



## CITY OF MORRO BAY PUBLIC WORKS ADVISORY BOARD AGENDA

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*The City of Morro Bay provides essential public services and infrastructure to maintain a safe, clean and healthy place for residents and visitors to live, work and play.*

### REGULAR MEETING Wednesday, January 19, 2022 – 5:30 PM Held Via Teleconference

ESTABLISH QUORUM AND CALL TO ORDER  
MOMENT OF SILENCE  
PLEDGE OF ALLEGIANCE  
ANNOUNCEMENTS

#### PUBLIC COMMENT

*Pursuant to Executive Order N-08-21, issued by Governor Newsom on June 11, 2021, this Meeting will be conducted telephonically through Zoom and broadcast live on Cable Channel 20 and streamed on the City website (click [here](#) to view). Please be advised that pursuant to the Executive Order, and to ensure the health and safety of the public by limiting human contact that could spread the COVID-19 virus, the Veterans' Hall will not be open for the meeting.*

#### Public Participation:

*In order to prevent and mitigate the effects of the COVID-19 pandemic, and limit potential spread within the City of Morro Bay, in accordance with Executive Order N-08-21, the City will not make available a physical location from which members of the public may observe the meeting and offer public comment. Remote public participation is allowed in the following ways:*

- *Community members are encouraged to submit agenda correspondence in advance of the meeting via email to the Public Works' office at [PWAB@morrobayca.gov](mailto:PWAB@morrobayca.gov) prior to the meeting.*
- *Members of the public may watch the meeting either on cable Channel 20 or as streamed on the City [website](#).*
- *Alternatively, members of the public may watch the meeting and speak on a specific agenda item by logging in to the Zoom webinar at the beginning of the meeting using the information provided below. Please use the "raise hand" feature to indicate your desire to provide public comment. Each speaker will be allowed three minutes to provide input.*

*Please click the link below to join the webinar:*

- <https://us02web.zoom.us/j/82722747698?pwd=aWZpTzcwTHlRTk9xaTlmWVNWRWFUQT09> Password: 135692
- *Or Telephone Attendee: 1 (408) 638-0968 or 1 (669) 900 6833 or 1 (346) 248 7799; Webinar ID: 827 2274 7698; Password: 135692; Press \* 9 to "Raise Hand" for Public Comment*

A. CONSENT AGENDA

A-1 APPROVAL OF MINUTES FOR THE SEPTEMBER 15, 2021, PUBLIC WORKS ADVISORY BOARD REGULAR MEETING

**Recommendation:** Approve as submitted.

A-2 APPROVAL OF MINUTES FOR THE OCTOBER 20, 2021, JOINT PUBLIC WORKS ADVISORY BOARD / RECREATION AND PARKS COMMISSION SPECIAL MEETING

**Recommendation:** Approve as submitted.

A-2 DIRECTOR'S UPDATE

**Recommendation:** Information item, no action needed.

B. BUSINESS ITEMS

B-1 AMENDMENT NO. 3 TO CONTRACT WITH WATER WORKS ENGINEERS, LLC FOR ENGINEERING DESIGN SERVICES DURING CONSTRUCTION FOR THE WATER RECLAMATION FACILITY (WRF) LIFT STATION AND OFFSITE PIPELINES; AND AMENDMENT NO. 2 TO CONTRACT WITH ANVIL BUILDERS, INC., FOR CONSTRUCTION SERVICES FOR THE WRF LIFT STATION AND OFFSITE PIPELINES

**RECOMMENDATION:** Receive presentation regarding the following amendments approved by the City Council at its January 11, 2022 meeting:

1. Amendment No. 3 to the agreement with Water Works Engineers, LLC (WWE) for Engineering Design Services during Construction and optional tasks for the WRF Lift Station and Offsite Pipelines for the amount of \$132,239 with an additional \$84,857 for optional additional services for a grand total of \$217,096; and
2. Amendment No. 2 to the agreement with Anvil Builders, Inc., (Anvil) for construction of the WRF Conveyance Facilities for the amount of \$587,502.00.

B-2 OVERVIEW OF ONEWATER PLAN AND STATUS UPDATE (PRESENTATION)

**RECOMMENDATION:** Receive presentation.

B-3 REVIEW OF COLEMAN PARK IMPROVEMENTS AND CONCEPTUAL PLAN

**RECOMMENDATION:** Review the Coleman Park Conceptual Plan and provide input.

C. FUTURE AGENDA ITEMS  
Pavement Management

D. ADJOURNMENT

The next regular meeting of the Public Works Advisory Board meeting will be held on February 16, 2022.

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This agenda is subject to amendment up to 24 hours prior to the date and time set for the meeting. Please refer to the agenda posted at the Public Works Department, 955 Shasta Avenue, for any revisions or call the department at 772-6263 for further information.

Materials related to an item on this Agenda submitted to the Public Works Advisory Board after distribution of the Agenda Packet are available for public inspection upon request by calling the Public Works Office at 805-772-6263.

In compliance with the Americans with Disabilities Act, if you need special assistance to participate in this meeting, please contact the Public Works Department at (805) 772-6263 at least 24 hours prior to the meeting to ensure reasonable arrangements can be made to provide accessibility to this meeting.

*The Public Works Advisory Board conducted this meeting in accordance with Section 3 of California Governor Newsom’s Executive Order N-29-20 issued on March 17, 2020 in response to the present State of Emergency in existence due to the threat of COVID-19. This meeting was held via teleconference for all participants.*

- |          |                   |                                |
|----------|-------------------|--------------------------------|
| PRESENT: | Doug Rogers       | Chair                          |
|          | Laurie Beale      | Vice Chair                     |
|          | John Erwin        | Board Member                   |
|          | Steven Francis    | Board Member                   |
|          | Ian Gaffney       | Board Member                   |
|          | Robert Nava       | Board Member                   |
| STAFF:   | Scott Collins     | City Manager                   |
|          | Greg Kwolek       | Public Works Director          |
|          | Rob Livick        | City Engineer                  |
|          | Janeen Burlingame | Management Analyst             |
|          | Damaris Hanson    | Environmental Programs Manager |

**ESTABLISH QUORUM, CALL TO ORDER**

The meeting was called to order at 5:30 P.M. with all Board members in attendance.

**MOMENT OF SILENCE AND PLEDGE OF ALLEGIANCE**

**BOARDMEMBERS ANNOUNCEMENTS**

<https://youtu.be/SCrMqydSQ-M?t=102>

Doug Rogers mentioned the letter from Ric Deschler submitted to the Board, asking the Board to make sure they see it.

**PUBLIC COMMENT**

<https://youtu.be/SCrMqydSQ-M?t=166>

The public comment period was opened, and seeing none, the public comment period was closed.

**CONSENT AGENDA**

<https://youtu.be/SCrMqydSQ-M?t=180>

Unless an item is pulled for separate action by the City Council, the following actions are approved without discussion. The public will also be provided an opportunity to comment on consent agenda items.

The public comment period was opened, and seeing none, the public comment period was closed.

**A-1 APPROVAL OF MINUTES FOR THE AUGUST 18, 2021 PUBLIC WORKS ADVISORY BOARD REGULAR MEETING**

MOTION: John Erwin moved to approve Items A-1 and A-2. The motion was seconded by Laurie Beale and passed 6-0 unanimously.

**A-2 DIRECTOR’S REPORT**

Discussion, comments, and questions amongst Board members and staff.

MOTION: John Erwin moved to approve A-2. The motion was seconded by Laurie Beale and passed 6-0 unanimously.

## BUSINESS ITEMS

### B-1 REVIEW OF PUBLIC PARKING MANAGEMENT STUDY BY WALKER CONSULTANTS <https://youtu.be/SCrMqydSQ-M?t=745>

Scott Collins presented the staff report.

Discussion, comments, and questions amongst Board members and staff.

The public comment period was opened, seeing none, the public comment period was closed.

### B-2 SB 1383 SHORT-LIVED CLIMATE POLLUTANTS: ORGANICS WASTE REDUCTIONS <https://youtu.be/SCrMqydSQ-M?t=3970>

Greg Kwolek introduced Patti Toews, Interim Integrated Waste Management Authority Executive Director, who gave a presentation on SB 1383.

The public comment period was opened, and seeing none, the public comment period was closed.

Discussion, comments, and questions amongst Board members and staff.

### B-3 REVIEW OF URBAN WATER MANAGEMENT PLAN PRESENTATION FROM WATER SYSTEMS CONSULTING <https://youtu.be/SCrMqydSQ-M?t=5716>

Greg Kwolek introduced Dan Heimel from WSC who gave a presentation on the Urban Water Management Plan update.

Discussion, comments, and questions amongst Board members and staff.

The public comment period was opened, and seeing none, the public comment period was closed.

## FUTURE AGENDA ITEMS

<https://youtu.be/SCrMqydSQ-M?t=9793>

Doug Rogers announced there would be no meetings in November and December 2021 per the Public Works Advisory Board By-Laws and the next meeting will a special joint meeting held with the Recreation & Parks Commission on October 20, 2021.

## ADJOURNMENT

The meeting adjourned at 8:14 P.M.

Recorded by:

Janeen Burlingame  
Management Analyst

MINUTES - PUBLIC WORKS ADVISORY BOARD (PWAB), RECREATION & PARKS COMMISSION (R&P)  
SPECIAL JOINT MEETING – OCTOBER 20, 2022  
PUBLIC WORKS DEPARTMENT – 3:30 PM

- |                  |  |   |
|------------------|--|---|
| PWAB<br>PRESENT: | Doug Rogers<br>John Erwin<br>Steven Francis<br>Ian Gaffney   | Chair<br>Board Member<br>Board Member<br>Board Member   |
| PWAB<br>ABSENT:  | Laurie Beale<br>Robert Nava  | Vice Chair<br>Board Member  |
| R&P<br>PRESENT:  | Drew Sidaris<br>Robert Swain<br>Melissa Davis  | Commissioner<br>Commissioner<br>Commissioner  |
| R&P<br>ABSENT:   | Kevin Carroll<br>Mike Espino   | Chair<br>Vice Chair   |
| STAFF:           | Greg Kwolek<br>Janeen Burlingame<br>Pam Newman<br>Kirk Carmichael<br>Steve Khan<br>Anthony Severy<br>Michelle Stokes | Public Works Director<br>Management Analyst<br>Assistant Engineer<br>Recreation Division Coordinator<br>Cannon<br>Cannon<br>RA Architects & Engineers |

ESTABLISH QUORUM AND CALL TO ORDER

The meeting was called to order at 3:30 PM. A quorum was present for the Public Works Advisory Board and Recreation & Parks Commission.

PUBLIC COMMENT

The public comment period was opened, and seeing none, the public comment period was closed.

I. ANNUAL PARKS TOUR

The Board Members, Commissioners and Staff toured and discussed the following City facilities and parks: City Park for the Transit Hub Improvements project, Cloisters Park for update on maintenance/updating landscape islands and drainage issues with the pond, and Franklin Riley Park for update on park sign installation.

ADJOURNMENT

The meeting adjourned at 5:03 PM.

Recorded by:

Janeen Burlingame  
Management Analyst

# Morro Bay Public Works Director's Report December 2021

AGENDA ITEM: A-3 \_\_\_\_\_  
DATE: January 19, 2022 \_\_\_\_\_  
ACTION: \_\_\_\_\_

## Utilities Division

*Staff installs solar power at pump.* The dead-end of Errol Street is home to a critical water distribution valve that serves North Morro Bay residents by supplying water the Elena Tanks and the Blanca and Nutmeg pumps. This former well site has gradually been reduced in size and today only houses a control valve. To reduce energy costs and enhance power grid independence, PG&E service was removed and replaced by an "off-grid" solar powered control station. This project was designed, built, and installed completely by Utilities staff. The updated control station offers remote control, notifications, and historical data logging. The Utilities Division plans to expand controls to allow for remote flow and pressure monitoring.



## Maintenance & Operations

The Maintenance Division and City completed installation of 941 LED light tubes, replacing the fluorescent light bulbs in eight City facilities, including the Community Center, Vets Hall, Teen Center, Shasta, City Hall, City Hall Annex, Police Station, and Corp Yard. Because LED bulbs use approximately half the energy and last 5-10 times longer than fluorescent bulbs, the City will save money on energy and maintenance costs in the long term. The project was made possible through a PG&E rebate program that allowed the City to purchase the LED bulbs at a reduced upfront costs.



## Solid Waste & Recycling

SB 1383, the most aggressive waste reduction law to be adopted in California for the past 30 years, took effect with the New Year. The new regulations establish statewide greenhouse gas emission reduction goals focusing on reducing the amount of organic material disposed of in landfills as well as recovering edible food for human consumption that is currently disposed of in landfills. The regulations apply to all persons and entities that generate organic materials, such as food scraps and plant trimmings. For residents, it means disposing of food scraps in a different container for collection while for commercial entities and non-local entities, such as schools, it means subscribing to organics collection services or an edible food recovery program, unless the entity qualifies for a waiver. An Education Packet with more information will be going out to all generators in the coming weeks. Contact the SLO Integrated Waste Management Authority at (805) 782-8530 or visit their website, [www.iwma.com](http://www.iwma.com), to learn more.



## Engineering

*Recruitments:* Late last year, Public Works opened a recruitment for an Engineering Tech and a City Engineer. Both positions together will have the effect of adding capacity to plan and implement capital projects as well as increase responsivity to the development review process. These positions are currently vacant, and the Department hopes to add two new engineering employees to the team by the end of February.



AGENDA NO: B-1

MEETING DATE: January 19, 2022

# Staff Report

**TO:** Public Works Advisory Board **DATE:** January 13, 2022

**FROM:** Greg Kwolek – Public Works Director  
Kyle Rhorer – Water Reclamation Facility (WRF) Program Manager

**SUBJECT:** Amendment No. 3 to Contract with Water Works Engineers, LLC for Engineering Design Services During Construction for the Water Reclamation Facility (WRF) Lift Station and Offsite Pipelines; and Amendment No. 2 to Contract with Anvil Builders, Inc., for Construction Services for the WRF Lift Station and Offsite Pipelines

## RECOMMENDATION

Staff recommends the Public Works Advisory Board (PWAB) receive a presentation regarding the following amendments approved by the City Council at its January 11, 2022 meeting:

1. Amendment No. 3 to the agreement with Water Works Engineers, LLC (WWE) for Engineering Design Services during Construction and optional tasks for the Water Reclamation Facility (WRF) Lift Station and Offsite Pipelines for the amount of \$132,239 with an additional \$84,857 for optional additional services for a grand total of \$217,096; and
2. Amendment No. 2 to the agreement with Anvil Builders, Inc., (Anvil) for construction of the WRF Conveyance Facilities for the amount of \$587,502.00.

## FISCAL IMPACT

### **Water Works Engineers, LLC**

The total cost for Amendment No. 3 is \$132,239 with \$84,857 of optional services for a grand total of \$217,096. The total not to exceed amount for the WWE agreement will increase from \$2,214,311 to \$2,431,407.

### **Anvil**

Anvil's new total contract amount will be \$32,755,662.

PCO #	DESCRIPTION	Amount
9	SoCal Gas Delays and Disruptions	\$ 43,017.00
22	6-Inch Waterline Relocation at Pump Station A	\$ 20,147.00
23	Miscellaneous Unforeseen Utility Work	\$ 27,198.00
27	MTBM Delays and Disruptions - Claim Resolution	\$ 111,161.00
28	Backup Generator Regulation Mandates – Procurements	\$ 301,703.00
34	Bike Path Jack & Bore Concrete Debris Obstruction	\$ 84,276.00
	<b>TOTAL</b>	<b>\$ 587,502.00</b>

Prepared By: AC Dept Review: GK

The value of Amendment No. 3 for Waterworks and Amendment No. 2 for Anvil will be covered by the Conveyance Facilities budget contingency for the Project budget as outlined in the FY 21/22 Q1 quarterly report. As a result of these two amendments, the remaining project contingency is \$17,028. As a result, these amendments will not result in an increase to the WRF project budget or the rates paid by the City's water or wastewater customers.

## **DISCUSSION**

### **Waterworks Engineers, LLC**

The City of Morro Bay (City) and WWE entered into an agreement on November 15, 2017, for consulting services related to the WRF Lift Station and Offsite Pipelines. That component of the WRF project is currently under construction. The original scope of work for Engineering Services During Construction included the following:

#### **Construction Phase Assistance:**

- Pre-Construction Conference Attendance (assume 1 meeting).
- Complete all submittal reviews (assume qty. 80).
- Request for Information (RFI) and Request for Clarification (RFC) review, documentation and tracking (assume qty. 30).
- Change order request review, documentation, and tracking (assume qty. 6).
- Attend weekly jobsite meetings (assume 12 months at 2x per month = qty. 24).
- Assist in observing operational test of lift station (assume 3 site visits, one each for planning, initial, and final operational test).
- Final inspection, report and project completion recommendation letter (assume 3 site visits, one each for development, progress review, and final punch list acceptance).
- Record drawings (assume redlines provided by Contractor and Inspector, assume 80 hours for pump station and 40 hours for pipelines).

The additional services requested as part of the proposed amendment are based on specific additional design services requested by the Program Manager, Construction Manager, and the City and also include the engineer's best assessment of the remaining level of effort necessary to provide ongoing construction phase engineering support for the WRF Lift Stations and Offsite Pipelines through June 2022. The additional work for Engineering Services During Construction are listed below:

- Complete design modifications to accommodate updated California Air Resources Control Board (CARB) for the construction and operation of emergency generator permits for both conveyance facilities pump station A and B.
- Provide support by reviewing and responding to microtunnel contractor delay claims.
- Develop design modification to bike path joint trench pipe alignment to utilize 70-ft city easement.
- Assist with hydraulic assessment and remaining useful life evaluation of existing WRF outlet to outlet pipe air-relief structure.
- Design field requested electrical and controls modifications.
- Oversee and facilitate electrical and instrumentation acceptance inspection and testing.
- Provide additional engineering support services during construction and start-up (including potential phased start-up of improvement).

The following additional engineering services are listed as optional tasks and will only be provided by Engineer if deemed necessary by Program Manager and the City. No work will commence on these activities without specific written approval.

- Conduct site visit and “desktop” condition assessment of existing City extraction wells.
- Design a new WRF outlet air relief structure to accommodate updated hydraulics and extend design life.
- Update existing City water treatment plant discharge line to extend to air relief structure and discharge to the air-gap structure.
- Design temporary realignment of joint trench piping at Morro Creek crossing pipe alignment to support expedited project start-up.

A more detailed description of the listed additional engineering services during construction is provided below:

#### New Regulations for Emergency Backup Generators

Engineer will update construction drawing(s) to address comments from the CARB permit to construct and operate revise and approval process. The need for this work results from new Best Available Control Technology (BACT) requirements implemented after design, bid, and commencement of construction.

#### Microtunnel Delay Claim Evaluation

Engineer supported construction manager in review of delay claims made by Contractor related to alleged change in geotechnical conditions and obstruction in the path of the microtunnel machine. Services included virtual meetings, engineering analysis, field visits, and response to contractor correspondence. Activities for this task are complete; however, associated costs are for compensation for out-of-scope services provided by WWE to support the program management team.

#### Bike Path Joint Trench Realignment

Engineer will update construction drawing(s) to accommodate revisions to joint trench alignment as a result of newly acquired City right-of-way along the bike path to expedite construction and support enhancements for long term access for operation and maintenance of installed pipe alignment along the bike path between Main Street and Morro Creek.

#### Existing Air Relief Structure Enhancements Review and Base Re-Design

Engineer will support Program Manager in evaluating hydraulic capacity of existing air relief structure to handle combined flow of new WRF discharge and City RO water treatment plant discharge. The Central Coast Regional Water Quality Control Board requested the City evaluate connecting the existing water treatment RO discharge line to the existing air relief structure and ocean outfall facility. Adding the additional flow into the air relief structure in combination with the WRF peak flows required a physical and hydraulic evaluation of the air-relief structure. Program Manager will be responsible to provide hydraulic design parameters for outfall pipe as they relate to impact on hydraulic capacity analysis of Air Relief Structure. Engineer will assist Program Manager in evaluation of remaining useful life of air relief structure and potential cost to benefits of replacing that structure to support updated hydraulics and long-term access, operations and maintenance. If City selects to move forward with use of existing air relief structure, then engineer will design of extension of water treatment plant discharge line to existing air relief structure and/or to Pump Station A with air gap connection. (See optional tasks).

#### Electrical Instrumentation Design Modifications During Construction.

Engineer will support Construction Manager with requests to revise, modify and/or update electrical and instrumentation design. Items include potential relocation of fiber pull boxes, elimination of PLC at bridge crossing, pump sump termination panel revision, review of CFD acceptance test information, etc.

### Electrical Instrumentation Acceptance Inspection and Testing

Engineer's electrical and instrumentation subconsultant, Frisch Engineering, will provide ten (10) days of as needed on-site witness testing and inspection of project electrical and instrumentation work.

### Additional Engineering Support Services

Engineer will provide the following additional engineering support during construction through the anticipated construction completion date of June 2022.

- Continue utilization of project SharePoint site for tracking and documentation of RFI's, submittals, etc.
- Complete submittal reviews (assume qty. 55 in addition to the 245 reviewed to date).
- Request for Information (RFI) and Request for Clarification (RFC) review, documentation and tracking (assume qty. 25 in addition to the 107 addressed to date).
- Attend WRF Program Meeting and Weekly Project Meeting - virtually (assume 2 additional months – May & June 2022 - at 2 meetings x 4x per month/meeting = 16 qty, in addition to those currently scoped through April 2022.)

### Morro Creek Crossing Temporary Pipe Realignment (Optional Task)

Engineer will update construction drawing(s) to accommodate temporary joint trench pipe alignment across Morro Creek to expedite construction and support phased start-up project improvements to coincide with the WRF start-up.

### "Desktop" Evaluation of Existing City Potable Water Extraction Wells (Optional Task)

Engineer will support Program Manager in completing a "desktop" evaluation of the existing City potable water extraction wells. This task will contribute to evaluating the City's existing groundwater well facilities that will be used to extract injected purified water into the Morro groundwater basin for indirect potable reuse. Results of this evaluation may be used in the final recycled water facilities design scope of work. Engineer will complete the following services related to this task:

- Site Visit by process mechanical and electrical engineer to document field condition of equipment (to be led by City maintenance staff with working knowledge of operations and maintenance history).
- Participate in review meeting with City staff to discuss anecdotal and logged operations and maintenance history (intent is for City staff to provide any an all-institutional knowledge about the wells and direct Engineer to specific conditions, reports, data, etc. that are germane to the analysis).
- Review all information provided by Client:
  - As built / record drawings of existing extraction wells against field conditions and equipment.
  - Maintenance history and known equipment replacement(s) and/or refurbishment records.
  - Existing documentation provided by client related to wells, including previously completed condition assessment reports and documentation.
  - Operating parameters and historical data.
- Review all data and develop "remaining useful design life" estimate for all major equipment.
- Develop repair, rehabilitation and/or replacement (RRR) upgrades for all major equipment.
- Estimate Cost of RRR Upgrades (planning level +50% contingency level of detail).
- Present Prioritization of RRR Upgrades.
- Identify additional condition assessment activities recommended to refine and enhance analysis

#### City Water Treatment RO Plan Discharge Connection to Brine Line (Optional Task)

Engineer will support Program Manager in evaluating options for connecting existing City RO Water Treatment Plant discharge line to new Air Relief Structure brine line per request from the Central Coast Regional Water Quality Control Board as a future requirement for the City. Engineer will provide as needed support to review hydraulic data (pump curves, mechanical layout, pipe alignment and material, etc.) and calculations to confirm connection at new Air Relief structure is feasible. If new air relief structure is deemed a cost benefit to the City, engineer will design realignment of Water Treatment Plant Discharge line to include the following drawings:

- New plan and profile drawing to proposed location (05-PP-01).
- Miscellaneous mechanical details to accommodate air gap into new structure.

#### Existing Air Relief Structure Enhancements Review and Design (Optional Task)

As a result of the physical and hydraulic assessment of the City's air-relief structure (see above task) and if new air relief structure is deemed a cost benefit to the City, Engineer will design new structure and connection of WRF brine line and potentially City RO line to it consisting of the following drawings:

- New plan and profile drawing to proposed location.
- Miscellaneous mechanical details to accommodate air gap into new structure.

#### **Anvil Builders, Inc.**

City and Anvil entered into an agreement as of November 10, 2020, for construction of the WRF conveyance facilities (the "Contract"). Amendment No. 2 consists of six PCO that were negotiated between Anvil and the construction management team.

#### PCO No. 9 - SoCal Gas Delays and Disruptions

The project's joint trench, containing multiple pipelines, parallels an existing 16" diameter SoCal Gas high pressure gas main for nearly the entire alignment along Quintana Road. SoCal Gas requires a representative to be on site during all digging activities as well as other work activities occurring within 10 ft of the high pressure gas main (i.e. that could potentially damage or otherwise impact the main). There have been several occurrences where the SoCal Gas representative did not show up for scheduled assignments, which prevented Anvil from performing contract work and/or progressing the joint trench. In these cases, Anvil's entire crew was forced to stand-by and wait for the SoCal Gas representative to arrive. Anvil was negatively impacted on the following days: 5/3/21 for 2 hours, 5/17/21 for 2.5 hours, 5/18/21 for 3 hours, 6/3/21 for 2 hours, 6/17/21 for 2.5 hours for 2 different crews, 8/10/21 for 4 hours. PCO No. 9 provides a resolution to contractor's notice of impacts.

#### PCO No. 22 - 6-Inch Waterline Relocation at Pump Station A

New Pump Station A is located on City property at City's existing corporation yard on Atascadero Road. As part of the site preparation and demolition work at Pump Station A, an unknown 6" Waterline was discovered and needed to be relocated to construct the pump station. The extra work included potholing and locating the unknown utility, trenching and installation of new by-pass piping, pressure testing and disinfection of the relocated waterline, backfill and other site work. PCO No. 22 is a differing site condition change order.

#### PCO No. 23 - Miscellaneous Unforeseen Utility Work

During the project work to date, the below noted miscellaneous unforeseen minor utility work was required for contract work to proceed. The following items are acknowledged as unforeseen conditions and as such warrant reimbursement of verified extra costs: (1) potholing unmarked utility

at Pump Station A on 5/3/21, (2) emergency work to recover trench caving due to adjacent utilities from Sta 71+75 to Sta 71+85 on 6/13/21, (3) excavating around unmarked 4" (asbestos) Waterline at Sta 146+00 on 7/8/21, (4) Anvil crew standby time during potholing of incorrectly marked telephone conduit on 8/5/21, (5) unknown and unmarked Sanitary Sewer crossing at Sta 88+50, line was struck and repaired on 8/6/21, (6) potholing unknown and unmarked Sanitary Sewer lines on 8/9/21, and (7) unknown and unmarked Sanitary Sewer crossing at Sta 90+50, line was struck and repaired on 8/23/21. PCO No. 23 is a differing site condition change order.

#### PCO No. 27 - MTBM Delays and Disruptions

Anvil and their Microtunnel Boring Machine (MTBM) subcontractor, Vadnais Trenchless Services (Vadnais) encountered several unknown utilities, potential obstructions, and differing soil conditions along the MTBM alignment below the Morro Bay Roundabout, including complete equipment stoppages at approximately Sta 98+50 and Sta 98+65. Anvil's subcontractor (Vadnais) claimed delay and equipment standby time for these equipment stoppages that lasted over 8 weeks. During the 8 weeks of work stoppage, Anvil excavated and shored two separate 23-foot deep emergency recovery shafts to clear the apparent obstructions from in front of the MTBM cutting head. However, no actual obstruction was found, located, or confirmed during the recovery shaft excavations. Subsequently, the MTBM casing pipe installation was completed without further incidents. Anvil and Vadnais provided notifications of potential costs under PCO #14 and PCO #27 in excessive \$500,000 for the Vadnais equipment downtime, Vadnais loss of crew efficiencies, and for the cost of the two recovery shafts by Anvil. City project management team initially denied the claim for stoppages at Sta 98+50 and Sta 98+65, as no obstruction was found. City does not dispute the other costs related to unknown utilities noted herein. After several meetings between City, Carollo, Anvil, and Vadnais, a claim settlement was reached in the amount of \$111,161, wherein all other costs and impacts associated with both PCO #14 and PCO No. 27, are waived or otherwise agreed upon for the final lump sum amount noted herein. PCO No. 27 is a differing site condition change order and provides a resolution to contractor's notice of impacts.

#### PCO No. 28 – California Air Resources Control Board Regulation Changes

On 9/24/21, City received a Notice of Incomplete Applications from CARB, pursuant to the Pump Station A emergency generator and the Pump Station B emergency generator. The original design of both generators were in compliance with CARB requirements at the time of Bid Opening in 2020. However, in late 2020, CARB rules were revised causing the two generators to now need retrofitted emissions reduction components to attain CARB compliance and approval. CARB is now also requiring Health Risk Assessments (HRAs) for both pump station sites which Carollo is undertaking via specialty subconsultant. This change order encompasses the below noted initial known costs for emissions reduction components, however it is acknowledged there will be a subsequent change order for additional structural, mechanical, electrical, and sitework revisions necessary to implement the changes. This change order includes costs for the following assumed necessary procurement items: At Pump Station A add a Diesel Particulate Filter (DPF); and at Pump Station B add the DPF, plus Selective Catalytic Reduction (SCR) and Diesel Oxidation Catalysts (DOC) technologies. PCO No. 28 is a regulatory agency requirement change order.

#### PCO No. 34 - Bike Path Jack & Bore Concrete Debris Obstruction

On 11/11/21, about 3 pm, Anvil and their jack & bore subcontractor (Pacific Boring) encountered a concrete obstruction in the path of the 60" casing pipe. Anvil and Pacific Boring were immediately instructed to suspend the jack & bore mechanical operation and hand excavate to investigate and confirm the size and extent of the concrete obstruction. For the following 6 consecutive days (including Saturday 11/13/21 and Sunday 11/14/21), Anvil and Pacific Boring worked 8 to 10 hour shifts to hand excavate and jack hammer out the concrete obstruction, while simultaneously advancing the casing pipe about 20 ft using the hydraulic jacking equipment. On 11/18/21, the

obstruction was cleared, and Pacific Boring resumed normal jack & bore operations, finishing the casing installation the same day. Note the obstruction appears to be an old Caltrans culvert structure from the original CA Route 1 highway. Also note the jack & bore work through jurisdictional wetlands needed to proceed without delay, working through the weekend, in order to meet a California Department of Fish and Wildlife (CDFW) mandate for the tunnel to be completed by 11/19/21. PCO No. 34 is a differing site condition change order.

### **CONCLUSION**

The contract amendments for WWE and Anvil have been thoroughly reviewed and refined by the project management team and City staff, and were approved the City Council at its January 11, 2022 meeting. With the addition of these contract modifications, the WRF conveyance facilities project will continue to meet the timing and regulatory agency requirements of the entire WRF project.

### **ATTACHMENTS**

1. Amendment No. 3 to the agreement with Water Works Engineers, LLC for Engineering Design Services for the Water Reclamation Facility (WRF) Lift Station and Offsite Pipelines.
2. Amendment No. 2 and CCO No. 2 execution form and description of change document.

CITY OF MORRO BAY

AMENDMENT NO. 3 TO THE AGREEMENT  
FOR CONSULTANT SERVICES  
BETWEEN THE CITY OF MORRO BAY  
AND WATER WORKS ENGINEERS, LLC

This Amendment No. 3 is entered by and between the City of Morro Bay, a municipal corporation (“City”) and Water Works Engineers, LLC, an Arizona limited liability company (“Consultant”).

**RECITALS**

WHEREAS, City and Consultant entered into an agreement, as of November 15, 2017, for consulting services related to the Water Reclamation Facility (the “Project”) Lift Station and Offsite Pipelines, which was approved by the City Council for a not to exceed amount of \$1,353,574 (the “Agreement”).

WHEREAS, the Parties amended the Agreement, as of August 27, 2019, for additional services and an increase in compensation of not to exceed \$691,822.00 (Amendment No. 1);

WHEREAS, the Parties amended the Agreement, as of September 22, 2021, for additional services and an increase in compensation of not to exceed \$168,915.00 (Amendment No. 2);

WHEREAS, the Agreement and Amendment No. 1 and No. 2 are referred to collectively as the "Amended Agreement;”

WHEREAS, the Parties again agree to amend the Amended Agreement to provide for additional engineering services during construction, which said work requires an expansion of the tasks to be provided by Consultant pursuant to the Amended Agreement, as hereby amended;

WHEREAS, Consultant has specific knowledge and experience to provide technical oversight needed to accomplish necessary tasks required to meet the City Council's goals for the Project, and

WHEREAS, due to the expansion of tasks to be provided, the compensation payable pursuant to the Amended Agreement must be increased.

NOW THEREFORE, City and Consultant mutually agree to amend the Amended Agreement as follows:

1. The additional services to be provided by Consultant, pursuant to the Amended Agreement, as hereby amended, shall include Task 8 of the Scope, as set forth in Exhibit A, attached hereto and incorporated herein by this reference (the "Additional Work"). In addition, as part of the Additional Work, but if, and only if, requested, in writing, by the Project Manager and

Public Works Director, Consultant shall also provide the services noted in Exhibit A as Optional (the "Optional Work"),

2. The compensation to be paid for the Additional Work: (i) shall be paid in accordance with the amounts and hourly rates set forth in Exhibit A, and the process established by the Amended Agreement on a time and materials basis and (ii) shall not exceed \$217,096.00, for a total not to exceed amount of \$2,431,407.00 for the Amended Agreement, as hereby amended; provided, that the Optional Work shall not exceed \$84,857.00.

3. Except as expressly stated herein, all terms and conditions in the Amended Agreement shall remain in full force and effect.

4. The effective date of this Amendment No. 3 shall be deemed to be the date upon which the Additional Work was satisfactorily commenced.

IN WITNESS WHEREOF, the parties have caused this Amendment No. 3 to be executed by their duly authorized representatives as of the day first written above.

CITY OF MORRO BAY

CONSULTANT

By: \_\_\_\_\_  
Scott Collins,  
City Manager

By: \_\_\_\_\_  
\_\_\_\_\_,  
Its \_\_\_\_\_

Attest:

\_\_\_\_\_  
Dana Swanson, City Clerk

Approved As To Form:

\_\_\_\_\_  
Chris Neumeyer, City Attorney

**City of Morro Bay (CITY or CLIENT)  
Consultant Services Agreement with  
Water Works Engineers (CONSULTANT, ENGINEER, Water Works, or WWE)**

**Scope of Engineering Services for the Water Reclamation Facility (WRF) Lift Station and Offsite Pipelines  
AMENDMENT 3 (December 31<sup>st</sup>, 2022)**

**AMENDMENT SUMMARY**

ENGINEER is currently providing Engineering Services for the City of Morro Bay Water Reclamation Facility (WRF) Lift Station and Offsite Pipelines Project (Project). ENGINEER and CLIENT identified additional Engineering Services required to:

- complete design modifications to accommodate updated air pollution control board requirements for emergency generators permits to construct and operate;
- review and respond to microtunnel contractor delay claims;
- develop design modifications to bike path joint trench pipe alignment to utilize 70-ft city easement;
- assist with hydraulic assessment and remaining useful life evaluation of existing WRF outlet to outlet pipe air-relief structure;
- update existing city water treatment plant discharge line to extend to air relief structure and discharge to the structure with an air gap;
- design electrical and controls field requested modifications;
- oversee and facilitate electrical and instrumentation acceptance inspection and testing; and
- provide additional engineering support services during construction and start-up (including potential phased start-up of improvements).

The following additional engineering assistance was requested by the CLIENT as optional tasks and will only be provided if deemed necessary by Program Manager. No work will commence on these activities without specific written approval.

- Design temporary realignment of joint trench piping at Morro Creek crossing pipe alignment to support expedited project start-up;
- Conduct site visit and “desktop” condition assessment of existing city extraction wells;
- Support to connect City’s water treatment RO plant discharge to WRF discharge brine line; and
- Design new WRF outlet air relief to accommodate updated hydraulics and extend design life.

The additional services quantified herein are based on specific additional design services requested by CLIENT’s Representative (WRF Program Manager and Project Construction Manager) and ENGINEER’s assessment of the remaining level of effort necessary to provide ongoing construction phase engineering support for both Lift Station and Forcemain construction through June 2022. The following generally describes the additional services required:

## Scope of Engineering Services for the Water Reclamation Facility (WRF) Lift Station and Offsite Pipelines AMENDMENT 3

### Task 8: Engineering Services during Construction (ESDCs)

ENGINEER will provide the following additional Engineering Services During Construction for the project.

#### Air Pollution Control Board (APCB) Requirements for Emergency Generators

ENGINEER will update construction drawing(s) to address comments from the Air Pollution Control Board permit to construct and operate review and approval process. These are resultant from new best available control technology (BACT) requirements implemented by the APCD after design, bid and commencement of construction. ENGINEER will provide engineering support and make updates to the following drawings:

- 10-S-3 PS-A Generator Plan
- 10-S-4 PS-A Generator Sections
- 20-S-5 PS-B Generator Plan
- Misc details and electrical to accommodate revisions

Deliverables shall include:

- ✓ 95% Design Submittal for review and comment (PDF)
- ✓ Final Submittal based on review comments provided to ENGINEER (PDF)

#### Microtunnel Delay Claim Evaluation

ENGINEER will support Construction Manager in review of delay claims made by Contractor related to alleged change in geotechnical conditions and obstruction in path microtunnel machine. Services included virtual meetings, engineering analysis, field visit, response to Contractor correspondence.

#### Bike Path Joint Trench Realignment

ENGINEER will update construction drawing(s) to accommodate revisions to joint trench alignment to expedite construction and support enhancements to long term access for operation and maintenance of installed pipe alignment. ENGINEER will provide engineering support and make updates to the following drawings:

- 05-PP-7
- 05-PP-8
- 05-PP-9
- 05-PP-10
- 05-PP-11

Deliverables shall include:

- ✓ 95% Design Submittal for review and comment (PDF)
- ✓ Final Submittal based on review comments provided to ENGINEER (PDF)

#### Existing Air Relief Structure Enhancements Review and Base Re-Design

ENGINEER will support Program Manager in evaluating hydraulic capacity of existing air relief structure to handle combined flow of new WRF discharge and City RO water treatment plant. Program Manager will be responsible to provide hydraulic design parameters for outfall pipe as they relate to impact on hydraulic capacity analysis of Air Relief Structure. ENGINEER will assist Program Manager in evaluation of remaining useful life of air relief structure and potential cost to benefits of replacing that structure to support updated hydraulics and long-term access, operations and maintenance. If City selects to move forward with use of existing air relief structure, ENGINEER will design of extension of water treatment plant discharge line to existing air relief structure and/or to Pump Station A with air gap connection. Design will include the following drawings:

- Updated plan and profile drawing to proposed air relief box location (revise 05-PP-1)
- Updated plan and profile drawing to proposed PS a location (revise 05-PP-2 or 46)
- Misc mechanical and electrical details to accommodate redesign

Deliverables shall include:

- ✓ 95% Design Submittal for review and comment (PDF)
- ✓ Final Submittal based on review comments provided to ENGINEER (PDF)

**Scope of Engineering Services for the Water Reclamation Facility (WRF) Lift Station and Offsite Pipelines  
AMENDMENT 3**

**Electrical and Instrumentation Design Modifications**

ENGINEER will support Construction Manager with requests to revise, modify and/or update electrical and instrumentation design. Items include potential relocation of fiber pull boxes, elimination of PLC at bridge crossing, pump sump termination panel revision, review of VFD acceptance test information, etc.

**Electrical and Instrumentation Acceptance Inspection and Testing**

ENGINEER's electrical and instrumentation subconsultant, Frisch Engineering, will provide ten (10) days of as needed on-site Witness Testing and Inspection of project electrical and instrumentation work.

**Additional Engineering Support Services**

ENGINEER will provide the following additional engineering support during construction through the anticipated construction completion date of June 2022.

- Continue utilization of project SharePoint site for tracking and documentation of RFI's, submittals, etc.
- Complete submittal reviews (assume qty. 55 in addition to the 245 reviewed to date)
- Request for Information (RFI) and Request for Clarification (RFC) review, documentation and tracking (assume qty. 25 in addition to the 107 addressed to date)
- Attend WRF Program Meeting and Weekly Project Meeting - virtually (assume 2 additional months - May & June 2022 - at 2 meetings x 4x per month/meeting = 16 qty, in addition to those currently scoped through April 2022.)

Deliverables shall include:

- ✓ Submittal responses submitted electronically (PDF) via project SharePoint site
- ✓ RFI responses submitted electronically (PDF) via project SharePoint site

**Scope of Engineering Services for the Water Reclamation Facility (WRF) Lift Station and Offsite Pipelines  
AMENDMENT 3**

**OPTIONAL SERVICES**

Water Works will provide the following option tasks only upon written approval from CLIENT to commence work.

**Morro Creek Crossing Temporary Pipe Realignment**

ENGINEER will update construction drawing(s) to accommodate temporary joint trench pipe alignment to expedite construction and support phased start-up of project improvements to coincide with WRF start-up. ENGINEER will provide engineering support and make updates to the following drawings:

- 05-PP-6
- 05-PP-7
- Misc mechanical details (ARV, thrust restraint, valves, etc.) to accommodate temporary pipe

Deliverables shall include:

- ✓ 95% Design Submittal for review and comment (PDF)
- ✓ Final Submittal based on review comments provided to ENGINEER (PDF)

**“Desktop” Evaluation of Existing City Potable Water Extraction Wells**

ENGINEER will support Program Manager in completing a “desktop” evaluation of the existing City potable water extraction wells. ENGINEER will complete the following services related to this task:

- Site Visit by process mechanical and electrical engineer to document field condition of equipment (to be led by City maintenance staff with working knowledge of operations and maintenance history)
- Participate in review meeting with City staff to discuss anecdotal and logged operations and maintenance history (intent is for City staff to provide any all-institutional knowledge about the wells and direct ENGINEER to specific conditions, reports, data, etc. that are germane to the analysis)
- Review all information provided by Client;
  - As built / record drawings of existing extraction wells against field conditions and equipment
  - Maintenance history and known equipment replacement(s) and/or refurbishment records
  - Existing documentation provided by client related to wells, including previously completed condition assessment reports and documentation
  - Operating parameters and historical data
- Review all data and develop “remaining useful design life” estimate for all major equipment
- Develop repair, rehabilitation and/or replacement (RRR) upgrades for all major equipment
- Estimate Cost of RRR Upgrades (planning level +50% contingency level of detail)
- Present Prioritization of RRR Upgrades
- Identify additional condition assessment activities recommended to refine and enhance analysis

Deliverables shall include:

- ✓ Draft “Desktop” Condition Assessment Technical Memorandum for review and comment (PDF)
- ✓ Final TM Submittal based on review comments provided to ENGINEER (PDF)

**City Water Treatment RO Plan Discharge Connection to Brine Line (Optional Task)**

ENGINEER will support Program Manager in evaluating options for connecting existing City RO Water Treatment Plan discharge line to new Air Relief Structure brine line. ENGINEER will provide as-needed support to review hydraulic data (pump curves, mechanical layout, pipe alignment and material, etc.) and calculations to confirm connection at new Air Relief structure is feasible. . If new air relief structure is deemed a cost benefit to the City, ENGINEER will design realignment of Water Treatment Plant Discharge line to include the following drawings:

- New plan and profile drawing to proposed location (revise 05-PP-1)
- Misc mechanical details to accommodate air gap into new structure.

Deliverables shall include:

- 95% Design Submittal for review and comment (PDF)
- Final Submittal based on review comments provided to ENGINEER (PDF)



**Scope of Engineering Services for the Water Reclamation Facility (WRF) Lift Station and Offsite Pipelines  
AMENDMENT 3**

**PROPOSED COMPENSATION**

Water Works Engineers proposes to complete the additional services described herein on a Time and Expense basis not to exceed \$132,239 for Base Additional Services plus an additional \$84,857 for Optional Additional Services without written consent from CLIENT and invoiced in accordance with our Hourly Billing Rates table below, bringing the total approved project budget to \$2,431,407.

The following summarizes the current approved contract amount, the increase in fee associated with the requested Amendment 3 services, and the revised total contract amount (by Task):

Task	Title	Currently Approved	Amend 3	Revised Total
1	Project Management	\$102,285	\$-	\$102,285
2	Site Alternatives Evaluation	\$106,236	\$-	\$106,236
3	Easement Acquisition Support	\$56,678	\$-	\$56,678
4	Survey, Geotechnical Investigation, and Potholing	\$528,946	\$-	\$528,946
5	Concept Design Report	\$159,806	\$-	\$159,806
6	Construction Documents and Specifications	\$827,714	\$-	\$827,714
7	Permitting Support	\$81,051	\$-	\$81,051
8	Engineering and Services during Construction – <b>Base</b>	\$351,595	\$132,239	\$483,834
8	Engineering and Services during Construction - <b>Optional</b>		\$84,857	\$84,857
<b>Total</b>		<b>\$2,214,311</b>	<b>\$217,096</b>	<b>\$2,431,407</b>

\*A detailed fee basis estimate work plan for the additional services is provided on the following page for reference.

Classification	Title	Hourly Rate
AA	Administrative	\$96
E1	Staff Engineer	\$119
E2	Associate Engineer	\$146
E3	Project / Structural Engineer	\$165
E4	Senior Project Engineer / Manager	\$191
E5	Principal Engineer	\$221
I1	Field Inspector	\$129
I2	Senior Inspector	\$144
I3	Supervising Inspector	\$160
T1	CADD Tech 1	\$81
T2	CADD Tech 2	\$109
T3	CADD Tech 3	\$133

**Notes:**

1. A markup of 10% will be applied to all project related Direct Costs and Expenses.
2. An additional premium of 25% will be added to the above rates for Expert Witness and Testimony Services.
3. Rate effective through December 31, 2017. A 3% increase will be added for any services performed in each year thereafter.

**Water Works Engineers Fee Estimate**

Client City of Morro Bay  
 Project WRF List Station and Offsite Pipelines  
 Prepared by Mike Fisher  
 Date 12/31/2021  
 AMENDMENT 3

Hours and Fee

		Additional Service														Optional Tasks								
		Amend 3 Task 1		Amend 3 Task 2		Amend 3 Task 3		Amend 3 Task 4		Amend 3 Task 5		Amend 3 Task 6		Amend 3 Task 7		Amend 3 Opt 1		Amend 3 Opt 2		Amend 3 Opt 3		Amend 3 Opt 4		
Year		2022		2022		2022		2022		2022		2022		2022		2022		2022		2022		2022		
		APCB Requirements for Emergency Generators		Microtunnel Delay Claim Evaluation		Bike Path Joint Trench Realignment		Existing Air Relief Structure Enhancements Review & Base Redesign		Electrical and Instrumentation Design Modifications		Electrical and Instrumentation Acceptance Inspection and Testing		Additional Engineering Support Services		Morro Creek Crossing Temporary Pipe Realignment		City Water Treatment RO Plan Discharge Connection to Brine Line		"Desktop" Evaluation of Existing City Potable Water Extraction Wells		Existing Air Relief Structure Enhancements Design		
WWE Project Team		hrs	fee	hrs	fee	hrs	fee	hrs	fee	hrs	fee	hrs	fee	hrs	fee	hrs	fee	hrs	fee	hrs	fee	hrs	fee	
Classification		Base Year 2017 Hourly Rate*																						
E5	Mike Fisher - PM & Technical Lead	\$221	2	\$512	8	\$2,050	4	\$1,025	8	\$2,050	2	\$512		8	\$2,050	10	\$2,562	2	\$512	8	\$2,050	8	\$2,050	
E5	Sami Kader - QAQC & Technical Oversight	\$221																		24	\$6,149		\$0.00	
E5	Todd Kotey - Process / Mechanical	\$221																		60	\$11,477	16	\$3,060	
E3	Kristina Alacon - Civil / Mechanical	\$165	20	\$3,826				16	\$3,060				48	\$9,181	16	\$3,060						24	\$4,062	
E2	Andy Lindemann - Structural / Architectural	\$146	8	\$1,354									28	\$4,739	4	\$677						40	\$7,651	
E3	Tim Lewis - Pipeline / Trenchless	\$165	12	\$2,295	12	\$2,295	44	\$8,416	16	\$3,060			88	\$16,833	16	\$3,060	12	\$2,295						
E3	Frisch Engineering - EI&C / SCADA	\$165	20	\$3,826						40	\$7,651	120	\$22,954							48	\$9,181		\$0.00	
E4	DCM - Dave Mathy - Trenchless	\$210			40	\$9,738								20	\$4,869					40	\$5,518		\$0.00	
E1	Staff Engineer	\$119																					\$0.00	
T3	Senior Designer	\$133	12	\$1,850			24	\$3,700	16	\$2,467						24	\$3,700	4	\$617			36	\$5,551	
T1	Drafter / Technician	\$81	16	\$1,502			20	\$1,878	16	\$1,502						16	\$1,502	20	\$1,878			60	\$5,634	
AA	Administrative	\$96												8	\$890									
	WWE Expenses (including mark-up)												\$3,200		\$500						\$2,150			
	Subconsultant Markup			\$191		\$487		\$0		\$0		\$383		\$1,148		\$243		\$0		\$0		\$459		\$0
	<b>Subtask Totals</b>	<b>90</b>	<b>\$15,357</b>	<b>60</b>	<b>\$14,570</b>	<b>92</b>	<b>\$15,020</b>	<b>72</b>	<b>\$12,140</b>	<b>42</b>	<b>\$8,546</b>	<b>120</b>	<b>\$27,301</b>	<b>200</b>	<b>\$39,306</b>	<b>86</b>	<b>\$14,563</b>	<b>38</b>	<b>\$5,303</b>	<b>180</b>	<b>\$36,984</b>	<b>184</b>	<b>\$28,008</b>	
		Amend 3 Task 1		Amend 3 Task 2		Amend 3 Task 3		Amend 3 Task 4		Amend 3 Task 5		Amend 3 Task 6		Amend 3 Task 7		Amend 3 Opt 1		Amend 3 Opt 2		Amend 3 Opt 3		Amend 3 Opt 4		
		\$15,357		\$14,570		\$15,020		\$12,140		\$8,546		\$27,301		\$39,306		\$14,563		\$5,303		\$36,984		\$28,008		

\*WWE rates are increased 3% each year beyond base.

**Total Amendment 3 - Base Services 676 \$132,239**

**Optional 488 \$84,857**

**Total Amendment 3 - All Services 1164 \$217,096**

## CITY OF MORRO BAY

AMENDMENT NO. 2 TO THE AGREEMENT  
FOR CONSTRUCTION SERVICES  
BETWEEN THE CITY OF MORRO BAY  
AND ANVIL BUILDERS, INC.

This Amendment No. 2 is entered by and between the City of Morro Bay, a municipal corporation (“City”) and Anvil Builders, inc., a California corporation (“Contractor”).

**RECITALS**

WHEREAS, City and Contractor (collectively, the “Parties”) entered into an agreement as of November 10, 2020, for construction services for Contractor to complete the work for the Water Reclamation Facility Lift Station and Offsite Pipelines Project, (the “Project”) which was approved by the City Council for a not to exceed amount of \$31,493,765 (the “Agreement”).

WHEREAS, the Parties amended the Agreement, as of October 12, 2021, to expand the tasks to be provided by Contractor and to increase the compensation payable in the amount of \$674,485 (Amendment No. 1), increasing the total compensation payable pursuant to the Agreement to \$32,168,160;

WHEREAS, the Agreement and Amendment No. 1 are referred to collectively as the "Amended Agreement;"

WHEREAS, the Parties again agree to amend the Amended Agreement because the construction services for the Project require an expansion of the tasks to be provided by Contractor pursuant to the Amended Agreement;

WHEREAS, due to the expansion of tasks to be provided, the compensation payable pursuant to the Amended Agreement must be increased.

NOW THEREFORE, City and Contractor mutually agree to amend the Amended Agreement as follows:

1. The additional services to be provided by Contractor, pursuant to the Amended Agreement, as hereby further amended, shall include Change Orders 9, 22, 23, 27, 28, and 34 for the out of scope items, as set forth in Exhibit A, attached hereto and incorporated herein by this reference (the "Change Order No. 2"). The Change Order No. 2 activities shall have been already satisfactorily commenced as of the date of this Amendment No. 2 or be satisfactorily commenced immediately after January 11, 2022, and, to the extent not completed by January date, completed no later than June 30, 2022.

2. The compensation for the Change Order No. 2 shall not exceed \$587,502. The activities for Change Order No. 2 shall be paid in accordance with (i) the amounts set forth in Exhibit A,

and (ii) the process established by the Amended Agreement on a lump sum basis. With the amount added for the Additional Work, the total compensation paid pursuant to the Amended Agreement shall not exceed \$32,755,662.

3. Contractor shall not be compensated for any services rendered in connection with its performance of the Amended Agreement which are in addition to those set forth in Change Order No. 2.

4. Except as expressly stated herein, all terms and conditions in the Amended Agreement shall remain in full force and effect.

5. The effective date of this Amendment No. 2 shall be deemed to be January 11, 2022.

IN WITNESS WHEREOF, the parties have caused this Amendment No. 2 to be executed by their duly authorized representatives as of the day first written above.

CITY OF MORRO BAY

CONTRACTOR

By: \_\_\_\_\_

By: \_\_\_\_\_

Scott Collins,  
City Manager

\_\_\_\_\_  
Its \_\_\_\_\_

Attest:

By: \_\_\_\_\_

\_\_\_\_\_  
Dana Swanson, City Clerk

\_\_\_\_\_  
Its \_\_\_\_\_

Approved As To Form:

\_\_\_\_\_  
Chris Neumeyer, City Attorney



**City of Morro Bay  
Water Reclamation Facility  
Lift Stations and Offsite Pipelines Project  
CHANGE ORDER 002**

**Project:** WRF Lift Stations and OffSite Pipelines Project      **Contractor:** Anvil Builders, Inc.  
**Date:** January 11, 2022      **Project Manager:** Matt Scholfield

Upon mutual acceptance and execution of this document by the City of Morro Bay (City) and Anvil Builders, Inc. (Contractor), Contractor is hereby directed to make the following changes for the consideration set forth below:

See following page(s) for Descriptions and Reasons for Change

PCO #	DESCRIPTION	Reason For Change	Amount	Contract Time (Calendar Days)
9	SoCal Gas Delays and Disruptions	ABI	\$ 43,017.00	0 Days
22	6-Inch Waterline Relocation at Pump Station A	DCS	\$ 20,147.00	0 Days
23	Miscellaneous Unforeseen Utility Work	DSC	\$ 27,198.00	0 Days
27	MTBM Delays and Disruptions - Claim Resolution	ABI	\$ 111,161.00	0 Days
28	SLO County APCD Generator Mandates – Procurements	REG	\$ 301,703.00	0 Days
34	Bike Path Jack & Bore Concrete Debris Obstruction	DSC	\$ 84,276.00	0 Days
NET CHANGE ORDER ADJUSTMENT			\$ 587,502.00	0 Days

ORIGINAL CONTRACT AMOUNT	\$ 31,493,675.00	CURRENT FINAL COMPLETION DATE	4/3/2022
Previous Change Orders	\$ 674,485.00	Extension Days (Calendar)	0 Days
Previous Contract Amount	\$ 32,168,160.00	NEW FINAL COMPLETION	4/3/2022
Adjustments by this Change Order	\$ 587,502.00		
Change Order to Date	\$ 1,261,987.00		
New Contract Amount	\$ 32,755,662.00		

Acceptance of this Change Order constitutes an agreement between the City and Contractor, and the work is to be performed subject to the same terms and conditions as are contained in the Agreement with Contractor and for work on the above-mentioned project.

By signature of this Change Order, the Contractor acknowledges that the adjustments to the Contract Cost and Time contained in the Change Order are in full satisfaction and accord and so waives any right to claim any further cost and time impacts at any time during and after completion of the Contract for the changes encompassed by this Change Order.

ACCEPTED

Anvil Builders Inc.

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Contractor (Company Name)

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(Authorized Signature) (Date)

Matt Scholfield

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(Print Name and Title)

When signed by the Construction Manager, and upon execution of source document Amendment by City Council, this document becomes effective IMMEDIATELY, and Contractor shall proceed with the change(s) described above.

APPROVED

Carollo Engineers Inc / MEG Inc.

Construction Manager

---

Authorized Signature (Date)

Steve Mimiaga - Construction Mngr.

---

(Print Name and Title)



**City of Morro Bay**  
**Water Reclamation Facility**  
**Lift Stations and Offsite Pipelines Project**  
**CHANGE ORDER 002**

**Project:** WRF Lift Stations and OffSite Pipelines Project

**Contractor:** Anvil Builders, Inc.

**Date:** January 11, 2022

PCO	TILE	DESCRIPTION OF CHANGE	Reason For Change
9	SoCal Gas Delays and Disruptions	The project's joint trench, containing multiple pipelines, parallels an existing 16" diameter SoCal Gas high pressure gas main for nearly the entire alignment along Quintana Road. SoCal Gas requires a representative to be on site during all digging activities as well as other work activities occurring within 10 ft of the high pressure gas main (i.e. that could potentially damage or otherwise impact the main). There have been several occurrences where the SoCal Gas representative did not show up for scheduled assignments, which prevented Anvil from performing contract work and/or progressing the joint trench. In these cases Anvil's entire crew was forced to literally stand-by and wait for the SoCal Gas representative to arrive. The City/Carollo have spent considerable time and effort to coordinate between Anvil and SoCal Gas to improve communication and cooperation, but nevertheless, Anvil was negatively impacted on the following days: 5/3/21 for 2 hours, 5/17/21 for 2.5 hours, 5/18/21 for 3 hours, 6/3/21 for 2 hours, 6/17/21 for 2.5 hours for 2 different crews, 8/10/21 for 4 hours.	ABI
22	6" Waterline Relocation at Pump Sta. A	New Pump Station A is located on City property at the City's existing corporation yard on Atascadero Road. As part of the site preparation and demolition work at Pump Station A, an unknown 6" Waterline was discovered and needed to be relocated to construct the pump station. The extra work included potholing and locating the unknown utility, trenching and installation of new by-pass piping, pressure testing and disinfection of the relocated waterline, backfill and other site work.	DSC
23	Miscellaneous Unforeseen Utility Work	During the project work to date, the below noted miscellaneous unforeseen minor utility work was required for contract work to proceed. The following items are acknowledged as unforeseen conditions and as such warrant reimbursement of verified extra costs: (1) potholing unmarked utility at Pump Station A on 5/3/21, (2) emergency work to recover trench caving due to adjacent utilities from Sta 71+75 to Sta 71+85 on 6/13/21, (3) excavating around unmarked 4" (asbestos) Waterline at Sta 146+00 on 7/8/21, (4) Anvil crew standby time during potholing of incorrectly marked telephone conduit on 8/5/21, (5) unknown and unmarked Sanitary Sewer crossing at Sta 88+50, line was struck and repaired on 8/6/21, (6) potholing unknown and unmarked Sanitary Sewer lines on 8/9/21, and (7) unknown and unmarked Sanitary Sewer crossing at Sta 90+50, line was struck and repaired on 8/23/21.	DSC
27	MTBM Delays and Disruptions Claim Resolution	Anvil and their Microtunnel Boring Machine (MTBM) subcontractor, Vadnais Trenchless Services (Vadnais) encountered several unknown utilities, potential obstructions, and differing soil conditions along the MTBM alignment below the Morro Bay Roundabout, including complete equipment stoppages at approximately Sta 98+50 and Sta 98+65. Anvil's subcontractor (Vadnais) claimed delay and equipment standby time for these equipment stoppages that lasted over 8 weeks. During the 8 weeks of work stoppage, Anvil excavated and shored two separate 23 ft deep emergency recovery shafts to clear the apparent obstructions from in front of the MTBM cutting head. However, no actual obstruction was found, located, or confirmed during the recovery shaft excavations. Subsequently, the MTBM casing pipe installation was completed without further incidents. Anvil and Vadnais provided notifications of potential costs under PCO #14 and PCO #27 in excessive \$500,000 for the Vadnais equipment downtime, Vadnais loss of crew efficiencies, and for the cost of the two recovery shafts by Anvil. The City initially denied the claim for stoppages at Sta 98+50 and Sta 98+65, as no obstruction was found. The City does not dispute the other costs related to unknown utilities noted herein. After several meetings between the City, Carollo, Anvil, and Vadnais, a claim settlement was reached in the amount of \$111,161, wherein all other costs and impacts associated with both PCO #14 and PCO #27, are waived or otherwise agreed upon for the final lump sum amount noted herein.	ABI
28	SLO County APCD Emergency Generator Mandates – Procurements	On 9/24/21, the City received a Notice of Incomplete Applications from SLO County Air Pollution Control District (APCD), pursuant to the Pump Station A emergency generator and the Pump Station B emergency generator. It is City staff understanding that both generators were in compliance with APCD requirements at the time of Bid Opening in 2020. However, in late 2020, APCD rules were revised causing the two generators to now need retrofitted emissions reduction components to attain APCD compliance and approval. APCD is now also requiring Health Risk Assessments (HRAs) for both pump station sites which Carollo is undertaking via specialty subconsultant. This change order encompasses the below noted initial known costs for emissions reduction components, however it is acknowledged that there will be a subsequent change order for additional structural, mechanical, electrical, and sitework revisions necessary to implement the changes. This change order includes costs for the following assumed necessary procurement items: At Pump Station A add a Diesel Particulate Filter (DPF); and at Pump Station B add the DPF, plus Selective Catalytic Reduction (SCR) and Diesel Oxidation Catalysts (DOC) technologies.	REG
34	Bike Path Jack & Bore Concrete Debris Obstruction	On 11/11/21, about 3 pm, Anvil and their jack & bore subcontractor (Pacific Boring) encountered a concrete obstruction in the path of the 60" casing pipe. Anvil and Pacific Boring were immediately instructed to suspend the jack & bore mechanical operation and hand excavate to investigate and confirm the size and extent of the concrete obstruction. For the following 6 consecutive days (including Saturday 11/13/21 and Sunday 11/14/21), Anvil and Pacific Boring worked 8 to 10 hour shifts to hand excavate and jack hammer out the concrete obstruction, while simultaneously advancing the casing pipe about 20 ft using the hydraulic jacking equipment. On 11/18/21, the obstruction was cleared and Pacific Boring resumed normal jack & bore operations, finishing the casing installation the same day. Note that the obstruction appears to be an old Caltrans culvert structure from the original CA Route 1 highway. Also note that the jack & bore work through jurisdictional wetlands needed to proceed without delay, working through the weekend, in order to meet a California Department of Fish and Wildlife (CDFW) mandate for the tunnel to be completed by 11/19/21.	DSC

**REASON FOR CHANGE CODES**

**CR1:** City requested (required)

**CR2:** City requested (Optional)

**E&O:** Design Error or Omission

**ABI:** Anvil request / claim item

**DSC:** Differing Site Conditions

**REG:** Regulatory Agency Item

# OneWater Morro Bay Plan Overview

Department of Public Works

January 19, 2022





# OneWater Morro Bay

## Overview

- Adopted by City Council on November 13, 2018
- Resource document to identify City capital projects related to water, wastewater, and stormwater for next 20 years
- Does not necessarily add capacity to systems, many projects are maintenance
- Based on extensive flow modeling
- Based on full build out of City in 2040 as described in Plan Morro Bay
- City submits annual reports to State, who regulates water, wastewater, stormwater plans
  - Allows for grant and loan funding eligibility



# OneWater Morro Bay

## Background

- Prior plans:
  - Water Master Plan: 1997
  - Wastewater Master Plan: 2006
  - Storm Drainage Master Plan: 1987
- OneWater consolidated water, wastewater, and stormwater plans
- Normal cycle is 5-7 years, should be updated in next 2-4 years
- Transition away from “if it ain’t broke don’t fix it” and “do not raise rates” mindset



# Capital Projects

## Projects

- City staff use OneWater Plan to schedule projects
  - Fully funded by enterprise funds, except stormwater projects
- First phase: projects for first five years
  - Water
    - Water Tank Rehabilitation
    - Nutmeg Pressure Zone
  - Wastewater
    - Atascadero Road/Main Street Sewer
    - Beachcomber Sewer



# Water Tank Rehabilitation

## Project Scope

- Complete rehabilitation of four Blanca Tanks and two Kings Tanks
- Work will include replacement of internal and external coatings
  - Two oldest Blanca Tanks to be completely disassembled and refurbished at factory
- Replacement of access ladders, handrails, and railings
- Installation of OSHA fall protection equipment

## Background

- Blanca Tanks capacity: 700,000 gallons
- Kings Tanks capacity: 2,500,000 gallons



# Water Tank Rehabilitation

## Background

- Tank structures have deteriorated due to harsh ocean environment and deferred maintenance
- Tanks not in compliance with State Division of Drinking Water

## Project Timeline

- One year to completion

## Project Cost

- \$2.75 million
- Fully funded by the Water Fund



# Water Tank Rehabilitation





# Water Tank Rehabilitation





# Nutmeg Pressure Zone

## Project Scope

- Combination of several OneWater projects
- Replacement/upgrade of Nutmeg Tank to mitigate capacity deficiency maximum day demand conditions and to support fire flow
- Elimination of Vashon Booster Station
- Elimination of Elena Tanks
- Pipeline upgrades to accommodate peak hour demands
- Construction of pipelines to support fire flow

## Background

- Nutmeg Tank capacity: 160,000 gallons
- Elena Tanks capacity: 120,000 gallons



# Nutmeg Pressure Zone

## Background

- New Nutmeg Tank capacity: 1,000,000+ gallons
- Must comply with regulations on how many gallons per minute must be available while retaining PSI

## Project Timeline

- Three years to completion

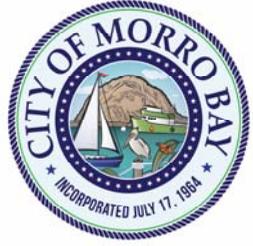
## Project Cost

- \$6.3 million
- Fully funded by the Water Fund



# Nutmeg Pressure Zone





# Nutmeg Pressure Zone





# Main Street/Atascadero Road Sewer

## Project Scope

- Replacement/upgrade of over 5,500 feet of gravity main sewer lines on Atascadero Road, Main Street, and San Joaquin Street
- Mitigates risk of sanitary sewer overflows under peak wastewater flow conditions

## Background

- Will be serviced by the new pump station on Atascadero Road
- Originally one project, now segmented to allow for sequential construction with WRF conveyance line on Atascadero Road



# Main Street/Atascadero Road Sewer

## Project Timeline

- One and a half years to completion

## Project Cost

- \$2.5 million
- Fully funded by the Sewer Fund



# Main Street/Atascadero Road Sewer





# Beachcomber Sewer

## Project Scope

- Rehabilitation/replacement/upgrade of over 1,500 feet of sewer lines along Beachcomber Drive to address inflow and infiltration
- Replacement of 31 caps and manholes to address inflow and infiltration

## Background

- Inflow and infiltration introduces clean water into the wastewater system, which creates capacity issues



# Beachcomber Sewer

## Project Timeline

- Two years to completion

## Project Cost

- \$2.5 million
- Fully funded by the Sewer Fund



# Beachcomber Sewer





# Future Challenges

## Water

- Daily use: no major deficiencies
- ~70% pipes are aging (over 60 years old) A/C pipe
- Fire flow issues
- “Shallow” water supply

## Wastewater

- Daily use: no major deficiencies
- Inflow and infiltration



# Future Challenges

## Stormwater

- Funding – no dedicated funding source

## General

- Staffing
  - Engineering
  - Operations and Maintenance



# Questions

Greg Kwolek, Public Works Director  
gkwolek@morrobayca.gov



AGENDA NO: B-3

MEETING DATE: January 19, 2022

# Staff Report

**TO:** Public Works Advisory Board                      **DATE:** January 13, 2022  
**FROM:** Greg Kwolek – Public Works Director  
            Pamela Newman – Assistant Engineer  
**SUBJECT:** REVIEW COLEMAN PARK CONCEPTUAL PLAN

## **RECOMMENDATION**

Staff recommends the Public Works Advisory Board (PWAB) provide input to staff on the Coleman Park conceptual plan and recreational and cultural amenities for the park.

## **BACKGROUND**

The improvement of Coleman Park has been identified by staff as a priority because of its favorable existing elements and its proximity to other major City attractions. The park already draws local and regional visitors who enjoy its swing sets, picnic tables, and barbeque pits, and it sits at the crossroads between three of Morro Bay's best known attractions: the Embarcadero, Morro Rock, and Morro Rock Beach. Unfortunately, parts of Coleman Park stand in disrepair. The basketball court is dated and rarely used, and the restroom was recently demolished because of structural issues. Further, much of the park is comprised of unimproved, unvegetated decomposed granite, which is used as makeshift parking lots. These factors, combined with the abovementioned favorable elements of the park, present an opportunity for a variety of improvements. Because of this, City Council took interest in improving the Coleman Park area since at least 2008. Though efforts were made to develop a plan for Coleman Park and the surrounding areas, no lasting initiatives were ever finalized.

More recently, staff has monitored grant funding opportunities to fund Coleman Park improvements. While a broader City capital needs assessment and parks master plan is in development and not yet available, staff has taken a phased, piecemeal approach to park improvements so as to not lose out on grant opportunities. A capital needs assessment is expected to be brought to City Council later this year. The report will be used to identify and create design drawings for future upgrades and long-term maintenance goals.

## **DISCUSSION**

The passage of Proposition 68, which was placed on the ballot via Senate Bill 5 and approved by voters on June 5, 2018, made available park related grant funding opportunities to California cities. On October 8, 2019, the City Council adopted Resolution No. 92-19 to authorize staff to apply for the Prop 68 Per Capita Grant to partially fund a new, prefabricated restroom for Coleman Park that includes four gender-neutral bathroom stalls, each with their own sink as well as a concession stand. After a significant delay, the State made the Per Capita Grant open to applications in 2021, at which time the City applied. As a non-competitive grant, the Per Capita Grant offers city applicants \$177,952 towards park related improvements, and staff is expecting to receive an award notification in the coming months. Once awarded, the City must enter into a contract with the State for the Per Capita Grant to complete the Coleman Park restroom reconstruction by December 31, 2023.

Staff recently conducted a survey of grant opportunities to fund additional improvements to Coleman Park. The most promising of these opportunities is the competitive RRT through the State of California Department of Parks and Recreation, which was developed to create new recreation opportunities within rural communities to support health-related and economic goals. The RRT guidelines define “rural” communities as being a City with a population of less than 80,000 within a county with a population of less than 500,000. Grant applications must be submitted by January 20, 2022, with the project awards notification released in Spring 2022. Project improvements must be completed by March 1, 2025, to receive the grant funds.

To better understand what specific improvements and features at Coleman Park the City should focus on, staff held two community meetings to elicit suggestions from community members. To do this, staff invited members of the City Council, the Public Works Advisory Board, the Recreation and Parks Commission, the Harbor Advisory Board, Planning Commission, as well as representatives from the Chamber of Commerce, Visit Morro Bay, and a variety of local community, wildlife, and environmental organizations. Further, a community event flyer was distributed on social media. The event flyer indicated an option to send improvement ideas to staff over email for interested community members who could not attend the meetings.

The first community meeting was held at 10:00 a.m. on Tuesday, October 19, 2021 and brought approximately 30 attendees. The second was held on Thursday October 20, 2021 at 5:30 p.m. in the evening to allow for working families to attend. This meeting had approximately 15 attendees present. The attendees were diverse in age and shared different perspectives based on age and intended use. A variety of park improvement ideas were received by staff, such as inclusion of:

- Family friendly exercise stations and amenities
- Natural (i.e., not traditional plastic) playgrounds for children
- Stage/concert space
- Natural and native gardens
- Picnic Tables
- Historical monuments
- Cultural and education interpretive signage and plaques
- Art component and/or sculptures
- Improved accessibility
- BBQ or Fire Pits

Staff received input from City Council on January 11, 2022 and is now seeking additional input from the Public Works Advisory Board.

### **CONCEPTUAL PLAN**

City Staff compiled the most feasible community suggestions obtained through public meetings and emails and considered options for a competitive grant application for the RRT that complies with the constraints of the site, Coastal Commission regulations, and the adopted 2021 General Plan. The attached conceptual plan is comprised of the following top five main components, ranked by order of popularity, that were consistently raised in the public meetings and emails received by staff:

1. Playground areas
2. Plaza/stage area (for concerts, performances, celebrations, etc.)
3. Landscape/garden areas
4. Exercise/fitness stations
5. Art/historical space

The layout of the conceptual plan replaces 30 existing, unimproved parking spaces with 32 asphalt parking spaces (including 8 accessible spaces) while reducing the overall footprint of parking within the park. It adds playgrounds, gardens, fitness stations, a plaza/stage, a sports court, art installations, and an accessible ADA concrete sidewalk along Coleman Drive and within the park. These amenities combined offer a family focused park for residents as well as a regional tourist attraction for visitors to Morro Bay.

The conceptual plan is only an example layout for the feasible recreational and cultural amenities suggested by members of the community. It is not intended to be a final vision for Coleman Park, and the grant application will not include all features included in it. Rather, it is intended as a starting point to gather input to guide staff on the application of grant funding. As such, staff is requesting the Public Works Advisory Board to review the amenities included in the conceptual plan and provide input on which features to consider in the grant application. Specifically, staff seeks guidance on the following questions:

1. Does PWAB support creating ADA accessible parking spaces and consolidating all parking for Coleman Park onto smaller footprint asphalt areas? To do this, the park design would include some new accessible concrete walkways. Without consolidated parking, less space is available for recreational and cultural amenities.
2. Does PWAB support construction of a stage/plaza for small events and concerts? This amenity could be used for community groups and events and also could bring in future revenue for the City. The Division of Recreation Services would manage use of the plaza/stage.
3. Are there any recreational or cultural amenities in the conceptual plan which PWAB does not support?
4. Are there any recreational or cultural amenities not already included in the conceptual plan which PWAB would like included?
5. Are there any areas of the existing park that PWAB would like to see preserved in their current condition rather than improved?

Staff will use the input and feedback provided to develop project cost estimates and the RRT grant application. Any input received from PWAB that is not included in the RRT application will be brought to PWAB as part of other grant applications or be included in the future capital needs assessment or parks master plan.

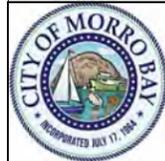
### **CONCLUSION**

Staff recommends the PWAB provide input on the Coleman Park conceptual plan and recreational and cultural amenities for the park.

### **ATTACHMENTS**

1. Coleman Park Conceptual Plan
2. Current Coleman Park Area Layout
3. Example Coleman Park Design Elements

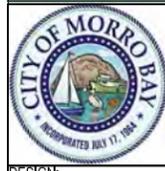
# COLEMAN PARK CONCEPTUAL PLAN



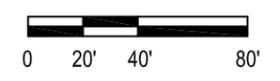
<b>CITY OF MORRO BAY PUBLIC WORKS DEPARTMENT</b>			
955 SHASTA AVE., MORRO BAY, CA 93442 1-805-772-6261 WWW.MORROBAYCA.GOV			
DESIGN:	PROJ. NAME: <b>COLEMAN PARK HARBORWALK</b>		
DRAWN:	SHEET NAME: <b>CONCEPTUAL PLAN</b>	PRJ. NO.:	
CHECK:	DATE:	SHEET:	
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# COLEMAN PARK CURRENT AREA LAYOUT



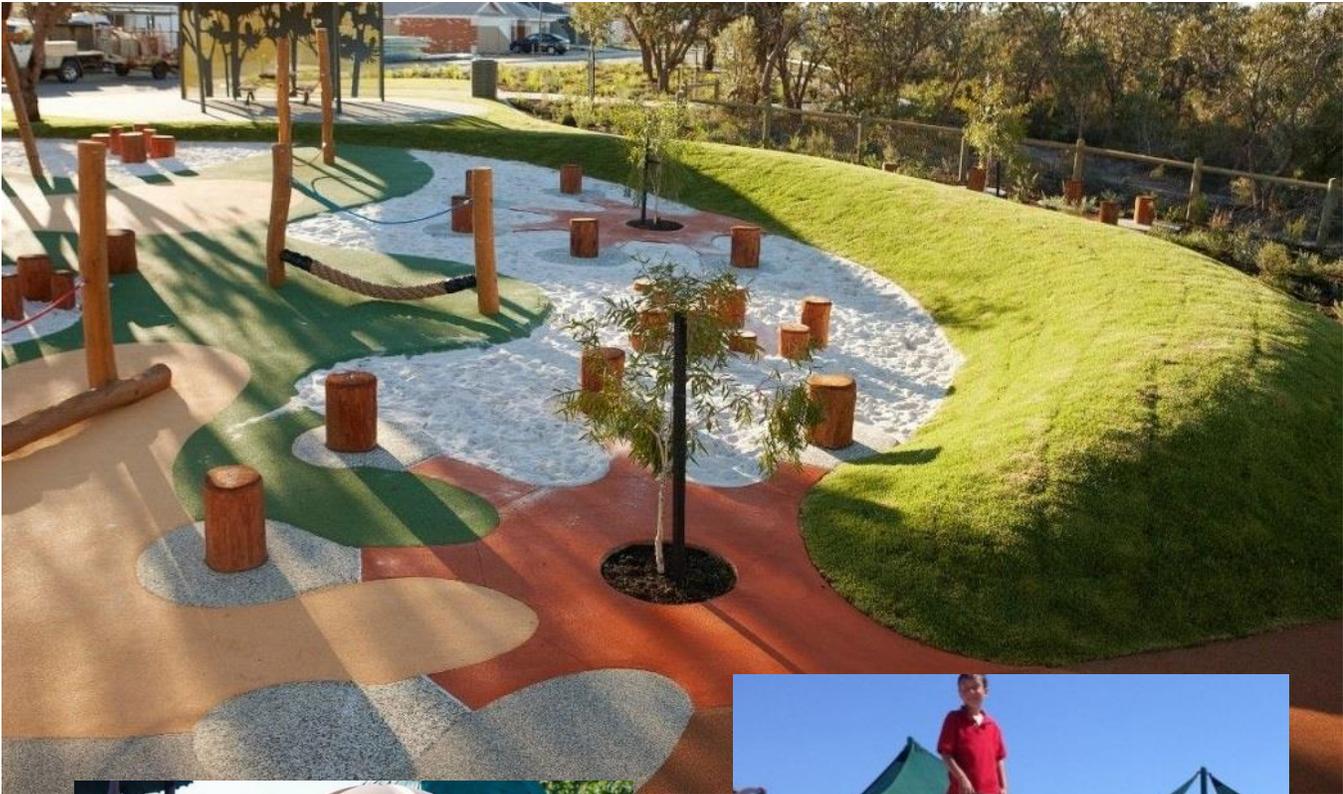
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DRAWN:	SHEET NAME:	PRJ. NO:	
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# PLAZA/STAGE DESIGN ELEMENTS



# PLAYGROUND DESIGN ELEMENTS



# LANDSCAPE/GARDEN DESIGN ELEMENTS



# EXERCISE/FITNESS STATIONS ELEMENTS

