot X		X
304	IC-307	CP-300 Digital Inputs, Slot X		X
305	IC-308	CP-300 Digital Outputs, Slot X		X
306	IC-309	CP-300 Analog Inputs, Slot X		X
307	IC-310	CP-300 Analog Inputs, Slot X		X
308	IC-311	CP-300 Analog Outputs, Slot X		X
309	IC-320	Area 300 Instrument Loop Diagram I		X
310	IC-321	Area 300 Instrument Loop Diagram Ii		X
311	IC-322	Area 300 Instrument Loop Diagram Iii		X
312	IC-323	Area 300 Instrument Loop Diagram Iv		X
313	IC-324	Area 300 Instrument Loop Diagram V		X
314	IC-325	Area 300 Instrument Loop Diagram VI		X
315	IC-326	Area 300 Instrument Loop Diagram VII		X
316	IC-327	Area 300 Instrument Loop Diagram VIII		X
317	IC-328	Area 300 Instrument Loop Diagram IX		X

# Sweet Home WWTP Improvements Project

## Scope of Work Exhibit 1

### Phase 1 Final Design Sheet List

<b>Table 1-2. Anticipated Sheet List</b>				
Sheet No.	Drawing No.	Drawing Title	60%	90%/ Final
<b>Process and Instrumentation Diagrams (P&amp;IDs)</b>				
318	I-001	P&ID Legends, Symbols And Abbreviations 1	X	X
319	I-002	P&ID Legends, Symbols And Abbreviations 2	X	X
320	I-110	P&ID - Influent Pump Station 1	X	X
321	I-111	P&ID - Influent Pump Station 2	X	X
322	I-231	P&ID - Raw Sewage Screens 1	X	X
323	I-232	P&ID - Raw Sewage Screens 2	X	X
324	I-233	P&ID - Screenings Conveyance & Processing	X	X
325	I-241	P&ID - Grit Removal Basin	X	X
326	I-242	P&ID - Grit Classifier	X	X
327	I-251	P&ID - Solids Dewatering 1	X	X
328	I-252	P&ID - Solids Dewatering 2	X	X
329	I-253	P&ID - Polymer Makedown	X	X
330	I-311	P&ID - Primary Clarifier No. 1	X	X
331	I-312	P&ID - Primary Clarifier No. 2	X	X
332	I-313	P&ID - Primary Clarifier No. 3	X	X
333	I-314	P&ID - Primary Effluent Distribution Structure	X	X
334	I-315	P&ID - Primary Sludge Pumps	X	X
335	I-316	P&ID - Primary Scum Pumps	X	X
336	I-331	P&ID - Odor Control	X	X



Exhibit 2

Phase 2 Sheet List

# Sweet Home WWTP Improvements Project

## Scope of Work Exhibit 2

### Phase 2 Preliminary Sheet List

Sheet List Title	Number of Sheets
General	8
Civil	24
Architectural	14
Structural	75
Mechanical	76
Plumbing	6
HVAC	6
Electrical	96
Process & Instrumentation Diagrams	25
Instrumentation & Control	42
<b>Total</b>	<b>372</b>

Sheet No.	Drawing No.	Drawing Title
<b>General</b>		
1	G-000	Cover Sheet
2	G-001	Drawing Index
3	G-002	General Notes
4	G-003	Symbols
5	G-004	Abbreviations
6	G-005	Design Criteria
7	G-006	Process Flow Diagram
8	G-007	Hydraulic Profile
<b>Civil</b>		
9	C-001	Civil Details 1
10	C-002	Civil Details 2
11	C-003	Civil Details 3
12	C-004	Civil Details 4
13	C-005	Civil Details 5
14	C-010	Erosion Control Notes
15	C-011	Erosion Control Plan
16	C-020	Existing Conditions Plan
17	C-021	Site Demolition Plan
18	C-022	Existing Utilities Plan

# Sweet Home WWTP Improvements Project

## Scope of Work Exhibit 2

### Phase 2 Preliminary Sheet List

Table 1-2. Anticipated Sheet List		
Sheet No.	Drawing No.	Drawing Title
19	C-023	Utility Demolition Plan
20	C-030	Overall Site Plan, Structure Coordinates, Staging and Access
21	C-031	Overall Grading, Drainage and Paving Plan
22	C-040	Yard Piping Plan
23	C-041	SD Profiles - 1
24	C-042	SD Profiles - 2
25	C-043	PECS PE Profiles
26	C-044	AB 1 & 2/AB 3 ML Profiles
27	C-045	AB 3 ML Profiles
28	C-046	SC60 SE Profiles
29	C-047	SC60 RAS/WAS Profiles
30	C-048	SC90 SE Profiles
31	C-049	SC90 RAS/WAS Profiles
32	C-050	Outfall Profiles
<b>Architectural</b>		
33	A-001	Architectural Legends and Code Information
34	A-002	Architectural Site Plan
35	A-003	Architectural Schedules
36	A-004	Architectural Details - Assemblies
37	A-005	Architectural Details - Window, Door, and Louver Details
38	A-006	Architectural Details - Misc Building Details
39	A-007	Architectural Details - Misc Building Details
40	A-008	Architectural Details - Misc Building Details
41	A-500	Tertiary Building Plans
42	A-501	Tertiary Building Elevations and Sections
43	A-550	Existing Electric Building Plans
44	A-551	Existing Electric Building Elevations and Sections
45	A-610	Solids Building Plans
46	A-611	Solids Building Elevations and Sections
<b>Structural</b>		
47	S-001	General Structural Notes, Structural Abbreviations
48	S-002	Special Inspections and Structural Notes
49	S-003	Structural Material Notes
50	S-004	Structural Material Notes Continued
51	S-005	Typical Concrete Joint Details

# Sweet Home WWTP Improvements Project

## Scope of Work Exhibit 2

### Phase 2 Preliminary Sheet List

Table 1-2. Anticipated Sheet List		
Sheet No.	Drawing No.	Drawing Title
52	S-006	Typical Concrete Reinforcing Details
53	S-007	Typical Concrete Base Details
54	S-008	Typical Masonry Details
55	S-009	Typical Masonry Details
56	S-010	Typical Grating Details
57	S-011	Typical Metal Details
58	S-012	Typical Railing Details
59	S-130	Recycle Drain Pump Station Foundation Plan
60	S-131	Recycle Drain Pump Station Top Plan
61	S-132	Recycle Drain Pump Station Sections
62	S-133	Recycle Drain Pump Station Sections & Details
63	S-410	Existing Aeration Basin 1 & 2 Foundation Plan
64	S-411	Existing Aeration Basin 1 & 2 Top Plan
65	S-412	Existing Aeration Basin 1 & 2 Sections
66	S-413	Existing Aeration Basin 1 & 2 Sections & Details
67	S-415	Aeration Basin 3 Foundation Plan
68	S-416	Aeration Basin 3 Top Slab Plan
69	S-417	Aeration Basin 3 Longitudinal Section
70	S-418	Aeration Basin 3 Transverse Sections
71	S-419	Aeration Basin 3 Inlet & Outlet Sections
72	S-430	MLCS Foundation & Top Slab Plans
73	S-431	MLCS Sections & Details
74	S-432	MLCS Sections & Details
75	S-440	SC 60 RAS Pump Station Foundation Plan
76	S-441	SC 60 RAS Pump Station Top Plan
77	S-442	SC 60 RAS Pump Station Sections & Details
78	S-443	SC 60 WAS Pump Station Foundation Plan
79	S-444	SC 60 WAS Pump Station Top Plan
80	S-445	SC 60 WAS Pump Station Sections & Details
81	S-450	SC 90 Foundation plan
82	S-451	SC 90 Top Plan
83	S-452	SC 90 Longitudinal Section
84	S-453	SC 90 Transverse Section
85	S-454	SC 90 Sections & Details
86	S-455	SC 90 RAS Pump Station Foundation Plan

# Sweet Home WWTP Improvements Project

## Scope of Work Exhibit 2

### Phase 2 Preliminary Sheet List

**Table 1-2. Anticipated Sheet List**

Sheet No.	Drawing No.	Drawing Title
87	S-456	SC 90 RAS Pump Station Top Plan
88	S-457	SC 90 RAS Pump Station Sections & Details
89	S-458	SC 90 WAS Pump Station Foundation Plan
90	S-459	SC 90 WAS Pump Station Top Plan
91	S-460	SC 90 WAS Pump Station Sections & Details
92	S-500	Tertiary Building Foundation Plan
93	S-501	Tertiary Building Roof Framing Plan
94	S-502	Tertiary Building Sections & Details
95	S-510	Tertiary Filters Foundation Plan
96	S-511	Tertiary Filters Top plan
97	S-512	Tertiary Filters section
98	S-513	Tertiary Filters Top Plan
99	S-520	UV Disinfection Foundation Plan
100	S-521	UV Disinfection Top Plan
101	S-522	UV Disinfection Sections & Details
102	S-530	UW Storage Structure Foundation Plan
103	S-531	UW Storage Structure Top plan
104	S-532	UW Storage Structure Sections & Details
105	S-600	Solids Building Foundation & Roof Framing Plans
106	S-601	Solids Building Section & Details
107	S-620	Odor Scrubber Building Foundation & Roof Framing Plans
108	S-621	Odor Scrubber Building Sections & Details
109	S-630	Solids Blend Tank Foundation & Top Plans
110	S-631	Solids Blend Tank Sections & Details
111	S-640	Primary Digester - Lower Foundation Plan
112	S-641	Primary Digester - Upper Foundation Plan
113	S-642	Primary Digester - Top plan
114	S-643	Primary Digester – Longitudinal Section
115	S-644	Primary Digester – Transverse Section
116	S-645	Primary Digester – Sections & Details
117	S-650	Secondary Digester - Foundation plan
118	S-651	Secondary Digester top plan
119	S-652	Secondary Digester - Longitudinal Section
120	S-653	Secondary Digester – Transverse Section
121	S-654	Secondary Digester – Section & Details

# Sweet Home WWTP Improvements Project

## Scope of Work Exhibit 2

### Phase 2 Preliminary Sheet List

Table 1-2. Anticipated Sheet List		
Sheet No.	Drawing No.	Drawing Title
Mechanical		
122	M-001	Mechanical Details 1
123	M-002	Mechanical Details 2
124	M-003	Mechanical Details 3
125	M-004	Mechanical Details 4
126	M-130	Recycle Drain Pump Station Isometric View
127	M-131	Recycle Drain Pump Station Plan
128	M-132	Recycle Drain Pump Station Section & Details
129	M-133	Recycle Drain Pump Station Section & Details
130	M-410	Aeration Basin (AB) 1 & 2 Isometric View
131	M-411	AB 1 & 2 Top Plan
132	M-412	AB 1 & 2 Bottom Plan
133	M-413	AB 1 & 2 Sections
134	M-414	AB 1 & 2 Details
135	M-415	AB 3 Isometric View
136	M-416	AB 3 Top Plan
137	M-417	AB 3 Bottom Plan
138	M-418	AB 3 Sections
139	M-419	AB 3 Details
140	M-430	MLCS Isometric
141	M-431	MLCS Top and Bottom Plans
142	M-432	MLCS Sections
143	M-433	MLCS Details
144	M-440	SC 60 RAS Pump Station Isometric View
145	M-441	SC 60 RAS Pump Station Plan
146	M-442	SC 60 RAS Pump Station Section & Details
147	M-443	SC 60 WAS Pump Station Isometric View
148	M-444	SC 60 WAS Pump Station Plan
149	M-445	SC 60 WAS Pump Station Section & Details
150	M-450	SC 90 Isometric View
151	M-451	SC 90 Plan
152	M-452	SC 90 Sections & Details
153	M-454	SC 90 RAS Pump Station Isometric View
154	M-455	SC 90 RAS Pump Station Plan
155	M-456	SC 90 RAS Pump Station Sections & Details

# Sweet Home WWTP Improvements Project

## Scope of Work Exhibit 2

### Phase 2 Preliminary Sheet List

**Table 1-2. Anticipated Sheet List**

Sheet No.	Drawing No.	Drawing Title
156	M-457	SC 90 WAS Pump Station Isometric View
157	M-458	SC 90 WAS Pump Station Plan
158	M-459	SC 90 WAS Pump Station Sections & Details
159	M-510	Tertiary Filters Isometric View
160	M-511	Tertiary Filters Top Plan
161	M-512	Tertiary Filters Bottom Plan
162	M-513	Tertiary Filters Sections & Details
163	M-514	Tertiary Filters Sections & Details
164	M-520	UV Disinfection-Modifications to Existing CCB
165	M-521	UV Disinfection Isometric View
166	M-522	UV Disinfection Plan
167	M-523	UV Disinfection Section & Details
168	M-524	UV Disinfection Section & Details
169	M-530	Utility Water Wet Well Isometric View
170	M-531	Utility Water Wet Well Plan
171	M-532	Utility Water Wet Well Section and Details
172	M-540	Effluent Flow Meter & Outfall Isometric View
173	M-541	Effluent Flow Meter & Outfall Plan
174	M-600	Solids Blend Tank Plan
175	M-601	Solids Blend Tank Sections
176	M-602	Solids Blend Tank Details
177	M-610	Solids Building Overall Plan
178	M-611	Solids Thickening Area Partial Plan
179	M-612	Solids Thickening Sections
180	M-613	Solids Thickening Details
181	M-614	Digester Feed Pumping Area Partial Plan
182	M-615	Digester Feed Pumping Sections and Details
183	M-616	Digester Recirculation & Heating Area Partial Plan
184	M-617	Digester Recirculation & Heating Area Sections
185	M-618	Digester Recirculation & Heating Area Details
186	M-619	Digested Sludge Pumping Area Partial Plan
187	M-620	Digested Sludge Pumping Sections and Details
188	M-621	Solids Building Odor Control Plan
189	M-622	Solids Building Odor Control Sections & Details
190	M-630	Primary Digester Top Plan

# Sweet Home WWTP Improvements Project

## Scope of Work Exhibit 2

### Phase 2 Preliminary Sheet List

<b>Table 1-2. Anticipated Sheet List</b>		
<b>Sheet No.</b>	<b>Drawing No.</b>	<b>Drawing Title</b>
191	M-631	Primary Digester Bottom Plan
192	M-632	Primary Digester Sections
193	M-633	Primary Digester Details I
194	M-634	Primary Digester Details II
195	M-640	Digested Sludge Storage Tank Plan
196	M-641	Digested Sludge Storage Tank Sections
197	M-642	Digested Sludge Storage Tank Details
<b>Plumbing</b>		
198	P-001	Plumbing Symbol and General Notes
199	P-002	Plumbing Schedules
200	P-003	Plumbing Details
201	P-004	Plumbing Details
202	P-500	Tertiary Building Plumbing Plan and Details
203	P-610	Solids Building Plumbing Plan and Details
<b>HVAC</b>		
204	H-001	Symbol List and General Notes
205	H-002	Schedules
206	H-003	Details
207	H-500	Floor Plan - Tertiary Building
208	H-550	Floor Plan - Existing Electrical Building
209	H-610	Floor Plan - Solids Building
<b>Electrical</b>		
210	E-001	Electrical Abbreviations
211	E-002	Electrical Symbol Legend
212	E-003	Electrical Details 1
213	E-004	Electrical Details 2
214	E-005	Electrical Details 3
215	E-006	Electrical Details 4
216	E-010	Service Entrance One-Line Diagram
217	E-012	MCC-2 One-Line Diagram
218	E-013	MCC-3 One-Line Diagram
219	E-014	MCC-4 One-Line Diagram
220	E-020	Power Conduit Schedule 1
221	E-021	Power Conduit Schedule 2
222	E-022	Control Conduit Schedule 1



# Sweet Home WWTP Improvements Project

## Scope of Work Exhibit 2

### Phase 2 Preliminary Sheet List

Table 1-2. Anticipated Sheet List		
Sheet No.	Drawing No.	Drawing Title
223	E-023	Control Conduit Schedule 2
224	E-024	Mechanical & Luminaire Schedule
225	E-030	Panel Schedules 1
226	E-031	Panel Schedules 2
227	E-032	Panel Schedules 3
228	E-033	Panel Schedules 4
229	E-050	Aeration Blowers - Raceway Block Diagram
230	E-051	Aeration Basins - Raceway Block Diagram
231	E-052	Secondary Clarifier SC60 - Raceway Block Diagram
232	E-053	Secondary Clarifier SC90 - Raceway Block Diagram
233	E-054	WAS/RAS Pump Station - Raceway Block Diagram
234	E-055	Tertiary Building - Raceway Block Diagram
235	E-056	Tertiary Filters - Raceway Block Diagram
236	E-057	UV Disinfection - Raceway Block Diagram
237	E-058	Utility Water System - Raceway Block Diagram
238	E-059	Outfall - Raceway Block Diagram
239	E-060	Solids Building - Raceway Block Diagram
240	E-061	Solids Building Odor Control - Raceway Block Diagram
241	E-062	Sludge Blend Tank - Raceway Block Diagram
242	E-063	Primary Digester - Raceway Block Diagram
243	E-064	Digested Sludge Storage Tank - Raceway Block Diagram
244	E-100	Electrical Site Demolition Plan
245	E-101	Electrical Overall Site Plan
246	E-102	Electrical Hazardous Location Plan
247	E-130	Recycle Drain Pump Station - Electrical Plan & Sections
248	E-131	Recycle Drain Pump Station - Details
249	E-400	Blower Building - Electrical Floor Plan
250	E-410	Aeration Basins - Enlarged Site Plan
251	E-411	Aeration Basins - Lighting & Receptacle Plan
252	E-412	Aeration Basins 1&2 - Electrical Plan & Section
253	E-413	Aeration Basins 1&2 - Electrical Details
254	E-414	Aeration Basins 3 - Electrical Plan & Section
255	E-440	Secondary Clarifiers - Enlarged Site Plan
256	E-441	Secondary Clarifier SC60 - Electrical Plan & Sections
257	E-442	RAS & WAS Pump Station - Electrical Plan & Sections

# Sweet Home WWTP Improvements Project

## Scope of Work Exhibit 2

### Phase 2 Preliminary Sheet List

Sheet No.	Drawing No.	Drawing Title
258	E-443	RAS & WAS Pump Station - Electrical Details
259	E-450	Secondary Clarifier SC90 - Electrical Plan & Sections
260	E-500	Tertiary Building - Power & Control Plan
261	E-501	Tertiary Building - Lighting & Receptacle Plan
262	E-502	Tertiary Building - Electrical Room Floor Plan
263	E-510	Tertiary Filters - Electrical Plan & Sections
264	E-511	Tertiary Filters - Electrical Details
265	E-520	UV Disinfection - Electrical Plan & Sections
266	E-521	UV Disinfection - Electrical Details
267	E-530	Utility Water - Electrical Plan & Sections
268	E-531	Utility Water - Electrical Details
269	E-540	Outfall - Electrical Plan & Sections
270	E-541	Outfall - Electrical Details
271	E-600	Solids Building - Power & Control Plan
272	E-601	Solids Building - Lighting & Receptacle Plan
273	E-602	Solids Building - Electrical Room Floor Plan
274	E-610	Boiler & Hot Water- Electrical Sections & Details
275	E-611	Boiler & Hot Water - Electrical Plan & Sections
276	E-620	Solids Building Odor Control - Electrical Plan & Sections
277	E-621	Solids Building Odor Control - Electrical Details
278	E-630	Sludge Blend Tank - Electrical Plan & Sections
279	E-631	Sludge Blend Tank - Electrical Details
280	E-640	Primary Digester - Overall Site Plan
281	E-641	Primary Digester - Electrical Plan & Sections
282	E-642	Primary Digester - Solids Heating & Flare Electrical Plan
283	E-643	Primary Digester - Electrical Details
284	E-650	Digested Sludge Storage Tank - Electrical Plan & Sections
285	E-651	Digested Sludge Storage Tank - Electrical Details
286	E-930	Aeration Blower VFD - Motor Schematic
287	E-931	Aeration Blower Swing-N Mixer - Motor Schematic
288	E-932	Aeration Blower IMLR Pump VFD - Motor Schematic
289	E-933	Grit System - Motor Schematic
290	E-934	Secondary Clarifier Drive - Motor Schematic
291	E-935	WAS Pump VFD - Motor Schematic
292	E-936	RAS Pump VFD - Motor Schematic

# Sweet Home WWTP Improvements Project

## Scope of Work Exhibit 2

### Phase 2 Preliminary Sheet List

Table 1-2. Anticipated Sheet List		
Sheet No.	Drawing No.	Drawing Title
293	E-937	Sludge Blend Tank Mix Pump - Motor Schematic
294	E-938	Thickening Feed Pump - Motor Schematic
295	E-939	Digester Feed Pump - Motor Schematic
296	E-940	Digester Recirculation Pump - Motor Schematic
297	E-941	Digester Drain Pump - Motor Schematic
298	E-942	Digester Mixer - Motor Schematic
299	E-943	Digester Tank Mixer - Motor Schematic
300	E-944	Digester Feed Pump VFD - Motor Schematic
301	E-945	Filter - Motor Schematic
302	E-946	Filter Pump - Motor Schematic
303	E-947	Filter Backwash Pump - Motor Schematic
304	E-948	Utility Water Pump - Motor Schematic
305	E-949	Air Compressor - Motor Schematic
Instrumentation and Controls (I&C)		
306	IC-001	Instrumentation & Control Abbreviations
307	IC-002	Instrumentation & Control Symbol Legend
308	IC-200	CP-200 Elevation View
309	IC-201	CP-200 Terminal Strip Details 1
310	IC-202	CP-200 Terminal Strip Details 2
311	IC-203	CP-200 Power Distribution Schematic 1
312	IC-205	CP-200 PLC & UPS Wiring Diagram
313	IC-206	CP-200 Digital Inputs, Slot X
314	IC-207	CP-200 Digital Inputs, Slot X
315	IC-208	CP-200 Digital Outputs, Slot X
316	IC-209	CP-200 Analog Inputs, Slot X
317	IC-210	CP-200 Analog Inputs, Slot X
318	IC-211	CP-200 Analog Outputs, Slot X
319	IC-220	Area 200 Loop Diagram I
320	IC-221	Area 200 Loop Diagram II
321	IC-222	Area 200 Loop Diagram III
322	IC-223	Area 200 Loop Diagram IV
323	IC-224	Area 200 Loop Diagram V
324	IC-225	Area 200 Loop Diagram VI
325	IC-226	Area 200 Loop Diagram VII
326	IC-227	Area 200 Loop Diagram VIII

# Sweet Home WWTP Improvements Project

## Scope of Work Exhibit 2

### Phase 2 Preliminary Sheet List

<b>Table 1-2. Anticipated Sheet List</b>		
Sheet No.	Drawing No.	Drawing Title
327	IC-228	Area 200 Loop Diagram IX
328	IC-400	CP-400 Elevation View
329	IC-401	CP-400 Terminal Strip Details 1
330	IC-402	CP-400 Terminal Strip Details 2
331	IC-403	CP-400 Power Distribution Schematic 1
332	IC-405	CP-400 PLC & UPS Wiring Diagram
333	IC-406	CP-400 Digital Inputs, Slot X
334	IC-407	CP-400 Digital Inputs, Slot X
335	IC-408	CP-400 Digital Outputs, Slot X
336	IC-409	CP-400 Analog Inputs, Slot X
337	IC-410	CP-400 Analog Inputs, Slot X
338	IC-411	CP-400 Analog Outputs, Slot X
339	IC-420	Area 400 Instrument Loop Diagram I
340	IC-421	Area 400 Instrument Loop Diagram II
341	IC-422	Area 400 Instrument Loop Diagram III
342	IC-423	Area 400 Instrument Loop Diagram IV
343	IC-424	Area 400 Instrument Loop Diagram V
344	IC-425	Area 400 Instrument Loop Diagram VI
345	IC-426	Area 400 Instrument Loop Diagram VII
346	IC-427	Area 400 Instrument Loop Diagram VIII
347	IC-428	Area 400 Instrument Loop Diagram IX
<b>Process and Instrumentation Diagrams (P&amp;IDs)</b>		
348	I-001	P&ID Legends, Abbreviations, Symbols I
349	I-002	P&ID Legends, Abbreviations, Symbols II
350	I-130	P&ID - Recycle/Drain Pump Station
351	I-400	P&ID - Blower Room and Aeration Header
352	I-410	P&ID - Aeration Basin 1
353	I-411	P&ID - Aeration Basin 2
354	I-412	P&ID - Aeration Basin 3
355	I-430	P&ID - Mixed Liquor Control Structure (MLCS)
356	I-440	P&ID - 60' Secondary Clarifier (SC60)
357	I-441	P&ID - SC60 RAS/WAS/SCUM/DRAIN
358	I-450	P&ID - 90' Secondary Clarifier (SC90)
359	I-451	P&ID - SC90 RAS/WAS/SCUM/DRAIN
360	I-540	P&ID - Tertiary Filtration

# Sweet Home WWTP Improvements Project

## Scope of Work Exhibit 2

### Phase 2 Preliminary Sheet List

Sheet No.	Drawing No.	Drawing Title
361	I-520	P&ID - UV Disinfection
362	I-530	P&ID - Utility Water System
363	I-550	P&ID - Effluent Flow Metering & Outfall
364	I-600	P&ID - Sludge Blend Tank and Mixing
365	I-610	P&ID - Solids Thickening and Digester Feed Pumping
366	I-611	P&ID - Solids Recirculation Pumps
367	I-612	P&ID - Solids Boiler and Heat Exchanger
368	I-613	P&ID - Digested Sludge Transfer Pumping
369	I-614	P&ID - Waste Gas Burner
370	I-615	P&ID - Solids Building Odor Control
371	I-630	P&ID - Primary Digester and Digester Mixing
372	I-640	P&ID - Digested Sludge Storage Tank and Mixing

Attachment B

Budget Spreadsheet

**ATTACHMENT B  
PROJECT BUDGET  
SWEET HOME WWTP IMPROVEMENTS PROJECT**

Item #	Item Description	Qty	Unit	Material	Installation	Subcontractor	Permit	Design	Construction	Operation	Maintenance	Travel	Other	Subtotal	Contingency	Grand Total	Notes
1.01	Consulting Fee	4	Month														
1.02	Design Fee	20	Month														
1.03	Construction Fee	20	Month														
1.04	Operation Fee	20	Month														
1.05	Maintenance Fee	20	Month														
1.06	Travel Fee	20	Month														
1.07	Other Fee	20	Month														
1.08	Subtotal																
1.09	Contingency																
1.10	Grand Total																
2.01	Design Fee	20	Month														
2.02	Construction Fee	20	Month														
2.03	Operation Fee	20	Month														
2.04	Maintenance Fee	20	Month														
2.05	Travel Fee	20	Month														
2.06	Other Fee	20	Month														
2.07	Subtotal																
2.08	Contingency																
2.09	Grand Total																
3.01	Design Fee	20	Month														
3.02	Construction Fee	20	Month														
3.03	Operation Fee	20	Month														
3.04	Maintenance Fee	20	Month														
3.05	Travel Fee	20	Month														
3.06	Other Fee	20	Month														
3.07	Subtotal																
3.08	Contingency																
3.09	Grand Total																
4.01	Design Fee	20	Month														
4.02	Construction Fee	20	Month														
4.03	Operation Fee	20	Month														
4.04	Maintenance Fee	20	Month														
4.05	Travel Fee	20	Month														
4.06	Other Fee	20	Month														
4.07	Subtotal																
4.08	Contingency																
4.09	Grand Total																
5.01	Design Fee	20	Month														
5.02	Construction Fee	20	Month														
5.03	Operation Fee	20	Month														
5.04	Maintenance Fee	20	Month														
5.05	Travel Fee	20	Month														
5.06	Other Fee	20	Month														
5.07	Subtotal																
5.08	Contingency																
5.09	Grand Total																



Attachment C

Schedule



**Attachment C**  
**Project Schedule**  
**Sweet Home WWTP Improvements Project**

