SAN FRANCISCO WATERFRONT COASTAL FLOOD STUDY, CA

DRAFT APPENDIX C COST ENGINEERING

JANUARY 2024

USACE TULSA DISTRICT | THE PORT OF SAN FRANCISCO



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Acronyms and Abbreviations

Acronym	Definition
ARA	Abbreviated Risk Analysis
CWCCIS	Civil Works Construction Cost Index System
IFR / EIS	Integrated Feasibility Report / Environmental Impact Statement
MII	Micro-Computer Aided Cost Estimating System, Generation 2
NED	National Economic Development
NFS	Non-Federal Sponsor
OMRR&R	Operations, Maintenance, Repair, Rehabilitation, and Replacement
PED	Preconstruction Engineering and Design
POA	Period of Analysis
PDT	Project Delivery Team
POSF	Port of San Francisco
ROM	Rough Order of Magnitude
RSLC	Relative Sea Level Change
S&A	Supervision and Administration
ТЛВР	Total Net Benefits Plan
TPCS	Total Project Cost Summary
TSP	Tentatively Selected Plan
USACE	U.S. Army Corps of Engineers
WBS	Work Breakdown Structure
WRDA	Water Resources Development Act

1. Introduction

This appendix lists and describes the current working cost estimate as part of this draft Integrated Feasibility Report and Environmental Impact Statement (IFR/EIS). Included within are details regarding the development of the cost estimate including the scope of work, major assumptions, markups, and contingency development utilizing an Abbreviated Risk Analysis (ARA).

There are two unique aspects to the plan formulation process that affect the cost estimate derivation:

- The Total Net Benefits Plan (TNBP) was formulated to function across all Relative Sea Level Change (RSLC) scenarios rather than to maximize net benefits under one identified RSLC scenario This required additional planning iterations that combined measures and strategies from the existing array of alternatives.
- Recommendation of different adaptive actions as risk increases creates some uncertainty in the future action to be undertaken and the timing, which requires consideration of a conceptual range of total costs over 100-year POA, The Resilience Strategy, to follow a more detailed first action.

This appendix describes three distinct types of estimates.

- Costs developed for the Array of Alternatives
- Detailed estimate of the first action of the TNBP, to be implemented in 2040, which is the same for all potential RSLC scenarios. This amount will not deliver the entire benefit stream expected over the 100-year period of analysis (POA) but is presented to clarify the initial action and to inform potential authorization discussions. It should not be mistaken for an entire project cost.
- Simplified, broad cost estimates of the sum of first and potential second actions at the scale of action that would be necessary under each of the U.S. Army Corps of Engineers' (USACE) RSLC scenarios.

2. Cost Estimate

2.1 General Information

2.1.1 Estimate Structure

Each alternative cost estimate was structured by consistent steps, that initially grouped the work into four (4) large geographical areas, or "Reaches," similar to other efforts in the study. The estimates were then further grouped into sub areas that included mixtures of specific and common features of work. Effort was also taken to organize the estimate per the Civil Works Work Breakdown Structure (WBS) guideline/template.

The project costs were developed in TRACES Micro-Computer Aided Cost Estimating System, Generation 2 (MII) cost estimating software. The costs were then summarized in the USACE developed Total Project Cost Summary (TPCS) spreadsheets. The TPCS are updated regularly to incorporate historic inflation and future escalation rates by use of the USACE developed Civil Works Construction Cost Index System (CWCCIS).

2.1.2 Seismic and Non-Seismic Estimates

In accordance with the provisions of Section 152 of the Water Resources Development Act (WRDA) of 2020, as amended by Section 8380 of WRDA 2022, the alternatives were estimated both with and without the scope of work attributed to the seismic hazard present within the study area. For evaluating National Economic Development (NED) benefits and costs, the cost basis is considered to be the scope of work necessary to produce the coastal flood risk reduction benefits in a region that is not subject to seismic hazards. However, the total project cost including the scope of work to complete the project in this high seismic region is the basis for congressional authorization and project cost sharing. Therefore, two estimates are produced for each alternative and herein referred to as the "Seismic" and "non-Seismic" costs.

2.2 Acquisition Strategy

For simplicity it is assumed that this will be advertised as a Full and Open/Unrestricted project. Given the size of the project, there is opportunity for the project to be broken up into sub-projects, and multiple contracts. The risks to the estimated cost associated with this opportunity was discussed in the ARA. The current working estimate assumes one contract.

2.3 Contractor Hierarchy

This estimator assumed this project to have a Prime Contractor subcontracting the work to multiple subcontractors per disciplines of the work.

2.4 **Project Mark-ups**

- Cost Book Adjustment: 20%
- Escalation: Not included in MII cost estimate model. Escalation applied in the TPCS.
- Productivity: 90%
- Overtime markup: assume 6 each 10-hour shifts equals 16.67%

2.5 Prime Contractor Mark-ups

- JOOH: 15%
- HOOH: 5%
- Profit: Profit Weighted Guidelines Wizard 7.53%

- Bond: 1.5%

2.6 Sub-Contractor Mark-ups:

- SubJOOH: 15%
- SubHOOH: 5%
- Profit: 8.45%

Sales Tax: 8.63% (San Francisco, CA)

Cost Contingency: Applied to the features of work, and developed through the Abbreviated Risk Analysis, 25% for Lands and Damages per USACE LRL Real Estate Division. The Risk Report for this project is included in Error! Reference source not found..

2.7 Pricing

Pricing for features of work were derived from multiple methods. Some features of work were costed by developing an assumed WBS for each scope of work and applying appropriate MII Cost Book CSI tasks with quantities and appropriate markups. Other features, including Deep Soil Mixing, were costed by contacting specialized contractors and applying discussed unit costs. Additionally, other features, including the tidal gate structures, were costed by referencing the Texas Coastal project cost estimates of similar features of work. Other methods were also used including utilizing previous project unit costs, unit costs provided by USACE Cost Community of Practice, etc. Local vendor pricing was solicited for some materials including ready mix concrete, aggregate stone, sand, etc.

2.8 Cost Sources

Used the 2022 Cost Book - English. Revised material costs, per quotes received and or production rates as appropriate per estimator's and design engineers' judgment.

The Real Estate costs were provided by the Project Delivery Team's (PDT) Real Estate team; the derivation of those costs is discussed in *Appendix F: Real Estate Plan*.

The Operations, Maintenance, Repair, Rehabilitation, and Replacement (OMRR&R) rates were also estimated by the Engineering team. The nonstructural alternatives are assumed to have no OMRR&R (though this assumption may be revised in the future, as there may be expenses associated with storing equipment like flood shields, stop logs, and panels), while the structural alternatives used an OMRR&R rate of 0.5% of the capital cost per year. An exception to this is Alt. F in Reaches 3 and 4, where the water management structures were assumed to have a higher OMRR&R rate of 2% per year.

Cultural and Environmental mitigation scopes of work continue to be developed. Costs for these features are not yet included.

Project Preconstruction Engineering and Design (PED) and Construction Management Supervision and Administration (S&A) costs was discussed with the PDT and estimated at using the predetermined percentages included in the current TPCS sheet. Following discussion with the PDT, the predetermined rates were decreased 50% for this project due to the size of the project.

2.9 Wage Rates

The cost estimate includes labor rates per Heavy & Highway General Decision Number: CA20230018 09/01/2023.

2.10 Equipment

2022 MII Equipment 2022 Region 07 - West.

2.11 Material

2022 Cost Book – English. Revised material costs, per quotes received for the major and/or various items as noted in the estimate costs items.

2.12 OMRR&R

At this initial point of design, OMRR&R costs were estimated by the Engineering team as a percentage of first cost of certain types of features. The estimated total OMRR&R costs per plan can be found in *Appendix E: Economic and Social Considerations*.

2.13 Real Estate Costs

At this initial point of design, real estate costs were estimated for the footprint of each proposed plan in accordance with USACE policy as described in Appendix F. The estimated total real estate costs can be found in *Appendix F: Real Estate Plan*.11

2.14 Annual Monitoring and Adaptation Costs

Adaptive actions will be considered and implemented as a result of an assessment of change in risk conditions influenced by RSLC. A Monitoring and Adaptation Plan is proposed to evaluate changing conditions and inform future adaptations. It is described within *Appendix G: Monitoring and Adaptation Plan*, and an annual cost is consistent across all RSLC scenarios, estimated to be \$50,000 for staff time to collect data and coordinate with appropriate study partners or a technical advisory team.

3. Schedule

Rough order of magnitude (ROM) construction durations for each alternative were developed through discussion of the PDT engineering group. ROM durations for the initial action for each of the alternatives were determined as follows:

- Alternative C 6 years
- Alternative D 8 years
- Alternative E 10 years

- Alternative F 10 years
- Alternative G 10 years

Further discussion with members of the engineering group highlighted the difficulty of the alternatives' planned construction, and questioned whether the above listed determined durations were adequate. It should be noted that there is risk involved in assuming the above listed durations, which will impact time dependent costs such as contractor overhead.

A detailed construction schedule utilizing software such as Microsoft Project will be developed before release of the final report. Implementation approach, Federal and non-Federal sponsor (NFS) appropriations, and contracting strategy will all impact the construction duration; therefore, a high level of uncertainty will remain prior to the PED phase. The PDT currently assumes that the detailed construction schedule will result in durations exceeding those listed above.

The Tentatively Selected Plan (TSP) proposes an initial and a subsequent, adaptive action over a 100-year POA, and the schedule for the adaptive action is proposed at year 50 but may vary based upon the evidence of increasing risk in the study area. For purposes of this appendix, the cost estimate will reflect the overall TSP that would be constructed with a Year 50 adaptation to perform under the USACE Intermediate RSLC scenario.

4. Scope of Work

4.1 Array of Alternatives

The alternatives analysis required separate cost estimates for alternative B, C, D, E, F and G. The cost estimator also collaborated with the NFS, the Port of San Francisco (POSF), engineering team. Other methods of determining scope and costs utilized satellite imagery, discussions with material suppliers and contractors, and with local municipalities with knowledge of previous projects with similar project features. Broad assumptions were made in the work efforts of construction access, temporary laydown areas, acquisition strategy, PED, construction management, schedule, and risks, which were all discussed with the project engineering team and applied to the cost estimate. A summary of costs for the array of alternatives by reach is provided in Error! Reference source not found. and a summary of costs for the 1st and 2nd actions within the TSP are provided in Error! Reference source not found.. This preliminary approach was briefly previewed with a representative of the USACE Cost Center of Expertise to produce a cost estimate for Draft Report purposes. TPCS sheets for the array of alternatives are provided in Error! Reference source not found. and Error! Reference source not found.

4.2 Total Net Benefits Plan

The TNBP was formulated based upon the performance (cost, benefits, and impacts) of the array of alternatives under varying levels of RSLC. This TNBP was selected as the TSP. The TSP combines different scales and alignments of the initial alternatives in the

four reaches with variable timing dependent upon the anticipated level of RSLC. To estimate the cost of this plan, the detailed MII estimates completed for the array of alternatives was utilized to create a unique TPCS sheet for the first action common amongst all RSLC projections, plus a second action unique to the intermediate and high RSLC projections. For WBS items that were priced at the waterfront wide scale, rather than reach by reach, the TNBP TPCS utilized ratios based on the quantity of work within each reach. This applied to ground improvements identified as seismic scope, utility relocation and floodproofing the overwater pier structures. TPCS sheets for the TNBP are provided in Error! Reference source not found. and Error! Reference source not found.

5. Next Steps

Before publication of the final IFR/EIS, the PDT expects that the scope of work for the TSP will be further developed, which will result in a higher level of cost certainty. Challenges with the cost estimate structure still exist including updating the TNBP TPCS to align second action costs to the appropriately anticipated midpoint of construction, as some second action costs currently show anticipated midpoints at year 2040 but would likely occur much later. These challenges also show up in the **Attachment C-2**, the TNBP cost estimate summary. Additionally, the PDT acknowledges that several high-risk scope and cost items such as the inland drainage and ground improvement work to address seismic hazards will be further refined during the next phase of the study. Additionally, it is expected that an Agency Technical Review will be completed on the cost estimates along with a Cost Schedule Risk Analysis.

Attachment C-1: Array of Alternatives (B-G) Cost Estimate Summary

Attachment C-2: Total Net Benefits Plan Cost Estimate Summary

Attachment C-3: Array of Alternatives (B-G) TPCS - Seismic Cost

Attachment C-4: Array of Alternatives (B-G) TPCS - Non-Seismic Cost

Attachment C-5: Total Net Benefits Plan TPCS - Seismic Cost

Attachment C-6: Total Net Benefits Plan TPCS - Non-Seismic Cost

Attachment C-7: Abbreviated Risk Assessment Results

August 18, 2023

San Francisco Waterfront Study

Alternatives B, C, D, E, F, G

Cost Estimator: Jay Thomas, USACE-LRL-ED-M-C

- Cost estimates drafted according to currently developed scope of work

- Cost estimates should be considered Class IV/V

- DQC review comments are incorporated. ATR reviews have not been performed
- Contingencies has been applied in accordacne with the performed Abbreviated Risk Ananlysis
- Costs for Inland Drainage work per USACE design scope are included
- Cost estimates do not include Real Estate costs
- Costs to raise all the peirs are not included in the alternatives.
- First Costs have escalation markups applied to FY26

All costs listed below are x \$1,000

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All costs listed below are x \$1,000

	Alternative E	<u>8 (High Curve)</u>	<u>Alternative B (Inte</u>	rmediate Curve)	<u>Alternative C</u>		<u>Alternative D</u>		<u>Alternative E</u>		<u>Alternative F</u>		Altern	ative G
	Estimated Cost (FY23)	First Cost (FY26)	Estimated Cost (FY23)	First Cost (FY26)	Estimated Cost (FY23)	First Cost (FY26)	Estimated Cost (FY23)	First Cost (FY26)	Estimated Cost (FY23)	First Cost (FY26)	Estimated Cost (FY23)	First Cost (FY26)	Estimated Cost (FY23)	First Cost (FY26)
TOTAL with Siesmic	\$0	\$0	\$0	\$0	\$11,615,917	\$12,564,530	\$14,946,798	\$16,166,835	\$28,903,145	\$31,259,661	\$20,867,336	\$22,570,642	\$15,532,005	\$16,800,516
Seismic Costs incldng PED and Const Management	\$0	\$0	\$0	\$0	\$10,154,132	\$10,983,694	\$10,154,132	\$10,983,694	\$10,154,132	\$10,983,694	\$5,222,057	\$5,648,557	\$5,718,162	\$6,185,464
TOTAL Non-Seismic	\$6,186,505	\$6,689,749	\$1,027,844	\$1,111,533	\$1,461,785	\$1,580,837	\$4,792,665	\$5,183,142	\$18,749,012	\$20,275,967	\$15,645,279	\$16,922,086	\$9,813,843	\$10,615,052
01 Lands and Damages	\$0	\$0	\$0	\$0	\$29,787	\$32,252	\$108,833	\$117,840	\$149,033	\$161,367	\$144,383	\$156,332	\$1,311,008	\$1,419,510
2040 Subtotal	\$942,125	\$1,018,842	\$403,981	\$436,880	\$1,431,998	\$1,548,584	\$1,274,720	\$1,378,482	\$15,657,495	\$16,932,567	\$12,711,150	\$13,748,626	\$7,331,891	\$7,929,292
2040 Assumed Utilities	\$0	\$0	\$0	\$0	\$48,524	\$52,540	\$48,523.68	\$52,539.51	\$72,786	\$78,809	\$169,833	\$183,888	\$242,618	\$262,698
2040 Structure Floodproofing	\$0	\$0	\$0	\$0	\$113,660	\$123,067	\$113,660.25	\$123,066.81	\$113,660	\$123,067	\$216,167	\$234,057	\$172,288	\$186,546
2040 REACH 01	\$67,243	\$72,808	\$13,747	\$14,884	\$95,151	\$103,026	\$64,492.98	\$69,830.59	\$2,729,634	\$2,955,538	\$1,666,551	\$1,804,474	\$877,985	\$950,647
2040 REACH 02	\$93,065	\$100,767	\$17,557	\$19,010	\$47,649	\$51,593	\$63,003.82	\$68,218.19	\$3,380,760	\$3,660,551	\$6,296,675	\$6,817,783	\$2,361,266	\$2,556,684
2040 REACH 03	\$536,543	\$580,947	\$271,120	\$293,558	\$340,242	\$368,401	\$267,533.72	\$289,675.28	\$3,643,474	\$3,945,007	\$2,124,502	\$2,300,325	\$1,547,698	\$1,675,786
2040 REACH 04	\$101,836	\$110,264	\$40,470	\$43,819	\$566,449	\$613,328	\$519,069.12	\$562,027.51	\$3,345,199	\$3,622,049	\$580,134	\$628,146	\$1,056,481	\$1,143,917
2040 PED	\$93,641	\$100,572	\$39,879	\$42,831	\$143,832	\$154,477	\$129,543.99	\$139,132.31	\$1,548,487	\$1,663,100	\$1,081,918	\$1,161,997	\$700,842	\$752,716
2040 CONST MANAGEMENT	\$49,799	\$53,485	\$21,208	\$22,778	\$76,491	\$82,152	\$68,892.31	\$73,991.44	\$823,495	\$884,447	\$575,371	\$617,957	\$372,712	\$400,299
2065 Subtotal	\$1,654,181	\$1,788,712	\$193,616	\$209,383	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
2065 Assumed Utilities	\$0	\$0	\$0	\$0	\$0	\$0	\$0.00	\$0.00	\$0	\$0	\$0	\$0	\$0	\$0
2065 REACH 01	\$45,180	\$48,919	\$1,477	\$1,599	\$0	\$0	\$0.00	\$0.00	\$0	\$0	\$0	\$0	\$0	\$0
2065 REACH 02	\$462,335	\$500,598	\$84,184	\$91,151	\$0	\$0	\$0.00	\$0.00	\$0	\$0	\$0	\$0	\$0	\$0
2065 REACH 03	\$702,720	\$760,877	\$59,348	\$64,259	\$0	\$0	\$0.00	\$0.00	\$0	\$0	\$0	\$0	\$0	\$0
2065 REACH 04	\$173,005	\$187,323	\$19,249	\$20,842	\$0	\$0	\$0.00	\$0.00	\$0	\$0	\$0	\$0	\$0	\$0
2065 PED	\$176,876	\$189,968	\$19,166	\$20,584	\$0	\$0	\$0.00	\$0.00	\$0	\$0	\$0	\$0	\$0	\$0
2065 CONST MANAGEMENT	\$94,064	\$101,026	\$10,192	\$10,947	\$0	\$0	\$0.00	\$0.00	\$0	\$0	\$0	\$0	\$0	\$0
2090 Subtotal	\$2,358,374	\$2,550,170	\$280,542	\$303,379	\$0	\$0	\$3,409,113	\$3,686,819	\$2,942,484	\$3,182,034	\$2,789,747	\$3,017,128	\$1,170,944	\$1,266,250
2090 Assumed Utilities	\$0	\$0	\$0	\$0	\$0	\$0	\$48,523.68	\$52,539.51	\$72,786	\$78,809	\$97,047	\$105,079	\$97,047	\$105,079
2090 REACH 01	\$227,747	\$246,595	\$31,726	\$34,352	\$0	\$0	\$323,089.46	\$349,828.36	\$401,878	\$435,137	\$21,255	\$23,014	\$99,104	\$107,306
2090 REACH 02	\$526,769	\$570,365	\$19,757	\$21,392	\$0	\$0	\$1,075,161.15	\$1,164,141.08	\$800,140	\$866,359	\$18,284	\$19,798	\$6,611	\$7,158
2090 REACH 03	\$1,025,664	\$1,110,549	\$149,122	\$161,463	\$0	\$0	\$826,083.24	\$894,450.34	\$773,935	\$837,986	\$1,079,418	\$1,168,753		\$321,143
2090 REACH 04	\$191,264	\$207,094	\$36,324	\$39,330	\$0	\$0	\$629,287.37	\$681,368.30	\$439,689	\$476,078	\$1,173,019	\$1,270,101	\$488,221	\$528,628
2090 PED	\$252,597	\$271,293	\$28,472	\$30,579	\$0	\$0	\$330,960.90	\$355,457.26	\$296,419	\$318,359	\$261,602	\$280,964	\$119,704	\$128,564
2090 CONST MANAGEMENT	\$134,333	\$144,275	\$15,141	\$16,262	\$0	\$0	\$176,007.09	\$189,034.41	\$157,637	\$169,305	\$139,121	\$149,419	\$63,659	\$68,371
2115 Subtotal	\$1,231,825	\$1,332,025	\$149,705	\$161,891	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
2115 Assumed Utilities	\$0	\$0	\$0	\$0	\$0	\$0	\$0.00	\$0.00	\$0	\$0	\$0	\$0	\$0	\$0
2115 REACH 01	\$143,779	\$155,678	\$40,260	\$43,592	\$0	\$0	\$0.00	\$0.00	\$0	\$0	\$0	\$0	\$0	\$0
2115 REACH 02	\$310,721	\$336,436	\$7,700	\$8,337	\$0	\$0	\$0.00	\$0.00	\$0	\$0	\$0	\$0	\$0	\$0
2115 REACH 03	\$433,059	\$468,899	\$58,425	\$63,260	\$0	\$0	\$0.00	\$0.00	\$0	\$0	\$0	\$0	\$0	\$0
2115 REACH 04	\$144,506	\$156,466	\$20,104	\$21,767	\$0	\$0	\$0.00	\$0.00	\$0	\$0	\$0	\$0	\$0	\$0
2115 PED	\$130,408	\$140,061	\$15,156	\$16,278	\$0	\$0	\$0.00	\$0.00	\$0	\$0	\$0	\$0	\$0	\$0
2115 CONST MANAGEMENT	\$69,352	\$74,485	\$8,060	\$8,657	\$0	\$0	\$0.00	\$0.00	\$0	\$0	\$0	\$0	\$0	\$0

All costs listed below are x \$1,000

August 18, 2023

Attachment C-2: Total Net Benefits Plan Cost Estimate Summary

San Francisco Waterfront Study

Cost Estimating Update

Maximum Total Net Benefits Plan

Cost Estimator: Jay Thomas, USACE-LRL-ED-M-C

- Cost estimates drafted according to currently developed scope of work

- Cost estimates should be considered Class IV/V

- DQC review comments are incorporated. ATR reviews have not been performed

- Contingencies has been applied in accordacne with the performed Abbreviated Risk Ananlysis

** Some Second Action Costs are shown as 2040 and 2065. These will be revised once Section Action timing is further defined.

- Costs for Inland Drainage work per USACE design scope are included - Cost estimates do not include Real Estate costs - Costs to raise all the peirs are not included in the alternatives. - First Costs have escalation markups applied to FY26

All costs listed below are x \$1,000

	Total Net Benefits Pl (Low, Intermediate, a			Benefits P Intermedia	lan Second Action <u>te Curve)</u>		Total Net Benefit (Hig	ts Pla <u>(h Cu</u>
	Estimated Cost (FY24)	First Cost (FY26)	Estimated Cost	FY24)	First Cost (FY26)		Estimated Cost (FY24)	
TOTAL with Siesmic	\$13,555,229	\$14,661,782	\$1,742,7	78	\$1,884,901		\$11,625,567	
Seismic Costs incldng PED and Const Management	\$9,417,078	\$10,186,488		\$0	\$0		\$474,013	
TOTAL Non-Seismic	\$4,138,151	\$4,475,294	\$1,742,7	78	\$1,884,901		\$11,151,554	
01 Lands and Damages	\$91,688	\$99,276		\$11,574	\$12,532		\$81,383	
2040 Subtotal	\$4,046,463	\$4,376,018		\$0	\$0	**	\$9,456,909	**
2040 Assumed Utilities	\$161,584	\$174,957		\$0	\$0	**	\$84,674	**
2040 Structure Floodproofing	\$113,660	\$123,067		\$0	\$0	**	\$72,743	**
2040 REACH 01	\$13,747	\$14,884		\$0	\$0	**	\$877,985	**
2040 REACH 02	\$2,361,266	\$2,556,684		\$0	\$0	**	\$0	**
2040 REACH 03	\$267,534	\$289,675		\$0	\$0	**	\$3,643,474	**
2040 REACH 04	\$519,069	\$562,028		\$0	\$0	**	\$3,345,199	**
2040 PED	\$397,964	\$427,420		\$0	\$0	**	\$935,389	**
2040 CONST MANAGEMENT	\$211,640	\$227,304		\$0	\$0	**	\$497,446	**
2065 Subtotal	\$0	\$0	**	\$1,742	** \$1,884		\$0	
2065 Assumed Utilities	\$0	\$0	**	\$0	** \$0		\$0	
2065 REACH 01	\$0	\$0	**	\$1,477	** \$1,599		\$0	
2065 REACH 02	\$0	\$0	**	\$0	** \$0		\$0	
2065 REACH 03	\$0	\$0	**	\$0	** \$0		\$0	
2065 REACH 04	\$0	\$0	**	\$0	** \$0		\$0	
2065 PED	\$0	\$0	**	\$173	** \$186		\$0	
2065 CONST MANAGEMENT	\$0	\$0	**	\$92	** \$99		\$0	
2090 Subtotal	\$0	\$0	\$1,	729,462	\$1,870,485		\$1,613,262	
2090 Assumed Utilities	\$0	\$0		\$32,996	\$35,727		\$49,494	
2090 REACH 01	\$0	\$0		\$0	\$0		\$99,104	
2090 REACH 02	\$0	\$0		\$0	\$0		\$6,611	
2090 REACH 03	\$0	\$0	ç	826,083	\$894,450		\$773,935	
2090 REACH 04	\$0	\$0		629,287	\$681,368		\$439,689	
2090 PED	\$0	\$0		5157,393	\$169,042		\$159,569	
2090 CONST MANAGEMENT	\$0	\$0		\$83,702	\$89,898		\$84,860	

All costs listed below are x \$1,000

Plan Second Actio <u>Curve)</u>	n
First C	ost (FY26)
\$12,5	572,541
	\$512,750
\$12,0	59,791
	\$88,118
*	\$10,227,034
*	\$91,681
*	\$78,763
*	\$950,647
*	\$0
*	\$3,945,007
*	\$3,622,049
*	\$1,004,622
*	\$534,264
	\$0
	\$0
	\$0
	\$0
	\$0
	\$0
	\$0
	\$0
	\$1,744,639
	\$53,590
	\$107,306
	\$7,158
	\$837,986
	\$476,078
	\$171,379
	\$91,141

PROJECT: SFWS PROJECT NOP2 xxxxxx LOCATION: San Francisco, CA

DISTRICT: SWT POC: CHIEF, COST ENGINEERING, xxx

This Estimate reflects the scope and schedule in report;

Alternatives Analysis

Alternative B Intermediate Curve - Post DQC and Post ARA

Civil W	Vorks Work Breakdown Structure	ESTIMATED COST					PROJECT FIRST COST (Constant Dollar Basis)						TOTAL PROJECT COST (FULLY FUNDED)			
							I	Program Year Effective Pric		2026 1 OCT 25	I					
										Spent Thru:	TOTAL					
WBS	Civil Works	COST	CNTG	CNTG	TOTAL	ESC	COST	CNTG	TOTAL	1-Oct-22	FIRST COST	INFLATED	COST	CNTG	FULL	
<u>NUMBER</u>	Feature & Sub-Feature Description	<u>(\$K)</u>	<u>(\$K)</u>	(%)	<u>(\$K)</u>	_(%)_	<u>(\$K)</u>	<u>(\$K)</u>	(\$K)	<u>(\$K)</u>	<u>(\$K)</u>	<u>(%)</u>	<u>(\$K)</u>	<u>(\$K)</u>	<u>(\$K)</u>	
Α	В	С	D	E	F	G	Н	I	J		К	L	М	Ν	0	
02	40 REACH 01 Demolition of Bldgs/Structur	\$991	\$701	70.7%	\$1,692	8.3%	\$1,073	\$759	\$1,832	\$0	\$1,832	43.2%	\$1,537	\$1,087	\$2,624	
02	40 REACH 01 Floodproofing Structures	\$6,289	\$5,766	91.7%	\$12,055	8.3%	\$6,810	\$6,243	\$13,053	\$0		43.2%	\$9,754	\$8,942	\$18,697	
02	40 REACH 02 Demolition of Bldgs/Structur	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0		0.0%	\$0	\$0	\$0	
02	40 REACH 02 Floodproofing Structures	\$9,160	\$8,397	91.7%	\$17,557	8.3%	\$9,918	\$9,092	\$19,010	\$0	-	43.2%	\$14,206	\$13,024	\$27,230	
02	40 REACH 03 Demolition of Bldgs/Structur	\$2,199	\$1,556	70.7%	\$3,756	8.3%	\$2,381	\$1,685	\$4,066	\$0		43.2%	\$3,411	\$2,413	\$5,825	
02	40 REACH 03 Floodproofing Structures	\$139,487	\$127,877	91.7%	\$267,364	8.3%	\$151,031	\$138,460	\$289,491	\$0	\$289,491	43.2%	\$216,336	\$198,330	\$414,666	
02	40 REACH 04 Demolition of Bldgs/Structur	\$1,161	\$821	70.7%	\$1,982	8.3%	\$1,257	\$889	\$2,146	\$0	\$2,146	43.2%	\$1,801	\$1,274	\$3,075	
02	40 REACH 04 Floodproofing Structures	\$20,079	\$18,408	91.7%	\$38,487	8.3%	\$21,741	\$19,931	\$41,672	\$0	\$41,672	43.2%	\$31,142	\$28,550	\$59,692	
02	65 REACH 01 Demolition of Bldgs/Structur	\$63	\$45	70.7%	\$108	8.3%	\$69	\$49	\$117	\$0	\$117	172.1%	\$187	\$132	\$319	
02	65 REACH 01 Floodproofing Structures	\$714	\$655	91.7%	\$1,369	8.3%	\$773	\$709	\$1,482	\$0	\$1,482	172.1%	\$2,104	\$1,929	\$4,033	
02	65 REACH 02 Demolition of Bldgs/Structur	\$722	\$511	70.7%	\$1,233	8.3%	\$782	\$553	\$1,335	\$0	\$1,335	172.1%	\$2,128	\$1,505	\$3,633	
02	65 REACH 02 Floodproofing Structures	\$43,276	\$39,674	91.7%	\$82,951	8.3%	\$46,858	\$42,958	\$89,816	\$0	\$89,816	172.1%	\$127,506	\$116,894	\$244,400	
02	65 REACH 03 Demolition of Bldgs/Structur	\$40	\$29	70.7%	\$69	8.3%	\$44	\$31	\$75	\$0	\$75	172.1%	\$119	\$84	\$203	
02	65 REACH 03 Floodproofing Structures	\$30,926	\$28,352	91.7%	\$59,279	8.3%	\$33,486	\$30,699	\$64,185	\$0	\$64,185	172.1%	\$91,119	\$83,535	\$174,655	
02	65 REACH 04 Demolition of Bldgs/Structur	\$3,817	\$2,701	70.7%	\$6,518	8.3%	\$4,133	\$2,924	\$7,057	\$0	\$7,057	172.1%	\$11,247	\$7,957	\$19,204	
02	65 REACH 04 Floodproofing Structures	\$6,642	\$6,089	91.7%	\$12,731	8.3%	\$7,192	\$6,593	\$13,785	\$0	\$13,785	172.1%	\$19,570	\$17,941	\$37,510	
02	90 REACH 01 Demolition of Bldgs/Structur	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0	0%	\$0	\$0	\$0	
02	90 REACH 01 Floodproofing Structures	\$16,552	\$15,174	91.7%	\$31,726	8.3%	\$17,922	\$16,430	\$34,352	\$0	\$34,352	417%	\$92,644	\$84,933	\$177,577	
02	90 REACH 02 Demolition of Bldgs/Structur	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0	0%	\$0	\$0	\$0	
02	90 REACH 02 Floodproofing Structures	\$10,307	\$9,450	91.7%	\$19,757	8.3%	\$11,160	\$10,232	\$21,392	\$0	\$21,392	417%	\$57,692	\$52,890	\$110,582	
02	90 REACH 03 Demolition of Bldgs/Structur	\$26,403	\$18,680	70.7%	\$45,082	8.3%	\$28,588	\$20,225	\$48,813	\$0	\$48,813	417%	\$147,779	\$104,552	\$252,331	
02	90 REACH 03 Floodproofing Structures	\$54,279	\$49,761	91.7%	\$104,040	8.3%	\$58,771	\$53,879	\$112,650	\$0	\$112,650	417%	\$303,805	\$278,519	\$582,323	
02	90 REACH 04 Demolition of Bldgs/Structur	\$14,336	\$10,142	70.7%	\$24,478	8.3%	\$15,522	\$10,982	\$26,504	\$0	\$26,504	417%	\$80,239	\$56,768	\$137,007	
02	90 REACH 04 Floodproofing Structures	\$6,180	\$5,666	91.7%	\$11,846	8.3%	\$6,692	\$6,135	\$12,826	\$0	\$12,826	417%	\$34,591	\$31,712	\$66,303	
02	15 REACH 01 Demolition of Bldgs/Structur	\$11,262	\$7,967	70.7%	\$19,229	8.3%	\$12,194	\$8,627	\$20,821	\$0	\$20,821	884%	\$120,033	\$84,922	\$204,955	
02	15 REACH 01 Floodproofing Structures	\$10,972	\$10,059	91.7%	\$21,031	8.3%	\$11,880	\$10,891	\$22,772	\$0	\$22,772	884%	\$116,948	\$107,214	\$224,161	
02	15 REACH 02 Demolition of Bldgs/Structur	\$621	\$439	70.7%	\$1,060	8.3%	\$672	\$475	\$1,147	\$0	\$1,147	884%	\$6,615	\$4,680	\$11,295	
02	15 REACH 02 Floodproofing Structures	\$3,464	\$3,176	91.7%	\$6,640	8.3%	\$3,751	\$3,439	\$7,189	\$0	\$7,189	884%	\$36,923	\$33,849	\$70,772	
02	15 REACH 03 Demolition of Bldgs/Structur	\$29	\$20	70.7%	\$49	8.3%	\$31	\$22	\$53	\$0	\$53	884%	\$304	\$215	\$520	
02	15 REACH 03 Floodproofing Structures	\$30,456	\$27,921	91.7%	\$58,376	8.3%	\$32,976	\$30,231	\$63,208	\$0	\$63,208	884%	\$324,613	\$297,595	\$622,207	
02	15 REACH 04 Demolition of Bldgs/Structur	\$8,031	\$5,682	70.7%	\$13,712	8.3%	\$8,695	\$6,152	\$14,847	\$0	\$14,847	884%	\$85,595	\$60,557	\$146,152	
02	15 REACH 04 Floodproofing Structures	\$3,334	\$3,057	91.7%	\$6,391	8.3%	\$3,610	\$3,310	\$6,920	\$0	\$6,920	884%	\$35,540	\$32,582	\$68,122	

PREPARED:

8/4/2023

	CONSTRUCTION ESTIMATE TOTALS:	\$461,793	\$408,776		\$870,569	8.3%	\$500,011	\$442,606	\$942,618	\$0	\$942,618	291.5%	\$1,975,486	\$1,714,586	\$3,690,0
)1	40 LANDS AND DAMAGES	\$0	\$0	25.0%	\$0	0.0%	\$0	\$0	\$0	\$0	\$0	0.0%	\$0	\$0	
)1	65 LANDS AND DAMAGES	\$0	\$0	25.0%	\$0	0.0%	\$0	\$0	\$0	\$0	\$0	0.0%	\$0	\$0	
)1	90 LANDS AND DAMAGES	\$0	\$0	25.0%	\$0	0.0%	\$0	\$0	\$0	\$0	\$0	0.0%	\$0	\$0	
)1	15 LANDS AND DAMAGES	\$0	\$0	25.0%	\$0	0.0%	\$0	\$O	\$0	\$0	\$0	0.0%	\$0	\$0	
80	40 PLANNING, ENGINEERING & DESIGN	\$25,560	\$14,320	56.0%	\$39,879	7.4%	\$27,452	\$15,380	\$42,831	\$0	\$42,831	11.3%	\$30,552	\$17,117	\$47,
80	65 PLANNING, ENGINEERING & DESIGN	\$12,284	\$6,882	56.0%	\$19,166	7.4%	\$13,193	\$7,391	\$20,584	\$0	\$20,584	86.3%	\$24,578	\$13,770	\$38,
80	90 PLANNING, ENGINEERING & DESIGN	\$18,248	\$10,223	56.0%	\$28,472	7.4%	\$19,599	\$10,980	\$30,579	\$0	\$30,579	203.4%	\$59,460	\$33,312	\$92
80	15 PLANNING, ENGINEERING & DESIGN	\$9,714	\$5,442	56.0%	\$15,156	7.4%	\$10,433	\$5,845	\$16,278	\$0	\$16,278	386.6%	\$50,770	\$28,444	\$79.
81	40 CONSTRUCTION MANAGEMENT	\$13,004	\$8,204	63.1%	\$21,208	7.4%	\$13,967	\$8,811	\$22,778	\$0	\$22,778	35.5%	\$18,922	\$11,938	\$30,
51 1	65 CONSTRUCTION MANAGEMENT	\$6,250	\$3,943	63.1%	\$10,192	7.4%	\$6,712	\$4,235	\$10,947	\$0	\$10,947	123.3%	\$14,985	\$9,454	\$24,
B1	90 CONSTRUCTION MANAGEMENT	\$9,284	\$5,857	63.1%	\$15,141	7.4%	\$9,971	\$6,291	\$16,262	\$0	\$16,262	266.3%	\$36,522	\$23,041	\$59,
1	15 CONSTRUCTION MANAGEMENT	\$4,942	\$3,118	63.1%	\$8,060	7.4%	\$5,308	\$3,349	\$8,657	\$0	\$8,657	586.4%	\$36,432	\$22,984	\$59
	PROJECT COST TOTALS:	\$561,079	\$466,765	83.2%	\$1,027,844	Ì	\$606,646	\$504,888	\$1,111,533	\$0	\$1,111,533	270.9%	\$2,247,708	\$1,874,646	\$4,122
		CHIEF, CO	ST ENGIN	FERING											
					, , , , , , , , , , , , , , , , , , , ,					ESTIMAT	ED TOTAL	. PROJEC	CT COST:		\$4,122,3
				-											
		PROJECT	MANAGE	۲, XXX											
				·											
		CHIEF, RE		·											
			AL ESTAT	E, xxx											
		CHIEF, RE CHIEF, PL	AL ESTAT	E, xxx											
		CHIEF, RE	AL ESTAT	E, xxx											
		CHIEF, RE CHIEF, PL	AL ESTAT ANNING, X	E, xxx xxx G, xxx											
		CHIEF, RE CHIEF, PL CHIEF, EN	AL ESTAT ANNING, X GINEERIN PERATIONS	E, XXX XXX G, XXX S, XXX	x										
		CHIEF, RE CHIEF, PL CHIEF, EN CHIEF, OP CHIEF, CO	AL ESTAT	E, XXX XXX G, XXX S, XXX TION, XX	x										
		CHIEF, RE CHIEF, PL CHIEF, EN CHIEF, OP	AL ESTAT	E, XXX XXX G, XXX S, XXX TION, XX	x										
		CHIEF, RE CHIEF, PL CHIEF, EN CHIEF, OP CHIEF, CO	AL ESTAT	E, XXX XXX G, XXX S, XXX TON, XX NG,XXX	X										
		CHIEF, RE CHIEF, PL CHIEF, EN CHIEF, OP CHIEF, CO CHIEF, CO	AL ESTAT ANNING, x GINEERIN PERATIONS ONSTRUCT ONTRACTIN M-PB, xxxx	E, XXX XXX G, XXX S, XXX TON, XX NG,XXX	x										
		CHIEF, RE CHIEF, PL CHIEF, EN CHIEF, OP CHIEF, CO CHIEF, CO CHIEF, PM	AL ESTAT ANNING, x GINEERIN PERATIONS ONSTRUCT ONTRACTIN M-PB, xxxx	E, xxx xx G, xxx S, xxx TON, xx NG,xxx	X	COST SUM	MARY ****								
CT:		CHIEF, RE CHIEF, PL CHIEF, EN CHIEF, OP CHIEF, CO CHIEF, CO CHIEF, PM	AL ESTAT ANNING, x GINEERIN PERATIONS ONSTRUCT ONTRACTIN M-PB, xxxx	E, xxx xx G, xxx S, xxx TON, xx NG,xxx		COST SUM	MARY ****		DISTRICT:	SWT				PREPARED:	8/4/2023

Printed:12/22/2023 Page 2 of 2

PROJECT: SFWS PROJECT NOP2 xxxxxx LOCATION: San Francisco, CA

DISTRICT: SWT POC: CHIEF, COST ENGINEERING, xxx

This Estimate reflects the scope and schedule in report;

Alternatives Analysis

Alternative B High Curve - Post DQC and Post ARA

Civil W	Vorks Work Breakdown Structure	ESTIMATED COST							CT FIRST COST nt Dollar Basis)		TOTAL PROJECT COST (FULLY FUNDED)				
								Program Year Effective Pric	(Budget EC): e Level Date:	2026 1 OCT 25					
										Spent Thru:	TOTAL				
WBS	Civil Works	COST	CNTG	CNTG	TOTAL	ESC	COST	CNTG	TOTAL	1-Oct-22	FIRST COST	INFLATED	COST	CNTG	FULL
NUMBER	Feature & Sub-Feature Description	<u>(\$K)</u>	<u>(\$K)</u>	<u>(%)</u>	<u>(\$K)</u>	<u>(%)</u>	<u>(\$K)</u>	<u>(\$K)</u>	<u>(\$K)</u>	<u>(\$K)</u>	<u>(\$K)</u>	<u>(%)</u>	<u>(\$K)</u>	<u>(\$K)</u>	<u>(\$K)</u>
Α	В	С	D	E	F	G	Н	Ι	J		K	L	М	N	0
02	40 REACH 01 Demolition of Bldgs/Structur	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0	0.0%	\$0	\$0	\$C
02	40 REACH 01 Floodproofing Structures	\$35,081	\$32,162	91.7%	\$67,243	8.3%	\$37,985	\$34,823	\$72,808	\$0	\$72,808	43.2%	\$54,409	\$49,881	\$104,290
02	40 REACH 02 Demolition of Bldgs/Structur	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0	0.0%	\$0	\$0	\$C
02	40 REACH 02 Floodproofing Structures	\$48,553	\$44,512	91.7%	\$93,065	8.3%	\$52,571	\$48,196	\$100,767	\$0	\$100,767	43.2%	\$75,303	\$69,035	\$144,338
02	40 REACH 03 Demolition of Bldgs/Structur	\$26,487	\$18,739	70.7%	\$45,226	8.3%	\$28,679	\$20,290	\$48,969	\$0	\$48,969	43.2%	\$41,080	\$29,063	\$70,143
02	40 REACH 03 Floodproofing Structures	\$256,325	\$234,991	91.7%	\$491,317	8.3%	\$277,539	\$254,439	\$531,978	\$0	\$531,978	43.2%	\$397,546	\$364,458	\$762,004
02	40 REACH 04 Demolition of Bldgs/Structur	\$14,594	\$10,325	70.7%	\$24,919	8.3%	\$15,802	\$11,179	\$26,981	\$0	\$26,981	43.2%	\$22,634	\$16,013	\$38,647
02	40 REACH 04 Floodproofing Structures	\$40,128	\$36,789	91.7%	\$76,917	8.3%	\$43,449	\$39,833	\$83,283	\$0	\$83,283	43.2%	\$62,237	\$57,057	\$119,294
02	65 REACH 01 Demolition of Bldgs/Structur	\$11,645	\$8,239	70.7%	\$19,884	8.3%	\$12,609	\$8,921	\$21,530	\$0	\$21,530	172.1%	\$34,311	\$24,275	\$58,586
02	65 REACH 01 Floodproofing Structures	\$13,197	\$12,099	91.7%	\$25,296	8.3%	\$14,289	\$13,100	\$27,389	\$0	\$27,389	172.1%	\$38,883	\$35,646	\$74,529
02	65 REACH 02 Demolition of Bldgs/Structur	\$261,070	\$184,703	70.7%	\$445,772	8.3%	\$282,676	\$199,989	\$482,665	\$0	\$482,665	172.1%	\$769,195	\$544,194	\$1,313,390
02	65 REACH 02 Floodproofing Structures	\$8,641	\$7,922	91.7%	\$16,563	8.3%	\$9,356	\$8,577	\$17,933	\$0	\$17,933	172.1%	\$25,459	\$23,340	\$48,799
02	65 REACH 03 Demolition of Bldgs/Structur	\$336,772	\$238,261	70.7%	\$575,033	8.3%	\$364,643	\$257,980	\$622,623	\$0	\$622,623	172.1%	\$992,239	\$701,994	\$1,694,233
02	65 REACH 03 Floodproofing Structures	\$66,616	\$61,071	91.7%	\$127,687	8.3%	\$72,129	\$66,126	\$138,255	\$0	\$138,255	172.1%	\$196,272	\$179,936	\$376,208
02	65 REACH 04 Demolition of Bldgs/Structur	\$67,219	\$47,556	70.7%	\$114,775	8.3%	\$72,782	\$51,492	\$124,274	\$0	\$124,274	172.1%	\$198,048	\$140,116	\$338,164
02	65 REACH 04 Floodproofing Structures	\$30,379	\$27,851	91.7%	\$58,230	8.3%	\$32,894	\$30,156	\$63,050	\$0	\$63,050	172.1%	\$89,508	\$82,058	\$171,566
02	90 REACH 01 Demolition of Bldgs/Structur	\$102,461	\$72,489	70.7%	\$174,950	8.3%	\$110,940	\$78,489	\$189,429	\$0	\$189,429	417%	\$573,485	\$405,732	\$979,217
02	90 REACH 01 Floodproofing Structures	\$27,545	\$25,252	91.7%	\$52,797	8.3%	\$29,824	\$27,342	\$57,166	\$0	\$57,166	417%	\$154,170	\$141,338	\$295,509
02	90 REACH 02 Demolition of Bldgs/Structur	\$286,333	\$202,576	70.7%	\$488,909	8.3%	\$310,030	\$219,342	\$529,372	\$0	\$529,372	417%	\$1,602,640	\$1,133,844	\$2,736,484
02	90 REACH 02 Floodproofing Structures	\$19,752	\$18,108	91.7%	\$37,860	8.3%	\$21,386	\$19,606	\$40,993	\$0	. ,	417%	\$110,553	\$101,352	\$211,905
02	90 REACH 03 Demolition of Bldgs/Structur	\$524,400	\$371,005	70.7%	\$895,406	8.3%	\$567,800	\$401,710	\$969,510	\$0	. ,	417%	\$2,935,132	\$2,076,562	\$5,011,694
02	90 REACH 03 Floodproofing Structures	\$67,957	\$62,301	91.7%	\$130,258	8.3%	\$73,581	\$67,457	\$141,039	\$0	. ,	417%	\$380,365	\$348,707	\$729,072
02	90 REACH 04 Demolition of Bldgs/Structur	\$72,127	\$51,029	70.7%	\$123,156	8.3%	\$78,096	\$55,252	\$133,348	\$0	. ,	417%	\$403,704	\$285,615	\$689,319
02	90 REACH 04 Floodproofing Structures	\$35,533	\$32,576	91.7%	\$68,108	8.3%	\$38,474	\$35,271	\$73,745	\$0	\$73,745	417%	\$198,882	\$182,329	\$381,211
02	15 REACH 01 Demolition of Bldgs/Structur	\$59,399	\$42,024	70.7%	\$101,423	8.3%	\$64,315	\$45,502	\$109,817	\$0	\$109,817	884%	\$633,108	\$447,915	\$1,081,023
02	15 REACH 01 Floodproofing Structures	\$22,098	\$20,258	91.7%	\$42,356	8.3%	\$23,926	\$21,935	\$45,862	\$0	. ,	884%	\$235,529	\$215,926	\$451,455
02	15 REACH 02 Demolition of Bldgs/Structur	\$150,809	\$106,695	70.7%	\$257,504	8.3%	\$163,290	\$115,525	\$278,816	\$0	\$278,816	884%	\$1,607,408	\$1,137,217	\$2,744,626
02	15 REACH 02 Floodproofing Structures	\$27,764	\$25,453	91.7%	\$53,216	8.3%	\$30,061	\$27,559	\$57,621	\$0	\$57,621	884%	\$295,920	\$271,290	\$567,210
02	15 REACH 03 Demolition of Bldgs/Structur	\$177,744	\$125,752	70.7%	\$303,496	8.3%	\$192,455	\$136,159	\$328,613	\$0	\$328,613	884%	\$1,894,499	\$1,340,330	\$3,234,829
02	15 REACH 03 Floodproofing Structures	\$67,594	\$61,968	91.7%	\$129,563	8.3%	\$73,188	\$67,097	\$140,285	\$0	\$140,285	884%	\$720,458	\$660,493	\$1,380,951
02	15 REACH 04 Demolition of Bldgs/Structur	\$52,569	\$37,191	70.7%	\$89,760	8.3%	\$56,919	\$40,269	\$97,189	\$0	\$97,189	884%	\$560,305	\$396,407	\$956,712
02	15 REACH 04 Floodproofing Structures	\$28,562	\$26,185	91.7%	\$54,746	8.3%	\$30,926	\$28,352	\$59,277	\$0	\$59,277	884%	\$304,428	\$279,090	\$583,518

PREPARED:

8/4/2023

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	CONSTRUCTION ESTIMATE TOTALS:	\$2,939,354	\$2,246,082	-	\$5,185,436	8.3%	\$3,182,616	\$2,431,968	\$5,614,584	\$0	\$5,614,584	387.1%	\$15,607,711	\$11,741,214	\$27,348,92
01	40 LANDS AND DAMAGES	\$0	\$0	25.0%	\$0	0.0%	\$0	\$0	\$0	\$0	\$0	0.0%	\$0	\$0	\$1
01	65 LANDS AND DAMAGES	\$0	\$0	25.0%	\$0	0.0%	\$0	\$0	\$0	\$0		0.0%	\$0	\$0	\$
01	90 LANDS AND DAMAGES	\$0	\$0	25.0%	\$0	0.0%	\$0	\$0	\$0	\$0		0.0%	\$0	\$0	\$
01	15 LANDS AND DAMAGES	\$0	\$0	25.0%	\$0	0.0%	\$0	\$0	\$0	\$0	\$0	0.0%	\$0	\$0	\$
30	40 PLANNING, ENGINEERING & DESIGN	\$60,017	\$33,624	56.0%	\$93,641	7.4%	\$64,459	\$36,113	\$100,572	\$0	\$100,572	11.3%	\$71,740	\$40,192	\$111,93
30	65 PLANNING, ENGINEERING & DESIGN	\$113,364	\$63,512	56.0%	\$176,876	7.4%	\$121,755	\$68,213	\$189,968	\$0	\$189,968	86.3%	\$226,821	\$127,076	\$353,89
30	90 PLANNING, ENGINEERING & DESIGN	\$161,895	\$90,701	56.0%	\$252,597	7.4%	\$173,878	\$97,415	\$271,293	\$0	\$271,293	203.4%	\$527,524	\$295,544	\$823,06
30	15 PLANNING, ENGINEERING & DESIGN	\$83,582	\$46,826	56.0%	\$130,408	7.4%	\$89,768	\$50,292	\$140,061	\$0	\$140,061	386.6%	\$436,843	\$244,740	\$681,58
31	40 CONSTRUCTION MANAGEMENT	\$30,535	\$19,264	63.1%	\$49,799	7.4%	\$32,795	\$20,690	\$53,485	\$0	\$53,485	35.5%	\$44,432	\$28,031	\$72,46
31	65 CONSTRUCTION MANAGEMENT	\$57,677	\$36,387	63.1%	\$94,064	7.4%	\$61,946	\$39,081	\$101,026	\$0	\$101,026	123.3%	\$138,297	\$87,250	\$225,54
31	90 CONSTRUCTION MANAGEMENT	\$82,368	\$51,965	63.1%	\$134,333	7.4%	\$88,464	\$55,811	\$144,275	\$0	\$144,275	266.3%	\$324,022	\$204,421	\$528,44
31	15 CONSTRUCTION MANAGEMENT	\$42,524	\$26,828	63.1%	\$69,352	7.4%	\$45,672	\$28,814	\$74,485	\$0	\$74,485	586.4%	\$313,469	\$197,763	\$511,23
	PROJECT COST TOTALS:	\$3,571,316	\$2,615,190	73.2%	\$6,186,505	<u> </u>	¢3 861 353	\$2,828,396	\$6,689,749	۵۵	\$6,689,749	358.3%	\$17,600,850	\$12,966,232	\$30,657,09
			OST ENGIN		G, XXX					ESTIMAT	ED TOTAL	_ PROJE	CT COST:		\$30,657,09
		PROJECI		≺, XXX											
		CHIEF, RE	EAL ESTAT	E, xxx											
		CHIEF, PL	_ANNING, x	XX											
			NGINEERIN												
				0,											
		CHIEF, OI	PERATION	S, xxx											
		CHIEF, CO	ONSTRUCT	ION, xx	x										
		CHIEF, CO	ONTRACTI	NG,xxx											
		CHIEF, P	M-PB, xxxx	C											
			·												
		CHIEF, DF	- 141, XXX												
				*	*** CONTRACT	COST SU	MMARY ****								
JECT:	SFWS								DISTRICT:	SWT				PREPARED:	8/4/2023

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PROJECT: SFWS PROJECT NOP2 xxxxxx LOCATION: San Francisco, CA

DISTRICT: SWT POC: CHIEF, COST ENGINEERING, xxx

This Estimate reflects the scope and schedule in report;

Alternatives Analysis

Alternative C Seismic - Post DQC and Post ARA

Civil W	Vorks Work Breakdown Structure	Structure ESTIMATED COST							CT FIRST COST nt Dollar Basis)		TOTAL PROJECT COST (FULLY FUNDED)				
								Program Year Effective Pric	(Budget EC): e Level Date:	2026 1 OCT 25	I				
										Spent Thru:	TOTAL				
WBS	Civil Works	COST	CNTG	CNTG	TOTAL	ESC	COST	CNTG	TOTAL	1-Oct-22	FIRST COST	INFLATED	COST	CNTG	FULL
NUMBER	Feature & Sub-Feature Description	<u>(\$K)</u>	<u>(\$K)</u>	(%)	<u>(\$K)</u>	(%)	<u>(\$K)</u>	<u>(\$K)</u>	<u>(\$K)</u>	<u>(\$K)</u>	<u>(\$K)</u>	_(%)_	<u>(\$K)</u>	<u>(\$K)</u>	<u>(\$K)</u>
Α	В	С	D	E	F	G	Н	I	J		к	L	М	N	0
02	40 Overall Structures Floodproofing Conc.	\$59,298	\$54,362	91.7%	\$113,660	8.3%	\$64,205	\$58,861	\$123,067	\$0	\$123,067	43.2%	\$91,968	\$84,313	\$176,281
02	40 Overall Utility Relocations	\$13,311	\$35,213	264.5%	\$48,524	8.3%	\$14,412	\$38,127	\$52,540	\$0		43.2%	\$20,644	\$54,613	\$75,257
10	40 Overall Seismic Ground Improvements	\$3,272,759	\$5,014,685	153.2%	\$8,287,444	8.3%	\$3,543,609	\$5,429,695	\$8,973,304	\$0		43.2%	\$5,075,863	\$7,777,490	\$12,853,353
10	40 Overall Seismic Transportation Corrido	\$348,888	\$284,360	81.5%	\$633,248	8.3%	\$377,761	\$307,893	\$685,655	\$0		43.2%	\$541,105	\$441,026	\$982,131
02	40 REACH 01 Utility Relocations	\$0	+_0 .,000 \$0 -		\$0 \$0	-	\$0	\$0 \$0	\$0	\$0		0.0%	\$0	\$0	\$C
02	40 REACH 01 Transportation Corridor	\$4,118	\$3,356	81.5%	\$7,474	8.3%	\$4,458	\$3,634	\$8,092	\$0	-	43.2%	\$6,386	\$5,205	\$11,591
02	40 REACH 01 Bridge Replacement	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	-	0.0%	\$0	\$0	\$C
06	40 REACH 01 Plantings/EWN	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0	0.0%	\$0	\$0	\$C
11	40 REACH 01 Berms/Fill	\$724	\$515	71.1%	\$1,239	8.3%	\$784	\$557	\$1,341	\$0	\$1,341	43.2%	\$1,123	\$799	\$1,921
10	40 REACH 01 Ground Improvement/DSM	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0	0.0%	\$0	\$0	\$C
10	40 REACH 01 Cantilever Walls/Pile Caps/	\$5,622	\$3,111	55.3%	\$8,734	8.3%	\$6,088	\$3,369	\$9,456	\$0	\$9,456	43.2%	\$8,720	\$4,825	\$13,545
11	40 REACH 01 Anchored Walls/T-Wall	\$18,023	\$15,089	83.7%	\$33,113	8.3%	\$19,515	\$16,338	\$35,853	\$0	\$35,853	43.2%	\$27,953	\$23,403	\$51,356
10	40 REACH 01 Combi-Wall (Offshore)	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0	0.0%	\$0	\$0	\$C
10	40 REACH 01 Wharf Replacement	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0	0.0%	\$0	\$0	\$C
10	40 REACH 01 Raise Piers	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0	0.0%	\$0	\$0	\$0
13	40 REACH 01 Pump Stations/Interior Drain	\$3,322	\$3,428	103.2%	\$6,751	8.3%	\$3,597	\$3,712	\$7,309	\$0	\$7,309	43.2%	\$5,152	\$5,317	\$10,470
10	40 REACH 01 Roller Gate/Vehicle Barriers	\$365	\$231	63.1%	\$596	8.3%	\$395	\$250	\$645	\$0	\$645	43.2%	\$566	\$358	\$924
10	40 REACH 01 Large Gates/Closure Struct	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0	0.0%	\$0	\$0	\$0
16	40 REACH 01 Armoring	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0	0.0%	\$0	\$0	\$0
02	40 REACH 01 Temp Raise/Relocate Repla	\$12,463	\$11,520	92.4%	\$23,983	8.3%	\$13,495	\$12,473	\$25,968	\$0	\$25,968	43.2%	\$19,330	\$17,867	\$37,197
02	40 REACH 01 Demolition of Bldgs/Structur	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0	0.0%	\$0	\$0	\$0
02	40 REACH 01 Floodproofing Structures	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0	0.0%	\$0	\$0	\$0
ALL	40 REACH 01 Remaining Construction Iter	າ \$7,587	\$5,676	74.8%	\$13,263	8.3%	\$8,215	\$6,146	\$14,361	\$0	\$14,361	43.2%	\$11,767	\$8,804	\$20,571
02	40 REACH 02 Utility Relocations	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0	0.0%	\$0	\$0	\$C
02	40 REACH 02 Transportation Corridor	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0	0.0%	\$0	\$0	\$C
02	40 REACH 02 Bridge Replacement	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0	0.0%	\$0	\$0	\$C
06	40 REACH 02 Plantings/EWN	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0	0.0%	\$0	\$0	\$C
11	40 REACH 02 Berms/Fill	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0	0.0%	\$0	\$0	\$C
10	40 REACH 02 Ground Improvement/DSM	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	÷ •	0.0%	\$0	\$0	\$C
10	40 REACH 02 Cantilever Walls/Pile Caps/	\$8,178	\$4,525	55.3%	\$12,703	8.3%	\$8,855	\$4,900	\$13,754	\$0	\$13,754	43.2%	\$12,683	\$7,018	\$19,702
11	40 REACH 02 Anchored Walls/T-Wall	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	-	0.0%	\$0	\$0	\$C
10	40 REACH 02 Combi-Wall (Offshore)	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0	0.0%	\$0	\$0	\$0

PREPARED:

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10 40 PEA-CH 02 Rear Piers 83 30 - 50 - - 53 50 50 50 55	10	40 REACH 02 Wharf Replacement	\$0	\$0 -		\$0	Ι	\$0	\$0	\$0	\$0	\$0
10 40 REACH 02 Plane factors/methods Barnel 54.476 54.489 54.989 55.921 50 59.927 10 40 REACH 02 Allor factors/vehicle Barnel 54.476 55.448 63.18 58.385 55.288 53.744 99.927 50 5		-	-									-
10 40 REACH 02 Agend StateValende Barriere 53.468 63.1% 83.38 8.3% 55.929 83.7.4 89.072 00 40 REACH 02 Large StateValoxue Statu 50					103.2%		8.3%			-		
10 40 PRACH 02 Large Gase/Closer Struct 50 80												
16 40 REACH 22 mm Rane Reflocate Registructure 50 50 50 50 50 50 02 40 REACH 22 mm Rane Reflocate Registructure 50					00.170		-					
02 40 RFACH 02 mmil Charmer Repair 50		_						• -		-		
O2 40 REACH 02 Demolition of BingsRundu \$30		5	-	•				-	-	-		-
Q2 40 REACH 02 Electroning Construction for S18,245 50 <			-						-	-		
ALL 40 REACH 20 Remaining Construction tem 59,039 57,212 74,8% \$16,661 8.3% \$7,008 \$18,245 \$50 02 40 REACH 03 UIF schearlans \$50		Ũ						-		-		
02 40 REACH 63 50 50 50 50 50 02 40 REACH 63 Stransportation Cornidor 57,219 \$\$5,844 \$\$15,104 \$\$3 \$\$7,817 \$\$6,371 \$\$14,488 \$\$0<					7/ 8%		- 8 3%					
D2 40 REACH 03 Transportation Corridor S7.219 \$5.884 81.5% \$13.104 8.3% \$7.87 \$6.371 \$14.188 \$0 \$14.188 02 40 REACH 03 Replacement S0		-			74.070		0.570					
D2 40 REACH 03 Bindge Replacement 50 50 - 50 - 50 50 50 66 40 REACH 03 Barms/Fill \$10,173 \$7,236 71.1% \$17,400 8.3% \$11,015 \$7,335 \$18,850 50 50 10 40 REACH 03 Ground Improvement/DSM \$0 \$0 \$0 - \$0		-	-		81 5%		- 8 3%			-		
OG 40 REACH 03 PenimgeEWN \$0 \$0 \$1 40 REACH 03 PenimgeEWN \$0 \$1.173 \$7.236 71.1% \$17.409 8.3% \$11.015 \$7.835 \$18.850 \$0 \$0 10 40 REACH 03 Genul Improvement/DSM \$0 \$0.153 \$10.23 \$11.40 REACH 03 Achiver Walls/Fle Caps/E \$85.861 \$5.375 \$5.3750 \$5.3750 \$5.3750 \$5.3750 \$5.3750 \$5.3750 \$5.3750 \$5.3750 \$5.3750 \$5.3750 \$5.3750 \$5.3751 \$5.3751 \$5.37510 \$5.37512 \$5.3751 \$5.37512 \$5.3753 \$5.390 \$5.390 \$5.390		-			01.570		0.370					
11 40 REACH 03 Bernu-Fill \$10,173 \$7,28 71,1% \$17,409 8.3% \$11,015 \$7,335 \$18,850 \$0 \$0 \$0 10 40 REACH 03 Ground Improvement/DSM 50 \$0		•	¥ -	•			-	-				
10 40 REACH 03 Ground Improvement/DSM \$0 50		-	-		71 10/2		- 8 3%		-	-		
10 40 REACH 03 Cantilever Valle/T-Wall \$6,581 \$3,641 \$5,3% \$10,222 8,3% \$7,125 \$3,9,33 \$11,068 \$0 \$11 40 REACH 03 Anchord Wall/T-Wall \$0					7 1.170	-	0.070					
11 40 REACH 03 Anchored Wall(Offshore) 50 50 - 50 - 50			-		55 3%		- 8 3%					
10 40 REACH 03 Combi-Wall (Offshore) 50 S0					55.570		0.070					
10 40 REACH 03 Wharf Replacement \$50,091 \$33,049 66.0% \$83,140 8.3% \$54,236 \$35,784 \$90,020 \$0 10 40 REACH 03 Ruise Piers \$0 \$0 50 50 50 50 57,706 \$76,128 \$153,335 50 \$153,335 10 40 REACH 03 Ruine Gates/Closure Structs \$10,879 \$6,870 63.1% \$17,749 8.3% \$11,779 \$7,438 \$19,218 \$0 \$10,218 10 40 REACH 03 Large Gates/Closure Structs \$0 \$0 50 - \$0 \$0 \$0 \$0 10 40 REACH 03 Temp Raise/Relocate Repla \$0 \$0 \$0 - \$0 <t< th=""><th></th><th></th><th>¥ -</th><th></th><th></th><th></th><th></th><th>-</th><th>-</th><th></th><th></th><th></th></t<>			¥ -					-	-			
10 40 REACH 03 Raise Piers 50 513.835 50 5153.835 50 5153.835 50 5153.835 50 5153.835 50 5153.835 50 5153.835 50 5153.835 50 5153.835 50 5153.835 50 5153.835 50 5153.835 50 5153.835 50 5153.835 50 5153.835 50 50 513.835 50 50 50 513.835 50<					66.0%		8.3%					-
13 40 REACH 03 Pump Stations/Interior Drain \$69,920 \$72,156 103.2% \$142,076 8.3% \$75,706 \$78,128 \$153,835 \$0 \$153,835 10 40 REACH 03 Coller Gate/Vehicle Barriers \$10,079 \$63,70 63,1% \$17,749 8.3% \$11,779 \$7,338 \$19,218 \$0					00.070	-	-			. ,		
10 40 REACH 03 Roller Gate/Vehicle Barriers \$10,879 \$6,870 63.1% \$17,749 8.3% \$11,779 \$7,438 \$19,218 \$0 \$19,218 10 40 REACH 03 Large Gates/Closure Struct \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 16 40 REACH 03 Temp Raise/Relocate Repts \$0 \$1,801 \$0 \$1,801 \$0 \$1,801 \$0 \$1,801 \$0 \$1,801 \$0 \$1,801 \$0 \$1,801 \$0 \$1,801 \$0 \$1,801 \$0 \$0 \$1,801 \$0 \$1,801 \$0 \$1,801 \$0 \$1,801 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 <th></th> <th></th> <th></th> <th></th> <th>103 2%</th> <th>1 -</th> <th>8.3%</th> <th></th> <th></th> <th>• -</th> <th></th> <th></th>					103 2%	1 -	8.3%			• -		
10 40 REACH 03 Large Gates/Closure Structs \$0 \$0 \$0 - \$0 - \$0 \$0 \$0 \$0 16 40 REACH 03 Armoring \$0 \$0 \$0 - \$0												
16 40 REACH 03 Armoring \$0 <th></th> <th></th> <th></th> <th></th> <th>00.170</th> <th></th> <th>-</th> <th></th> <th></th> <th></th> <th></th> <th></th>					00.170		-					
02 40 REACH 03 Temp Raise/Relocate Repla \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$1664 \$3.% \$10,505 \$7.46 \$1,801 \$0 \$13,801 02 40 REACH 03 Benaining Construction Iter \$14,209 \$14,309 91.7% \$29,918 \$3.3% \$16,900 \$15,494 \$32,394 \$0 \$32,394 02 40 REACH 03 Remaining Construction Iter \$14,279 \$10,683 74.8% \$24,961 \$3.% \$11,667 \$27,027 \$0 \$27,027 \$0 \$27,027 \$0 \$20 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$27,027 \$0 \$27,027 \$0 \$27,027 \$0 \$27,027 \$0		-	-	•			-	1 -	-	-	• -	
02 40 REACH 03 Demolition of Bidgs/Structures \$974 \$689 70.7% \$1.664 8.3% \$1.055 \$746 \$1.801 \$0 \$1.801 02 40 REACH 03 Floodproofing Structures \$15.609 \$14.309 91.7% \$29.918 8.3% \$16.900 \$15.494 \$32.394 \$0 \$32.394 ALL 40 REACH 04 Utility Relocations \$0		Ũ					-			-		
02 40 REACH 03 Floodproofing Structures \$15,609 \$14,309 91.7% \$29,918 8.3% \$16,900 \$15,494 \$32,394 \$0 \$32,394 ALL 40 REACH 03 Remaining Construction Item \$14,279 \$10,683 74.8% \$24,961 8.3% \$15,460 \$11,567 \$27,027 \$0 \$27,027 02 40 REACH 04 Utility Relocations \$0 </th <th></th> <th></th> <th></th> <th></th> <th>70.7%</th> <th></th> <th>8.3%</th> <th></th> <th></th> <th></th> <th></th> <th></th>					70.7%		8.3%					
ALL 40 REACH 03 Remaining Construction Item \$14,279 \$10,683 74.8% \$24,961 8.3% \$15,460 \$11,567 \$27,027 \$0 \$27,027 02 40 REACH 04 Utility Relocations \$0 \$0 \$0 - \$0 \$0 \$0 \$0 \$0 02 40 REACH 04 Transportation Corridor \$0 \$0 \$14.5% \$73,493 8.3% \$32,023 \$47,552 \$79,575 \$0 \$79,575 06 40 REACH 04 Plantings/EVN \$0 \$0 \$0 - \$0		-							-			
02 40 REACH 04 Utility Relocations \$0		· –										
02 40 REACH 04 Transportation Corridor \$0	02	Ũ					-					
02 40 REACH 04 Bridge Replacement \$29,576 \$43,917 148.5% \$73,493 8.3% \$32,023 \$47,552 \$79,575 \$0 \$0 \$0 06 40 REACH 04 Plantings/EWN \$0 <	02	-	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	
06 40 REACH 04 Plantings/EWN \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 11 40 REACH 04 Berms/Fill \$9,339 \$6,642 71.1% \$15,981 8.3% \$10,112 \$7,192 \$17,304 \$0 \$17,304 10 40 REACH 04 Ground Improvement/DSM \$0	02	-	\$29,576	\$43,917	148.5%	\$73,493	8.3%	\$32,023	\$47,552	\$79,575	\$0	\$79,575
10 40 REACH 04 Ground Improvement/DSM \$0<	06	40 REACH 04 Plantings/EWN					-				\$0	
10 40 REACH 04 Cantilever Walls/Pile Caps/C \$3,287 \$1,819 55.3% \$5,106 8.3% \$3,559 \$1,970 \$5,529 \$0 \$40,815 11 40 REACH 04 Anchored Walls/T-Wall \$20,517 \$17,177 83.7% \$37,695 8.3% \$22,215 \$18,599 \$40,815 \$0 \$40,815 10 40 REACH 04 Combi-Wall (Offshore) \$0<	11	40 REACH 04 Berms/Fill	\$9,339	\$6,642	71.1%	\$15,981	8.3%	\$10,112	\$7,192	\$17,304	\$0	\$17,304
11 40 REACH 04 Anchored Walls/T-Wall \$20,517 \$17,177 83.7% \$37,695 8.3% \$22,215 \$18,599 \$40,815 \$0 \$40,815 10 40 REACH 04 Combi-Wall (Offshore) \$0 </th <th>10</th> <th>40 REACH 04 Ground Improvement/DSM</th> <th>\$0</th> <th>\$0 -</th> <th></th> <th>\$0</th> <th>-</th> <th>\$0</th> <th>\$0</th> <th>\$0</th> <th>\$0</th> <th>\$0</th>	10	40 REACH 04 Ground Improvement/DSM	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0
10 40 REACH 04 Combi-Wall (Offshore) \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 10 40 REACH 04 Wharf Replacement \$170,499 \$112,490 66.0% \$282,989 8.3% \$184,609 \$121,799 \$306,409 \$0 \$306,409 10 40 REACH 04 Raise Piers \$0 <	10	40 REACH 04 Cantilever Walls/Pile Caps/C	\$3,287	\$1,819	55.3%	\$5,106	8.3%	\$3,559	\$1,970	\$5,529	\$0	\$5,529
10 40 REACH 04 Wharf Replacement \$170,499 \$112,490 66.0% \$282,989 8.3% \$184,609 \$121,799 \$306,409 \$0 10 40 REACH 04 Raise Piers \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 13 40 REACH 04 Pump Stations/Interior Drain \$68,529 \$70,721 103.2% \$139,249 8.3% \$74,200 \$76,574 \$150,774 \$0 \$150,774 \$0 \$10 \$10 40 REACH 04 Roller Gate/Vehicle Barriers \$0 \$0 \$0 \$10 \$10 40 REACH 04 Large Gates/Closure Structure \$0 <	11	40 REACH 04 Anchored Walls/T-Wall	\$20,517	\$17,177	83.7%	\$37,695	8.3%	\$22,215	\$18,599	\$40,815	\$0	\$40,815
10 40 REACH 04 Raise Piers \$0 \$0 \$0 \$0 \$0 \$0 13 40 REACH 04 Pump Stations/Interior Drain \$68,529 \$70,721 103.2% \$139,249 8.3% \$74,200 \$76,574 \$150,774 \$0 \$10 \$150,774 \$0 \$0 \$0 \$10 \$0 \$10 \$0 \$0 \$0 \$0 \$0 \$0 \$10 \$10 \$0 \$10 \$0 <	10	40 REACH 04 Combi-Wall (Offshore)	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0
13 40 REACH 04 Pump Stations/Interior Drain \$68,529 \$70,721 103.2% \$139,249 8.3% \$74,200 \$76,574 \$150,774 \$0 \$150,774 10 40 REACH 04 Roller Gate/Vehicle Barriers \$0 \$0 - \$0	10	40 REACH 04 Wharf Replacement	\$170,499	\$112,490	66.0%	\$282,989	8.3%	\$184,609	\$121,799	\$306,409	\$0	\$306,409
10 40 REACH 04 Roller Gate/Vehicle Barriers \$0 <	10	40 REACH 04 Raise Piers	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0
10 40 REACH 04 Large Gates/Closure Structure \$0 \$0 - \$0 \$0 \$0 \$0 16 40 REACH 04 Armoring \$0 \$0 - \$0 \$0 \$0 \$0 02 40 REACH 04 Temp Raise/Relocate Repla \$0 \$0 - \$0 \$0 \$0 \$0 02 40 REACH 04 Temp Raise/Relocate Repla \$0 \$0 - \$0 \$0 \$0 \$0 02 40 REACH 04 Demolition of Bldgs/Structur \$2,713 \$1,919 70.7% \$4,632 8.3% \$2,937 \$2,078 \$5,015 \$0 \$5,015 \$0 \$1,794 02 40 REACH 04 Floodproofing Structures \$864 \$793 91.7% \$1,657 8.3% \$936 \$858 \$1,794 \$0 \$1,794	13	40 REACH 04 Pump Stations/Interior Drain	\$68,529	\$70,721	103.2%	\$139,249	8.3%	\$74,200	\$76,574	\$150,774	\$0	\$150,774
16 40 REACH 04 Armoring \$0 \$0 - \$0 \$0 \$0 \$0 02 40 REACH 04 Temp Raise/Relocate Repla \$0 \$0 - \$0 \$0 \$0 \$0 02 40 REACH 04 Temp Raise/Relocate Repla \$0 \$0 - \$0 \$0 \$0 \$0 02 40 REACH 04 Demolition of Bldgs/Structur \$2,713 \$1,919 70.7% \$4,632 8.3% \$2,937 \$2,078 \$5,015 \$0 \$5,015 02 40 REACH 04 Floodproofing Structures \$864 \$793 91.7% \$1,657 8.3% \$936 \$858 \$1,794 \$0 \$1,794	10	40 REACH 04 Roller Gate/Vehicle Barriers	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0
02 40 REACH 04 Temp Raise/Relocate Repla \$0 \$0 - \$0 \$0 \$0 \$0 02 40 REACH 04 Demolition of Bldgs/Structur \$2,713 \$1,919 70.7% \$4,632 8.3% \$2,937 \$2,078 \$5,015 \$0 \$5,015 02 40 REACH 04 Floodproofing Structures \$864 \$793 91.7% \$1,657 8.3% \$936 \$858 \$1,794 \$0 \$1,794	10	40 REACH 04 Large Gates/Closure Struct	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0
02 40 REACH 04 Demolition of Bldgs/Structur \$2,713 \$1,919 70.7% \$4,632 8.3% \$2,937 \$2,078 \$5,015 \$0 \$5,015 02 40 REACH 04 Floodproofing Structures \$864 \$793 91.7% \$1,657 8.3% \$936 \$858 \$1,794 \$0 \$1,794		40 REACH 04 Armoring	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0
02 40 REACH 04 Floodproofing Structures \$864 \$793 91.7% \$1,657 8.3% \$936 \$858 \$1,794 \$0 \$1,794		40 REACH 04 Temp Raise/Relocate Repla	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0
		40 REACH 04 Demolition of Bldgs/Structur	\$2,713	\$1,919	70.7%	\$4,632	8.3%	\$2,937	\$2,078	\$5,015	\$0	\$5,015
ALL 40 REACH 04 Remaining Construction Item \$3,230 \$2,417 74.8% \$5,647 8.3% \$3,498 \$2,617 \$6,114 \$0 \$6,114		40 REACH 04 Floodproofing Structures	\$864	\$793	91.7%	\$1,657	8.3%	\$936	\$858	\$1,794	\$0	\$1,794
	ALL	40 REACH 04 Remaining Construction Ite	\$3,230	\$2,417	74.8%	\$5,647	8.3%	\$3,498	\$2,617	\$6,114	\$0	\$6,114

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0.0%	\$0	\$0	\$0
0.0%	\$0	\$0	\$0
43.2%	\$6,993	\$7,217	\$14,211
43.2%	\$8,492	\$5,363	\$13,855
0.0%	\$0	\$0	\$0
0.0%	\$0	\$0	\$0
0.0%	\$0	\$0	\$0
0.0%	\$0	\$0	\$0
0.0%	\$0	\$0	\$0
43.2%	\$14,950	\$11,185	\$26,135
0.0%	\$0	\$0	\$0
43.2%	\$11,197	\$9,126	\$20,323
0.0%	\$0	\$0	\$0
0.0%	\$0	\$0	\$0
43.2%	\$15,778	\$11,222	\$27,001
0.0%	\$0	\$0	\$0
43.2%	\$10,206	\$5,648	\$15,854
0.0%	\$0	\$0	\$0
0.0%	\$0	\$0	\$0
43.2%	\$77,688	\$51,256	\$128,945
0.0%	\$0	\$0	\$0
43.2%	\$108,442	\$111,910	\$220,352
43.2%	\$16,873	\$10,655	\$27,528
0.0%	\$0	\$0	\$0
0.0%	\$0	\$0	\$0
0.0%	\$0	\$0	\$0
43.2%	\$1,511	\$1,069	\$2,580
43.2%	\$24,208	\$22,193	\$46,401
43.2%	\$22,146	\$16,568	\$38,714
0.0%	\$0	\$0	\$0
0.0%	\$0	\$0	\$0
43.2%	\$45,870	\$68,113	\$113,983
0.0%	\$0	\$0	\$0
43.2%	\$14,484	\$10,302	\$24,786
0.0%	\$0	\$0	\$0
43.2%	\$5,098	\$2,821	\$7,919
43.2%	\$31,821	\$26,641	\$58,462
0.0%	\$0	\$0	\$0
43.2%	\$264,434	\$174,466	\$438,899
0.0%	\$0	\$0	\$0
43.2%	\$106,284	\$109,684	\$215,968
0.0%	\$0	\$0	\$0
0.0%	\$0	\$0	\$0
0.0%	\$0	\$0	\$0
0.0%	\$0	\$0	\$0
43.2%	\$4,207	\$2,976	\$7,184
43.2%	\$1,341	\$1,229	\$2,570
43.2%	\$5,010	\$3,748	\$8,758
	+ =, = . =	÷0,0	<i>tc</i> , <i>i cc</i>

**** TOTAL DOO LECT COST SUMMADY ****

	**** TOTAL PROJECT COST SUMMARY **** Printed I I													Printed:12/22/2023 Page 3 of 3	
	CONSTRUCTION ESTIMATE TOTALS:	\$4,268,560	\$5,863,807	-	\$10,132,367	8.3%	\$4,621,823	\$6,349,090	\$10,970,913	\$C	\$10,970,913	43.2%	\$6,620,294	\$9,094,431	\$15,714,725
01	40 LANDS AND DAMAGES Reach 01	\$2,679	\$1,340	50.0%	\$4,019	8.3%	\$2,901	\$1,450	\$4,351	\$0	\$4,351	7.3%	\$3,114	\$1,557	\$4,670
01	40 LANDS AND DAMAGES Reach 02	\$0	\$0 \$0	50.0%	\$0	0.0%	¢2,001 \$0	\$0	¢1,001 \$0	\$0 \$0		0.0%	\$0	\$0	\$0
01	40 LANDS AND DAMAGES Reach 03	\$869	\$435	50.0%	\$1,304	8.3%	\$941	\$470	\$1,411	\$0	\$1,411	7.3%	\$1,010	\$505	\$1,515
01	40 LANDS AND DAMAGES Reach 04	\$16,310	\$8,155	50.0%	\$24,465	8.3%	\$17,660	\$8,830	\$26,490	\$C	\$26,490	7.3%	\$18,956	\$9,478	\$28,434
30	40 PLANNING, ENGINEERING & DESIGN	\$608,270	\$340,782	56.0%	\$949,051	7.4%	\$653,291	\$366,005	\$1,019,296	\$0	\$1,019,296	11.3%	\$727,083	\$407,347	\$1,134,430
31	40 CONSTRUCTION MANAGEMENT	\$309,471	\$195,241	63.1%	\$504,712	7.4%	\$332,376	\$209,692	\$542,068	\$C	\$542,068	35.5%	\$450,316	\$284,098	\$734,415
	PROJECT COST TOTALS:	\$5,206,159	\$6,409,759	123.1%	\$11,615,917		\$5,628,992	\$6,935,538	\$12,564,530	\$0	\$12,564,530	40.2%	\$7,820,773	\$9,797,416	\$17,618,189
			DST ENGIN MANAGE		G, xxx					ESTIMAT	ED TOTAL	. PROJEC	CT COST:		\$17,618,189
		PROJECT MANAGER, xxx CHIEF, REAL ESTATE, xxx													
		CHIEF, PL	ANNING, x	xxx											
		CHIEF, EN	IGINEERIN	NG, xxx											
		CHIEF, OF	PERATION	S, xxx											
		CHIEF, CO	ONSTRUCT	TION, xx	x										
		CHIEF, CO	ONTRACTI	NG,xxx											
		CHIEF, P	M-PB, xxx	x											
		CHIEF, DF	PM, xxx												
				ł		COST SU	MMARY ****								
PROJECT: LOCATION: This Estimate re	SFWS San Francisco, CA eflects the scope and schedule in report;	Alternatives Ana	lysis						DISTRICT: POC:	SWT CHIEF, COS	T ENGINEERIN	G, xxx		PREPARED:	8/4/2023

PROJECT: SFWS PROJECT NOP2 xxxxxx LOCATION: San Francisco, CA

DISTRICT: SWT POC: CHIEF, COST ENGINEERING, xxx

This Estimate reflects the scope and schedule in report;

Alternatives Analysis

Alternative D Seismic - Post DQC and Post ARA

Civil W	Vorks Work Breakdown Structure	ESTIMATED COST				PROJECT FIRST COST (Constant Dollar Basis)						TOTAL PROJECT COST (FULLY FUNDED)			
								Program Year Effective Pric	(Budget EC): e Level Date:	2026 1 OCT 25	I				
										Spent Thru:	TOTAL				
WBS	Civil Works	COST	CNTG	CNTG	TOTAL	ESC	COST	CNTG	TOTAL	1-Oct-22	FIRST COST	INFLATED	COST	CNTG	FULL
<u>NUMBER</u>	Feature & Sub-Feature Description	<u>(\$K)</u>	<u>(\$K)</u>	(%)	<u>(\$K)</u>	_(%)	<u>(\$K)</u>	<u>(\$K)</u>	<u>(\$K)</u>	<u>(\$K)</u>	<u>(\$K)</u>	_(%)_	<u>(\$K)</u>	<u>(\$K)</u>	<u>(\$K)</u>
Α	В	C	D	E	F	G	Н	Ι	J		к	L	М	Ν	0
02	40 Overall Structures Floodproofing Conc.	\$59,298	\$54,362	91.7%	\$113,660	8.3%	\$64,205	\$58,861	\$123,067	\$0	\$123,067	43.2%	\$91,968	\$84,313	\$176,281
02	40 Overall Utility Relocations	\$13,311	\$35,213	264.5%	\$48,524	8.3%	\$14,412	\$38,127	\$52,540	\$0 \$0		43.2%	\$20,644	\$54,613	\$75,257
10	40 Overall Seismic Ground Improvements	\$3,272,759	\$5,014,685	153.2%	\$8,287,444	8.3%	\$3,543,609	\$5,429,695	\$8,973,304	\$0		43.2%	\$5,075,863	\$7,777,490	\$12,853,353
10	40 Overall Seismic Transportation Corrido	\$348,888	\$284,360	81.5%	\$633,248	8.3%	\$377,761	\$307,893	\$685,655	\$0		43.2%	\$541,105	\$441,026	\$982,131
02	40 REACH 01 Utility Relocations	\$0	+_0 .,000 \$0 -		\$0 \$0	-	\$0	\$0 \$0	\$0	\$0		0.0%	\$0	\$0	\$C
02	40 REACH 01 Transportation Corridor	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	-	0.0%	\$0	\$0	\$C
02	40 REACH 01 Bridge Replacement	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0	0.0%	\$0	\$0	\$C
06	40 REACH 01 Plantings/EWN	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0	0.0%	\$0	\$0	\$C
11	40 REACH 01 Berms/Fill	\$996	\$709	71.1%	\$1,705	8.3%	\$1,079	\$767	\$1,846	\$0	\$1,846	43.2%	\$1,545	\$1,099	\$2,645
10	40 REACH 01 Ground Improvement/DSM	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0	0.0%	\$0	\$0	\$0
10	40 REACH 01 Cantilever Walls/Pile Caps/	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0	0.0%	\$0	\$0	\$0
11	40 REACH 01 Anchored Walls/T-Wall	\$19,280	\$16,142	83.7%	\$35,422	8.3%	\$20,876	\$17,478	\$38,354	\$0	\$38,354	43.2%	\$29,903	\$25,035	\$54,938
10	40 REACH 01 Combi-Wall (Offshore)	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0	0.0%	\$0	\$0	\$0
10	40 REACH 01 Wharf Replacement	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0	0.0%	\$0	\$0	\$0
10	40 REACH 01 Raise Piers	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0	0.0%	\$0	\$0	\$0
13	40 REACH 01 Pump Stations/Interior Drain	\$3,322	\$3,428	103.2%	\$6,749	8.3%	\$3,596	\$3,711	\$7,308	\$0	\$7,308	43.2%	\$5,152	\$5,316	\$10,468
10	40 REACH 01 Roller Gate/Vehicle Barriers	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0	0.0%	\$0	\$0	\$0
10	40 REACH 01 Large Gates/Closure Struct	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0	0.0%	\$0	\$0	\$0
16	40 REACH 01 Armoring	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0	0.0%	\$0	\$0	\$0
02	40 REACH 01 Temp Raise/Relocate Repla	\$4,396	\$4,063	92.4%	\$8,459	8.3%	\$4,760	\$4,399	\$9,159	\$0	\$9,159	43.2%	\$6,818	\$6,302	\$13,119
02	40 REACH 01 Demolition of Bldgs/Structur	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0	0.0%	\$0	\$0	\$0
02	40 REACH 01 Floodproofing Structures	\$1,774	\$1,626	91.7%	\$3,400	8.3%	\$1,921	\$1,761	\$3,681	\$0	\$3,681	43.2%	\$2,751	\$2,522	\$5,273
ALL	40 REACH 01 Remaining Construction Iter	າ \$5,009	\$3,748	74.8%	\$8,757	8.3%	\$5,424	\$4,058	\$9,482	\$0	\$9,482	43.2%	\$7,769	\$5,813	\$13,582
02	40 REACH 02 Utility Relocations	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0	0.0%	\$0	\$0	\$0
02	40 REACH 02 Transportation Corridor	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0	0.0%	\$0	\$0	\$C
02	40 REACH 02 Bridge Replacement	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0	0.0%	\$0	\$0	\$C
06	40 REACH 02 Plantings/EWN	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0		0.0%	\$0	\$0	\$C
11	40 REACH 02 Berms/Fill	\$5,535	\$3,937	71.1%	\$9,472	8.3%	\$5,994	\$4,263	\$10,256	\$0	\$10,256	43.2%	\$8,585	\$6,106	\$14,691
10	40 REACH 02 Ground Improvement/DSM	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0		0.0%	\$0	\$0	\$C
10	40 REACH 02 Cantilever Walls/Pile Caps/	\$554	\$306	55.3%	\$860	8.3%	\$599	\$332	\$931	\$0		43.2%	\$859	\$475	\$1,334
11	40 REACH 02 Anchored Walls/T-Wall	\$18,617	\$15,587	83.7%	\$34,204	8.3%	\$20,158	\$16,877	\$37,035	\$0		43.2%	\$28,874	\$24,174	\$53,048
10	40 REACH 02 Combi-Wall (Offshore)	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0	0.0%	\$0	\$0	\$0

PREPARED:

8/4/2023

10	40 DEACH 02 What Deplesement	ድር	ድጋ		^	II	¢O	ድር	ድር		ድር
10	40 REACH 02 Wharf Replacement 40 REACH 02 Raise Piers	\$0 \$0	\$0 - \$0 -		\$0 \$0	-	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0
10	40 REACH 02 Rules Field 40 REACH 02 Pump Stations/Interior Drain	پ 0 \$4,509	\$0 - \$4,653	103.2%	پ و \$9,161	- 8.3%	پ 0 \$4,882	ەت \$5,038	ەت \$9,920	\$0 \$0	
10	40 REACH 02 Pump Stations/Intend Drain 40 REACH 02 Roller Gate/Vehicle Barriers	\$4,509 \$0	\$4,000 \$0 -	103.2%	ې ۵۹, ۱۵۱ \$0	0.3%	¢4,002 \$0	\$5,038 \$0	\$9,920 \$0	\$0 \$0	\$9,920 \$0
10		\$0 \$0	\$0 - \$0 -		\$0 \$0	-	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0
16	40 REACH 02 Large Gates/Closure Structu 40 REACH 02 Armoring	\$0 \$0	\$0 - \$0 -		\$0 \$0	-	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	
02	Ũ		\$0 - \$0 -		\$0 \$0	-	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 ©
02	40 REACH 02 Temp Raise/Relocate Repla	\$0 ¢0				-			-	\$0 \$0	\$0 \$0
02	40 REACH 02 Demolition of Bldgs/Structur	\$0 \$261	+ 0\$	01 70/	\$0 \$501	- 8.3%	\$0 ¢292	\$0 \$260	\$0 \$542	\$0 \$0	-
ALL	40 REACH 02 Floodproofing Structures	\$261 ¢5.007	\$240	91.7%	\$501 ¢0.005		\$283 ¢5.452	\$260	\$543 ¢0 522		\$543 ¢0 533
02	40 REACH 02 Remaining Construction Item		\$3,768	74.8%	\$8,805	8.3%	\$5,453	\$4,080	\$9,533	\$0 \$0	\$9,533
	40 REACH 03 Utility Relocations	\$0 \$0	\$0 -		\$0 \$0	-	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0
02	40 REACH 03 Transportation Corridor	\$0 \$0	\$0 -		\$0 \$0	-	\$0 \$0	\$0 ¢0	\$0 \$0	\$0	\$0 \$0
02 06	40 REACH 03 Bridge Replacement	\$0	\$0 -	00 40/	\$0 \$0	-	\$0 \$4 574	\$0 ¢000	\$0 ¢0 550	\$0 \$0	\$0 \$0,550
	40 REACH 03 Plantings/EWN	\$1,453	\$907	62.4%	\$2,360	8.3%	\$1,574	\$982	\$2,556	\$0 \$0	\$2,556
11	40 REACH 03 Berms/Fill	\$11,406	\$8,113	71.1%	\$19,519	8.3%	\$12,350	\$8,784	\$21,134	\$0 \$0	\$21,134
10	40 REACH 03 Ground Improvement/DSM	\$0	\$0 -	00/	\$0	-	\$0	\$0	\$0	\$0 \$0	\$0
10	40 REACH 03 Cantilever Walls/Pile Caps/C	\$280	\$155	55.3%	\$435	8.3%	\$303	\$168	\$471	\$0	\$471
11	40 REACH 03 Anchored Walls/T-Wall	\$12,958	\$10,848	83.7%	\$23,806	8.3%	\$14,030	\$11,746	\$25,776	\$0	\$25,776
10	40 REACH 03 Combi-Wall (Offshore)	\$0	\$0 -	00.00/	\$0	-	\$0	\$0	\$0	\$0	\$0
10	40 REACH 03 Wharf Replacement	\$29,312	\$19,339	66.0%	\$48,650	8.3%	\$31,737	\$20,939	\$52,677	\$0	\$52,677
10	40 REACH 03 Raise Piers	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0
13	40 REACH 03 Pump Stations/Interior Drain	\$69,918	\$72,154	103.2%	\$142,072	8.3%	\$75,704	\$78,126	\$153,830	\$0	\$153,830
10	40 REACH 03 Roller Gate/Vehicle Barriers	\$9,267	\$5,852	63.1%	\$15,118	8.3%	\$10,034	\$6,336	\$16,369	\$0	\$16,369
10	40 REACH 03 Large Gates/Closure Struct	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0
16	40 REACH 03 Armoring	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0
02	40 REACH 03 Temp Raise/Relocate Repla	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0
02	40 REACH 03 Demolition of Bldgs/Structur	\$69	\$49	70.7%	\$118	8.3%	\$75	\$53	\$128	\$0	\$128
02	40 REACH 03 Floodproofing Structures	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0
ALL	40 REACH 03 Remaining Construction Item	\$8,841	\$6,614	74.8%	\$15,455	8.3%	\$9,573	\$7,162	\$16,734	\$0	\$16,734
02	40 REACH 04 Utility Relocations	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0
02	40 REACH 04 Transportation Corridor	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0
02	40 REACH 04 Bridge Replacement	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0
06	40 REACH 04 Plantings/EWN	\$13,243	\$8,262	62.4%	\$21,505	8.3%	\$14,339	\$8,946	\$23,285	\$0	\$23,285
11	40 REACH 04 Berms/Fill	\$15,990	\$11,373	71.1%	\$27,363	8.3%	\$17,314	\$12,314	\$29,628	\$0	\$29,628
10	40 REACH 04 Ground Improvement/DSM	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0
10	40 REACH 04 Cantilever Walls/Pile Caps/C	\$11,533	\$6,382	55.3%	\$17,915	8.3%	\$12,487	\$6,910	\$19,397	\$0	\$19,397
11	40 REACH 04 Anchored Walls/T-Wall	\$5,765	\$4,826	83.7%	\$10,591	8.3%	\$6,242	\$5,226	\$11,467	\$0	\$11,467
10	40 REACH 04 Combi-Wall (Offshore)	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0
10	40 REACH 04 Wharf Replacement	\$170,489	\$112,483	66.0%	\$282,972	8.3%	\$184,598	\$121,792	\$306,391	\$0	\$306,391
10	40 REACH 04 Raise Piers	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0
13	40 REACH 04 Pump Stations/Interior Drain	\$68,526	\$70,718	103.2%	\$139,244	8.3%	\$74,197	\$76,571	\$150,768	\$0	\$150,768
10	40 REACH 04 Roller Gate/Vehicle Barriers	\$1,610	\$1,016	63.1%	\$2,626	8.3%	\$1,743	\$1,101	\$2,843	\$0	\$2,843
10	40 REACH 04 Large Gates/Closure Struct	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0
16	40 REACH 04 Armoring	\$3,117	\$1,661	53.3%	\$4,778	8.3%	\$3,375	\$1,799	\$5,173	\$0	\$5,173
02	40 REACH 04 Temp Raise/Relocate Repla	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0
02	40 REACH 04 Demolition of Bldgs/Structur	\$3,029	\$2,143	70.7%	\$5,172	8.3%	\$3,280	\$2,320	\$5,600	\$0	\$5,600
02	40 REACH 04 Floodproofing Structures	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0
ALL	40 REACH 04 Remaining Construction Item	\$3,949	\$2,954	74.8%	\$6,903	8.3%	\$4,276	\$3,199	\$7,475	\$0	\$7,475

0.00/	* 0	¢ 0	*
0.0%	\$0 \$0	\$0 \$0	\$0 ¢0
0.0%	\$0 ¢c.003	\$0 ¢7 016	\$0 \$14 200
43.2% 0.0%	\$6,993 ¢0	\$7,216 \$0	\$14,209 \$0
0.0%	\$0 \$0	\$0 \$0	\$0 \$0
0.0%			
0.0%	\$0 \$0	\$0 \$0	\$0 \$0
	\$0 ¢0	\$0 \$0	\$0 \$0
0.0%	\$0 \$106	\$0 ¢272	\$0 \$777
43.2%	\$406 \$7.840	\$372 ¢5 944	\$777 \$12.656
43.2%	\$7,812 ¢0	\$5,844	\$13,656
0.0%	\$0 \$0	\$0 \$0	\$0 \$0
0.0%	\$0 ¢0	\$0 \$0	\$0 \$0
0.0%	\$0 \$0	\$0 ¢1 400	\$0 \$0
43.2%	\$2,254	\$1,406	\$3,661
43.2%	\$17,690	\$12,582	\$30,272
0.0%	\$0	\$0	\$0 \$0
43.2%	\$434	\$240	\$674
43.2%	\$20,096	\$16,825	\$36,921
0.0%	\$0	\$0	\$0
43.2%	\$45,461	\$29,994	\$75,454
0.0%	\$0	\$0	\$0
43.2%	\$108,439	\$111,907	\$220,346
43.2%	\$14,372	\$9,076	\$23,448
0.0%	\$0	\$0	\$0
0.0%	\$0	\$0	\$0
0.0%	\$0	\$0	\$0
43.2%	\$107	\$76	\$183
0.0%	\$0	\$0	\$0
43.2%	\$13,712	\$10,258	\$23,970
0.0%	\$0	\$0	\$0
0.0%	\$0	\$0	\$0
0.0%	\$0	\$0	\$0
43.2%	\$20,539	\$12,814	\$33,353
43.2%	\$24,800	\$17,639	\$42,439
0.0%	\$0	\$0	\$0
43.2%	\$17,887	\$9,898	\$27,784
43.2%	\$8,940	\$7,485	\$16,425
0.0%	\$0	\$0	\$0
43.2%	\$264,418	\$174,455	\$438,874
0.0%	\$0	\$0	\$0
43.2%	\$106,280	\$109,680	\$215,960
43.2%	\$2,496	\$1,576	\$4,073
0.0%	\$0	\$0	\$0
43.2%	\$4,834	\$2,576	\$7,410
0.0%	\$0	\$0	\$0
43.2%	\$4,698	\$3,324	\$8,021
0.0%	\$0	\$0	\$0
43.2%	\$6,125	\$4,582	\$10,707

0	ol	\$0	\$0 -		\$0	Ι	\$0	\$0	\$0	\$0	\$0
02	90 Overall Utility Relocations	پ و \$13,311	φ0 - \$35,213	264.5%	پو \$48,524	8.3%	پن \$14,412	\$38,127	\$52,540	\$0 \$0	پ 0 \$52,540
02	90 REACH 01 Utility Relocations	\$0	¢00,210 \$0 -	204.070	40,024 \$0	0.070	\$0	\$00,127 \$0	¢02,040 \$0	\$0 \$1	\$1
02	90 REACH 01 Transportation Corridor	\$0 \$0	\$0 -		\$0 \$0		\$0 \$0	\$0 \$0	\$0 \$0	\$0	\$0
02	90 REACH 01 Bridge Replacement	\$0	\$0 -		\$0 \$0	_	\$0	\$0	\$0 \$0	\$0 \$0	\$0
06	90 REACH 01 Plantings/EWN	\$0	\$0 -		\$0 \$0	_	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0
11	90 REACH 01 Berms/Fill	\$4,672	\$3,323	71.1%	پو \$7,995	8.3%	پو \$5,058	\$3,598	\$8,656	\$0 \$0	φ0 \$8,656
10	90 REACH 01 Ground Improvement/DSM	\$0 \$0	\$0,520 \$0 -	7 1.170	φ7,555 \$0	0.070	\$0,000 \$0	ψ0,000 \$0	ψ0,000 \$0	\$0 \$0	\$0,000 \$0
10	90 REACH 01 Cantilever Walls/Pile Caps/C	\$1,819	- ₄₀ \$1,006	55.3%	⁴⁰ \$2,825	8.3%	پ و \$1,969	\$1,090	\$3,059	\$0 \$0	\$3,059
11	90 REACH 01 Anchored Walls/T-Wall	\$0 \$0	\$0 -	00.070	\$0	0.070	ψ1,505 \$0	ψ1,030 \$0	ψ0,000 \$0	\$0 \$0	\$0,000 \$0
10	90 REACH 01 Combi-Wall (Offshore)	\$0	\$0 -		\$0 \$0	_	\$0	\$0	\$0 \$0	\$0 \$0	\$0 \$0
10	90 REACH 01 Wharf Replacement	\$88,170	\$58,172	66.0%	\$146,342	8.3%	\$95,467	\$62,986	\$158,453	\$0 \$0	\$158,453
10	90 REACH 01 Raise Piers	\$00,170 \$0	\$0 -	00.070	\$0	-	φ30,407 \$0	φ02,000 \$0	¢100,400 \$0	\$0 \$0	\$0
13	90 REACH 01 Pump Stations/Interior Drain	\$21,963	\$22,665	103.2%	\$44,628	8.3%	\$23,781	\$24,541	\$48,322	\$0 \$0	\$48,322
10	90 REACH 01 Roller Gate/Vehicle Barriers	\$2 1,000 \$0	\$0 -	100.270	\$0	-	\$0	\$0	\$0	\$0 \$0	\$0
10	90 REACH 01 Large Gates/Closure Structu	\$0 \$0	\$0 -		\$0 \$0	-	\$0 \$0	\$0 \$0	\$0	\$0 \$0	\$0
16	90 REACH 01 Armoring	\$0	\$0 -		\$0 \$0	_	\$0	\$0 \$0	\$0	\$0 \$0	\$0
02	90 REACH 01 Temp Raise/Relocate Repla	\$62,594	\$57,857	92.4%	\$120,451	8.3%	\$67,774	\$62,645	\$130,419	\$0 \$0	\$130,419
02	90 REACH 01 Demolition of Bldgs/Structur	\$497	\$352	70.7%	\$848	8.3%	\$538	\$381	\$919	\$0	\$919
02	90 REACH 01 Floodproofing Structures	\$0	\$0 -	-	\$0	-	\$0	\$0	\$0	\$0	\$0
ALL	90 REACH 02 Remaining Construction Item		\$6,271	74.8%	\$14,653	8.3%	\$9,076	\$6,790	\$15,866	\$0	\$15,866
02	90 REACH 02 Utility Relocations	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0
02	90 REACH 02 Transportation Corridor	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0
02	90 REACH 02 Bridge Replacement	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0
06	90 REACH 02 Plantings/EWN	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0
11	90 REACH 02 Berms/Fill	\$4,316	\$3,069	71.1%	\$7,385	8.3%	\$4,673	\$3,323	\$7,996	\$0	\$7,996
10	90 REACH 02 Ground Improvement/DSM	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0
10	90 REACH 02 Cantilever Walls/Pile Caps/C	\$2,355	\$1,303	55.3%	\$3,658	8.3%	\$2,550	\$1,411	\$3,961	\$0	\$3,961
11	90 REACH 02 Anchored Walls/T-Wall	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0
10	90 REACH 02 Combi-Wall (Offshore)	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0
10	90 REACH 02 Wharf Replacement	\$282,616	\$186,462	66.0%	\$469,078	8.3%	\$306,005	\$201,893	\$507,898	\$0	\$507,898
10	90 REACH 02 Raise Piers	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0
10	90 REACH 02 Pump Stations/Interior Drain	\$53,443	\$55,152	103.2%	\$108,595	8.3%	\$57,866	\$59,717	\$117,583	\$0	\$117,583
10	90 REACH 02 Roller Gate/Vehicle Barriers	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0
10	90 REACH 02 Large Gates/Closure Struct	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0
16	90 REACH 02 Armoring	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0
02	90 REACH 02 Temp Raise/Relocate Repla	\$241,177	\$222,927	92.4%	\$464,104	8.3%	\$261,137	\$241,376	\$502,513	\$0	\$502,513
02	90 REACH 02 Demolition of Bldgs/Structur	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0
02	90 REACH 02 Floodproofing Structures	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0
ALL	90 REACH 02 Remaining Construction Item		\$3,290	74.8%	\$7,689	8.3%	\$4,762	\$3,563	\$8,325	\$0	\$8,325
02	90 REACH 03 Utility Relocations	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0
02	90 REACH 03 Transportation Corridor	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0
02	90 REACH 03 Bridge Replacement	\$128,162	\$190,309	148.5%	\$318,472	8.3%	\$138,769	\$206,059	\$344,828	\$0 \$0	\$344,828
06	90 REACH 03 Plantings/EWN	\$0	\$0 -	- 4 4 64	\$0	-	\$0	\$0	\$0	\$0 \$0	\$0
11	90 REACH 03 Berms/Fill	\$8,953	\$6,368	71.1%	\$15,322	8.3%	\$9,695	\$6,895	\$16,590	\$0 \$0	\$16,590
10	90 REACH 03 Ground Improvement/DSM	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0 \$0	\$0
10 11	90 REACH 03 Cantilever Walls/Pile Caps/C		\$1,493 \$0	55.3%	\$4,190 ¢0	8.3%	\$2,920 ¢0	\$1,616	\$4,537	\$0 ©0	\$4,537 ¢0
11	90 REACH 03 Anchored Walls/T-Wall	\$0	\$0 -		\$0	I -	\$0	\$0	\$0	\$0	\$0

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0.0%	\$0	\$0	\$0
417%	\$74,502	\$197,091	\$271,593
0%	\$0	\$0	\$1
0%	\$0	\$0	\$0
0%	\$0	\$0	\$0
0%	\$0	\$0	\$0
417%	\$26,149	\$18,598	\$44,747
0%	\$0	\$0	\$0
417%	\$10,180	\$5,633	\$15,813
0%	\$0	\$0	\$0
0%	\$0	\$0	\$0
417%	\$493,497	\$325,595	\$819,092
0%	\$0	\$0	\$0
417%	\$122,929	\$126,861	\$249,790
0%	\$0	\$0	\$0
0%	\$0	\$0	\$0
0%	\$0	\$0	\$0
417%	\$350,344	\$323,834	\$674,178
417%	\$2,781	\$1,968	\$4,749
0%	\$0	\$0	\$0
417%	\$46,916	\$35,100	\$82,016
0%	\$0	\$0	\$0
0%	\$0	\$0	\$0
0%	\$0	\$0	\$0
0%	\$0	\$0	\$0
417%	\$24,155	\$17,180	\$41,335
0%	\$0	\$0	\$0
417%	\$13,180	\$7,293	\$20,473
0%	\$0	\$0	\$0
0%	\$0	\$0	\$0
417%	\$1,581,833	\$1,043,646	\$2,625,479
0%	\$0	\$0	\$0
417%	\$299,126	\$308,694	\$607,820
0%	\$0	\$0	\$0
0%	\$0	\$0	\$0
0%	\$0	\$0	\$0
417%	\$1,349,895	\$1,247,748	\$2,597,643
0%	\$0	\$0	\$0
0%	\$0	\$0	\$0
417%	\$24,617	\$18,417	\$43,034
0%	\$0	\$0	\$0
0%	\$0	\$0	\$0
417%	\$717,340	\$1,065,184	\$1,782,524
0%	\$0	\$0	\$0
417%	\$50,114	\$35,643	\$85,757
0%	\$0	\$0	\$0
417%	\$15,097	\$8,354	\$23,451
0%	\$0	\$0	\$0
	•		+ - II

10		¢0	¢o		# 0	1	¢0	¢o	¢0		¢o
10	90 REACH 03 Combi-Wall (Offshore)	\$0 \$0	\$0 -	00.00/	\$0	-	\$0 \$00,000	\$0	\$0	\$0 \$0	\$0 #1.10.0.10
10	90 REACH 03 Wharf Replacement	\$83,104	\$54,830	66.0%	\$137,934	8.3%	\$89,982	\$59,367	\$149,349	\$0 \$0	\$149,349
10	90 REACH 03 Raise Piers	\$0	\$0 -	100.00/	\$0	-	\$0	\$0	\$0	\$0 \$0	\$0
13	90 REACH 03 Pump Stations/Interior Drain	\$76,870	\$79,329	103.2%	\$156,199	8.3%	\$83,232	\$85,894	\$169,126	\$0	\$169,126
10	90 REACH 03 Roller Gate/Vehicle Barriers	\$0	\$0 -		\$0 \$0	-	\$0	\$0	\$0	\$0	\$0
10	90 REACH 03 Large Gates/Closure Struct		\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0
16	90 REACH 03 Armoring	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0
02	90 REACH 03 Temp Raise/Relocate Repla	\$94,853	\$87,676	92.4%	\$182,529	8.3%	\$102,703	\$94,932	\$197,635	\$0	\$197,635
02	90 REACH 03 Demolition of Bldgs/Structur	\$341	\$241	70.7%	\$582	8.3%	\$369	\$261	\$630	\$0	\$630
02	90 REACH 03 Floodproofing Structures	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0
ALL	90 REACH 03 Remaining Construction Iter		\$4,647	74.8%	\$10,857	8.3%	\$6,725	\$5,031	\$11,756	\$0	\$11,756
02	90 REACH 04 Utility Relocations	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0
02	90 REACH 04 Transportation Corridor	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0
02	90 REACH 04 Bridge Replacement	\$72,949	\$108,322	148.5%	\$181,271	8.3%	\$78,986	\$117,287	\$196,273	\$0	\$196,273
06	90 REACH 04 Plantings/EWN	\$7,149	\$4,460	62.4%	\$11,609	8.3%	\$7,741	\$4,829	\$12,570	\$0	\$12,570
11	90 REACH 04 Berms/Fill	\$4,864	\$3,459	71.1%	\$8,323	8.3%	\$5,266	\$3,746	\$9,012	\$0	\$9,012
10	90 REACH 04 Ground Improvement/DSM	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0
10	90 REACH 04 Cantilever Walls/Pile Caps/	\$5,076	\$2,809	55.3%	\$7,884	8.3%	\$5,496	\$3,041	\$8,537	\$0	\$8,537
11	90 REACH 04 Anchored Walls/T-Wall	\$2,482	\$2,078	83.7%	\$4,559	8.3%	\$2,687	\$2,250	\$4,936	\$0	\$4,936
10	90 REACH 04 Combi-Wall (Offshore)	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0
10	90 REACH 04 Wharf Replacement	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0
10	90 REACH 04 Raise Piers	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0
13	90 REACH 04 Pump Stations/Interior Drain	\$201,326	\$207,766	103.2%	\$409,092	8.3%	\$217,988	\$224,961	\$442,949	\$0	\$442,949
10	90 REACH 04 Roller Gate/Vehicle Barriers	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0
10	90 REACH 04 Large Gates/Closure Struct	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0
16	90 REACH 04 Armoring	\$525	\$280	53.3%	\$805	8.3%	\$569	\$303	\$872	\$0	\$872
02	90 REACH 04 Temp Raise/Relocate Repla	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0
02	90 REACH 04 Demolition of Bldgs/Structur	\$374	\$265	70.7%	\$639	8.3%	\$405	\$287	\$692	\$0	\$692
02	90 REACH 04 Floodproofing Structures	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0
ALL	90 REACH 04 Remaining Construction Iter	າ \$2,920	\$2,185	74.8%	\$5,105	8.3%	\$3,162	\$2,366	\$5,528	\$0	\$5,528
				_							
	CONSTRUCTION ESTIMATE TOTALS:	\$5,692,865	\$7,206,255		\$12,899,120	8.3%	\$6,164,004	\$7,802,640	\$13,966,644	\$0	\$13,966,645
01	40 LANDS AND DAMAGES Reach 01	\$4,094	\$2,047	50.0%	\$6,141	8.3%	\$4,433	\$2,216	\$6,649	\$0	\$6,649
01	40 LANDS AND DAMAGES Reach 02	\$0	\$0	50.0%	\$0	0.0%	\$0	\$0	\$0	\$0	\$0
01	40 LANDS AND DAMAGES Reach 03	\$3,252	\$1,626	50.0%	\$4,878	8.3%	\$3,521	\$1,761	\$5,282	\$0	\$5,282
01	40 LANDS AND DAMAGES Reach 04	\$57,493	\$28,747	50.0%	\$86,240	8.3%	\$62,251	\$31,126	\$93,377	\$0	\$93,377
01	90 LANDS AND DAMAGES Reach 01	\$0	\$0	50.0%	\$0	0.0%	\$0	\$0	\$0	\$0	\$0
01	90 LANDS AND DAMAGES Reach 02	\$0	\$0	50.0%	\$0	0.0%	\$0	\$0	\$0	\$0	\$0
01	90 LANDS AND DAMAGES Reach 03	\$2,302	\$1,151	50.0%	\$3,453	8.3%	\$2,493	\$1,246	\$3,739	\$0	\$3,739
01	90 LANDS AND DAMAGES Reach 04	\$5,414	\$2,707	50.0%	\$8,121	8.3%	\$5,862	\$2,931	\$8,793	\$0	\$8,793
30	40 PLANNING, ENGINEERING & DESIGN	¢500 112	4335 6E1	56 00/	¢021 761	7 /0/	\$643,456	¢360 105	¢1 002 051	¢0	¢1 002 051
30 30		\$599,113 \$212,121	\$335,651 \$118,840	56.0%	\$934,764 \$330.061	7.4%		\$360,495 \$127,636	\$1,003,951 \$255,457	\$0 \$0	\$1,003,951 \$255,457
20	90 PLANNING, ENGINEERING & DESIGN	\$212,121	\$118,840	56.0%	\$330,961	7.4%	\$227,821	\$127,636	\$355,457	\$0	\$355,457
31	40 CONSTRUCTION MANAGEMENT	\$304,812	\$192,302	63.1%	\$497,113	7.4%	\$327,373	\$206,535	\$533,908	\$0	\$533,908
31	90 CONSTRUCTION MANAGEMENT	\$107,921	\$68,086	63.1%	\$176,007	7.4%	\$115,909	\$73,125	\$189,034	\$0	\$189,034

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			r age r er e
0%	\$0	\$0	\$0
417%	\$465,142	\$306,887	\$772,029
0%	\$0	\$0	\$0
417%	\$430,250	\$444,013	\$874,263
0%	\$0	\$0	\$0
0%	\$0	\$0	\$0
0%	\$0	\$0	\$0
417%	\$530,904	\$490,731	\$1,021,635
417%	\$1,908	\$1,350	\$3,258
0%	\$0	\$0	\$0
417%	\$34,762	\$26,007	\$60,769
0%	\$0	\$0	\$0
0%	\$0	\$0	\$0
417%	\$408,302	\$606,291	\$1,014,594
417%	\$40,013	\$24,965	\$64,978
417%	\$27,223	\$19,363	\$46,586
0%	\$0	\$0	\$0
417%	\$28,409	\$15,720	\$44,129
417%	\$13,889	\$11,628	\$25,518
0%	\$0	\$0	\$0
0%	\$0	\$0	\$0
0%	\$0	\$0	\$0
417%	\$1,126,846	\$1,162,892	\$2,289,738
0%	\$0	\$0	\$0
0%	\$0	\$0	\$0
417%	\$2,940	\$1,567	\$4,507
0%	\$0	\$0	\$0
417%	\$2,094	\$1,481	\$3,575
0%	\$0	\$0	\$0
417%	\$16,345	\$12,229	\$28,574
407.00/		¢10,000,075	
127.3%	\$14,852,310	\$16,896,075	\$31,748,386
7.3%	\$4,758	\$2,379	\$7,137
0.0%	\$0	\$0	\$0
7.3%	\$3,780	\$1,890	\$5,669
7.3%	\$66,821	\$33,411	\$100,232
0.0%	\$0	\$0	\$0
0.0%	\$0	\$0	\$0
275.1%	\$9,350	\$4,675	\$14,025
275.1%	\$21,990	\$10,995	\$32,986
11.3%	\$716,137	\$401,214	\$1,117,351
203.4%	\$691,180	\$387,232	\$1,078,412
	-		
35.5%	\$443,537	\$279,821	\$723,358
266.3%	\$424,545	\$267,840	\$692,385

PROJECT COST TOT	ALS: \$6,989,386	\$7,957,411	113.8%	\$14,946,798	\$7,557,123	8 \$8,609,711	\$16,166,834	\$0 \$16,166,835
	CHIEF, C		NEERING	G, xxx				
	PROJECT	MANAGE	R, xxx					ESTIMATED TOTA
	CHIEF, RI		ΓE, xxx					
	CHIEF, PI	ANNING, 2	xxx					
	CHIEF, EI	NGINEERIN	NG, XXX					
	CHIEF, O	PERATION	S, xxx					
	CHIEF, CO	ONSTRUC ⁻	TION, xx	x				
	CHIEF, CO	ONTRACTI	NG,xxx					
	CHIEF, P	M-PB, xxx	x					
	CHIEF, DI	PM, xxx						
			*		COST SUMMARY ****			
SFWS San Francisco, CA							DISTRICT: POC:	SWT CHIEF, COST ENGINEERIN

PROJECT:

LOCATION:

This Estimate reflects the scope and schedule in report;

Alternatives Analysis

Printed:12/22/2023 Page 5 of 5

119.7% \$17,234,409 \$18,285,532

\$35,519,941

L PROJECT COST:

\$35,519,941

ING, xxx

PREPARED:

8/4/2023

PROJECT: SFWS PROJECT NOP2 xxxxxx LOCATION: San Francisco, CA DISTRICT: SWT POC: CHIEF, COST ENGINEERING, xxx

This Estimate reflects the scope and schedule in report;

Alternatives Analysis

Alternative E Seismic - Post DQC and Post ARA

Civil W	/orks Work Breakdown Structure		ESTIMATED) COST					T FIRST COST t Dollar Basis)					PROJECT COS	ST
								Program Year Effective Price	(Budget EC): ce Level Date:	2026 1 OCT 25	I				
										Spent Thru:	TOTAL				
WBS	Civil Works	COST	CNTG	CNTG	TOTAL	ESC	COST	CNTG	TOTAL	1-Oct-22	FIRST COST	INFLATED	COST	CNTG	FULL
NUMBER	Feature & Sub-Feature Description	<u>(\$K)</u>	<u>(\$K)</u>	(%)	<u>(\$K)</u>	(%)	<u>(\$K)</u>	<u>(\$K)</u>	<u>(\$K)</u>	<u>(\$K)</u>	<u>(\$K)</u>	<u>(%)</u>	<u>(\$K)</u>	<u>(\$K)</u>	<u>(\$K)</u>
Α	В	С	D	E	F	G	Н	Ι	J		К	L	М	N	0
02	40 Overall Structures Floodproofing Conc.	\$59,298	\$54,362	91.7%	\$113,660	8.3%	\$64,205	\$58,861	\$123,067	\$0	\$123,067	43.2%	\$91,968	\$84,313	\$176,281
02	40 Overall Utility Relocations	\$19,966	\$52,819	264.5%	\$72,786	8.3%	\$21,619	\$57,191	\$78,809	\$0	\$78,809	43.2%	\$30,966	\$81,920	\$112,886
10	40 Overall Seismic Ground Improvements	\$3,272,759	\$5,014,685	153.2%	\$8,287,444	8.3%	\$3,543,609	\$5,429,695	\$8,973,304	\$0	\$8,973,304	43.2%	\$5,075,863	\$7,777,490	\$12,853,353
10	40 Overall Seismic Transportation Corridor	\$348,888	\$284,360	81.5%	\$633,248	8.3%	\$377,761	\$307,893	\$685,655	\$0		43.2%	\$541,105	\$441,026	\$982,131
02	40 REACH 01 Utility Relocations	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0	0.0%	\$0	\$0	\$0
02	40 REACH 01 Transportation Corridor	\$261,048	\$212,766	81.5%	\$473,814	8.3%	\$282,652	\$230,375	\$513,027	\$0	\$513,027	43.2%	\$404,870	\$329,988	\$734,858
02	40 REACH 01 Bridge Replacement	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0	0.0%	\$0	\$0	\$0
06	40 REACH 01 Plantings/EWN	\$22,472	\$14,020	62.4%	\$36,492	8.3%	\$24,331	\$15,181	\$39,512	\$0	\$39,512	43.2%	\$34,852	\$21,745	\$56,597
11	40 REACH 01 Berms/Fill	\$23,645	\$16,818	71.1%	\$40,463	8.3%	\$25,602	\$18,210	\$43,812	\$0	\$43,812	43.2%	\$36,673	\$26,083	\$62,756
10	40 REACH 01 Ground Improvement/DSM	\$136,009	\$208,400	153.2%	\$344,410	8.3%	\$147,265	\$225,647	\$372,913	\$0	\$372,913	43.2%	\$210,943	\$323,217	\$534,160
10	40 REACH 01 Cantilever Walls/Pile Caps/	\$363	\$201	55.3%	\$564	8.3%	\$393	\$217	\$610	\$0	\$610	43.2%	\$563	\$311	\$874
11	40 REACH 01 Anchored Walls/T-Wall	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0	0.0%	\$0	\$0	\$0
10	40 REACH 01 Combi-Wall (Offshore)	\$430,035	\$454,461	105.7%	\$884,497	8.3%	\$465,625	\$492,072	\$957,697	\$0	\$957,697	43.2%	\$666,960	\$704,844	\$1,371,804
10	40 REACH 01 Wharf Replacement	\$238,547	\$157,386	66.0%	\$395,933	8.3%	\$258,289	\$170,411	\$428,700	\$0	\$428,700	43.2%	\$369,972	\$244,097	\$614,069
10	40 REACH 01 Raise Piers	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0	0.0%	\$0	\$0	\$0
13	40 REACH 01 Pump Stations/Interior Drain	\$23,633	\$24,389	103.2%	\$48,022	8.3%	\$25,589	\$26,407	\$51,996	\$0	\$51,996	43.2%	\$36,653	\$37,826	\$74,479
10	40 REACH 01 Roller Gate/Vehicle Barriers	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0	0.0%	\$0	\$0	\$0
10	40 REACH 01 Large Gates/Closure Struct	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0	0.0%	\$0	\$0	\$0
16	40 REACH 01 Armoring	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0	0.0%	\$0	\$0	\$0
02	40 REACH 01 Temp Raise/Relocate Repla	\$253,288	\$234,121	92.4%	\$487,409	8.3%	\$274,250	\$253,497	\$527,747	\$0	\$527,747	43.2%	\$392,835	\$363,109	\$755,943
02	40 REACH 01 Demolition of Bldgs/Structur	\$853	\$603	70.7%	\$1,456	8.3%	\$924	\$653	\$1,577	\$0	\$1,577	43.2%	\$1,323	\$936	\$2,259
02	40 REACH 01 Floodproofing Structures	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0	0.0%	\$0	\$0	\$0
ALL	40 REACH 01 Remaining Construction Iter	ı \$9,482	\$7,094	74.8%	\$16,576	8.3%	\$10,267	\$7,681	\$17,947	\$0	\$17,947	43.2%	\$14,706	\$11,002	\$25,708
02	40 REACH 02 Utility Relocations	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0	0.0%	\$0	\$0	\$0
02	40 REACH 02 Transportation Corridor	\$375,095	\$305,720	81.5%	\$680,815	8.3%	\$406,138	\$331,021	\$737,159	\$0	\$737,159	43.2%	\$581,751	\$474,154	\$1,055,904
02	40 REACH 02 Bridge Replacement	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0		0.0%	\$0	\$0	\$0
06	40 REACH 02 Plantings/EWN	\$29,136	\$18,178	62.4%	\$47,314	8.3%	\$31,547	\$19,682	\$51,229	\$0	\$51,229	43.2%	\$45,188	\$28,193	\$73,381
11	40 REACH 02 Berms/Fill	\$24,839	\$17,667	71.1%	\$42,506	8.3%	\$26,895	\$19,129	\$46,023	\$0	\$46,023	43.2%	\$38,524	\$27,400	\$65,924
10	40 REACH 02 Ground Improvement/DSM	\$136,689	\$209,441	153.2%	\$346,130	8.3%	\$148,001	\$226,774	\$374,775	\$0	\$374,775	43.2%	\$211,996	\$324,831	\$536,827
10	40 REACH 02 Cantilever Walls/Pile Caps/	. ,	\$17,365	55.3%	\$48,745	8.3%	\$33,977	\$18,802	\$52,779	\$0	\$52,779	43.2%	\$48,669	\$26,931	\$75,600
11	40 REACH 02 Anchored Walls/T-Wall	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0		0.0%	\$0	\$0	\$0
10	40 REACH 02 Combi-Wall (Offshore)	\$432,200	\$456,749	105.7%	\$888,949	8.3%	\$467,968	\$494,549	\$962,518	\$0	\$962,518	43.2%	\$670,318	\$708,392	\$1,378,709
10	40 REACH 02 Wharf Replacement	\$265,459	\$175,142	66.0%	\$440,601	8.3%	\$287,428	\$189,637	\$477,065	\$0		43.2%	\$411,712	\$271,635	\$683,347
10	40 REACH 02 Raise Piers	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0	0.0%	\$0	\$0	\$0

Filename: SFWS TPCS 2023.08.18 w UPDATED ACCOUNTS TPCS E Seismic

PREPARED:

8/4/2023

10	40 REACH 02 Pump Stations/Interior Drain	\$53,987	\$55,714	103.2%	\$109,700	8.3%	\$58,455	\$60,325	\$118,779	\$0	\$118,779
10	40 REACH 02 Roller Gate/Vehicle Barriers	\$00,007 \$0	\$00,714 \$0 -	100.270	\$100,700 \$0	-	\$00, 4 55 \$0	\$00,525 \$0	\$110,775 \$0	\$0 \$0	\$0 \$0
10	40 REACH 02 Large Gates/Closure Structu	\$0 \$0	\$0 -		\$0	_	\$0	\$0	\$0	\$0	\$0 \$0
16	40 REACH 02 Armoring	\$0 \$0	\$0 -		\$0 \$0	_	\$0	\$0	\$0	\$0	\$0
02	40 REACH 02 Temp Raise/Relocate Repla	\$391,856	\$362,204	92.4%	\$754,061	8.3%	\$424,287	\$392,181	\$816,467	\$0	\$816,467
02	40 REACH 02 Demolition of Bldgs/Structur	\$0	\$0 -	020070	\$0	-	\$0	\$0 \$0	\$0	\$0	\$0 \$0
02	40 REACH 02 Floodproofing Structures	\$0	\$0 -		\$0	_	\$0	\$0	\$0	\$0	\$0
ALL	40 REACH 02 Remaining Construction Iter		\$9,390	74.8%	\$21,940	8.3%	\$13,589	\$10,167	\$23,756	\$0	\$23,756
02	40 REACH 03 Utility Relocations	\$0	\$0 -	-	\$0	_	\$0	\$0	\$0	\$0	\$0
02	40 REACH 03 Transportation Corridor	\$251,537	\$205,014	81.5%	\$456,551	8.3%	\$272,354	\$221,981	\$494,335	\$0	\$494,335
02	40 REACH 03 Bridge Replacement	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0
06	40 REACH 03 Plantings/EWN	\$45,929	\$28,655	62.4%	\$74,585	8.3%	\$49,730	\$31,027	\$80,757	\$0	\$80,757
11	40 REACH 03 Berms/Fill	\$71,154	\$50,608	71.1%	\$121,762	8.3%	\$77,043	\$54,797	\$131,840	\$0	\$131,840
10	40 REACH 03 Ground Improvement/DSM	\$184,587	\$282,833	153.2%	\$467,419	8.3%	\$199,863	\$306,240	\$506,102	\$0	\$506,102
10	40 REACH 03 Cantilever Walls/Pile Caps/	\$12,896	\$7,136	55.3%	\$20,032	8.3%	\$13,963	\$7,726	\$21,689	\$0	\$21,689
11	40 REACH 03 Anchored Walls/T-Wall	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0
10	40 REACH 03 Combi-Wall (Offshore)	\$637,116	\$673,305	105.7%	\$1,310,421	8.3%	\$689,843	\$729,027	\$1,418,870	\$0	\$1,418,870
10	40 REACH 03 Wharf Replacement	\$229,936	\$151,705	66.0%	\$381,641	8.3%	\$248,965	\$164,260	\$413,225	\$0	\$413,225
10	40 REACH 03 Raise Piers	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0
13	40 REACH 03 Pump Stations/Interior Drain	\$134,492	\$138,795	103.2%	\$273,287	8.3%	\$145,623	\$150,282	\$295,905	\$0	\$295,905
10	40 REACH 03 Roller Gate/Vehicle Barriers	\$7,466	\$4,714	63.1%	\$12,180	8.3%	\$8,084	\$5,105	\$13,188	\$0	\$13,188
10	40 REACH 03 Large Gates/Closure Struct	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0
16	40 REACH 03 Armoring	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0
02	40 REACH 03 Temp Raise/Relocate Repla	\$260,369	\$240,667	92.4%	\$501,036	8.3%	\$281,918	\$260,585	\$542,502	\$0	\$542,502
02	40 REACH 03 Demolition of Bldgs/Structur	\$971	\$687	70.7%	\$1,658	8.3%	\$1,051	\$744	\$1,795	\$0	\$1,795
02	40 REACH 03 Floodproofing Structures	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0
ALL	40 REACH 03 Remaining Construction Iter		\$9,801	74.8%	\$22,902	8.3%	\$14,185	\$10,613	\$24,798	\$0	\$24,798
02	40 REACH 04 Utility Relocations	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0
02	40 REACH 04 Transportation Corridor	\$0	\$0 -		\$0	-	\$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0
02	40 REACH 04 Bridge Replacement	\$0	\$0 -	00 40V	\$0	-	\$0	\$0	\$0	\$0	\$0
06	40 REACH 04 Plantings/EWN	\$25,805	\$16,100	62.4%	\$41,906	8.3%	\$27,941	\$17,433	\$45,374	\$0 \$0	\$45,374
11 10	40 REACH 04 Berms/Fill	\$78,214	\$55,630	71.1%	\$133,843	8.3%	\$84,687	\$60,234	\$144,920 ¢0	\$0 \$0	\$144,920 ¢0
10	40 REACH 04 Ground Improvement/DSM	\$0	\$0 -	EE 20/	\$0 ¢255 242	-	\$0 \$247.500	\$0 ¢127.011	\$0 \$284.610	\$0 ¢0	\$0 \$284.640
10	40 REACH 04 Cantilever Walls/Pile Caps/C 40 REACH 04 Anchored Walls/T-Wall	\$228,674 \$0	\$126,539 \$0 -	55.3%	\$355,213 \$0	8.3%	\$247,599 \$0	\$137,011 \$0	\$384,610 \$0	\$0 \$0	\$384,610 \$0
10	40 REACH 04 Combi-Wall (Offshore)	\$0 \$0	\$0 - \$0 -		\$0 \$0	-	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0
10	40 REACH 04 Wharf Replacement	پ و \$729,196	- _{481,102}	66.0%	پو \$1,210,298	8.3%	\$789,544	پ و \$520,917	پو \$1,310,461	\$0 \$0	φ0 \$1,310,461
10	40 REACH 04 Raise Piers	\$0	φ-01,102 \$0 -	00.070	\$0	-	\$0 \$0	φ <u>υ</u> 20,517 \$0	\$0	\$0 \$0	\$0
13	40 REACH 04 Pump Stations/Interior Drain	\$258,827	\$267,106	103.2%	\$525,932	8.3%	\$280,248	\$289,212	\$569,460	\$0 \$0	\$569,460
10	40 REACH 04 Roller Gate/Vehicle Barriers	\$2,099	\$1,326	63.1%	\$3,425	8.3%	\$2,273	\$1,435	\$3,709	\$0	\$3,709
10	40 REACH 04 Large Gates/Closure Struct	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0
16	40 REACH 04 Armoring	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0
02	40 REACH 04 Temp Raise/Relocate Repla	\$538,562	\$497,809	92.4%	\$1,036,371	8.3%	\$583,134	\$539,008	\$1,122,141	\$0	\$1,122,141
02	40 REACH 04 Demolition of Bldgs/Structur	\$1,326	\$938	70.7%	\$2,264	8.3%	\$1,435	\$1,016	\$2,451	\$0	\$2,451
02	40 REACH 04 Floodproofing Structures	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0
ALL	40 REACH 04 Remaining Construction Iter		\$15,385	74.8%	\$35,948	8.3%	\$22,265	\$16,658	\$38,923	\$0	\$38,923
0	0	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0
10	90 Overall Utility Relocations	\$19,966	\$52,819	264.5%	\$72,786	8.3%	\$21,619	\$57,191	\$78,809	\$0	\$78,809
02	90 REACH 01 Utility Relocations	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0

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			-
43.2%	\$83,730	\$86,409	\$170,139
0.0%	\$0	\$0	\$0
0.0%	\$0	\$0	\$0
0.0%	\$0	\$0	\$0
43.2%	\$607,747	\$561,758	\$1,169,505
0.0%	\$0	\$0	\$0
0.0%	\$0	\$0	\$0
43.2%	\$19,465	\$14,563	\$34,028
0.0%	\$0	\$0	\$0
43.2%	\$390,119	\$317,965	\$708,084
0.0%	\$0	\$0	\$0
43.2%	\$71,234	\$44,443	\$115,677
43.2%	\$110,355	\$78,490	\$188,846
43.2%	\$286,283	\$438,657	\$724,941
43.2%	\$20,000	\$11,067	\$31,068
0.0%	\$0	\$0	\$0
43.2%	\$988,131	\$1,044,257	\$2,032,388
43.2%	\$356,618	\$235,286	\$591,903
0.0%	\$0	\$0	\$0
43.2%	\$208,590	\$215,263	\$423,853
43.2%	\$11,579	\$7,312	\$18,891
0.0%	\$0	\$0	\$0
0.0%	\$0	\$0	\$0
43.2%	\$403,818	\$373,261	\$777,079
43.2%	\$1,506	\$1,065	\$2,571
0.0%	\$0	\$0	\$0
43.2%	\$20,319	\$15,202	\$35,521
0.0%	\$0	\$0	\$0
0.0%	\$0	\$0	\$0
0.0%	\$0	\$0	\$0
43.2%	\$40,023	\$24,971	\$64,993
43.2%	\$121,304	\$86,278	\$207,582
0.0%	\$0	\$0	\$0
43.2%	\$354,660	\$196,254	\$550,915
0.0%	\$0	\$0	\$0
0.0%	\$0	\$0	\$0
43.2%	\$1,130,942	\$746,161	\$1,877,103
0.0%	\$0	\$0	\$0
43.2%	\$401,426	\$414,267	\$815,692
43.2%	\$3,256	\$2,056	\$5,312
0.0%	¢0,200 \$0	¢2,000 \$0	\$0
0.0%	\$0 \$0	\$0 \$0	\$0
43.2%	\$835,279	\$772,073	\$1,607,352
43.2%	\$2,056	\$1,455	\$3,511
43.2 % 0.0%	\$2,030 \$0	\$1,433 \$0	\$3,311
0.0% 43.2%	ەر \$31,893	ەن \$23,861	ەن \$55,754
43.2% 0.0%			
0.0% 417%	\$0 ¢111 753	\$0 \$205 635	\$0 \$407 388
	\$111,753 ¢0	\$295,635	\$407,388
0%	\$0	\$0	\$0

02 90 REACH 01 Bindge Replacement \$0	50 50 368 50 50 50 50 50 50 50 50 50 50 50 50 50
06 90 REACH 01 Planings/EWN \$0 \$0 - \$0 - \$0 - \$0 - \$0 \$0 \$0 \$0 \$0 11 90 REACH 01 Berms/Fill \$3,437 \$2,445 71.1% \$5,882 8.3% \$3,722 \$2,647 \$6,368 \$0 \$0 10 90 REACH 01 Continuer Walls/Pile Caps/ \$0 \$0 - \$0<	50 ,368 50 50 50 50 50 50 50 50 50 50
11 90 REACH 01 Berns/Fill \$3,437 \$2,445 71.1% \$5,882 8.3% \$3,722 \$2,647 \$6,668 \$0 \$6 10 90 REACH 01 Ground Improvement/DSM \$0 \$0 - \$0 </th <th>,368 50 50 50 50 50 50 50 50 50 50 50 50 50</th>	,368 50 50 50 50 50 50 50 50 50 50 50 50 50
10 90 REACH 01 Ground Improvement/DSM \$0	50 50 50 50 50 50 50 50 50 50 50 50 50 5
10 90 REACH 01 Cantilever Walls/File Caps/C \$0 <th>50 50 50 50 50 50 50 50 50 50 50 50 50 5</th>	50 50 50 50 50 50 50 50 50 50 50 50 50 5
11 90 REACH 01 Anchored Walls/T-Wall \$0 \$0 - \$0 - \$0	50 50 50 50 50 50 50 50 50 50 50 50 50 5
10 90 REACH 01 Combi-Wall (Offshore) \$0	50 8,769 50 50 50 50 50 50 50 50 50 50 50 50 50
10 90 REACH 01 Wharf Replacement \$238,585 \$157,411 66.0% \$395,997 8.3% \$258,330 \$170,439 \$428,769 \$0 \$42 10 90 REACH 01 Raise Piers \$0	8,769 50 50 50 50 50 50 50 50 50 50 50 50
10 90 REACH 01 Raise Piers \$0 \$0 \$0 - \$0<	50 50 50 50 50 50 50 50 50 50 50
13 90 REACH 01 Pump Stations/Interior Drain \$0 \$0 \$0 - \$0 <th>50 50 50 50 50 50 50 50 4,418 50</th>	50 50 50 50 50 50 50 50 4,418 50
10 90 REACH 01 Roller Gate/Vehicle Barriers \$0 <th>50 50 50 50 50 1,418 50</th>	50 50 50 50 50 1,418 50
10 90 REACH 01 Large Gates/Closure Structs \$0 <th>50 50 50 50 50 1,418 50</th>	50 50 50 50 50 1,418 50
16 90 REACH 01 Armoring \$0 \$0 - \$0 - \$0 </th <th>50 50 50 50 50 50 50</th>	50 50 50 50 50 50 50
02 90 REACH 01 Temp Raise/Relocate Repts \$0	50 50 50 9,418 50
02 90 REACH 01 Demolition of Bldgs/Structures \$0<	\$0 \$0 9,418 \$0
02 90 REACH 01 Floodproofing Structures \$0	\$0 4,418 \$0
ALL 90 REACH 02 Remaining Construction Item \$18,183 \$13,604 74.8% \$31,787 8.3% \$19,688 \$14,730 \$34,418 \$00 \$32 02 90 REACH 02 Utility Relocations \$0	,418 60
02 90 REACH 02 Utility Relocations \$0	60
02 90 REACH 02 Transportation Corridor \$0	
02 90 REACH 02 Bridge Replacement \$0	50
11 90 REACH 02 Berms/Fill \$17,999 \$12,802 71.1% \$30,801 8.3% \$19,489 \$13,861 \$33,350 \$0 \$33 10 90 REACH 02 Ground Improvement/DSM \$0	60
10 90 REACH 02 Ground Improvement/DSM \$0<	60
10 90 REACH 02 Cantilever Walls/Pile Caps/C \$0 \$125,547 \$132,678 105.7% \$258,226 \$3% \$135,937 \$143,659 \$279,596 \$0	3,350
11 90 REACH 02 Anchored Walls/T-Wall \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$10 \$0 \$125,547 \$132,678 \$105.7% \$258,226 \$8.3% \$135,937 \$143,659 \$279,596 \$0 \$27 10 90 REACH 02 Wharf Replacement \$265,389 \$175,095 66.0% \$440,484 \$8.3% \$287,352 \$189,586 \$476,938 \$0 \$47 10 90 REACH 02 Raise Piers \$0	60
10 90 REACH 02 Combi-Wall (Offshore) \$125,547 \$132,678 105.7% \$258,226 8.3% \$135,937 \$143,659 \$279,596 \$0 \$27 10 90 REACH 02 Wharf Replacement \$265,389 \$175,095 66.0% \$440,484 8.3% \$287,352 \$189,586 \$476,938 \$0 \$47 10 90 REACH 02 Raise Piers \$0 \$0 \$0 - \$0 \$0 \$0 \$0 \$0 \$47 10 90 REACH 02 Pump Stations/Interior Drain \$0 \$0 \$0 - \$0	60
10 90 REACH 02 Wharf Replacement \$265,389 \$175,095 66.0% \$440,484 8.3% \$287,352 \$189,586 \$476,938 \$0 \$47 10 90 REACH 02 Raise Piers \$0 <t< th=""><th>60</th></t<>	60
10 90 REACH 02 Raise Piers \$0 \$0 - \$0	9,596
10 90 REACH 02 Pump Stations/Interior Drain \$0 <	6,938
10 90 REACH 02 Roller Gate/Vehicle Barriers \$0 <	60
10 90 REACH 02 Large Gates/Closure Structu \$0 \$0 \$0 - \$0 <td< th=""><th>60</th></td<>	60
16 90 REACH 02 Armoring \$0 \$0 - \$0 <	60
02 90 REACH 02 Temp Raise/Relocate Repla \$0 \$0 - \$0 \$0 \$0 \$0 02 90 REACH 02 Demolition of Bldgs/Structur \$0 \$0 - \$0 - \$0 \$0 \$0 \$0 02 90 REACH 02 Demolition of Bldgs/Structur \$0 \$0 - \$0 - \$0 \$0 \$0 \$0	60 0
02 90 REACH 02 Demolition of Bldgs/Structur \$0 \$0 - \$0 \$0 \$0 \$0 \$0	60 No
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	\$0 2,057
	50 50
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	4,828
	50
),199
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	60
	2,254
	60
13 90 REACH 03 Pump Stations/Interior Drain \$0 \$0 \$0 - \$0 <th>60</th>	60

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0%	\$0	\$0	\$0
0%	\$0	\$0	\$0
0%	\$0	\$0	\$0
417%	\$19,238	\$13,683	\$32,920
0%	\$0	\$0	\$0
0%	\$0	\$0	\$0
0%	\$0	\$0	\$0
0%	\$0	\$0	\$0
417%	\$1,335,387	\$881,048	\$2,216,436
0%	\$0	\$0	\$0
0%	\$0	\$0	\$0
0%	\$0	\$0	\$0
0%	\$0	\$0	\$0
0%	\$0	\$0	\$0
0%	\$0	\$0	\$0
0%	\$0	\$0	\$0
0%	\$0	\$0	\$0
417%	\$101,775	\$76,143	\$177,918
0%	\$0	\$0	\$0
0%	\$0	\$0	\$0
0%	\$0	\$0	\$0
0%	\$0	\$0	\$0
417%	\$100,743	\$71,654	\$172,397
0%	\$0	\$0	\$0
0%	\$0	\$0	\$0
0%	\$0	\$0	\$0
417%	\$702,702	\$742,616	\$1,445,318
417%	\$1,485,409	\$980,029	\$2,465,438
0%	\$0	\$0°°¢,°=°	\$0
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417%	⁴⁰ \$124,362	\$93,041	\$217,403
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417%	پ 0 \$717,340	\$1,065,184	\$0 \$1,782,524
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417%	⁰ \$121,430	\$86,367	\$207,797
0%	¢121,430 \$0	\$00,507 \$0	\$0
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417% 0%	\$1,283,953 \$0	\$847,113 \$0	\$2,131,066 \$0
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10 10	90 REACH 03 Roller Gate/Vehicle Barriers	¥ -	\$0 - \$0 -		\$0 \$0	-	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	
16	90 REACH 03 Large Gates/Closure Struct		\$0 - \$0 -		\$0 \$0	-		\$0 \$0		\$0 ¢0	\$0 ¢0
02	90 REACH 03 Armoring 90 REACH 03 Temp Raise/Relocate Repla	\$0 \$0	\$0 - \$0 -		\$0 \$0	-	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0
02		-	\$0 - \$0 -		\$0 \$0	-	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0
02	90 REACH 03 Demolition of Bldgs/Structur	\$0 \$0	\$0 - \$0 -			-		\$0 \$0	-	\$0 \$0	\$0 \$0
ALL	90 REACH 03 Floodproofing Structures	-		74.00/	\$0 \$37 504	-	\$0 \$00.005		\$0 ¢40.705		
02	90 REACH 03 Remaining Construction Iter 90 REACH 04 Utility Relocations	n \$21,505 \$0	\$16,089 \$0 -	74.8%	\$37,594 ¢0	8.3%	\$23,285	\$17,420	\$40,705	\$0 \$0	\$40,705 \$0
02	90 REACH 04 Transportation Corridor	\$0 \$0	\$0 - \$0 -		\$0 \$0	-	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0
02	90 REACH 04 Transportation Conduit	ەن 72,949\$	- ₅₀ - \$108,322	148.5%	₄₀ \$181,271	- 8.3%	ە 0 \$78,986	ەت \$117,287	پ و \$196,273	\$0 \$0	ەر \$196,273
06	90 REACH 04 Plantings/EWN	\$72,949 \$0	\$100,322 \$0 -	140.370	\$101,271 \$0	0.370	\$70,900 \$0	۶۱۱۲,207 \$0	\$190,273 \$0	\$0 \$0	\$190,273 \$0
11	90 REACH 04 Plantings/EWN	پ 0 \$16,620	- _{\$0} - \$11,821	71.1%	₄₀ \$28,442	- 8.3%	ەن \$17,996	پو \$12,800	پ و \$30,795	\$0 \$0	پ 0 \$30,795
10	90 REACH 04 Ground Improvement/DSM		\$11,821 \$0 -	/ 1.170	\$20,442 \$0	0.370	۹۱7,990 \$0	\$12,800 \$0	\$30,795 \$0	\$0 \$0	\$30,795 \$0
10	90 REACH 04 Cantilever Walls/Pile Caps/		\$0 - \$0 -		\$0 \$0	-	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0
11	90 REACH 04 Cantilevel Walls/File Caps/	\$0 \$0	\$0 - \$0 -		\$0 \$0	-	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	
10	90 REACH 04 Combi-Wall (Offshore)	\$0 \$0	\$0 - \$0 -		\$0 \$0	-	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0
10	90 REACH 04 Wharf Replacement	\$0 \$0	\$0 - \$0 -		\$0 \$0	-	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0
10	90 REACH 04 Raise Piers	\$0 \$0	\$0 - \$0 -		\$0 \$0		\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	
13	90 REACH 04 Pump Stations/Interior Drain		\$0 - \$0 -		\$0 \$0	_	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	
10	90 REACH 04 Roller Gate/Vehicle Barriers	-	\$0 - \$0 -		\$0 \$0		\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0
10	90 REACH 04 Large Gates/Closure Struct		\$0 - \$0 -		\$0 \$0		\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0
16	90 REACH 04 Armoring	\$0 \$0	\$0 - \$0 -		\$0 \$0		\$0 \$0	\$0 \$0	φ0 \$0	\$0 \$0	
02	90 REACH 04 Temp Raise/Relocate Repla	-	\$0 - \$0 -		\$0 \$0		\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	φ0 \$0
02	90 REACH 04 Demolition of Bldgs/Structur		\$0 -		\$0 \$0		\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	φ0 \$0
02	90 REACH 04 Floodproofing Structures	\$0 \$0	\$0 -		\$0 \$0		\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	φ0 \$0
ALL	90 REACH 04 Remaining Construction Iter	-	\$98,422	74.8%	\$229,976	8.3%	\$142,442	\$106,568	\$249,010	\$0 \$0	\$249,010
/.==		φτοτ,σοτ	φ00, 122	11.070	<i>\\</i> 220,010	0.070	Ψ112,112	\$100,000	φ <u>2</u> 10,010	ψŪ	φ <u>2</u> 10,010
	CONSTRUCTION ESTIMATE TOTALS:	\$11,919,503	\$12,775,130	-	\$24,694,633	8.3%	\$12,905,956		\$26,738,349	\$0	\$26,738,349
01	40 LANDS AND DAMAGES Reach 01	\$2,997	\$1,499	50.0%	\$4,496	8.3%	\$3,245	\$1,623	\$4,868	\$0	\$4,868
01	40 LANDS AND DAMAGES Reach 02	\$0	\$0	50.0%	\$0	0.0%	\$0,210	\$0	\$0	\$0 \$0	\$0
01	40 LANDS AND DAMAGES Reach 03	\$15,127	\$7,564	50.0%	\$22,691	8.3%	\$16,379	\$8,189	\$24,568	\$0 \$0	-
01	40 LANDS AND DAMAGES Reach 04	\$32,660	\$16,330	50.0%	\$48,990	8.3%	\$35,363	\$17,682	\$53,045	\$0	\$53,045
01	90 LANDS AND DAMAGES Reach 01	\$558	\$279	50.0%	\$837	8.3%	\$604	\$302	\$906	\$0	\$906
01	90 LANDS AND DAMAGES Reach 02	\$0	\$0	50.0%	\$0	0.0%	\$0	\$0	\$0	\$0	\$0
01	90 LANDS AND DAMAGES Reach 03	\$34,081	\$17,041	50.0%	\$51,122	8.3%	\$36,902	\$18,451	\$55,352	\$0	\$55,352
01	90 LANDS AND DAMAGES Reach 04	\$13,932	\$6,966	50.0%	\$20,898	8.3%	\$15,085	\$7,543	\$22,628	\$0	\$22,628
30	40 PLANNING, ENGINEERING & DESIGN	\$1,508,547	\$845,160	56.0%	\$2,353,707	7.4%	\$1,620,204	\$907,715	\$2,527,918	\$0	\$2,527,918
30	90 PLANNING, ENGINEERING & DESIGN	\$189,982	\$106,437	56.0%	\$296,419	7.4%	\$204,044	\$114,315	\$318,359	\$0	\$318,359
31	40 CONSTRUCTION MANAGEMENT	\$767,506	\$484,210	63.1%	\$1,251,716	7.4%	\$824,314	\$520,049	\$1,344,363	\$0	\$1,344,363
31	90 CONSTRUCTION MANAGEMENT	\$96,658	\$60,980	63.1%	\$157,637	7.4%	\$103,812	\$65,493	\$169,305	\$0	\$169,305
							. ,	. , -			
	PROJECT COST TOTALS:	\$14,581,551	\$14,321,594	98.2%	\$28,903,145	<u> </u>	\$15,765,907	\$15,493,754	\$31,259,661	\$0	\$31,259,661

CHIEF, COST ENGINEERING, xxx

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0%	\$0	\$0	\$0
0%	\$0	\$0	\$0
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0%	\$0	\$0	\$0
0%	\$0	\$0	\$0
0%	\$0	\$0	\$0
417%	\$120,366	\$90,052	\$210,418
0%	\$0	\$0	\$0
0%	\$0	\$0	\$0
417%	\$408,302	\$606,291	\$1,014,594
0%	\$0	\$0	\$0
417%	\$93,026	\$66,165	\$159,190
0%	\$0	\$0	\$0
0%	\$0	\$0	\$0
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417%	\$736,326	\$550,882	\$1,287,209
80.9%	\$23,880,854	\$24,487,721	\$48,368,575
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7.3%	\$3,483	\$1,742	\$5,225
0.0%	\$0	\$0	\$0
7.3%	\$17,581	\$8,791	\$26,372
7.3%	\$37,959	\$18,979	\$56,938
275.1%	\$2,266	\$1,133	\$3,400
0.0%	\$0	\$0	\$0
275.1%	\$138,429	\$69,214	\$207,643
275.1%	\$56,588	\$28,294	\$84,883
11.3%	\$1,803,212	\$1,010,245	\$2,813,457
203.4%	\$619,043	\$346,817	\$965,860
05 50/	MA 110 010		* + • • • • • • •
35.5%	\$1,116,812	\$704,582	\$1,821,394
266.3%	\$380,236	\$239,886	\$620,122
75.9%	\$28,056,464	\$26,917,404	\$54,973,868

				ESTIMATED TOTAL
		PROJECT MANAGER, xxx		
		CHIEF, REAL ESTATE, xxx		
		CHIEF, PLANNING, xxx		
		CHIEF, ENGINEERING, xxx		
		CHIEF, OPERATIONS, xxx		
		CHIEF, CONSTRUCTION, xxx		
		CHIEF, CONTRACTING,xxx		
		CHIEF, PM-PB, xxxx		
		CHIEF, DPM, xxx		
		**** CONTRACT COST SUMMARY ****		
PROJECT: LOCATION: This Estimate re	SFWS San Francisco, CA eflects the scope and schedule in report;		RICT: POC:	SWT CHIEF, COST ENGINEERII

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AL PROJECT COST:

\$54,973,868

NG, xxx

PREPARED:

8/4/2023

DISTRICT: SWT POC: CHIEF, COST ENGINEERING, xxx

This Estimate reflects the scope and schedule in report;

Alternatives Analysis

Alternative F Seismic - Post DQC and Post ARA

Civil V	Civil Works Work Breakdown Structure ESTIMATED COST		ESTIMATED	COST					CT FIRST COST nt Dollar Basis)			TOTAL PROJECT COST (FULLY FUNDED)			
								Program Year Effective Pric	(Budget EC): ce Level Date:	2026 1 OCT 25	1				
										Spent Thru:	TOTAL				
WBS	Civil Works	COST	CNTG	CNTG	TOTAL	ESC	COST	CNTG	TOTAL	1-Oct-22	FIRST COST	INFLATED	COST	CNTG	FULL
<u>NUMBER</u>	Feature & Sub-Feature Description	<u>(\$K)</u>	<u>(\$K)</u>	(%)	<u>(\$K)</u>	_(%)	<u>(\$K)</u>	<u>(\$K)</u>	<u>(\$K)</u>	<u>(\$K)</u>	<u>(\$K)</u>	<u>(%)</u>	<u>(\$K)</u>	<u>(\$K)</u>	<u>(\$K)</u>
A	В	C	D	E	F	G	Н	I	J		K	L	М	Ν	0
02	40 Overall Structures Floodproofing Conc.	\$59,298	\$156,869	264.5%	\$216,167	8.3%	\$64,205	\$169,851	\$234,057	\$0	\$234,057	43.2%	\$91,968	\$243,294	\$335,262
02	40 Overall Utility Relocations	\$46,588	\$123,245	264.5%	\$169,833	8.3%	\$50,443	\$133,445	\$183,888	\$0	\$183,888	43.2%	\$72,255	\$191,146	\$263,401
10	40 Overall Seismic Ground Improvements	\$1,509,404	\$2,312,785	153.2%	\$3,822,189	8.3%	\$1,634,321	\$2,504,188	\$4,138,509	\$0	\$4,138,509	43.2%	\$2,341,000	\$3,586,997	\$5,927,997
10	40 Overall Seismic Transportation Corridor	\$348,888	\$284,360	81.5%	\$633,248	8.3%	\$377,761	\$307,893	\$685,655	\$0	\$685,655	43.2%	\$541,105	\$441,026	\$982,131
02	40 REACH 01 Utility Relocations	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0	0.0%	\$0	\$0	\$0
02	40 REACH 01 Transportation Corridor	\$21,682	\$17,672	81.5%	\$39,354	8.3%	\$23,477	\$19,135	\$42,611	\$0	\$42,611	43.2%	\$33,628	\$27,408	\$61,037
02	40 REACH 01 Bridge Replacement	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0	0.0%	\$0	\$0	\$0
06	40 REACH 01 Plantings/EWN	\$22,474	\$14,022	62.4%	\$36,496	8.3%	\$24,334	\$15,182	\$39,516	\$0	\$39,516	43.2%	\$34,856	\$21,747	\$56,603
11	40 REACH 01 Berms/Fill	\$31,292	\$22,256	71.1%	\$53,548	8.3%	\$33,881	\$24,098	\$57,980	\$0	\$57,980	43.2%	\$48,531	\$34,518	\$83,049
10	40 REACH 01 Ground Improvement/DSM	\$389,238	\$596,410	153.2%	\$985,648	8.3%	\$421,451	\$645,768	\$1,067,219	\$0	\$1,067,219	43.2%	\$603,686	\$924,997	\$1,528,683
10	40 REACH 01 Cantilever Walls/Pile Caps/	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0	0.0%	\$0	\$0	\$0
11	40 REACH 01 Anchored Walls/T-Wall	\$18,342	\$15,357	83.7%	\$33,699	8.3%	\$19,860	\$16,627	\$36,488	\$0	\$36,488	43.2%	\$28,448	\$23,817	\$52,265
10	40 REACH 01 Combi-Wall (Offshore)	\$163,545	\$172,834	105.7%	\$336,379	8.3%	\$177,080	\$187,138	\$364,217	\$0	\$364,217	43.2%	\$253,649	\$268,056	\$521,704
10	40 REACH 01 Wharf Replacement	\$1,098	\$724	66.0%	\$1,822	8.3%	\$1,189	\$784	\$1,973	\$0	\$1,973	43.2%	\$1,703	\$1,123	\$2,826
10	40 REACH 01 Raise Piers	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0	0.0%	\$0	\$0	\$C
13	40 REACH 01 Pump Stations/Interior Drain	\$23,633	\$24,389	103.2%	\$48,022	8.3%	\$25,589	\$26,407	\$51,996	\$0	\$51,996	43.2%	\$36,653	\$37,826	\$74,479
10	40 REACH 01 Roller Gate/Vehicle Barriers	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0	0.0%	\$0	\$0	\$C
10	40 REACH 01 Large Gates/Closure Struct	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0	0.0%	\$0	\$0	\$C
16	40 REACH 01 Armoring	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0	0.0%	\$0	\$0	\$C
02	40 REACH 01 Temp Raise/Relocate Repla	\$63,442	\$58,641	92.4%	\$122,082	8.3%	\$68,692	\$63,494	\$132,186	\$0	\$132,186	43.2%	\$98,394	\$90,949	\$189,343
02	40 REACH 01 Demolition of Bldgs/Structur	\$1,507	\$1,066	70.7%	\$2,574	8.3%	\$1,632	\$1,155	\$2,787	\$0	\$2,787	43.2%	\$2,338	\$1,654	\$3,992
02	40 REACH 01 Floodproofing Structures	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0	0.0%	\$0	\$0	\$C
ALL	40 REACH 01 Remaining Construction Iter	n \$3,963	\$2,965	74.8%	\$6,927	8.3%	\$4,291	\$3,210	\$7,500	\$0	\$7,500	43.2%	\$6,146	\$4,598	\$10,744
02	40 REACH 02 Utility Relocations	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0	0.0%	\$0	\$0	\$0
02	40 REACH 02 Transportation Corridor	\$28,306	\$23,070	81.5%	\$51,376	8.3%	\$30,648	\$24,980	\$55,628	\$0	\$55,628	43.2%	\$43,900	\$35,781	\$79,681
02	40 REACH 02 Bridge Replacement	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0	0.0%	\$0	\$0	\$0
06	40 REACH 02 Plantings/EWN	\$29,139	\$18,180	62.4%	\$47,319	8.3%	\$31,551	\$19,685	\$51,235	\$0	\$51,235	43.2%	\$45,193	\$28,196	\$73,389
11	40 REACH 02 Berms/Fill	\$147,481	\$104,896	71.1%	\$252,378	8.3%	\$159,687	\$113,578	\$273,266	\$0	\$273,266	43.2%	\$228,735	\$162,688	\$391,422
10	40 REACH 02 Ground Improvement/DSM	\$1,595,447	\$2,444,624	153.2%	\$4,040,071	8.3%	\$1,727,485	\$2,646,938	\$4,374,423	\$0	\$4,374,423	43.2%	\$2,474,448	\$3,791,473	\$6,265,921
10	40 REACH 02 Cantilever Walls/Pile Caps/	\$0	\$0 -		\$0	- 1	\$0	\$0	\$0	\$0	\$0	0.0%	\$0	\$0	\$0
11	40 REACH 02 Anchored Walls/T-Wall	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0	0.0%	\$0	\$0	\$0
10	40 REACH 02 Combi-Wall (Offshore)	\$656,274	\$693,550	105.7%	\$1,349,824	8.3%	\$710,586	\$750,948	\$1,461,534	\$0	\$1,461,534	43.2%	\$1,017,843	\$1,075,657	\$2,093,500

Filename: SFWS TPCS 2023.08.18 w UPDATED ACCOUNTS **TPCS F Seismic**

PREPARED:

10	40 REACH 02 Wharf Replacement	\$3,780	\$2,494	66.0%	\$6,274	8.3%	\$4,093	\$2,700	\$6,793	\$0	\$6,793
10	40 REACH 02 Raise Piers	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0
10	40 REACH 02 Pump Stations/Interior Drain	\$53,987	\$55,714	103.2%	\$109,700	8.3%	\$58,455	\$60,325	\$118,779	\$0	\$118,779
10	40 REACH 02 Roller Gate/Vehicle Barriers	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0
10	40 REACH 02 Large Gates/Closure Structu	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0
16	40 REACH 02 Armoring	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0
02	40 REACH 02 Temp Raise/Relocate Repla	\$218,208	\$201,696	92.4%	\$419,904	8.3%	\$236,267	\$218,389	\$454,656	\$0	\$454,656
02	40 REACH 02 Demolition of Bldgs/Structur	\$11,613	\$8,216	70.7%	\$19,829	8.3%	\$12,574	\$8,896	\$21,470	\$0	\$21,470
02	40 REACH 02 Floodproofing Structures	\$0	\$0 -		\$0 \$0	-	\$0	\$0,000	\$0	\$0	\$0
ALL	40 REACH 02 Remaining Construction Item		\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0
02	40 REACH 03 Utility Relocations	\$1,271	\$3,362	264.5%	\$4,632	8.3%	\$1,376	\$3,640	\$5,016	\$0	\$5,016
02	40 REACH 03 Transportation Corridor	\$21,437	\$17,472	81.5%	\$38,909	8.3%	\$23,211	\$18,918	\$42,129	\$0	\$42,129
02	40 REACH 03 Bridge Replacement	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0
06	40 REACH 03 Plantings/EWN	\$55,474	\$34,611	62.4%	\$90,085	8.3%	\$60,065	\$37,475	\$97,541	\$0	\$97,541
11	40 REACH 03 Berms/Fill	\$38,334	\$27,265	71.1%	\$65,598	8.3%	\$41,506	\$29,521	\$71,027	\$0	\$71,027
10	40 REACH 03 Ground Improvement/DSM	\$261,159	\$400,160	153.2%	\$661,319	8.3%	\$282,772	\$433,277	\$716,049	\$0	\$716,049
10	40 REACH 03 Cantilever Walls/Pile Caps/C		\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0
11	40 REACH 03 Anchored Walls/T-Wall	\$774	\$648	83.7%	\$1,423	8.3%	\$838	\$702	\$1,540	\$0	\$1,540
10	40 REACH 03 Combi-Wall (Offshore)	\$259,753	\$274,507	105.7%	\$534,260	8.3%	\$281,250	\$297,225	\$578,474	\$0	\$578,474
10	40 REACH 03 Wharf Replacement	\$115,902	\$76,469	66.0%	\$192,371	8.3%	\$125,494	\$82,797	\$208,291	\$0	\$208,291
10	40 REACH 03 Raise Piers	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0
13	40 REACH 03 Pump Stations/Interior Drain	\$6,751	\$6,967	103.2%	\$13,719	8.3%	\$7,310	\$7,544	\$14,854	\$0	\$14,854
10	40 REACH 03 Roller Gate/Vehicle Barriers	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0
10	40 REACH 03 Large Gates/Closure Struct	\$182,318	\$229,295	125.8%	\$411,613	8.3%	\$197,407	\$248,271	\$445,678	\$0	\$445,678
16	40 REACH 03 Armoring	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0
02	40 REACH 03 Temp Raise/Relocate Repla	\$45,971	\$42,493	92.4%	\$88,464	8.3%	\$49,776	\$46,009	\$95,785	\$0	\$95,785
02	40 REACH 03 Demolition of Bldgs/Structur	\$1,360	\$962	70.7%	\$2,323	8.3%	\$1,473	\$1,042	\$2,515	\$0	\$2,515
02	40 REACH 03 Floodproofing Structures	\$4,154	\$3,809	91.7%	\$7,963	8.3%	\$4,498	\$4,124	\$8,622	\$0	\$8,622
ALL	40 REACH 03 Remaining Construction Item	\$6,764	\$5,060	74.8%	\$11,824	8.3%	\$7,324	\$5,479	\$12,803	\$0	\$12,803
02	40 REACH 04 Utility Relocations	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0
02	40 REACH 04 Transportation Corridor	\$8,732	\$7,117	81.5%	\$15,850	8.3%	\$9,455	\$7,706	\$17,161	\$0	\$17,161
02	40 REACH 04 Bridge Replacement	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0
06	40 REACH 04 Plantings/EWN	\$27,001	\$16,846	62.4%	\$43,847	8.3%	\$29,236	\$18,240	\$47,476	\$0	\$47,476
11	40 REACH 04 Berms/Fill	\$14,108	\$10,034	71.1%	\$24,142	8.3%	\$15,275	\$10,865	\$26,140	\$0	\$26,140
10	40 REACH 04 Ground Improvement/DSM	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0
10	40 REACH 04 Cantilever Walls/Pile Caps/C		\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0
11	40 REACH 04 Anchored Walls/T-Wall	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0
10	40 REACH 04 Combi-Wall (Offshore)	\$28,861	\$30,501	105.7%	\$59,362	8.3%	\$31,250	\$33,025	\$64,275	\$0	\$64,275
10	40 REACH 04 Wharf Replacement	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0
10	40 REACH 04 Raise Piers	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0
13	40 REACH 04 Pump Stations/Interior Drain	\$6,254	\$6,454	103.2%	\$12,708	8.3%	\$6,772	\$6,988	\$13,760	\$0	\$13,760
10	40 REACH 04 Roller Gate/Vehicle Barriers	\$0	\$0 -	10- 001	\$0	-	\$0	\$0	\$0	\$0 \$0	\$0
10	40 REACH 04 Large Gates/Closure Structu	\$182,318	\$229,295	125.8%	\$411,613	8.3%	\$197,407	\$248,271	\$445,678	\$O	\$445,678
16 02	40 REACH 04 Armoring	\$0 \$0	\$0 -		\$0 \$0	-	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0
02	40 REACH 04 Temp Raise/Relocate Repla	\$0 \$040	\$0 -	70 70/	\$0	-	\$0	\$0	\$0 \$000	\$0 \$0	\$0 #200
02	40 REACH 04 Demolition of Bldgs/Structur	\$212	\$150 \$000	70.7%	\$362	8.3%	\$229 \$1,000	\$162	\$392	\$0 \$0	\$392
02	40 REACH 04 Floodproofing Structures	\$1,014 ¢5,005	\$930	91.7%	\$1,945 \$10,200	8.3%	\$1,098 \$0,282	\$1,007 ¢4,770	\$2,105	\$0 ¢0	\$2,105
ALL	40 REACH 04 Remaining Construction Iten	\$5,895	\$4,411	74.8%	\$10,306	8.3%	\$6,383	\$4,776	\$11,159	\$0	\$11,159

43.2%	\$5,862	\$3,868	\$9,730
0.0%	\$0	\$0	\$0
43.2%	\$83,730	\$86,409	\$170,139
0.0%	\$0	\$0	\$0
0.0%	\$0	\$0	\$0
0.0%	\$0	\$0	\$0
43.2%	\$338,428	\$312,819	\$651,248
43.2%	\$18,011	\$12,742	\$30,753
0.0%	\$0	\$0	\$0
0.0%	\$0	\$0	\$0
43.2%	\$1,971	\$5,214	\$7,185
43.2%	\$33,247	\$27,098	\$60,345
0.0%	\$0	\$0	\$0
43.2%	\$86,038	\$53,680	\$139,717
43.2%	\$59,453	\$42,286	\$101,739
43.2%	\$405,042	\$620,626	\$1,025,668
0.0%	\$0	\$0	\$0
43.2%	\$1,201	\$1,005	\$2,206
43.2%	\$402,862	\$425,745	\$828,606
43.2%	\$179,758	\$118,599	\$298,356
0.0%	\$0	\$0	\$0
43.2%	\$10,471	\$10,806	\$21,277
0.0%	\$0	\$0	\$0
43.2%	\$282,765	\$355,623	\$638,388
0.0%	\$0	\$0	\$0
43.2%	\$71,299	\$65,904	\$137,203
43.2%	\$2,110	\$1,493	\$3,602
43.2%	\$6,443	\$5,907	\$12,350
43.2%	\$10,490	\$7,848	\$18,339
0.0%	\$0	\$0	\$0
43.2%	\$13,543	\$11,038	\$24,582
0.0%	\$0	\$0	\$0
43.2%	\$41,878	\$26,128	\$68,005
43.2%	\$21,880	\$15,562	\$37,442
0.0%	\$0	\$0	\$0
0.0%	\$0	\$0	\$0
0.0%	\$0	\$0	\$0
43.2%	\$44,762	\$47,305	\$92,067
0.0%	\$0	\$0	\$0
0.0%	\$0	\$0	\$0
43.2%	\$9,700	\$10,010	\$19,710
0.0%	\$0	\$0	\$0
43.2%	\$282,765	\$355,623	\$638,388
0.0%	\$0	\$0	\$0
0.0%	\$0	\$0	\$0
43.2%	\$329	\$232	\$561
43.2%	\$1,573	\$1,442	\$3,016
43.2%	\$9,143	\$6,841	\$15,984
			· · · · ·

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02	90 Overall Utility Relocations	\$26,622	\$70,426	264.5%	\$97,047	8.3%	\$28,825	\$76,254	\$105,079	\$0	\$105,079
10	90 Overall Seismic Ground Improvements	\$46,551	\$71,328	153.2%	\$117,879	8.3%	\$50,404	\$77,231	\$127,634	\$0	\$127,634
02	90 REACH 01 Transportation Corridor	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0
02	90 REACH 01 Bridge Replacement	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0
06	90 REACH 01 Plantings/EWN	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0
11	90 REACH 01 Berms/Fill	\$1,228	\$874	71.1%	\$2,102	8.3%	\$1,330	\$946	\$2,276	\$0	\$2,276
10	90 REACH 01 Ground Improvement/DSM	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0
10	90 REACH 01 Cantilever Walls/Pile Caps/C	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0
11	90 REACH 01 Anchored Walls/T-Wall	\$3,670	\$3,073	83.7%	\$6,742	8.3%	\$3,974	\$3,327	\$7,300	\$0	\$7,300
10	90 REACH 01 Combi-Wall (Offshore)	\$6,034	\$6,376	105.7%	\$12,410	8.3%	\$6,533	\$6,904	\$13,437	\$0	\$13,437
10	90 REACH 01 Wharf Replacement	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0
10	90 REACH 01 Raise Piers	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0
13	90 REACH 01 Pump Stations/Interior Drain	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0
10	90 REACH 01 Roller Gate/Vehicle Barriers	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0
10	90 REACH 01 Large Gates/Closure Struct	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0
16	90 REACH 01 Armoring	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0
02	90 REACH 01 Temp Raise/Relocate Repla	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0
02	90 REACH 01 Demolition of Bldgs/Structur	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0
02	90 REACH 01 Floodproofing Structures	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0
ALL	90 REACH 02 Remaining Construction Item	\$5,241	\$3,921	74.8%	\$9,163	8.3%	\$5,675	\$4,246	\$9,921	\$0	\$9,921
02	90 REACH 02 Utility Relocations	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0
02	90 REACH 02 Transportation Corridor	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0
02	90 REACH 02 Bridge Replacement	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0
06	90 REACH 02 Plantings/EWN	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0
11	90 REACH 02 Berms/Fill	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0
10	90 REACH 02 Ground Improvement/DSM	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0
10	90 REACH 02 Cantilever Walls/Pile Caps/C	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0
11	90 REACH 02 Anchored Walls/T-Wall	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0
10	90 REACH 02 Combi-Wall (Offshore)	\$4,435	\$4,687	105.7%	\$9,122	8.3%	\$4,802	\$5,075	\$9,877	\$0	\$9,877
10	90 REACH 02 Wharf Replacement	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0
10	90 REACH 02 Raise Piers	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0
10	90 REACH 02 Pump Stations/Interior Drain	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0
10	90 REACH 02 Roller Gate/Vehicle Barriers	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0
10	90 REACH 02 Large Gates/Closure Struct	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0
16	90 REACH 02 Armoring	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0
02	90 REACH 02 Temp Raise/Relocate Repla	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0
02	90 REACH 02 Demolition of Bldgs/Structur	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0
02	90 REACH 02 Floodproofing Structures	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0
ALL	90 REACH 02 Remaining Construction Item	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0
02	90 REACH 03 Utility Relocations	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0
02	90 REACH 03 Transportation Corridor	\$4,571	\$3,725	81.5%	\$8,296	8.3%	\$4,949	\$4,034	\$8,982	\$0	\$8,982
02	90 REACH 03 Bridge Replacement	\$0	\$0 -	00.151	\$0	-	\$0	\$0	\$0	\$0 \$0	\$0
06	90 REACH 03 Plantings/EWN	\$9,117	\$5,688	62.4%	\$14,806	8.3%	\$9,872	\$6,159	\$16,031	\$0	\$16,031
11	90 REACH 03 Berms/Fill	\$21,179	\$15,064	71.1%	\$36,243	8.3%	\$22,932	\$16,310	\$39,243	\$O	\$39,243
10	90 REACH 03 Ground Improvement/DSM	\$0 \$0	\$0 -		\$0 \$0	-	\$0 \$0	\$0	\$0 \$0	\$0 \$0	\$0
10	90 REACH 03 Cantilever Walls/Pile Caps/C	\$0 \$0	\$0 -		\$0 \$0	-	\$0 \$0	\$0 \$0	\$0 ¢0	\$0 \$0	\$0 \$0
11	90 REACH 03 Anchored Walls/T-Wall	\$0	\$0 -		\$0	II -	\$0	\$0	\$0	\$0	\$0

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0.0% 417%	\$0 \$149,004	\$0 \$394,181	\$0 \$543,186
417%	\$149,004 \$260,551	\$394,181 \$399,230	\$659,781
417 <i>%</i> 0%	\$200,551 \$0	\$399,230 \$0	\$059,781
0%	\$0 \$0	\$0 \$0	\$0 \$0
0%	\$0 ¢6.976	\$0 ¢4 800	\$0 ¢11.766
417%	\$6,876	\$4,890	\$11,766
0%	\$0 \$0	\$0	\$0 ©0
0%	\$0	\$0	\$0 \$0
417%	\$20,541	\$17,197	\$37,738
417%	\$33,771	\$35,689	\$69,461
0%	\$0	\$0 \$0	\$0
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0%	\$0	\$0	\$0
0%	\$0	\$0	\$0
417%	\$29,336	\$21,948	\$51,284
0%	\$0	\$0	\$0
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0%	\$0	\$0	\$0
417%	\$24,823	\$26,233	\$51,056
0%	\$0	\$0	\$0
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0%	\$0	\$0	\$0
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0%	\$0	\$0	\$0
0%	\$0	\$0	\$0
0%	\$0	\$0	\$0
0%	\$0	\$0	\$0
0%	\$0	\$0	\$0
417%	\$25,582	\$20,850	\$46,432
0%	\$0	\$0	\$0
417%	\$51,030	\$31,838	\$82,869
417%	\$118,542	\$84,313	\$202,855
0%	\$0 \$0	\$0	\$0
0%	\$0	\$0	\$0
0%	\$0 \$0	\$0 \$0	\$0
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10	90 REACH 03 Combi-Wall (Offshore)	\$0	\$0 -	00.00/	\$0	-	\$0	\$0	\$0	\$0	\$0
10	90 REACH 03 Wharf Replacement	\$10,840	\$7,152	66.0%	\$17,992	8.3%	\$11,737	\$7,744	\$19,481	\$0	\$19,481
10	90 REACH 03 Raise Piers	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0
13	90 REACH 03 Pump Stations/Interior Drain	\$476,405	\$491,645	103.2%	\$968,050	8.3%	\$515,834	\$532,335	\$1,048,168	\$0	\$1,048,168
10	90 REACH 03 Roller Gate/Vehicle Barriers	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0
10	90 REACH 03 Large Gates/Closure Struct		\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0
16	90 REACH 03 Armoring	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0
02	90 REACH 03 Temp Raise/Relocate Repla		\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0
02	90 REACH 03 Demolition of Bldgs/Structur	\$1,727	\$1,222	70.7%	\$2,949	8.3%	\$1,870	\$1,323	\$3,193	\$0	\$3,193
02	90 REACH 03 Floodproofing Structures	\$1,547	\$1,418	91.7%	\$2,964	8.3%	\$1,675	\$1,535	\$3,210	\$0	\$3,210
ALL	90 REACH 03 Remaining Construction Iter	n \$16,084	\$12,033	74.8%	\$28,118	8.3%	\$17,416	\$13,029	\$30,445	\$0	\$30,445
02	90 REACH 04 Utility Relocations	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0
02	90 REACH 04 Transportation Corridor	\$10,579	\$8,622	81.5%	\$19,201	8.3%	\$11,454	\$9,336	\$20,790	\$0	\$20,790
02	90 REACH 04 Bridge Replacement	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0
06	90 REACH 04 Plantings/EWN	\$14,840	\$9,259	62.4%	\$24,099	8.3%	\$16,069	\$10,025	\$26,094	\$0	\$26,094
11	90 REACH 04 Berms/Fill	\$13,061	\$9,289	71.1%	\$22,350	8.3%	\$14,142	\$10,058	\$24,200	\$0	\$24,200
10	90 REACH 04 Ground Improvement/DSM	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0
10	90 REACH 04 Cantilever Walls/Pile Caps/	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0
11	90 REACH 04 Anchored Walls/T-Wall	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0
10	90 REACH 04 Combi-Wall (Offshore)	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0
10	90 REACH 04 Wharf Replacement	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0
10	90 REACH 04 Raise Piers	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0
13	90 REACH 04 Pump Stations/Interior Drain	\$520,331	\$536,976	103.2%	\$1,057,307	8.3%	\$563,395	\$581,417	\$1,144,812	\$0	\$1,144,812
10	90 REACH 04 Roller Gate/Vehicle Barriers	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0
10	90 REACH 04 Large Gates/Closure Struct	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0
16	90 REACH 04 Armoring	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0
02	90 REACH 04 Temp Raise/Relocate Repla	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0
02	90 REACH 04 Demolition of Bldgs/Structur	\$27,296	\$19,311	70.7%	\$46,607	8.3%	\$29,555	\$20,910	\$50,464	\$0	\$50,464
02	90 REACH 04 Floodproofing Structures	\$1,803	\$1,653	91.7%	\$3,455	8.3%	\$1,952	\$1,789	\$3,741	\$0	\$3,741
ALL	90 REACH 04 Remaining Construction Iter	n \$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0
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	CONSTRUCTION ESTIMATE TOTALS:	\$7,947,607	\$10,068,593		\$18,016,201	8.3%	\$8,605,349	\$10,901,866	\$19,507,215	\$0	\$19,507,215
01	40 LANDS AND DAMAGES Reach 01	\$632	\$316	50.0%	\$948	8.3%	\$684	\$342	\$1,026	\$0	\$1,026
01	40 LANDS AND DAMAGES Reach 02	\$0	\$0	50.0%	\$0	0.0%	\$0	\$0	\$0	\$0	\$0
01	40 LANDS AND DAMAGES Reach 03	\$4,667	\$2,334	50.0%	\$7,001	8.3%	\$5,053	\$2,527	\$7,580	\$0	\$7,580
01	40 LANDS AND DAMAGES Reach 04	\$6,220	\$3,110	50.0%	\$9,330	8.3%	\$6,735	\$3,367	\$10,102	\$0	\$10,102
01	90 LANDS AND DAMAGES Reach 01	\$0	\$0	50.0%	\$0	0.0%	\$0	\$0	\$0	\$0	\$0
01	90 LANDS AND DAMAGES Reach 02	\$0	\$0	50.0%	\$0	0.0%	\$0	\$0	\$0	\$0	\$0
01	90 LANDS AND DAMAGES Reach 03	\$5,488	\$2,744	50.0%	\$8,232	8.3%	\$5,942	\$2,971	\$8,913	\$0	\$8,913
01	90 LANDS AND DAMAGES Reach 04	\$79,248	\$39,624	50.0%	\$118,872	8.3%	\$85,807	\$42,903	\$128,710	\$0	\$128,710
20		*-- ·	A -AA - · · -		A () A =	_	A		A (A A A A A A A A A A		6 (6 6 7 7 7 1 1
30	40 PLANNING, ENGINEERING & DESIGN	\$958,234	\$536,848	56.0%	\$1,495,082	7.4%	\$1,029,158	\$576,583	\$1,605,741	\$0	\$1,605,741
30	90 PLANNING, ENGINEERING & DESIGN	\$174,300	\$97,651	56.0%	\$271,952	7.4%	\$187,201	\$104,879	\$292,080	\$0	\$292,080
31	40 CONSTRUCTION MANAGEMENT	\$487,522	\$307,571	63.1%	\$795,094	7.4%	\$523,607	\$330,337	\$853,943	\$0	\$853,943
31	90 CONSTRUCTION MANAGEMENT	\$88,679	\$55,947	63.1%	\$144,626	7.4%	\$95,243	\$60,087	\$155,330	\$0 \$0	
		<i>400,070</i>	<i>400,011</i>	20.770	÷,ozo		Ψ00,2 IU	<i>400,001</i>	÷ 100,000	Ψ0	÷.00,000

			-
0%	\$0	\$0	\$0
417%	\$60,672	\$40,030	\$100,702
0%	\$0	\$0	\$0
417%	\$2,666,500	\$2,751,797	\$5,418,297
0%	\$0	\$0	\$0
0%	\$0	\$0	\$0
0%	\$0	\$0	\$0
0%	\$0	\$0	\$0
417%	\$9,668	\$6,840	\$16,508
417%	\$8,656	\$7,936	\$16,592
417%	\$90,026	\$67,353	\$157,379
0%	\$0	\$0	\$0
417%	\$59,210	\$48,259	\$107,469
0%	\$0	\$0	\$0
417%	\$83,064	\$51,824	\$134,888
417%	\$73,102	\$51,994	\$125,096
0%	\$0	\$0	\$0
0%	\$0	\$0	\$0
0%	\$0	\$0	\$0
0%	\$0	\$0	\$0
0%	\$0	\$0	\$0
0%	\$0	\$0	\$0
417%	\$2,912,357	\$3,005,519	\$5,917,876
0%	\$0	\$0	\$0
0%	\$0	\$0	\$0
0%	\$0	\$0	\$0
0%	\$0	\$0	\$0
417%	\$152,778	\$108,088	\$260,866
417%	\$10,090	\$9,250	\$19,341
0%	\$0	\$0	\$0
-			
95.2%	\$17,275,413	\$20,810,065	\$38,085,478
7.3%	\$735	\$367	¢4 400
7.3% 0.0%	\$735 \$0	\$307 \$0	\$1,102 \$0
0.0% 7.3%	ەن \$5,424	ەن \$2,712	ەت \$8,136
7.3% 7.3%	\$5,424 \$7,229		\$8,130 \$10,844
7.3% 0.0%	\$7,229 \$0	\$3,615 \$0	
0.0%		\$0 \$0	\$0 \$0
0.0% 275.1%	\$0 \$22.201	\$0 ¢11 145	\$0 \$32,436
	\$22,291 \$221,896	\$11,145 \$160,043	\$33,436 \$482,830
275.1%	\$321,886	\$160,943	\$482,830
11.3%	\$1,145,406	\$641,711	\$1,787,116
203.4%	\$567,945	\$318,190	\$886,135
35.5%	\$709,402	\$447,553	\$1,156,955
266.3%	\$348,850	\$220,085	\$568,935

PROJECT COST TOTALS	\$9,752,598	\$11,114,738	114.0%	\$20,867,336	\$10,544,78	30 \$12,025,863	\$22,570,642		\$0 \$22,570,642
	_ CHIEF, C	OST ENGI	NEERING	G, xxx				FSTIN	
	PROJEC	T MANAGE	R, xxx					Lorm	
	_ CHIEF, R	EAL ESTA	TE, xxx						
	_ CHIEF, P	LANNING, 3	xxx						
	_ CHIEF, E	NGINEERIN	NG, XXX						
	_ CHIEF, O	PERATION	IS, xxx						
	CHIEF, C	ONSTRUC ⁻	TION, xx	X					
	_ CHIEF, C	ONTRACTI	NG,xxx						
	_ CHIEF, F	PM-PB, xxx	x						
	_ CHIEF, D	PM, xxx							
			*	*** CONTRACT (COST SUMMARY ****				
SFWS San Francisco, CA							DISTRICT: POC:	SWT CHIEF.	

PROJECT:

LOCATION:

This Estimate reflects the scope and schedule in report;

Alternatives Analysis

Printed:12/22/2023 Page 5 of 5

90.6% \$20,404,582 \$22,616,385

\$43,020,967

L PROJECT COST:

\$43,020,967

NG, xxx

PREPARED:

8/4/2023

582 \$22 616 385

DISTRICT: SWT POC: CHIEF, COST ENGINEERING, xxx

This Estimate reflects the scope and schedule in report;

Alternatives Analysis

Alternative G Seismic - Post DQC and Post ARA

Civil W	Vorks Work Breakdown Structure		ESTIMATEI	D COST					CT FIRST COST nt Dollar Basis)			TOTAL PROJECT COST (FULLY FUNDED)			
								Program Year Effective Pric	(Budget EC): e Level Date:	2026 1 OCT 25	I				
WBS	Civil Works	COST	CNTG	CNTG	TOTAL	ESC	COST	CNTG	TOTAL	Spent Thru: 1-Oct-22	TOTAL FIRST COST	INFLATED	COST	CNTG	FULL
NUMBER A	Feature & Sub-Feature Description B	<u>(\$K)</u> C	<u>(\$K)</u>	<u>(%)</u> E	<u>(\$K)</u> <i>F</i>	<u>(%)</u> G	<u>(\$K)</u> <i>H</i>	<u>(\$K)</u>	<u>(\$K)</u>	<u>(\$K)</u>	<u>(\$K)</u> K	<u>_(%)</u>	<u>(\$K)</u> M	<u>(\$K)</u> N	<u>_(\$K)</u> O
A	В	C	D	E	F	G	п	1	5		n n	L	101	N	U
02	40 Overall Structures Floodproofing Conc.	\$59,298	\$54,362	91.7%	\$113,660	8.3%	\$64,205	\$58,861	\$123,067	\$0	\$123,067	43.2%	\$91,968	\$84,313	\$176,281
02	40 Overall Utility Relocations	\$66,554	\$176,064	264.5%	\$242,618	8.3%	\$72,062	\$190,636	\$262,698	\$0	\$262,698	43.2%	\$103,221	\$273,066	\$376,287
02	40 Overall Structure Floodproofing	\$30,587	\$28,041	91.7%	\$58,627	8.3%	\$33,118	\$30,361	\$63,479	\$0	\$63,479	43.2%	\$47,438	\$43,490	\$90,928
10	40 Overall Seismic Ground Improvements	\$1,649,989	\$2,528,195	153.2%	\$4,178,183	8.3%	\$1,786,540	\$2,737,425	\$4,523,965	\$0	\$4,523,965	43.2%	\$2,559,038	\$3,921,086	\$6,480,124
02	40 REACH 01 Utility Relocations	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0	0.0%	\$0	\$0	\$0
02	40 REACH 01 Transportation Corridor	\$49,473	\$40,323	81.5%	\$89,796	8.3%	\$53,568	\$43,660	\$97,228	\$0	\$97,228	43.2%	\$76,730	\$62,539	\$139,269
02	40 REACH 01 Bridge Replacement	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$C	\$0	0.0%	\$0	\$0	\$0
06	40 REACH 01 Plantings/EWN	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0	0.0%	\$0	\$0	\$0
11	40 REACH 01 Berms/Fill	\$3,800	\$2,703	71.1%	\$6,503	8.3%	\$4,115	\$2,927	\$7,042	\$0	\$7,042	43.2%	\$5,894	\$4,192	\$10,086
10	40 REACH 01 Ground Improvement/DSM	\$125,688	\$192,586	153.2%	\$318,274	8.3%	\$136,090	\$208,524	\$344,614	\$0	\$344,614	43.2%	\$194,935	\$298,690	\$493,625
10	40 REACH 01 Cantilever Walls/Pile Caps/	\$64,380	\$35,625	55.3%	\$100,005	8.3%	\$69,708	\$38,574	\$108,282	\$0	\$108,282	43.2%	\$99,850	\$55,253	\$155,102
11	40 REACH 01 Anchored Walls/T-Wall	\$16,053	\$13,440	83.7%	\$29,493	8.3%	\$17,382	\$14,552	\$31,934	\$0	\$31,934	43.2%	\$24,897	\$20,845	\$45,742
10	40 REACH 01 Combi-Wall (Offshore)	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0	0.0%	\$0	\$0	\$0
10	40 REACH 01 Wharf Replacement	\$88,172	\$58,173	66.0%	\$146,346	8.3%	\$95,469	\$62,988	\$158,457	\$0	\$158,457	43.2%	\$136,750	\$90,224	\$226,974
10	40 REACH 01 Raise Piers	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0	0.0%	\$0	\$0	\$0
13	40 REACH 01 Pump Stations/Interior Drain	\$23,633	\$24,389	103.2%	\$48,022	8.3%	\$25,589	\$26,407	\$51,996	\$0	\$51,996	43.2%	\$36,653	\$37,826	\$74,479
10	40 REACH 01 Roller Gate/Vehicle Barriers	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0	0.0%	\$0	\$0	\$0
10	40 REACH 01 Large Gates/Closure Structu	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0	0.0%	\$0	\$0	\$0
16	40 REACH 01 Armoring	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0	0.0%	\$0	\$0	\$C
02	40 REACH 01 Temp Raise/Relocate Repla	\$62,594	\$57,857	92.4%	\$120,451	8.3%	\$67,774	\$62,646	\$130,420	\$0	. ,	43.2%	\$97,079	\$89,733	\$186,813
02	40 REACH 01 Demolition of Bldgs/Structur	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0	0.0%	\$0	\$0	\$0
02	40 REACH 01 Floodproofing Structures	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0		0.0%	\$0	\$0	\$0
ALL	40 REACH 01 Remaining Construction Iter	า \$10,923	\$8,172	74.8%	\$19,095	8.3%	\$11,827	\$8,848	\$20,675	\$0	\$20,675	43.2%	\$16,941	\$12,674	\$29,616
02	40 REACH 02 Utility Relocations	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0		0.0%	\$0	\$0	\$0
02	40 REACH 02 Transportation Corridor	\$294,092	\$239,699	81.5%	\$533,791	8.3%	\$318,431	\$259,536	\$577,968	\$0		43.2%	\$456,120	\$371,759	\$827,879
02	40 REACH 02 Bridge Replacement	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	-	0.0%	\$0	\$0	\$0
06	40 REACH 02 Plantings/EWN	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0		0.0%	\$0	\$0	\$0
11	40 REACH 02 Berms/Fill	\$8,683	\$6,176	71.1%	\$14,859	8.3%	\$9,402	\$6,687	\$16,089	\$0		43.2%	\$13,467	\$9,579	\$23,046
10	40 REACH 02 Ground Improvement/DSM	\$215,083	\$329,561	153.2%	\$544,644	8.3%	\$232,883	\$356,835	\$589,718	\$0	. ,	43.2%	\$333,582	\$511,131	\$844,712
10	40 REACH 02 Cantilever Walls/Pile Caps/	\$124,518	\$68,903	55.3%	\$193,421	8.3%	\$134,823	\$74,605	\$209,428	\$0		43.2%	\$193,120	\$106,865	\$299,985
11	40 REACH 02 Anchored Walls/T-Wall	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0		0.0%	\$0	\$0	\$0
10	40 REACH 02 Combi-Wall (Offshore)	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0	0.0%	\$0	\$0	\$0

Filename: SFWS TPCS 2023.08.18 w UPDATED ACCOUNTS **TPCS G Seismic**

10	40 REACH 02 Wharf Replacement	\$282,623	\$186,466	66.0%	\$469,089	8.3%	\$306,012	\$201,898	\$507,910	\$0	\$507,910
10	40 REACH 02 What Replacement 40 REACH 02 Raise Piers	\$202,023 \$0	\$100,400 \$0 -	00.0%	\$409,089 \$0	0.3%	\$300,012 \$0	¢201,696 \$0	۵۵ <i>۳</i> ,910 \$0	\$0 \$0	\$507,910 \$0
10	40 REACH 02 Pump Stations/Interior Drain	پ ں \$53,987	\$55,714	103.2%	پن \$109,700	- 8.3%	\$58,455	\$60,325	پو \$118,779	\$0 \$0	پو \$118,779
10	40 REACH 02 Poller Gate/Vehicle Barriers	403,987 \$0	\$05,714 \$0 -	103.270	\$109,700 \$0	0.370	\$38,433 \$0	\$00,325 \$0	\$110,779 \$0	\$0 \$0	\$110,779 \$0
10	40 REACH 02 Large Gates/Closure Struct	\$0 \$0	\$0 - \$0 -		\$0 \$0	-	\$0 \$0	\$0 \$0	ф0 \$0	\$0 \$0	\$0 \$0
16	40 REACH 02 Armoring	\$0 \$0	\$0 - \$0 -		\$0 \$0	-	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0
02	40 REACH 02 Temp Raise/Relocate Repla	₄₀ \$241,177	- ₉₀ - \$222,927	92.4%	ەن \$464,104	- 8.3%	پ و \$261,137	₄₀ \$241,377	ەت \$502,514	\$0 \$0	ەن \$502,514
02	40 REACH 02 Demolition of Bldgs/Structur	۶241,177 \$0	\$222,927 \$0 -	92.470	\$404,104 \$0	0.370	\$201,137 \$0	۶241,377 \$0	\$502,514 \$0	\$0 \$0	\$002,514 \$0
02	40 REACH 02 Floodproofing Structures	\$0 \$0	\$0 - \$0 -		\$0 \$0	-	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0
ALL		ہ ں \$18,109	- ₄₀ - \$13,548	74.8%	پ و \$31,657	- 8.3%	پو \$19,608	ہ ں \$14,669	ەت \$34,277	\$0 \$0	ەن \$34,277
02	40 REACH 02 Remaining Construction Item	\$10,109 \$0	۵13,546 + \$0 −	14.070		0.3%		. ,	۵34,277 \$0	\$0 \$0	\$34,277 \$0
02	40 REACH 03 Utility Relocations 40 REACH 03 Transportation Corridor		-	01 50/	\$0 \$202.167	- 8.3%	\$0 \$121.108	\$0 \$00 792	ەر \$219,981		ہو \$219,981
02		\$111,935 \$128,162	\$91,232 \$190,309	81.5% 148.5%	\$203,167 \$318,472	8.3%	\$121,198 \$138,769	\$98,782	\$219,981 \$344,828	\$0 \$0	\$219,981 \$344,828
02	40 REACH 03 Bridge Replacement 40 REACH 03 Plantings/EWN	\$120,102 \$15,169	\$9,464	62.4%	\$318,472 \$24,633	8.3% 8.3%	\$136,709 \$16,424	\$206,059 \$10,247	\$344,828 \$26,672	\$0 \$0	\$344,828 \$26,672
11	40 REACH 03 Plantings/EWN 40 REACH 03 Berms/Fill	\$13,109 \$11,192	\$9,404 \$7,960	02.4 <i>%</i> 71.1%	\$24,033 \$19,152	8.3%	\$10,424 \$12,118	\$8,619	\$20,072 \$20,737		\$20,072 \$20,737
10	40 REACH 03 Berns/Fill 40 REACH 03 Ground Improvement/DSM	\$11,192 \$81,752	\$7,900 \$125,264	153.2%	\$19,152 \$207,016	8.3%	\$12,110 \$88,517	\$0,019 \$135,631	\$20,737 \$224,148	\$0 \$0	\$20,7 <i>37</i> \$224,148
10	40 REACH 03 Ground improvement/DSivi 40 REACH 03 Cantilever Walls/Pile Caps/C	\$61,752 \$49,128	\$125,204 \$27,185	55.3%	\$207,018 \$76,313	8.3%	\$66,517 \$53,194	\$29,435	\$224,148 \$82,629	\$0 \$0	\$224,140 \$82,629
11	40 REACH 03 Cantilevel Walls/File Caps/C 40 REACH 03 Anchored Walls/T-Wall	\$49,120 \$33,483	\$27,105 \$28,032	55.3 <i>%</i> 83.7%	\$70,313 \$61,515	8.3%	\$35,194 \$36,254	\$29,435 \$30,352	\$66,606	\$0 \$0	\$66,606
10	40 REACH 03 Combi-Wall (Offshore)	\$03,405 \$0	\$20,032 \$0 -	00.7 /0	φ01,515 \$0	0.070	\$00,234 \$0	\$00,552 \$0	\$00,000 \$0	\$0 \$0	\$00,000 \$0
10	40 REACH 03 Wharf Replacement	پن \$112,420	- ₄₀ - \$74,171	66.0%	پن \$186,591	8.3%	پ و \$121,723	\$80,309	\$202,033	\$0 \$0	\$202,033
10	40 REACH 03 Raise Piers	\$0	\$0 -	00.070	\$0	-	\$0	¢00,000 \$0	¢202,000 \$0	\$0 \$0	\$0
13	40 REACH 03 Pump Stations/Interior Drain	\$131,150	\$135,345	103.2%	\$266,494	8.3%	\$142,004	\$146,546	\$288,550	\$0 \$0	\$288,550
10	40 REACH 03 Roller Gate/Vehicle Barriers	\$0	\$0 -	100.270	\$0	-	\$0	\$0	\$0	\$0 \$0	\$0
10	40 REACH 03 Large Gates/Closure Struct	\$0	\$0 -		\$0	-	\$0 \$0	\$0	\$0	\$0 \$0	\$0
16	40 REACH 03 Armoring	\$0	\$0 -		\$0 \$0	-	\$0 \$0	\$0	\$0 \$0	\$0 \$0	\$0
02	40 REACH 03 Temp Raise/Relocate Repla	\$89,485	\$82,714	92.4%	\$172,199	8.3%	\$96,891	\$89,559	\$186,451	\$0	\$186,451
02	40 REACH 03 Demolition of Bldgs/Structur	\$0	\$0 -	-	\$0	-	\$0	\$0	\$0	\$0	\$0
02	40 REACH 03 Floodproofing Structures	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0
ALL	40 REACH 03 Remaining Construction Item	\$6,948	\$5,198	74.8%	\$12,147	8.3%	\$7,523	\$5,629	\$13,152	\$0	\$13,152
02	40 REACH 04 Utility Relocations	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0
02	40 REACH 04 Transportation Corridor	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0
02	40 REACH 04 Bridge Replacement	\$72,949	\$108,322	148.5%	\$181,271	8.3%	\$78,986	\$117,287	\$196,273	\$0	\$196,273
06	40 REACH 04 Plantings/EWN	\$19,679	\$12,278	62.4%	\$31,957	8.3%	\$21,308	\$13,294	\$34,602	\$0	\$34,602
11	40 REACH 04 Berms/Fill	\$18,904	\$13,446	71.1%	\$32,350	8.3%	\$20,469	\$14,558	\$35,027	\$0	\$35,027
10	40 REACH 04 Ground Improvement/DSM	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0
10	40 REACH 04 Cantilever Walls/Pile Caps/C	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0
11	40 REACH 04 Anchored Walls/T-Wall	\$1,084	\$908	83.7%	\$1,992	8.3%	\$1,174	\$983	\$2,157	\$0	\$2,157
10	40 REACH 04 Combi-Wall (Offshore)	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0
10	40 REACH 04 Wharf Replacement	\$170,493	\$112,486	66.0%	\$282,979	8.3%	\$184,603	\$121,795	\$306,398	\$0	\$306,398
10	40 REACH 04 Raise Piers	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0
13	40 REACH 04 Pump Stations/Interior Drain	\$258,827	\$267,106	103.2%	\$525,932	8.3%	\$280,248	\$289,212	\$569,460	\$0	\$569,460
10	40 REACH 04 Roller Gate/Vehicle Barriers	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0
10	40 REACH 04 Large Gates/Closure Struct	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0
16	40 REACH 04 Armoring	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0
02	40 REACH 04 Temp Raise/Relocate Repla	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0
02	40 REACH 04 Demolition of Bldgs/Structur	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0
02	40 REACH 04 Floodproofing Structures	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0
ALL	40 REACH 04 Remaining Construction Iter	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0

			C C
43.2%	\$438,332	\$289,198	\$727,530
0.0%	\$0	\$0	\$0
43.2%	\$83,730	\$86,409	\$170,139
0.0%	\$0	\$0	\$0
0.0%	\$0	\$0	\$0
0.0%	\$0	\$0	\$0
43.2%	\$374,052	\$345,747	\$719,799
0.0%	\$0	\$0	\$0
0.0%	\$0	\$0	\$0
43.2%	\$28,086	\$21,013	\$49,099
0.0%	\$0	\$0	\$0
43.2%	\$173,604	\$141,496	\$315,100
43.2%	\$198,772	\$295,159	\$493,931
43.2%	\$23,526	\$14,678	\$38,205
43.2%	\$17,358	\$12,346	\$29,704
43.2%	\$126,792	\$194,277	\$321,070
43.2%	\$76,195	\$42,163	\$118,358
43.2%	\$51,929	\$43,476	\$95,406
0.0%	\$0	\$0	\$0
43.2%	\$174,356	\$115,035	\$289,392
0.0%	\$0	\$0	\$0
43.2%	\$203,406	\$209,912	\$413,318
0.0%	\$0	\$0	\$0
0.0%	\$0	\$0	\$0
0.0%	\$0	\$0	\$0
43.2%	\$138,787	\$128,285	\$267,071
0.0%	\$0	\$0	\$0
0.0%	\$0	\$0	\$0
43.2%	\$10,777	\$8,063	\$18,839
0.0%	\$0	\$0	\$0
0.0%	\$0	\$0	\$0
43.2%	\$113,139	\$168,001	\$281,140
43.2%	\$30,521	\$19,042	\$49,564
43.2%	\$29,319	\$20,853	\$50,173
0.0%	\$0	\$0	\$0
0.0%	\$0	\$0	\$0
43.2%	\$1,682	\$1,408	\$3,089
0.0%	\$0	\$0	\$0
43.2%	\$264,425	\$174,460	\$438,884
0.0%	\$0	\$0	\$0
43.2%	\$401,426	\$414,267	\$815,692
0.0%	\$0	\$0	\$0
0.0%	\$0	\$0	\$0
0.0%	\$O	\$0	\$0
0.0%	\$0	\$0	\$0
0.0%	\$0	\$0	\$O
0.0%	\$0	\$0	\$0
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0	o	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0
02	90 Overall Utility Relocations	\$26,622	\$70,426	264.5%	\$97,047	8.3%	\$28,825	\$76,254	\$105,079	\$0	\$105,079
10	90 Overall Seismic Ground Improvements	\$340,444	\$521,645	153.2%	\$862,088	8.3%	\$368,618	\$564,815	\$933,434	\$0	\$933,434
02	90 REACH 01 Utility Relocations	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0
02	90 REACH 01 Transportation Corridor	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0
02	90 REACH 01 Bridge Replacement	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0
06	90 REACH 01 Plantings/EWN	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0
11	90 REACH 01 Berms/Fill	\$2,160	\$1,536	71.1%	\$3,696	8.3%	\$2,338	\$1,663	\$4,001	\$0	\$4,001
10	90 REACH 01 Ground Improvement/DSM	\$21,978	\$33,675	153.2%	\$55,653	8.3%	\$23,796	\$36,462	\$60,258	\$0	\$60,258
10	90 REACH 01 Cantilever Walls/Pile Caps/C	\$2,807	\$1,553	55.3%	\$4,360	8.3%	\$3,039	\$1,682	\$4,721	\$0	\$4,721
11	90 REACH 01 Anchored Walls/T-Wall	\$16,053	\$13,440	83.7%	\$29,493	8.3%	\$17,382	\$14,552	\$31,934	\$0	\$31,934
10	90 REACH 01 Combi-Wall (Offshore)	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0
10	90 REACH 01 Wharf Replacement	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0
10	90 REACH 01 Raise Piers	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0
13	90 REACH 01 Pump Stations/Interior Drain	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0
10	90 REACH 01 Roller Gate/Vehicle Barriers	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0
10	90 REACH 01 Large Gates/Closure Struct	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0
16	90 REACH 01 Armoring	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0
02	90 REACH 01 Temp Raise/Relocate Repla	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0
02	90 REACH 01 Demolition of Bldgs/Structur	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0
02	90 REACH 01 Floodproofing Structures	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0
ALL	90 REACH 01 Remaining Construction Item	\$3,376	\$2,526	74.8%	\$5,902	8.3%	\$3,656	\$2,735	\$6,391	\$0	\$6,391
02	90 REACH 02 Utility Relocations	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0
02	90 REACH 02 Transportation Corridor	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0
02	90 REACH 02 Bridge Replacement	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0
06	90 REACH 02 Plantings/EWN	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0
11	90 REACH 02 Berms/Fill	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0
10	90 REACH 02 Ground Improvement/DSM	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0
10	90 REACH 02 Cantilever Walls/Pile Caps/	\$4,256	\$2,355	55.3%	\$6,611	8.3%	\$4,608	\$2,550	\$7,158	\$0	\$7,158
11	90 REACH 02 Anchored Walls/T-Wall	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0
10	90 REACH 02 Combi-Wall (Offshore)	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0
10	90 REACH 02 Wharf Replacement	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0
10	90 REACH 02 Raise Piers	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0
10	90 REACH 02 Pump Stations/Interior Drain	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0
10	90 REACH 02 Roller Gate/Vehicle Barriers	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0
10	90 REACH 02 Large Gates/Closure Struct	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0
16	90 REACH 02 Armoring	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0
02	90 REACH 02 Temp Raise/Relocate Repla	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0
02	90 REACH 02 Demolition of Bldgs/Structur	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0
02	90 REACH 02 Floodproofing Structures	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0
ALL	90 REACH 02 Remaining Construction Item	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0
02	90 REACH 03 Utility Relocations	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0
02	90 REACH 03 Transportation Corridor	\$693	\$564	81.5%	\$1,257	8.3%	\$750	\$611	\$1,361	\$0	\$1,361
02	90 REACH 03 Bridge Replacement	\$0	\$0 -	·	\$0	-	\$0	\$0	\$0	\$0	\$0
06	90 REACH 03 Plantings/EWN	\$28,174	\$17,578	62.4%	\$45,753	8.3%	\$30,506	\$19,033	\$49,539	\$0	\$49,539
11	90 REACH 03 Berms/Fill	\$42,484	\$30,217	71.1%	\$72,701	8.3%	\$46,000	\$32,718	\$78,718	\$0 \$0	\$78,718
10	90 REACH 03 Ground Improvement/DSM	\$0	\$0 -		\$0	-	\$0	\$0 ¢000	\$0	\$0 \$0	\$0 \$0,700
10	90 REACH 03 Cantilever Walls/Pile Caps/	\$1,653	\$915	55.3%	\$2,568	8.3%	\$1,790	\$990	\$2,780	\$0	\$2,780

0.0%	\$0	\$0	\$0
417%	\$149,004	\$394,181	\$543,186
417%	\$1,905,500	\$2,919,701	\$4,825,201
0%	\$0	\$0	\$0
0%	\$0	\$0	\$0
0%	\$0	\$0	\$0
0%	\$0	\$0	\$0
417%	\$12,087	\$8,597	\$20,685
417%	\$123,011	\$188,483	\$311,494
417%	\$15,712	\$8,694	\$24,406
417%	\$89,851	\$75,225	\$165,076
0%	\$0	\$0	\$0
0%	\$0 \$0	\$0	\$0
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0%	\$0	\$0	\$0
417%	\$18,898	\$14,139	\$33,037
0%	\$0	\$0	\$0
0%	\$0	\$0	\$0
0%	\$0	\$0	\$0
0%	\$0	\$0	\$0
0%	\$0	\$0	\$0
0%	\$0	\$0	\$0
417%	\$23,822	\$13,182	\$37,004
0%	\$0	\$0	\$0
0%	\$0	\$0	\$0
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0%	\$0	\$0	\$0
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0%	\$0	\$0	\$0
0%	\$0 \$0	\$0	\$0
0%	\$0	\$0	\$0 \$7
417%	\$3,876	\$3,159	\$7,036
0%	\$0	\$0	\$0
417%	\$157,696	\$98,388	\$256,084
417%	\$237,789	\$169,128	\$406,917
0%	\$0	\$0	\$0
417%	\$9,253	\$5,120	\$14,373

11	90 REACH 03 Anchored Walls/T-Wall	\$7,900	\$6,614	83.7%	\$14,515	8.3%	\$8,554	\$7,162	\$15,716	\$0	\$15,716
10	90 REACH 03 Combi-Wall (Offshore)	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0
10	90 REACH 03 Wharf Replacement	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0
10	90 REACH 03 Raise Piers	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0
13	90 REACH 03 Pump Stations/Interior Drain	\$15,683	\$16,185	103.2%	\$31,867	8.3%	\$16,981	\$17,524	\$34,505	\$0	\$34,505
10	90 REACH 03 Roller Gate/Vehicle Barriers	. ,	\$5,504	63.1%	\$14,219	8.3%	\$9,437	\$5,959	\$15,396	\$0	\$15,396
10	90 REACH 03 Large Gates/Closure Struct	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0
16	90 REACH 03 Armoring	\$4,977	\$2,653	53.3%	\$7,630	8.3%	\$5,389	\$2,872	\$8,262	\$0	\$8,262
02	90 REACH 03 Temp Raise/Relocate Repla	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0
02	90 REACH 03 Demolition of Bldgs/Structur	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0
02	90 REACH 03 Floodproofing Structures	\$40,871	\$37,469	91.7%	\$78,341	8.3%	\$44,254	\$40,570	\$84,824	\$0	\$84,824
ALL	90 REACH 03 Remaining Construction Iter	n \$15,871	\$11,874	74.8%	\$27,746	8.3%	\$17,185	\$12,857	\$30,042	\$0	\$30,042
02	90 REACH 04 Utility Relocations	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0
02	90 REACH 04 Transportation Corridor	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0
02	90 REACH 04 Bridge Replacement	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0
06	90 REACH 04 Plantings/EWN	\$178,932	\$111,637	62.4%	\$290,568	8.3%	\$193,741	\$120,876	\$314,617	\$0	\$314,617
11	90 REACH 04 Berms/Fill	\$51,905	\$36,917	71.1%	\$88,822	8.3%	\$56,201	\$39,973	\$96,173	\$0	\$96,173
10	90 REACH 04 Ground Improvement/DSM	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0
10	90 REACH 04 Cantilever Walls/Pile Caps/	\$1,057	\$585	55.3%	\$1,643	8.3%	\$1,145	\$634	\$1,779	\$0	\$1,779
11	90 REACH 04 Anchored Walls/T-Wall	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0
10	90 REACH 04 Combi-Wall (Offshore)	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0
10	90 REACH 04 Wharf Replacement	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0
10	90 REACH 04 Raise Piers	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0
13	90 REACH 04 Pump Stations/Interior Drain	\$1,331	\$1,374	103.2%	\$2,705	8.3%	\$1,441	\$1,487	\$2,929	\$0	\$2,929
10	90 REACH 04 Roller Gate/Vehicle Barriers	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0
10	90 REACH 04 Large Gates/Closure Struct	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0
16	90 REACH 04 Armoring	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0
02	90 REACH 04 Temp Raise/Relocate Repla	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0
02	90 REACH 04 Demolition of Bldgs/Structur		\$34,261	70.7%	\$82,688	8.3%	\$52,435	\$37,097	\$89,532	\$0	\$89,532
02	90 REACH 04 Floodproofing Structures	\$0	\$0 -	-	\$0	_	\$0	\$0	\$0	\$0	\$0
ALL	90 REACH 04 Remaining Construction Iter	-	\$9,328	74.8%	\$21,795	8.3%	\$13,499	\$10,100	\$23,599	\$0	\$23,599
		· • • • • • • • • • • • • • • • • • • •	<i>+</i> 0 ,0 <u></u> -0		<i> </i>		<i> </i>	<i>\</i> ,	<i> </i>	÷÷	+=0,000
	CONSTRUCTION ESTIMATE TOTALS:	\$5,681,012	\$6,605,177	-	\$12,286,189	8.3%	\$6,151,172	\$7,151,820	\$13,302,992	\$0	\$13,302,992
01	40 LANDS AND DAMAGES Reach 01	\$8,706	\$4,353	50.0%	\$13,059	8.3%	\$9,427	\$4,713	\$14,140	\$0	\$14,140
01	40 LANDS AND DAMAGES Reach 02	\$380	\$190	50.0%	\$570	8.3%	\$411	\$206	\$617	\$0	\$617
01	40 LANDS AND DAMAGES Reach 03	\$20,463	\$10,232	50.0%	\$30,695	8.3%	\$22,157	\$11,078	\$33,235	\$0	\$33,235
01	40 LANDS AND DAMAGES Reach 04	\$59,795	\$29,898	50.0%	\$89,693	8.3%	\$64,744	\$32,372	\$97,116	\$0	\$97,116
01	90 LANDS AND DAMAGES Reach 01	\$6,243	\$3,122	50.0%	\$9,365	8.3%	\$6,760	\$3,380	\$10,140	\$0	\$10,140
01	90 LANDS AND DAMAGES Reach 02	\$0	\$0	50.0%	\$0	0.0%	\$0	\$0	\$0	\$0	\$0
01	90 LANDS AND DAMAGES Reach 03	\$507,332	\$253,666	50.0%	\$760,998	8.3%	\$549,320	\$274,660	\$823,980	\$0	\$823,980
01	90 LANDS AND DAMAGES Reach 04	\$271,086	\$135,543	50.0%	\$406,629	8.3%	\$293,522	\$146,761	\$440,283	\$0	\$440,283
30	40 PLANNING, ENGINEERING & DESIGN	\$684,310	\$383,383	56.0%	\$1,067,693	7.4%	\$734,960	\$411,759	\$1,146,719	\$0	\$1,146,719
30	90 PLANNING, ENGINEERING & DESIGN	\$125,234	\$70,162	56.0%	\$195,397	7.4%	\$134,504	\$75,355	\$209,859	\$0	\$209,859
24				00 (0)			*-	***	* ~~~~~~~		* ****
31	40 CONSTRUCTION MANAGEMENT	\$348,158	\$219,648	63.1%	\$567,806	7.4%	\$373,927	\$235,905	\$609,832	\$0	\$609,832

417% 0% 0% 417%	\$44,219 \$0 \$0 \$87,779 \$48,782 \$0	\$37,021 \$0 \$0 \$0 \$90,587	\$81,240 \$0 \$0 \$0
0% 0%	\$0 \$0 \$87,779 \$48,782	\$0 \$0	\$0
0%	\$0 \$87,779 \$48,782	\$0	
	\$87,779 \$48,782		\$0
417%	\$48,782	\$90,587	
			\$178,366
417%	\$0	\$30,804	\$79,586
0%	F -	\$0	\$0
417%	\$27,859	\$14,848	\$42,707
0%	\$0	\$0	\$0
0%	\$0	\$0	\$0
417%	\$228,761	\$209,721	\$438,482
417%	\$88,835	\$66,462	\$155,296
0%	\$0	\$0	\$0
0%	\$0	\$0	\$0
0%	\$0	\$0	\$0
417%	\$1,001,505	\$624,846	\$1,626,351
417%	\$290,516	\$206,630	\$497,147
0%	\$0	\$0	\$0
417%	\$5,919	\$3,275	\$9,194
0%	\$0	\$0	\$0
0%	\$0	\$0	\$0
0%	\$0	\$0	\$0
0%	\$0	\$0	\$0
417%	\$7,450	\$7,689	\$15,139
0%	\$0	\$0	\$0
0%	\$0	\$0	\$0
0%	\$0	\$0	\$0
0%	\$0	\$0	\$0
417%	\$271,052	\$191,765	\$462,817
0%	\$0	\$0	\$0
417%	\$69,783	\$52,208	\$121,991
99.5% _	\$12,366,857	\$14,172,404	\$26,539,261
7.3%	\$10,119	\$5,059	\$15,178
7.3%	\$442	\$221	\$662
7.3%	\$23,783	\$11,892	\$35,675
7.3%	\$69,497	\$34,748	\$104,245
275.1%	\$25,358	\$12,679	\$38,036
0.0%	\$0	\$0	\$0
275.1%	\$2,060,661	\$1,030,330	\$3,090,991
275.1%	\$1,101,086	\$550,543	\$1,651,629
11.3%	\$817,976	\$458,269	\$1,276,245
203.4%	\$408,067	\$228,619	\$636,686
35.5%	\$506,610	\$319,614	\$826,224

31	90 CONSTRUCTION MANAGEMENT	\$63,716	\$40,197	63.1%	\$103,913	7.4%	\$68,432	\$43,173	\$111,604	\$0	\$111,604
	PROJECT COST TOTALS:	\$7,776,435	\$7,755,570	99.7%	\$15,532,005	<u> </u> 	\$8,409,334	\$8,391,182	\$16,800,516	\$0	\$16,800,516
		CHIEF, CO	OST ENGI	NEERIN	IG, xxx						
		PROJEC1	MANAGE	ER, xxx						ESTIMATE	
		CHIEF, RI	EAL ESTA	TE, xxx							
		CHIEF, PI	_ANNING,	XXX							
		CHIEF, EI	NGINEERI	NG, xxx	Σ.						
		CHIEF, O	PERATION	NS, XXX							
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		CHIEF, P CHIEF, DI		(X							
			- IVI, AAA	*	**** CONTRACT	COST SU	MMARY ****				
PROJECT: LOCATION: This Estimate re	SFWS San Francisco, CA eflects the scope and schedule in report;	Alternatives Ana	lysis						DISTRICT: POC:	SWT CHIEF, COST	ENGINEERIN

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266.3%	\$250,648	\$158,130	\$408,778
106.1%	\$17,641,103	\$16,982,508	\$34,623,611

L PROJECT COST:

\$34,623,611

NG, XXX

PREPARED:

DISTRICT: SWT POC: CHIEF, COST ENGINEERING, xxx

This Estimate reflects the scope and schedule in report;

Alternatives Analysis

Alternative B Intermediate Curve - Post DQC and Post ARA

Civil W	Vorks Work Breakdown Structure		ESTIMATED	COST					T FIRST COST It Dollar Basis)					PROJECT COS LY FUNDED)	ST .
							I	Program Year Effective Pric		2026 1 OCT 25	I				
										Spent Thru:	TOTAL				
WBS	Civil Works	COST	CNTG	CNTG	TOTAL	ESC	COST	CNTG	TOTAL	1-Oct-22	FIRST COST	INFLATED	COST	CNTG	FULL
<u>NUMBER</u>	Feature & Sub-Feature Description	<u>(\$K)</u>	<u>(\$K)</u>	(%)	<u>(\$K)</u>	_(%)_	<u>(\$K)</u>	<u>(\$K)</u>	(\$K)	<u>(\$K)</u>	<u>(\$K)</u>	<u>(%)</u>	<u>(\$K)</u>	<u>(\$K)</u>	<u>(\$K)</u>
Α	В	С	D	E	F	G	Н	I	J		К	L	М	Ν	0
02	40 REACH 01 Demolition of Bldgs/Structur	\$991	\$701	70.7%	\$1,692	8.3%	\$1,073	\$759	\$1,832	\$0	\$1,832	43.2%	\$1,537	\$1,087	\$2,624
02	40 REACH 01 Floodproofing Structures	\$6,289	\$5,766	91.7%	\$12,055	8.3%	\$6,810	\$6,243	\$13,053	\$0		43.2%	\$9,754	\$8,942	\$18,697
02	40 REACH 02 Demolition of Bldgs/Structur	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0		0.0%	\$0	\$0	\$0
02	40 REACH 02 Floodproofing Structures	\$9,160	\$8,397	91.7%	\$17,557	8.3%	\$9,918	\$9,092	\$19,010	\$0	-	43.2%	\$14,206	\$13,024	\$27,230
02	40 REACH 03 Demolition of Bldgs/Structur	\$2,199	\$1,556	70.7%	\$3,756	8.3%	\$2,381	\$1,685	\$4,066	\$0		43.2%	\$3,411	\$2,413	\$5,825
02	40 REACH 03 Floodproofing Structures	\$139,487	\$127,877	91.7%	\$267,364	8.3%	\$151,031	\$138,460	\$289,491	\$0	\$289,491	43.2%	\$216,336	\$198,330	\$414,666
02	40 REACH 04 Demolition of Bldgs/Structur	\$1,161	\$821	70.7%	\$1,982	8.3%	\$1,257	\$889	\$2,146	\$0	\$2,146	43.2%	\$1,801	\$1,274	\$3,075
02	40 REACH 04 Floodproofing Structures	\$20,079	\$18,408	91.7%	\$38,487	8.3%	\$21,741	\$19,931	\$41,672	\$0	\$41,672	43.2%	\$31,142	\$28,550	\$59,692
02	65 REACH 01 Demolition of Bldgs/Structur	\$63	\$45	70.7%	\$108	8.3%	\$69	\$49	\$117	\$0	\$117	172.1%	\$187	\$132	\$319
02	65 REACH 01 Floodproofing Structures	\$714	\$655	91.7%	\$1,369	8.3%	\$773	\$709	\$1,482	\$0	\$1,482	172.1%	\$2,104	\$1,929	\$4,033
02	65 REACH 02 Demolition of Bldgs/Structur	\$722	\$511	70.7%	\$1,233	8.3%	\$782	\$553	\$1,335	\$0	\$1,335	172.1%	\$2,128	\$1,505	\$3,633
02	65 REACH 02 Floodproofing Structures	\$43,276	\$39,674	91.7%	\$82,951	8.3%	\$46,858	\$42,958	\$89,816	\$0	\$89,816	172.1%	\$127,506	\$116,894	\$244,400
02	65 REACH 03 Demolition of Bldgs/Structur	\$40	\$29	70.7%	\$69	8.3%	\$44	\$31	\$75	\$0	\$75	172.1%	\$119	\$84	\$203
02	65 REACH 03 Floodproofing Structures	\$30,926	\$28,352	91.7%	\$59,279	8.3%	\$33,486	\$30,699	\$64,185	\$0	\$64,185	172.1%	\$91,119	\$83,535	\$174,655
02	65 REACH 04 Demolition of Bldgs/Structur	\$3,817	\$2,701	70.7%	\$6,518	8.3%	\$4,133	\$2,924	\$7,057	\$0	\$7,057	172.1%	\$11,247	\$7,957	\$19,204
02	65 REACH 04 Floodproofing Structures	\$6,642	\$6,089	91.7%	\$12,731	8.3%	\$7,192	\$6,593	\$13,785	\$0	\$13,785	172.1%	\$19,570	\$17,941	\$37,510
02	90 REACH 01 Demolition of Bldgs/Structur	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0	0%	\$0	\$0	\$0
02	90 REACH 01 Floodproofing Structures	\$16,552	\$15,174	91.7%	\$31,726	8.3%	\$17,922	\$16,430	\$34,352	\$0	\$34,352	417%	\$92,644	\$84,933	\$177,577
02	90 REACH 02 Demolition of Bldgs/Structur	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0	0%	\$0	\$0	\$0
02	90 REACH 02 Floodproofing Structures	\$10,307	\$9,450	91.7%	\$19,757	8.3%	\$11,160	\$10,232	\$21,392	\$0	\$21,392	417%	\$57,692	\$52,890	\$110,582
02	90 REACH 03 Demolition of Bldgs/Structur	\$26,403	\$18,680	70.7%	\$45,082	8.3%	\$28,588	\$20,225	\$48,813	\$0	\$48,813	417%	\$147,779	\$104,552	\$252,331
02	90 REACH 03 Floodproofing Structures	\$54,279	\$49,761	91.7%	\$104,040	8.3%	\$58,771	\$53,879	\$112,650	\$0	\$112,650	417%	\$303,805	\$278,519	\$582,323
02	90 REACH 04 Demolition of Bldgs/Structur	\$14,336	\$10,142	70.7%	\$24,478	8.3%	\$15,522	\$10,982	\$26,504	\$0	\$26,504	417%	\$80,239	\$56,768	\$137,007
02	90 REACH 04 Floodproofing Structures	\$6,180	\$5,666	91.7%	\$11,846	8.3%	\$6,692	\$6,135	\$12,826	\$0	\$12,826	417%	\$34,591	\$31,712	\$66,303
02	15 REACH 01 Demolition of Bldgs/Structur	\$11,262	\$7,967	70.7%	\$19,229	8.3%	\$12,194	\$8,627	\$20,821	\$0	\$20,821	884%	\$120,033	\$84,922	\$204,955
02	15 REACH 01 Floodproofing Structures	\$10,972	\$10,059	91.7%	\$21,031	8.3%	\$11,880	\$10,891	\$22,772	\$0	\$22,772	884%	\$116,948	\$107,214	\$224,161
02	15 REACH 02 Demolition of Bldgs/Structur	\$621	\$439	70.7%	\$1,060	8.3%	\$672	\$475	\$1,147	\$0	\$1,147	884%	\$6,615	\$4,680	\$11,295
02	15 REACH 02 Floodproofing Structures	\$3,464	\$3,176	91.7%	\$6,640	8.3%	\$3,751	\$3,439	\$7,189	\$0	\$7,189	884%	\$36,923	\$33,849	\$70,772
02	15 REACH 03 Demolition of Bldgs/Structur	\$29	\$20	70.7%	\$49	8.3%	\$31	\$22	\$53	\$0	\$53	884%	\$304	\$215	\$520
02	15 REACH 03 Floodproofing Structures	\$30,456	\$27,921	91.7%	\$58,376	8.3%	\$32,976	\$30,231	\$63,208	\$0	\$63,208	884%	\$324,613	\$297,595	\$622,207
02	15 REACH 04 Demolition of Bldgs/Structur	\$8,031	\$5,682	70.7%	\$13,712	8.3%	\$8,695	\$6,152	\$14,847	\$0	\$14,847	884%	\$85,595	\$60,557	\$146,152
02	15 REACH 04 Floodproofing Structures	\$3,334	\$3,057	91.7%	\$6,391	8.3%	\$3,610	\$3,310	\$6,920	\$0	\$6,920	884%	\$35,540	\$32,582	\$68,122

PREPARED:

	CONSTRUCTION ESTIMATE TOTALS:	\$461,793	\$408,776		\$870,569	8.3%	\$500,011	\$442,606	\$942,618	\$0	\$942,618	291.5%	\$1,975,486	\$1,714,586	\$3,690,0
)1	40 LANDS AND DAMAGES	\$0	\$0	25.0%	\$0	0.0%	\$0	\$0	\$0	\$0	\$0	0.0%	\$0	\$0	
)1	65 LANDS AND DAMAGES	\$0	\$0	25.0%	\$0	0.0%	\$0	\$0	\$0	\$0	\$0	0.0%	\$0	\$0	
)1	90 LANDS AND DAMAGES	\$0	\$0	25.0%	\$0	0.0%	\$0	\$0	\$0	\$0	\$0	0.0%	\$0	\$0	
)1	15 LANDS AND DAMAGES	\$0	\$0	25.0%	\$0	0.0%	\$0	\$O	\$0	\$0	\$0	0.0%	\$0	\$0	
80	40 PLANNING, ENGINEERING & DESIGN	\$25,560	\$14,320	56.0%	\$39,879	7.4%	\$27,452	\$15,380	\$42,831	\$0	\$42,831	11.3%	\$30,552	\$17,117	\$47,
80	65 PLANNING, ENGINEERING & DESIGN	\$12,284	\$6,882	56.0%	\$19,166	7.4%	\$13,193	\$7,391	\$20,584	\$0	\$20,584	86.3%	\$24,578	\$13,770	\$38,
80	90 PLANNING, ENGINEERING & DESIGN	\$18,248	\$10,223	56.0%	\$28,472	7.4%	\$19,599	\$10,980	\$30,579	\$0	\$30,579	203.4%	\$59,460	\$33,312	\$92
80	15 PLANNING, ENGINEERING & DESIGN	\$9,714	\$5,442	56.0%	\$15,156	7.4%	\$10,433	\$5,845	\$16,278	\$0	\$16,278	386.6%	\$50,770	\$28,444	\$79.
81	40 CONSTRUCTION MANAGEMENT	\$13,004	\$8,204	63.1%	\$21,208	7.4%	\$13,967	\$8,811	\$22,778	\$0	\$22,778	35.5%	\$18,922	\$11,938	\$30,
51 1	65 CONSTRUCTION MANAGEMENT	\$6,250	\$3,943	63.1%	\$10,192	7.4%	\$6,712	\$4,235	\$10,947	\$0	\$10,947	123.3%	\$14,985	\$9,454	\$24,
B1	90 CONSTRUCTION MANAGEMENT	\$9,284	\$5,857	63.1%	\$15,141	7.4%	\$9,971	\$6,291	\$16,262	\$0	\$16,262	266.3%	\$36,522	\$23,041	\$59,
1	15 CONSTRUCTION MANAGEMENT	\$4,942	\$3,118	63.1%	\$8,060	7.4%	\$5,308	\$3,349	\$8,657	\$0	\$8,657	586.4%	\$36,432	\$22,984	\$59
	PROJECT COST TOTALS:	\$561,079	\$466,765	83.2%	\$1,027,844	Ì	\$606,646	\$504,888	\$1,111,533	\$0	\$1,111,533	270.9%	\$2,247,708	\$1,874,646	\$4,122
		CHIEF, CO	ST ENGIN	FERING											
					, , , , , , , , , , , , , , , , , , , ,					ESTIMAT	ED TOTAL	. PROJEC	CT COST:		\$4,122,3
				-											
		PROJECT	MANAGE	۲, XXX											
				·											
		CHIEF, RE		·											
			AL ESTAT	E, xxx											
		CHIEF, RE CHIEF, PL	AL ESTAT	E, xxx											
		CHIEF, RE	AL ESTAT	E, xxx											
		CHIEF, RE CHIEF, PL	AL ESTAT ANNING, X	E, xxx xxx G, xxx											
		CHIEF, RE CHIEF, PL CHIEF, EN	AL ESTAT ANNING, X GINEERIN PERATIONS	E, XXX XXX G, XXX S, XXX	x										
		CHIEF, RE CHIEF, PL CHIEF, EN CHIEF, OP CHIEF, CO	AL ESTAT	E, XXX XXX G, XXX S, XXX TION, XX	x										
		CHIEF, RE CHIEF, PL CHIEF, EN CHIEF, OP	AL ESTAT	E, XXX XXX G, XXX S, XXX TION, XX	x										
		CHIEF, RE CHIEF, PL CHIEF, EN CHIEF, OP CHIEF, CO	AL ESTAT	E, XXX XXX G, XXX S, XXX TON, XX NG,XXX	X										
		CHIEF, RE CHIEF, PL CHIEF, EN CHIEF, OP CHIEF, CO CHIEF, CO	AL ESTAT ANNING, x GINEERIN PERATIONS ONSTRUCT ONTRACTIN M-PB, xxxx	E, XXX XXX G, XXX S, XXX TON, XX NG,XXX	x										
		CHIEF, RE CHIEF, PL CHIEF, EN CHIEF, OP CHIEF, CO CHIEF, CO CHIEF, PM	AL ESTAT ANNING, x GINEERIN PERATIONS ONSTRUCT ONTRACTIN M-PB, xxxx	E, xxx xx G, xxx S, xxx TON, xx NG,xxx	X	COST SUM	MARY ****								
CT:		CHIEF, RE CHIEF, PL CHIEF, EN CHIEF, OP CHIEF, CO CHIEF, CO CHIEF, PM	AL ESTAT ANNING, x GINEERIN PERATIONS ONSTRUCT ONTRACTIN M-PB, xxxx	E, xxx xx G, xxx S, xxx TON, xx NG,xxx		COST SUM	MARY ****		DISTRICT:	SWT				PREPARED:	8/4/2023

DISTRICT: SWT POC: CHIEF, COST ENGINEERING, xxx

This Estimate reflects the scope and schedule in report;

Alternatives Analysis

Alternative B High Curve - Post DQC and Post ARA

Civil W	Vorks Work Breakdown Structure		ESTIMATED	O COST					CT FIRST COST nt Dollar Basis)					. PROJECT COS LLY FUNDED)	ST
								Program Year Effective Pric	(Budget EC): e Level Date:	2026 1 OCT 25					
										Spent Thru:	TOTAL				
WBS	Civil Works	COST	CNTG	CNTG	TOTAL	ESC	COST	CNTG	TOTAL	1-Oct-22	FIRST COST	INFLATED	COST	CNTG	FULL
NUMBER	Feature & Sub-Feature Description	<u>(\$K)</u>	<u>(\$K)</u>	<u>(%)</u>	<u>(\$K)</u>	<u>(%)</u>	<u>(\$K)</u>	<u>(\$K)</u>	<u>(\$K)</u>	<u>(\$K)</u>	<u>(\$K)</u>	<u>(%)</u>	<u>(\$K)</u>	<u>(\$K)</u>	<u>(\$K)</u>
Α	В	С	D	E	F	G	Н	Ι	J		K	L	М	N	0
02	40 REACH 01 Demolition of Bldgs/Structur	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0	0.0%	\$0	\$0	\$C
02	40 REACH 01 Floodproofing Structures	\$35,081	\$32,162	91.7%	\$67,243	8.3%	\$37,985	\$34,823	\$72,808	\$0	\$72,808	43.2%	\$54,409	\$49,881	\$104,290
02	40 REACH 02 Demolition of Bldgs/Structur	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0	0.0%	\$0	\$0	\$C
02	40 REACH 02 Floodproofing Structures	\$48,553	\$44,512	91.7%	\$93,065	8.3%	\$52,571	\$48,196	\$100,767	\$0	\$100,767	43.2%	\$75,303	\$69,035	\$144,338
02	40 REACH 03 Demolition of Bldgs/Structur	\$26,487	\$18,739	70.7%	\$45,226	8.3%	\$28,679	\$20,290	\$48,969	\$0	\$48,969	43.2%	\$41,080	\$29,063	\$70,143
02	40 REACH 03 Floodproofing Structures	\$256,325	\$234,991	91.7%	\$491,317	8.3%	\$277,539	\$254,439	\$531,978	\$0	\$531,978	43.2%	\$397,546	\$364,458	\$762,004
02	40 REACH 04 Demolition of Bldgs/Structur	\$14,594	\$10,325	70.7%	\$24,919	8.3%	\$15,802	\$11,179	\$26,981	\$0	\$26,981	43.2%	\$22,634	\$16,013	\$38,647
02	40 REACH 04 Floodproofing Structures	\$40,128	\$36,789	91.7%	\$76,917	8.3%	\$43,449	\$39,833	\$83,283	\$0	\$83,283	43.2%	\$62,237	\$57,057	\$119,294
02	65 REACH 01 Demolition of Bldgs/Structur	\$11,645	\$8,239	70.7%	\$19,884	8.3%	\$12,609	\$8,921	\$21,530	\$0	\$21,530	172.1%	\$34,311	\$24,275	\$58,586
02	65 REACH 01 Floodproofing Structures	\$13,197	\$12,099	91.7%	\$25,296	8.3%	\$14,289	\$13,100	\$27,389	\$0	\$27,389	172.1%	\$38,883	\$35,646	\$74,529
02	65 REACH 02 Demolition of Bldgs/Structur	\$261,070	\$184,703	70.7%	\$445,772	8.3%	\$282,676	\$199,989	\$482,665	\$0	\$482,665	172.1%	\$769,195	\$544,194	\$1,313,390
02	65 REACH 02 Floodproofing Structures	\$8,641	\$7,922	91.7%	\$16,563	8.3%	\$9,356	\$8,577	\$17,933	\$0	\$17,933	172.1%	\$25,459	\$23,340	\$48,799
02	65 REACH 03 Demolition of Bldgs/Structur	\$336,772	\$238,261	70.7%	\$575,033	8.3%	\$364,643	\$257,980	\$622,623	\$0	\$622,623	172.1%	\$992,239	\$701,994	\$1,694,233
02	65 REACH 03 Floodproofing Structures	\$66,616	\$61,071	91.7%	\$127,687	8.3%	\$72,129	\$66,126	\$138,255	\$0	\$138,255	172.1%	\$196,272	\$179,936	\$376,208
02	65 REACH 04 Demolition of Bldgs/Structur	\$67,219	\$47,556	70.7%	\$114,775	8.3%	\$72,782	\$51,492	\$124,274	\$0	\$124,274	172.1%	\$198,048	\$140,116	\$338,164
02	65 REACH 04 Floodproofing Structures	\$30,379	\$27,851	91.7%	\$58,230	8.3%	\$32,894	\$30,156	\$63,050	\$0	\$63,050	172.1%	\$89,508	\$82,058	\$171,566
02	90 REACH 01 Demolition of Bldgs/Structur	\$102,461	\$72,489	70.7%	\$174,950	8.3%	\$110,940	\$78,489	\$189,429	\$0	\$189,429	417%	\$573,485	\$405,732	\$979,217
02	90 REACH 01 Floodproofing Structures	\$27,545	\$25,252	91.7%	\$52,797	8.3%	\$29,824	\$27,342	\$57,166	\$0	\$57,166	417%	\$154,170	\$141,338	\$295,509
02	90 REACH 02 Demolition of Bldgs/Structur	\$286,333	\$202,576	70.7%	\$488,909	8.3%	\$310,030	\$219,342	\$529,372	\$0	\$529,372	417%	\$1,602,640	\$1,133,844	\$2,736,484
02	90 REACH 02 Floodproofing Structures	\$19,752	\$18,108	91.7%	\$37,860	8.3%	\$21,386	\$19,606	\$40,993	\$0	. ,	417%	\$110,553	\$101,352	\$211,905
02	90 REACH 03 Demolition of Bldgs/Structur	\$524,400	\$371,005	70.7%	\$895,406	8.3%	\$567,800	\$401,710	\$969,510	\$0	. ,	417%	\$2,935,132	\$2,076,562	\$5,011,694
02	90 REACH 03 Floodproofing Structures	\$67,957	\$62,301	91.7%	\$130,258	8.3%	\$73,581	\$67,457	\$141,039	\$0	. ,	417%	\$380,365	\$348,707	\$729,072
02	90 REACH 04 Demolition of Bldgs/Structur	\$72,127	\$51,029	70.7%	\$123,156	8.3%	\$78,096	\$55,252	\$133,348	\$0	. ,	417%	\$403,704	\$285,615	\$689,319
02	90 REACH 04 Floodproofing Structures	\$35,533	\$32,576	91.7%	\$68,108	8.3%	\$38,474	\$35,271	\$73,745	\$0	\$73,745	417%	\$198,882	\$182,329	\$381,211
02	15 REACH 01 Demolition of Bldgs/Structur	\$59,399	\$42,024	70.7%	\$101,423	8.3%	\$64,315	\$45,502	\$109,817	\$0	\$109,817	884%	\$633,108	\$447,915	\$1,081,023
02	15 REACH 01 Floodproofing Structures	\$22,098	\$20,258	91.7%	\$42,356	8.3%	\$23,926	\$21,935	\$45,862	\$0	. ,	884%	\$235,529	\$215,926	\$451,455
02	15 REACH 02 Demolition of Bldgs/Structur	\$150,809	\$106,695	70.7%	\$257,504	8.3%	\$163,290	\$115,525	\$278,816	\$0	\$278,816	884%	\$1,607,408	\$1,137,217	\$2,744,626
02	15 REACH 02 Floodproofing Structures	\$27,764	\$25,453	91.7%	\$53,216	8.3%	\$30,061	\$27,559	\$57,621	\$0	\$57,621	884%	\$295,920	\$271,290	\$567,210
02	15 REACH 03 Demolition of Bldgs/Structur	\$177,744	\$125,752	70.7%	\$303,496	8.3%	\$192,455	\$136,159	\$328,613	\$0	\$328,613	884%	\$1,894,499	\$1,340,330	\$3,234,829
02	15 REACH 03 Floodproofing Structures	\$67,594	\$61,968	91.7%	\$129,563	8.3%	\$73,188	\$67,097	\$140,285	\$0	\$140,285	884%	\$720,458	\$660,493	\$1,380,951
02	15 REACH 04 Demolition of Bldgs/Structur	\$52,569	\$37,191	70.7%	\$89,760	8.3%	\$56,919	\$40,269	\$97,189	\$0	\$97,189	884%	\$560,305	\$396,407	\$956,712
02	15 REACH 04 Floodproofing Structures	\$28,562	\$26,185	91.7%	\$54,746	8.3%	\$30,926	\$28,352	\$59,277	\$0	\$59,277	884%	\$304,428	\$279,090	\$583,518

PREPARED:

		1													
	CONSTRUCTION ESTIMATE TOTALS:	\$2,939,354	\$2,246,082	-	\$5,185,436	8.3%	\$3,182,616	\$2,431,968	\$5,614,584	\$0	\$5,614,584	387.1%	\$15,607,711	\$11,741,214	\$27,348,92
01	40 LANDS AND DAMAGES	\$0	\$0	25.0%	\$0	0.0%	\$0	\$0	\$0	\$0	\$0	0.0%	\$0	\$0	\$1
01	65 LANDS AND DAMAGES	\$0	\$0	25.0%	\$0	0.0%	\$0	\$0	\$0	\$0		0.0%	\$0	\$0	\$
01	90 LANDS AND DAMAGES	\$0	\$0	25.0%	\$0	0.0%	\$0	\$0	\$0	\$0		0.0%	\$0	\$0	\$
01	15 LANDS AND DAMAGES	\$0	\$0	25.0%	\$0	0.0%	\$0	\$0	\$0	\$0	\$0	0.0%	\$0	\$0	\$
30	40 PLANNING, ENGINEERING & DESIGN	\$60,017	\$33,624	56.0%	\$93,641	7.4%	\$64,459	\$36,113	\$100,572	\$0	\$100,572	11.3%	\$71,740	\$40,192	\$111,93
30	65 PLANNING, ENGINEERING & DESIGN	\$113,364	\$63,512	56.0%	\$176,876	7.4%	\$121,755	\$68,213	\$189,968	\$0	\$189,968	86.3%	\$226,821	\$127,076	\$353,89
30	90 PLANNING, ENGINEERING & DESIGN	\$161,895	\$90,701	56.0%	\$252,597	7.4%	\$173,878	\$97,415	\$271,293	\$0	\$271,293	203.4%	\$527,524	\$295,544	\$823,06
30	15 PLANNING, ENGINEERING & DESIGN	\$83,582	\$46,826	56.0%	\$130,408	7.4%	\$89,768	\$50,292	\$140,061	\$0	\$140,061	386.6%	\$436,843	\$244,740	\$681,58
31	40 CONSTRUCTION MANAGEMENT	\$30,535	\$19,264	63.1%	\$49,799	7.4%	\$32,795	\$20,690	\$53,485	\$0	\$53,485	35.5%	\$44,432	\$28,031	\$72,46
31	65 CONSTRUCTION MANAGEMENT	\$57,677	\$36,387	63.1%	\$94,064	7.4%	\$61,946	\$39,081	\$101,026	\$0	\$101,026	123.3%	\$138,297	\$87,250	\$225,54
31	90 CONSTRUCTION MANAGEMENT	\$82,368	\$51,965	63.1%	\$134,333	7.4%	\$88,464	\$55,811	\$144,275	\$0	\$144,275	266.3%	\$324,022	\$204,421	\$528,44
31	15 CONSTRUCTION MANAGEMENT	\$42,524	\$26,828	63.1%	\$69,352	7.4%	\$45,672	\$28,814	\$74,485	\$0	\$74,485	586.4%	\$313,469	\$197,763	\$511,23
	PROJECT COST TOTALS:	\$3,571,316	\$2,615,190	73.2%	\$6,186,505	<u> </u>	¢3 861 353	\$2,828,396	\$6,689,749	۵۵	\$6,689,749	358.3%	\$17,600,850	\$12,966,232	\$30,657,09
			OST ENGIN		G, XXX					ESTIMAT	ED TOTAL	_ PROJE	CT COST:		\$30,657,09
		PROJECI		≺, XXX											
		CHIEF, RE	EAL ESTAT	E, xxx											
		CHIEF, PL	_ANNING, x	XX											
			NGINEERIN												
				0,											
		CHIEF, OI	PERATION	S, xxx											
		CHIEF, CO	ONSTRUCT	ION, xx	x										
		CHIEF, CO	ONTRACTI	NG,xxx											
		CHIEF, P	M-PB, xxxx	C											
			·												
		CHIEF, DF	- 141, XXX												
				*	*** CONTRACT	COST SU	MMARY ****								
JECT:	SFWS								DISTRICT:	SWT				PREPARED:	8/4/2023

DISTRICT: SWT POC: CHIEF, COST ENGINEERING, xxx

This Estimate reflects the scope and schedule in report;

Alternatives Analysis

Alternative C non-Seismic - Post DQC and Post ARA

Civil W	Vorks Work Breakdown Structure		ESTIMATED	COST					T FIRST COST nt Dollar Basis)					PROJECT COS LLY FUNDED)	Т
								Program Year Effective Pric		2026 1 OCT 25					
										Spent Thru:	TOTAL				
WBS	Civil Works	COST	CNTG	CNTG	TOTAL	ESC	COST	CNTG	TOTAL	1-Oct-22	FIRST COST	INFLATED	COST	CNTG	FULL
NUMBER	Feature & Sub-Feature Description	<u>(\$K)</u>	<u>(\$K)</u>	<u>(%)</u>	<u>(\$K)</u>	<u>(%)</u>	<u>(\$K)</u>	<u>(\$K)</u>	<u>(\$K)</u>	<u>(\$K)</u>	<u>(\$K)</u>	<u>(%)</u>	<u>(\$K)</u>	<u>(\$K)</u>	<u>(\$K)</u>
Α	В	C	D	E	F	G	Н	I	J		K	L	М	Ν	0
02	40 Overall Structures Floodproofing Conc.	\$59,298	\$54,362	91.7%	\$113,660	8.3%	\$64,205	\$58,861	\$123,067	\$C	\$123,067	43.2%	\$91,968	\$84,313	\$176,281
02	40 Overall Utility Relocations	\$13,311	\$35,213	264.5%	\$48,524	8.3%	\$14,412	\$38,127	\$52,540	\$C		43.2%	\$20,644	\$54,613	\$75,257
10	40 Overall Seismic Ground Improvements	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$C	\$0	0.0%	\$0	\$0	\$0
10	40 Overall Seismic Transportation Corrido	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$C	\$0	0.0%	\$0	\$0	\$0
02	40 REACH 01 Utility Relocations	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$C	\$0	0.0%	\$0	\$0	\$0
02	40 REACH 01 Transportation Corridor	\$4,118	\$3,356	81.5%	\$7,474	8.3%	\$4,458	\$3,634	\$8,092	\$C	\$8,092	43.2%	\$6,386	\$5,205	\$11,591
02	40 REACH 01 Bridge Replacement	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$C	\$0	0.0%	\$0	\$0	\$0
06	40 REACH 01 Plantings/EWN	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$C	\$0	0.0%	\$0	\$0	\$0
11	40 REACH 01 Berms/Fill	\$724	\$515	71.1%	\$1,239	8.3%	\$784	\$557	\$1,341	\$C	\$1,341	43.2%	\$1,123	\$799	\$1,921
10	40 REACH 01 Ground Improvement/DSM	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$C	\$0	0.0%	\$0	\$0	\$0
10	40 REACH 01 Cantilever Walls/Pile Caps/	\$5,622	\$3,111	55.3%	\$8,734	8.3%	\$6,088	\$3,369	\$9,456	\$C	\$9,456	43.2%	\$8,720	\$4,825	\$13,545
11	40 REACH 01 Anchored Walls/T-Wall	\$18,023	\$15,089	83.7%	\$33,113	8.3%	\$19,515	\$16,338	\$35,853	\$C	\$35,853	43.2%	\$27,953	\$23,403	\$51,356
10	40 REACH 01 Combi-Wall (Offshore)	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$C	\$0	0.0%	\$0	\$0	\$0
10	40 REACH 01 Wharf Replacement	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$C	\$0	0.0%	\$0	\$0	\$0
10	40 REACH 01 Raise Piers	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$C	\$0	0.0%	\$0	\$0	\$0
13	40 REACH 01 Pump Stations/Interior Drain	\$3,322	\$3,428	103.2%	\$6,751	8.3%	\$3,597	\$3,712	\$7,309	\$C	\$7,309	43.2%	\$5,152	\$5,317	\$10,470
10	40 REACH 01 Roller Gate/Vehicle Barriers	\$365	\$231	63.1%	\$596	8.3%	\$395	\$250	\$645	\$C	\$645	43.2%	\$566	\$358	\$924
10	40 REACH 01 Large Gates/Closure Struct	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$C	\$0	0.0%	\$0	\$0	\$0
16	40 REACH 01 Armoring	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$C	\$0	0.0%	\$0	\$0	\$0
02	40 REACH 01 Temp Raise/Relocate Repla	\$12,463	\$11,520	92.4%	\$23,983	8.3%	\$13,495	\$12,473	\$25,968	\$C	\$25,968	43.2%	\$19,330	\$17,867	\$37,197
02	40 REACH 01 Demolition of Bldgs/Structur	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$C	\$0	0.0%	\$0	\$0	\$0
02	40 REACH 01 Floodproofing Structures	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$C	\$0	0.0%	\$0	\$0	\$0
ALL	40 REACH 01 Remaining Construction Iter	\$7,587	\$5,676	74.8%	\$13,263	8.3%	\$8,215	\$6,146	\$14,361	\$C	\$14,361	43.2%	\$11,767	\$8,804	\$20,571
02	40 REACH 02 Utility Relocations	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$C	\$0	0.0%	\$0	\$0	\$0
02	40 REACH 02 Transportation Corridor	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$C	\$0	0.0%	\$0	\$0	\$0
02	40 REACH 02 Bridge Replacement	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$C	\$0	0.0%	\$0	\$0	\$0
06	40 REACH 02 Plantings/EWN	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$C	\$0	0.0%	\$0	\$0	\$0
11	40 REACH 02 Berms/Fill	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$C	\$0	0.0%	\$0	\$0	\$0
10	40 REACH 02 Ground Improvement/DSM	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$C	\$0	0.0%	\$0	\$0	\$0
10	40 REACH 02 Cantilever Walls/Pile Caps/	\$8,178	\$4,525	55.3%	\$12,703	8.3%	\$8,855	\$4,900	\$13,754	\$C	\$13,754	43.2%	\$12,683	\$7,018	\$19,702
11	40 REACH 02 Anchored Walls/T-Wall	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$C	\$0	0.0%	\$0	\$0	\$0
10	40 REACH 02 Combi-Wall (Offshore)	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$C	\$0	0.0%	\$0	\$0	\$0

PREPARED:

10	40 REACH 02 Wharf Replacement	\$0	\$0 -		\$0	Ι.	\$0	\$0	\$0	\$0	\$0
	40 REACH 02 Raise Piers	\$0 \$0	\$0 - \$0 -		\$0 \$0		\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0
	40 REACH 02 Pump Stations/Interior Drain	\$4,509	\$4,653	103.2%	\$9,162	8.3%	\$4,882	\$5,038	\$9,921	\$0 \$0	\$9,921
10	40 REACH 02 Roller Gate/Vehicle Barriers	\$5,475	\$3,458	63.1%	\$8,933	8.3%	\$5,929	\$3,744	\$9,672	\$0 \$0	\$9,672
	40 REACH 02 Large Gates/Closure Structu	\$0,479 \$0	φ0,400 \$0 -	00.170	\$0,555 \$0	0.070	\$0,525 \$0	φ <u></u> 0,744 \$0	\$0,072 \$0	\$0 \$0	\$0,072
	40 REACH 02 Armoring	\$0	\$0 -		\$0 \$0	_	\$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0
02	40 REACH 02 Temp Raise/Relocate Repla	\$0 \$0	\$0 - \$0 -		\$0 \$0		\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0
	40 REACH 02 Demolition of Bldgs/Structur	\$0 \$0	\$0 - \$0 -		\$0 \$0	-	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0
	40 REACH 02 Floodproofing Structures	\$0 \$0	\$0 - \$0 -		\$0 \$0		\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0
ALL	40 REACH 02 Remaining Construction Item	•	- ₄₀ - \$7,212	74.8%	پو \$16,851	8.3%	پ 0 \$10,437	۵ ۵ \$7,808	₄₀ \$18,245	\$0 \$0	پ 0 \$18,245
	40 REACH 02 Utility Relocations	\$9,039 \$0	۲٫۲۲۷ - \$0	74.070	\$10,851 \$0	0.570	\$10,437 \$0	500, <i>ہ</i> پ \$0	\$10,245 \$0	\$0 \$0	\$10,240 \$0
	40 REACH 03 Transportation Corridor	پ و \$7,219	- ₄₀ - \$5,884	81.5%	پو \$13,104	- 8.3%	پ 0 \$7,817	پو \$6,371	پ و \$14,188	\$0 \$0	پ 0 \$14,188
02	40 REACH 03 Bridge Replacement	\$7,219 \$0	\$0,004 \$0 -	01.570	\$13,104 \$0	0.370	۶۲,8۱۲ \$0	۵۵,۵۶۱ \$0	\$14,188 \$0	\$0 \$0	\$14,188 \$0
	40 REACH 03 Plantings/EWN	\$0 \$0	\$0 - \$0 -		\$0 \$0	-	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0
11	40 REACH 03 Berms/Fill	\$0 \$10,173	- ₄₀ - \$7,236	71.1%	پو \$17,409	8.3%	پو \$11,015	۵ 0 \$7,835	پ و \$18,850	\$0 \$0	۵۵ \$18,850
10	40 REACH 03 Ground Improvement/DSM	\$10,173 \$0	ې 250 چې <i>۲</i>	7 1.170	409, 17 \$0	0.070	¢۱۱,013 \$0	50, <i>۲</i>	\$0 \$0	\$0 \$0	\$0
	40 REACH 03 Cantilever Walls/Pile Caps/	-	\$3,641	55.3%	پو \$10,222	- 8.3%	ه 0 \$7,125	\$3,943	پ و \$11,068	\$0 \$0	پ 0 \$11,068
	40 REACH 03 Cantilevel Walls/File Caps/ 40 REACH 03 Anchored Walls/T-Wall	پەن,501 \$0	+3,041 \$0 -	55.570	\$10,222 \$0	0.070	\$7,125 \$0	\$3,943 \$0	\$0، \$0	\$0 \$0	\$11,008 \$0
	40 REACH 03 Combi-Wall (Offshore)	\$0 \$0	\$0 -		\$0 \$0		φ0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0
	40 REACH 03 Wharf Replacement	\$50,091	\$33,049	66.0%	\$83,140	8.3%	\$54,236	\$35,784	\$90,020	\$0 \$0	\$90,020
10	40 REACH 03 Raise Piers	¢00,001 \$0	φ00,040 \$0 -	00.070	\$00,140 \$0	-	\$0 \$0	\$00,704 \$0	\$00,020 \$0	\$0 \$0	\$0 \$0
	40 REACH 03 Pump Stations/Interior Drain	\$69,920	\$72,156	103.2%	\$142,076	8.3%	\$75,706	\$78,128	\$153,835	\$0 \$0	\$153,835
	40 REACH 03 Roller Gate/Vehicle Barriers	\$10,879	\$6,870	63.1%	\$17,749	8.3%	\$11,779	\$7,438	\$19,218	\$0 \$0	\$19,218
	40 REACH 03 Large Gates/Closure Structu	\$0	\$0 -	00.170	\$0	-	\$0	\$0	\$0	\$0 \$0	\$0
16	40 REACH 03 Armoring	\$0	\$0 -		\$0	-	\$0 \$0	\$0 \$0	\$0	\$0 \$0	\$0
	40 REACH 03 Temp Raise/Relocate Repla	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0
02	40 REACH 03 Demolition of Bldgs/Structur	\$974	\$689	70.7%	\$1,664	8.3%	\$1,055	\$746	\$1,801	\$0	\$1,801
	40 REACH 03 Floodproofing Structures	\$15,609	\$14,309	91.7%	\$29,918	8.3%	\$16,900	\$15,494	\$32,394	\$0	\$32,394
	40 REACH 03 Remaining Construction Item		\$10,683	74.8%	\$24,961	8.3%	\$15,460	\$11,567	\$27,027	\$0	\$27,027
02	40 REACH 04 Utility Relocations	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0
02	40 REACH 04 Transportation Corridor	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0
02	40 REACH 04 Bridge Replacement	\$29,576	\$43,917	148.5%	\$73,493	8.3%	\$32,023	\$47,552	\$79,575	\$0	\$79,575
06	40 REACH 04 Plantings/EWN	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0
11	40 REACH 04 Berms/Fill	\$9,339	\$6,642	71.1%	\$15,981	8.3%	\$10,112	\$7,192	\$17,304	\$0	\$17,304
10	40 REACH 04 Ground Improvement/DSM	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0
10	40 REACH 04 Cantilever Walls/Pile Caps/	\$3,287	\$1,819	55.3%	\$5,106	8.3%	\$3,559	\$1,970	\$5,529	\$0	\$5,529
11	40 REACH 04 Anchored Walls/T-Wall	\$20,517	\$17,177	83.7%	\$37,695	8.3%	\$22,215	\$18,599	\$40,815	\$0	\$40,815
10	40 REACH 04 Combi-Wall (Offshore)	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0
10	40 REACH 04 Wharf Replacement	\$170,499	\$112,490	66.0%	\$282,989	8.3%	\$184,609	\$121,799	\$306,409	\$0	\$306,409
10	40 REACH 04 Raise Piers	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0
13	40 REACH 04 Pump Stations/Interior Drain	\$68,529	\$70,721	103.2%	\$139,249	8.3%	\$74,200	\$76,574	\$150,774	\$0	\$150,774
10	40 REACH 04 Roller Gate/Vehicle Barriers	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0
10	40 REACH 04 Large Gates/Closure Structu	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0
	40 REACH 04 Armoring	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0
02	40 REACH 04 Temp Raise/Relocate Repla	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0
	40 REACH 04 Demolition of Bldgs/Structur	\$2,713	\$1,919	70.7%	\$4,632	8.3%	\$2,937	\$2,078	\$5,015	\$0	\$5,015
	40 REACH 04 Floodproofing Structures	\$864	\$793	91.7%	\$1,657	8.3%	\$936	\$858	\$1,794	\$0	\$1,794
ALL	40 REACH 04 Remaining Construction Item	\$3,230	\$2,417	74.8%	\$5,647	8.3%	\$3,498	\$2,617	\$6,114	\$0	\$6,114

0.0%	\$0	\$0	\$0
0.0%	\$0	\$0	\$0
43.2%	\$6,993	\$7,217	\$14,211
43.2%	\$8,492	\$5,363	\$13,855
0.0%	\$0	\$0	\$0
0.0%	\$0	\$0	\$0
0.0%	\$0	\$0	\$0
0.0%	\$0	\$0	\$0
0.0%	\$0	\$0	\$0
43.2%	\$14,950	\$11,185	\$26,135
0.0%	\$0	\$0	\$0
43.2%	\$11,197	\$9,126	\$20,323
0.0%	\$0	\$0	\$0
0.0%	\$0	\$0	\$0
43.2%	\$15,778	\$11,222	\$27,001
0.0%	\$0	\$0	\$0
43.2%	\$10,206	\$5,648	\$15,854
0.0%	\$0	\$0	\$0
0.0%	\$0	\$0	\$0
43.2%	\$77,688	\$51,256	\$128,945
0.0%	\$0	\$0	\$0
43.2%	\$108,442	\$111,910	\$220,352
43.2%	\$16,873	\$10,655	\$27,528
0.0%	\$0	\$0	\$0
0.0%	\$0	\$0	\$0
0.0%	\$0	\$0	\$0
43.2%	\$1,511	\$1,069	\$2,580
43.2%	\$24,208	\$22,193	\$46,401
43.2%	\$22,146	\$16,568	\$38,714
0.0%	\$0	\$0	\$0
0.0%	\$0	\$0	\$0
43.2%	\$45,870	\$68,113	\$113,983
0.0%	\$0	\$0	\$0
43.2%	\$14,484	\$10,302	\$24,786
0.0%	\$0	\$0	\$0
43.2%	\$5,098	\$2,821	\$7,919
43.2%	\$31,821	\$26,641	\$58,462
0.0%	\$0	\$0	\$0
43.2%	\$264,434	\$174,466	\$438,899
0.0%	\$0	\$0	\$0
43.2%	\$106,284	\$109,684	\$215,968
0.0%	\$0	\$0	\$0
0.0%	\$0	\$0	\$0
0.0%	\$0	\$0	\$0
0.0%	\$0	\$0	\$0
43.2%	\$4,207	\$2,976	\$7,184
43.2%	\$1,341	\$1,229	\$2,570
43.2%	\$5,010	\$3,748	\$8,758
	+ =, = . =	÷0,0	<i>tc</i> , <i>i cc</i>

					**** TOT.	AL PROJ	ECT COST S	SUMMARY	****					Prir	nted:12/22/2023 Page 3 of 3
	CONSTRUCTION ESTIMATE TOTALS:	\$646,913	\$564,762	_	\$1,211,676	8.3%	\$700,452	\$611,503	\$1,311,955	\$0	\$1,311,955	43.2%	\$1,003,326	\$875,914	\$1,879,240
01	40 LANDS AND DAMAGES Reach 01	\$2,679	\$1,340	50.0%	\$4,019	8.3%	\$2,901	\$1,450	\$4,351	\$0	\$4,351	0.0%	\$3,114	\$1,557	\$4,670
01	40 LANDS AND DAMAGES Reach 02	\$0	\$0	50.0%	\$0	0.0%	\$0	\$0	\$0	\$0	\$0	0.0%	\$0	\$0	\$0
01	40 LANDS AND DAMAGES Reach 03	\$869	\$435	50.0%	\$1,304	8.3%	\$941	\$470	\$1,411	\$0	\$1,411	0.0%	\$1,010	\$505	\$1,515
01	40 LANDS AND DAMAGES Reach 04	\$16,310	\$8,155	50.0%	\$24,465	8.3%	\$17,660	\$8,830	\$26,490	\$0	\$26,490	0.0%	\$18,956	\$9,478	\$28,434
30	40 PLANNING, ENGINEERING & DESIGN	\$92,185	\$51,646	56.0%	\$143,832	7.4%	\$99,008	\$55,469	\$154,477	\$0	\$154,477	11.3%	\$110,192	\$61,735	\$171,926
31	40 CONSTRUCTION MANAGEMENT	\$46,901	\$29,589	63.1%	\$76,491	7.4%	\$50,373	\$31,779	\$82,152	\$0	\$82,152	35.5%	\$68,247	\$43,056	\$111,303
	PROJECT COST TOTALS:	\$805,858	\$655,927	81.4%	\$1,461,785		\$871,335	\$709,502	\$1,580,837	\$0	\$1,580,837	39.0%	\$1,204,844	\$992,245	\$2,197,089
		PROJECT CHIEF, RE CHIEF, PL	AL ESTAT ANNING, X	E, xxx						ESTIMAT	ED TOTAL	PROJEC			\$2,197,089
		CHIEF, EN	GINEERIN	G, xxx											
		CHIEF, OP	ERATION	S, xxx											
		CHIEF, CO	NSTRUCT	ION, xx	X										
		CHIEF, CO	NTRACTI	NG,xxx											
		CHIEF, PM	I-PB, xxxx	ζ.											
		CHIEF, DP	M, xxx												
				**	** CONTRACT	COST SUM	IMARY ****								

SFWS PROJECT: LOCATION: San Francisco, CA This Estimate reflects the scope and schedule in report; Alternatives Analysis

DISTRICT: SWT POC: CHIEF, COST ENGINEERING, xxx

PREPARED:

DISTRICT: SWT POC: CHIEF, COST ENGINEERING, xxx

This Estimate reflects the scope and schedule in report;

Alternatives Analysis

Alternative D non-Seismic - Post DQC and Post ARA

Civil W	Civil Works Work Breakdown Structure			COST		PROJECT FIRST COST (Constant Dollar Basis)					TOTAL PROJECT COST (FULLY FUNDED)				
								Program Year Effective Pric		2026 1 OCT 25	1				
										Spent Thru:	TOTAL				
WBS	Civil Works	COST	CNTG	CNTG	TOTAL	ESC	COST	CNTG	TOTAL	1-Oct-22	FIRST COST	INFLATED	COST	CNTG	FULL
<u>NUMBER</u>	Feature & Sub-Feature Description	<u>(\$K)</u>	<u>(\$K)</u>	(%)	<u>(\$K)</u>	_(%)_	<u>(\$K)</u>	<u>(\$K)</u>	<u>(\$K)</u>	<u>(\$K)</u>	<u>(\$K)</u>	<u>(%)</u>	<u>(\$K)</u>	<u>(\$K)</u>	<u>(\$K)</u>
Α	В	С	D	E	F	G	Н	Ι	J		K	L	М	N	0
02	40 Overall Structures Floodproofing Conc.	\$59,298	\$54,362	91.7%	\$113,660	8.3%	\$64,205	\$58,861	\$123,067	\$0	\$123,067	43.2%	\$91,968	\$84,313	\$176,281
02	40 Overall Utility Relocations	\$13,311	\$35,213	264.5%	\$48,524	8.3%	\$14,412	\$38,127	\$52,540	\$0	\$52,540	43.2%	\$20,644	\$54,613	\$75,257
10	40 Overall Seismic Ground Improvements	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0	0.0%	\$0	\$0	\$C
10	40 Overall Seismic Transportation Corridor	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0	0.0%	\$0	\$0	\$C
02	40 REACH 01 Utility Relocations	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0	0.0%	\$0	\$0	\$C
02	40 REACH 01 Transportation Corridor	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0	0.0%	\$0	\$0	\$0
02	40 REACH 01 Bridge Replacement	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0	0.0%	\$0	\$0	\$0
06	40 REACH 01 Plantings/EWN	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0	0.0%	\$0	\$0	\$0
11	40 REACH 01 Berms/Fill	\$996	\$709	71.1%	\$1,705	8.3%	\$1,079	\$767	\$1,846	\$0	\$1,846	43.2%	\$1,545	\$1,099	\$2,645
10	40 REACH 01 Ground Improvement/DSM	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0	0.0%	\$0	\$0	\$0
10	40 REACH 01 Cantilever Walls/Pile Caps/C	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0	0.0%	\$0	\$0	\$0
11	40 REACH 01 Anchored Walls/T-Wall	\$19,280	\$16,142	83.7%	\$35,422	8.3%	\$20,876	\$17,478	\$38,354	\$0	\$38,354	43.2%	\$29,903	\$25,035	\$54,938
10	40 REACH 01 Combi-Wall (Offshore)	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0	0.0%	\$0	\$0	\$0
10	40 REACH 01 Wharf Replacement	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0	0.0%	\$0	\$0	\$C
10	40 REACH 01 Raise Piers	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0	0.0%	\$0	\$0	\$C
13	40 REACH 01 Pump Stations/Interior Drain	\$3,322	\$3,428	103.2%	\$6,749	8.3%	\$3,596	\$3,711	\$7,308	\$0	\$7,308	43.2%	\$5,152	\$5,316	\$10,468
10	40 REACH 01 Roller Gate/Vehicle Barriers	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0	0.0%	\$0	\$0	\$0
10	40 REACH 01 Large Gates/Closure Struct	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0	0.0%	\$0	\$0	\$C
16	40 REACH 01 Armoring	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0	0.0%	\$0	\$0	\$C
02	40 REACH 01 Temp Raise/Relocate Repla	\$4,396	\$4,063	92.4%	\$8,459	8.3%	\$4,760	\$4,399	\$9,159	\$0	\$9,159	43.2%	\$6,818	\$6,302	\$13,119
02	40 REACH 01 Demolition of Bldgs/Structur	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0	0.0%	\$0	\$0	\$C
02	40 REACH 01 Floodproofing Structures	\$1,774	\$1,626	91.7%	\$3,400	8.3%	\$1,921	\$1,761	\$3,681	\$0	\$3,681	43.2%	\$2,751	\$2,522	\$5,273
ALL	40 REACH 01 Remaining Construction Item	\$5,009	\$3,748	74.8%	\$8,757	8.3%	\$5,424	\$4,058	\$9,482	\$0	\$9,482	43.2%	\$7,769	\$5,813	\$13,582
02	40 REACH 02 Utility Relocations	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0	0.0%	\$0	\$0	\$0
02	40 REACH 02 Transportation Corridor	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0	0.0%	\$0	\$0	\$0
02	40 REACH 02 Bridge Replacement	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0	0.0%	\$0	\$0	\$0
06	40 REACH 02 Plantings/EWN	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0	0.0%	\$0	\$0	\$0
11	40 REACH 02 Berms/Fill	\$5,535	\$3,937	71.1%	\$9,472	8.3%	\$5,994	\$4,263	\$10,256	\$0	\$10,256	43.2%	\$8,585	\$6,106	\$14,691
10	40 REACH 02 Ground Improvement/DSM	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0	0.0%	\$0	\$0	\$C
10	40 REACH 02 Cantilever Walls/Pile Caps/	\$554	\$306	55.3%	\$860	8.3%	\$599	\$332	\$931	\$0	\$931	43.2%	\$859	\$475	\$1,334
11	40 REACH 02 Anchored Walls/T-Wall	\$18,617	\$15,587	83.7%	\$34,204	8.3%	\$20,158	\$16,877	\$37,035	\$0	\$37,035	43.2%	\$28,874	\$24,174	\$53,048
10	40 REACH 02 Combi-Wall (Offshore)	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0	0.0%	\$0	\$0	\$0

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10	40 DEACH 02 What Deplesement	ድር	ድጋ		^	II	¢O	ድር	ድር		ድር
10	40 REACH 02 Wharf Replacement 40 REACH 02 Raise Piers	\$0 \$0	\$0 - \$0 -		\$0 \$0	-	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0
10	40 REACH 02 Rules Field 40 REACH 02 Pump Stations/Interior Drain	پ 0 \$4,509	\$0 - \$4,653	103.2%	پ و \$9,161	- 8.3%	پ 0 \$4,882	ەت \$5,038	ەت \$9,920	\$0 \$0	
10	40 REACH 02 Pump Stations/Intend Drain 40 REACH 02 Roller Gate/Vehicle Barriers	\$4,509 \$0	\$4,000 \$0 -	103.2%	ې، ۲۵۱ \$0	0.3%	¢4,002 \$0	\$5,038 \$0	\$9,920 \$0	\$0 \$0	\$9,920 \$0
10		\$0 \$0	\$0 - \$0 -		\$0 \$0	-	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0
16	40 REACH 02 Large Gates/Closure Structu 40 REACH 02 Armoring	\$0 \$0	\$0 - \$0 -		\$0 \$0	-	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	
02	Ũ		\$0 - \$0 -		\$0 \$0	-	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 ©
02	40 REACH 02 Temp Raise/Relocate Repla	\$0 ¢0				-			-	\$0 \$0	\$0 \$0
02	40 REACH 02 Demolition of Bldgs/Structur	\$0 \$261	+ 0\$	01 70/	\$0 \$501	- 8.3%	\$0 ¢292	\$0 \$260	\$0 \$542	\$0 \$0	-
ALL	40 REACH 02 Floodproofing Structures	\$261 ¢5.007	\$240	91.7%	\$501 ¢0.005		\$283 ¢5.452	\$260	\$543 \$0,522		\$543 \$0,522
02	40 REACH 02 Remaining Construction Item		\$3,768	74.8%	\$8,805	8.3%	\$5,453	\$4,080	\$9,533	\$0 \$0	\$9,533
	40 REACH 03 Utility Relocations	\$0 \$0	\$0 -		\$0 \$0	-	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0
02	40 REACH 03 Transportation Corridor	\$0 \$0	\$0 -		\$0 \$0	-	\$0 \$0	\$0 ¢0	\$0 \$0	\$0 \$0	\$0 \$0
02 06	40 REACH 03 Bridge Replacement	\$0	\$0 -	00 40/	\$0 \$0	-	\$0 \$4 574	\$0 ¢000	\$0 ¢0 550	\$0 \$0	\$0 \$0,550
	40 REACH 03 Plantings/EWN	\$1,453	\$907	62.4%	\$2,360	8.3%	\$1,574	\$982	\$2,556	\$0 \$0	\$2,556
11	40 REACH 03 Berms/Fill	\$11,406	\$8,113	71.1%	\$19,519	8.3%	\$12,350	\$8,784	\$21,134	\$0 \$0	\$21,134
10	40 REACH 03 Ground Improvement/DSM	\$0	\$0 -	00/	\$0	-	\$0	\$0	\$0	\$0	\$0
10	40 REACH 03 Cantilever Walls/Pile Caps/C	\$280	\$155	55.3%	\$435	8.3%	\$303	\$168	\$471	\$0	\$471
11	40 REACH 03 Anchored Walls/T-Wall	\$12,958	\$10,848	83.7%	\$23,806	8.3%	\$14,030	\$11,746	\$25,776	\$0	\$25,776
10	40 REACH 03 Combi-Wall (Offshore)	\$0	\$0 -	00.00/	\$0	-	\$0	\$0	\$0	\$0	\$0
10	40 REACH 03 Wharf Replacement	\$29,312	\$19,339	66.0%	\$48,650	8.3%	\$31,737	\$20,939	\$52,677	\$0	\$52,677
10	40 REACH 03 Raise Piers	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0
13	40 REACH 03 Pump Stations/Interior Drain	\$69,918	\$72,154	103.2%	\$142,072	8.3%	\$75,704	\$78,126	\$153,830	\$0	\$153,830
10	40 REACH 03 Roller Gate/Vehicle Barriers	\$9,267	\$5,852	63.1%	\$15,118	8.3%	\$10,034	\$6,336	\$16,369	\$0	\$16,369
10	40 REACH 03 Large Gates/Closure Struct	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0
16	40 REACH 03 Armoring	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0
02	40 REACH 03 Temp Raise/Relocate Repla	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0
02	40 REACH 03 Demolition of Bldgs/Structur	\$69	\$49	70.7%	\$118	8.3%	\$75	\$53	\$128	\$0	\$128
02	40 REACH 03 Floodproofing Structures	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0
ALL	40 REACH 03 Remaining Construction Item	\$8,841	\$6,614	74.8%	\$15,455	8.3%	\$9,573	\$7,162	\$16,734	\$0	\$16,734
02	40 REACH 04 Utility Relocations	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0
02	40 REACH 04 Transportation Corridor	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0
02	40 REACH 04 Bridge Replacement	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0
06	40 REACH 04 Plantings/EWN	\$13,243	\$8,262	62.4%	\$21,505	8.3%	\$14,339	\$8,946	\$23,285	\$0	\$23,285
11	40 REACH 04 Berms/Fill	\$15,990	\$11,373	71.1%	\$27,363	8.3%	\$17,314	\$12,314	\$29,628	\$0	\$29,628
10	40 REACH 04 Ground Improvement/DSM	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0
10	40 REACH 04 Cantilever Walls/Pile Caps/C	\$11,533	\$6,382	55.3%	\$17,915	8.3%	\$12,487	\$6,910	\$19,397	\$0	\$19,397
11	40 REACH 04 Anchored Walls/T-Wall	\$5,765	\$4,826	83.7%	\$10,591	8.3%	\$6,242	\$5,226	\$11,467	\$0	\$11,467
10	40 REACH 04 Combi-Wall (Offshore)	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0
10	40 REACH 04 Wharf Replacement	\$170,489	\$112,483	66.0%	\$282,972	8.3%	\$184,598	\$121,792	\$306,391	\$0	\$306,391
10	40 REACH 04 Raise Piers	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0
13	40 REACH 04 Pump Stations/Interior Drain	\$68,526	\$70,718	103.2%	\$139,244	8.3%	\$74,197	\$76,571	\$150,768	\$0	\$150,768
10	40 REACH 04 Roller Gate/Vehicle Barriers	\$1,610	\$1,016	63.1%	\$2,626	8.3%	\$1,743	\$1,101	\$2,843	\$0	\$2,843
10	40 REACH 04 Large Gates/Closure Struct	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0
16	40 REACH 04 Armoring	\$3,117	\$1,661	53.3%	\$4,778	8.3%	\$3,375	\$1,799	\$5,173	\$0	\$5,173
02	40 REACH 04 Temp Raise/Relocate Repla	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0
02	40 REACH 04 Demolition of Bldgs/Structur	\$3,029	\$2,143	70.7%	\$5,172	8.3%	\$3,280	\$2,320	\$5,600	\$0	\$5,600
02	40 REACH 04 Floodproofing Structures	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0
ALL	40 REACH 04 Remaining Construction Item	\$3,949	\$2,954	74.8%	\$6,903	8.3%	\$4,276	\$3,199	\$7,475	\$0	\$7,475

0.00/	* 0	¢ 0	*
0.0%	\$0 \$0	\$0 \$0	\$0 ¢0
0.0%	\$0 ¢c.003	\$0 ¢7 016	\$0 \$14 200
43.2% 0.0%	\$6,993 ¢0	\$7,216 \$0	\$14,209 \$0
0.0%	\$0 \$0	\$0 \$0	\$0 \$0
0.0%			
0.0%	\$0 \$0	\$0 \$0	\$0 \$0
	\$0 ¢0	\$0 \$0	\$0 \$0
0.0%	\$0 \$106	\$0 ¢272	\$0 \$777
43.2%	\$406 \$7.840	\$372 ¢5 944	\$777 \$12.656
43.2%	\$7,812 ¢0	\$5,844	\$13,656
0.0%	\$0 \$0	\$0 \$0	\$0 \$0
0.0%	\$0 ¢0	\$0 \$0	\$0 \$0
0.0%	\$0 \$0	\$0 ¢1 400	\$0 \$0
43.2%	\$2,254	\$1,406	\$3,661
43.2%	\$17,690	\$12,582	\$30,272
0.0%	\$0	\$0	\$0 \$0
43.2%	\$434	\$240	\$674
43.2%	\$20,096	\$16,825	\$36,921
0.0%	\$0	\$0	\$0
43.2%	\$45,461	\$29,994	\$75,454
0.0%	\$0	\$0	\$0
43.2%	\$108,439	\$111,907	\$220,346
43.2%	\$14,372	\$9,076	\$23,448
0.0%	\$0	\$0	\$0
0.0%	\$0	\$0	\$0
0.0%	\$0	\$0	\$0
43.2%	\$107	\$76	\$183
0.0%	\$0	\$0	\$0
43.2%	\$13,712	\$10,258	\$23,970
0.0%	\$0	\$0	\$0
0.0%	\$0	\$0	\$0
0.0%	\$0	\$0	\$0
43.2%	\$20,539	\$12,814	\$33,353
43.2%	\$24,800	\$17,639	\$42,439
0.0%	\$0	\$0	\$0
43.2%	\$17,887	\$9,898	\$27,784
43.2%	\$8,940	\$7,485	\$16,425
0.0%	\$0	\$0	\$0
43.2%	\$264,418	\$174,455	\$438,874
0.0%	\$0	\$0	\$0
43.2%	\$106,280	\$109,680	\$215,960
43.2%	\$2,496	\$1,576	\$4,073
0.0%	\$0	\$0	\$0
43.2%	\$4,834	\$2,576	\$7,410
0.0%	\$0	\$0	\$0
43.2%	\$4,698	\$3,324	\$8,021
0.0%	\$0	\$0	\$0
43.2%	\$6,125	\$4,582	\$10,707

0	ol	\$0	\$0 -		\$0	Ι	\$0	\$0	\$0	\$0	\$0
02	90 Overall Utility Relocations	پ و \$13,311	φ0 - \$35,213	264.5%	پو \$48,524	8.3%	پن \$14,412	\$38,127	پ و \$52,540	\$0 \$0	پ 0 \$52,540
02	90 REACH 01 Utility Relocations	\$0	¢00,210 \$0 -	204.070	40,024 \$0	0.070	\$0	\$00,127 \$0	φ02,040 \$0	\$0 \$1	\$1
02	90 REACH 01 Transportation Corridor	\$0 \$0	\$0 -		\$0 \$0		\$0 \$0	\$0 \$0	\$0 \$0	\$0	\$0
02	90 REACH 01 Bridge Replacement	\$0	\$0 -		\$0 \$0	_	\$0 \$0	\$0	\$0 \$0	\$0 \$0	\$0 \$0
06	90 REACH 01 Plantings/EWN	\$0	\$0 -		\$0 \$0	_	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0
11	90 REACH 01 Berms/Fill	\$4,672	\$3,323	71.1%	40 \$7,995	8.3%	\$5,058	\$3,598	\$8,656	\$0 \$0	\$8,656
10	90 REACH 01 Ground Improvement/DSM	\$0 \$0	\$0,520 \$0 -	7 1.170	φ7,555 \$0	0.070	ψ0,000 \$0	ψ0,000 \$0	ψ0,030 \$0	\$0 \$0	\$0,000 \$0
10	90 REACH 01 Cantilever Walls/Pile Caps/C	\$1,819	- ₄₀ \$1,006	55.3%	⁴⁰ \$2,825	8.3%	φ0 \$1,969	\$1,090	\$3,059	\$0 \$0	\$3,059
11	90 REACH 01 Anchored Walls/T-Wall	\$0	¢1,000 \$0 -	00.070	¢2,020 \$0	0.070	ψ1,505 \$0	\$0	¢0,000 \$0	\$0 \$0	\$0
10	90 REACH 01 Combi-Wall (Offshore)	\$0	\$0 -		\$0 \$0	_	\$0 \$0	\$0	\$0 \$0	\$0 \$0	\$0 \$0
10	90 REACH 01 Wharf Replacement	\$88,170	\$58,172	66.0%	\$146,342	8.3%	\$95,467	\$62,986	\$158,453	\$0 \$0	\$158,453
10	90 REACH 01 Raise Piers	\$00,170 \$0	\$0 -	00.070	\$0	-	¢00,407 \$0	¢02,000 \$0	\$0	\$0 \$0	\$0
13	90 REACH 01 Pump Stations/Interior Drain	\$21,963	\$22,665	103.2%	\$44,628	8.3%	\$23,781	\$24,541	\$48,322	\$0 \$0	\$48,322
10	90 REACH 01 Roller Gate/Vehicle Barriers	\$0	\$0 -	100.270	\$0	-	\$0	\$0	\$0	\$0 \$0	\$0
10	90 REACH 01 Large Gates/Closure Structu	\$0 \$0	\$0 -		\$0 \$0	-	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0
16	90 REACH 01 Armoring	\$0	\$0 -		\$0 \$0	_	\$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0
02	90 REACH 01 Temp Raise/Relocate Repla	\$62,594	\$57,857	92.4%	\$120,451	8.3%	\$67,774	\$62,645	\$130,419	\$0 \$0	\$130,419
02	90 REACH 01 Demolition of Bldgs/Structur	\$497	\$352	70.7%	\$848	8.3%	\$538	\$381	\$919	\$0	\$919
02	90 REACH 01 Floodproofing Structures	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0
ALL	90 REACH 02 Remaining Construction Item		\$6,271	74.8%	\$14,653	8.3%	\$9,076	\$6,790	\$15,866	\$0	\$15,866
02	90 REACH 02 Utility Relocations	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0
02	90 REACH 02 Transportation Corridor	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0
02	90 REACH 02 Bridge Replacement	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0
06	90 REACH 02 Plantings/EWN	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0
11	90 REACH 02 Berms/Fill	\$4,316	\$3,069	71.1%	\$7,385	8.3%	\$4,673	\$3,323	\$7,996	\$0	\$7,996
10	90 REACH 02 Ground Improvement/DSM	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0
10	90 REACH 02 Cantilever Walls/Pile Caps/C	\$2,355	\$1,303	55.3%	\$3,658	8.3%	\$2,550	\$1,411	\$3,961	\$0	\$3,961
11	90 REACH 02 Anchored Walls/T-Wall	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0
10	90 REACH 02 Combi-Wall (Offshore)	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0
10	90 REACH 02 Wharf Replacement	\$282,616	\$186,462	66.0%	\$469,078	8.3%	\$306,005	\$201,893	\$507,898	\$0	\$507,898
10	90 REACH 02 Raise Piers	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0
10	90 REACH 02 Pump Stations/Interior Drain	\$53,443	\$55,152	103.2%	\$108,595	8.3%	\$57,866	\$59,717	\$117,583	\$0	\$117,583
10	90 REACH 02 Roller Gate/Vehicle Barriers	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0
10	90 REACH 02 Large Gates/Closure Struct	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0
16	90 REACH 02 Armoring	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0
02	90 REACH 02 Temp Raise/Relocate Repla	\$241,177	\$222,927	92.4%	\$464,104	8.3%	\$261,137	\$241,376	\$502,513	\$0	\$502,513
02	90 REACH 02 Demolition of Bldgs/Structur	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0
02	90 REACH 02 Floodproofing Structures	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0
ALL	90 REACH 02 Remaining Construction Item		\$3,290	74.8%	\$7,689	8.3%	\$4,762	\$3,563	\$8,325	\$0	\$8,325
02	90 REACH 03 Utility Relocations	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0
02	90 REACH 03 Transportation Corridor	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0 \$0	\$0
02	90 REACH 03 Bridge Replacement	\$128,162	\$190,309	148.5%	\$318,472	8.3%	\$138,769	\$206,059	\$344,828	\$0 \$0	\$344,828
06	90 REACH 03 Plantings/EWN	\$0	\$0 -	74 404	\$0	-	\$0	\$0	\$0	\$0 \$0	\$0
11	90 REACH 03 Berms/Fill	\$8,953	\$6,368	71.1%	\$15,322	8.3%	\$9,695 ¢0	\$6,895	\$16,590	\$0 \$0	\$16,590
10	90 REACH 03 Ground Improvement/DSM	\$0 ¢0.007	\$0 -		\$0 #4.400	-	\$0 ¢0.000	\$0 \$1 010	\$0 ¢4 507	\$0 \$0	\$0
10 11	90 REACH 03 Cantilever Walls/Pile Caps/C		\$1,493 \$0	55.3%	\$4,190 ¢0	8.3%	\$2,920 \$0	\$1,616	\$4,537 \$0	\$0 \$0	\$4,537 \$0
11	90 REACH 03 Anchored Walls/T-Wall	\$0	\$0 -		\$0	I -	\$0	\$0	\$0	\$0	\$0

0.0%	\$0	\$0	\$0
417%	\$74,502	\$197,091	\$271,593
0%	\$0	\$0	\$1
0%	\$0	\$0	\$0
0%	\$0	\$0	\$0
0%	\$0	\$0	\$0
417%	\$26,149	\$18,598	\$44,747
0%	\$0	\$0	\$0
417%	\$10,180	\$5,633	\$15,813
0%	\$0	\$0	\$0
0%	\$0	\$0	\$0
417%	\$493,497	\$325,595	\$819,092
0%	\$0	\$0	\$0
417%	\$122,929	\$126,861	\$249,790
0%	\$0	\$0	\$0
0%	\$0	\$0	\$0
0%	\$0	\$0	\$0
417%	\$350,344	\$323,834	\$674,178
417%	\$2,781	\$1,968	\$4,749
0%	\$0	\$0	\$0
417%	\$46,916	\$35,100	\$82,016
0%	\$0	\$0	\$0
0%	\$0	\$0	\$0
0%	\$0	\$0	\$0
0%	\$0	\$0	\$0
417%	\$24,155	\$17,180	\$41,335
0%	\$0	\$0	\$0
417%	\$13,180	\$7,293	\$20,473
0%	\$0	\$0	\$0
0%	\$0	\$0	\$0
417%	\$1,581,833	\$1,043,646	\$2,625,479
0%	\$0	\$0	\$0
417%	\$299,126	\$308,694	\$607,820
0%	\$0	\$0	\$0
0%	\$0	\$0	\$0
0%	\$0	\$0	\$0
417%	\$1,349,895	\$1,247,748	\$2,597,643
0%	\$0	\$0	\$0
0%	\$0	\$0	\$0
417%	\$24,617	\$18,417	\$43,034
0%	\$0	\$0	\$0
0%	\$0	\$0	\$0
417%	\$717,340	\$1,065,184	\$1,782,524
0%	\$0	\$0	\$0
417%	\$50,114	\$35,643	\$85,757
0%	\$0	\$0	\$0
417%	\$15,097	\$8,354	\$23,451
0%	\$0	\$0	\$0
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10		* •	* •		* •	1	^	^	^		* •
10	90 REACH 03 Combi-Wall (Offshore)	\$0	\$0 -	00 00 <i>/</i>	\$0	-	\$0	\$0	\$0	\$0	\$0
10	90 REACH 03 Wharf Replacement	\$83,104	\$54,830	66.0%	\$137,934	8.3%	\$89,982	\$59,367	\$149,349	\$0 \$0	\$149,349
10	90 REACH 03 Raise Piers	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0
13	90 REACH 03 Pump Stations/Interior Drain	\$76,870	\$79,329	103.2%	\$156,199	8.3%	\$83,232	\$85,894	\$169,126	\$0	\$169,126
10	90 REACH 03 Roller Gate/Vehicle Barriers	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0
10	90 REACH 03 Large Gates/Closure Struct		\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0
16	90 REACH 03 Armoring	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0
02	90 REACH 03 Temp Raise/Relocate Repla	\$94,853	\$87,676	92.4%	\$182,529	8.3%	\$102,703	\$94,932	\$197,635	\$0	\$197,635
02	90 REACH 03 Demolition of Bldgs/Structur	\$341	\$241	70.7%	\$582	8.3%	\$369	\$261	\$630	\$0	\$630
02	90 REACH 03 Floodproofing Structures	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0
ALL	90 REACH 03 Remaining Construction Iter	n \$6,211	\$4,647	74.8%	\$10,857	8.3%	\$6,725	\$5,031	\$11,756	\$0	\$11,756
02	90 REACH 04 Utility Relocations	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0
02	90 REACH 04 Transportation Corridor	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0
02	90 REACH 04 Bridge Replacement	\$72,949	\$108,322	148.5%	\$181,271	8.3%	\$78,986	\$117,287	\$196,273	\$0	\$196,273
06	90 REACH 04 Plantings/EWN	\$7,149	\$4,460	62.4%	\$11,609	8.3%	\$7,741	\$4,829	\$12,570	\$0	\$12,570
11	90 REACH 04 Berms/Fill	\$4,864	\$3,459	71.1%	\$8,323	8.3%	\$5,266	\$3,746	\$9,012	\$0	\$9,012
10	90 REACH 04 Ground Improvement/DSM	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0
10	90 REACH 04 Cantilever Walls/Pile Caps/		\$2,809	55.3%	\$7,884	8.3%	\$5,496	\$3,041	\$8,537	\$0	\$8,537
11	90 REACH 04 Anchored Walls/T-Wall	\$2,482	\$2,078	83.7%	\$4,559	8.3%	\$2,687	\$2,250	\$4,936	\$0	\$4,936
10	90 REACH 04 Combi-Wall (Offshore)	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0
10	90 REACH 04 Wharf Replacement	\$0 \$0	\$0 -		\$0 \$0	_	\$0 \$0	\$0	\$0 \$0	\$0 \$0	\$0 \$0
10	90 REACH 04 Raise Piers	\$0	\$0 -		\$0 \$0	_	\$0 \$0	\$0	\$0 \$0	\$0 \$0	\$0
13	90 REACH 04 Pump Stations/Interior Drain	\$201,326	\$207,766	103.2%	\$409,092	8.3%	\$217,988	\$224,961	\$442,949	\$0 \$0	\$442,949
10	90 REACH 04 Roller Gate/Vehicle Barriers	\$0	\$0 -	100.270	\$0 \$0	-	\$0	¢224,001 \$0	\$0	\$0 \$0	\$0
10	90 REACH 04 Large Gates/Closure Structu		\$0 -		\$0 \$0		\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0
16	90 REACH 04 Armoring	پن \$525	\$280	53.3%	\$805	8.3%	\$569	\$303	\$872	\$0 \$0	\$0 \$872
02	90 REACH 04 Temp Raise/Relocate Repla	\$025 \$0	\$200 \$0 -	55.570	\$005 \$0	0.370	\$309 \$0	\$303 \$0	\$072 \$0	\$0 \$0	\$072 \$0
02	90 REACH 04 Demolition of Bldgs/Structur	\$0 \$374	\$0 - \$265	70.7%	\$0 \$639	- 8.3%	\$0 \$405	پ 0 \$287	\$692	\$0 \$0	\$0 \$692
02	Ũ		\$205 \$0 -	10.170	۵039 \$0		-	-	-	\$0 \$0	\$092 \$0
ALL	90 REACH 04 Floodproofing Structures	\$0	-	74.00/		-	\$0 \$2,460	\$0 \$2.266	\$0 ¢5 500	\$0 \$0	-
ALL	90 REACH 04 Remaining Construction Iter	ו \$2,920	\$2,185	74.8%	\$5,105	8.3%	\$3,162	\$2,366	\$5,528	\$U	\$5,528
			¢4.007.040	_		0.00/		_	<u> </u>		¢4.007.000
	CONSTRUCTION ESTIMATE TOTALS:	\$2,071,218	\$1,907,210		\$3,978,428	8.3%	\$2,242,634	\$2,065,052	\$4,307,685	\$0	\$4,307,686
01		¢4.004	#0.047	F0 00/	*C 4 4	0.00/	¢4,400	\$0.040	#0.040	* 0	\$6.640
01	40 LANDS AND DAMAGES Reach 01	\$4,094	\$2,047	50.0%	\$6,141	8.3%	\$4,433	\$2,216	\$6,649	\$0 \$0	\$6,649
01	40 LANDS AND DAMAGES Reach 02	\$0	\$0	50.0%	\$0	0.0%	\$0	\$0	\$0	\$0 \$0	\$0
01	40 LANDS AND DAMAGES Reach 03	\$3,252	\$1,626	50.0%	\$4,878	8.3%	\$3,521	\$1,761	\$5,282	\$0	\$5,282
01	40 LANDS AND DAMAGES Reach 04	\$57,493	\$28,747	50.0%	\$86,240	8.3%	\$62,251	\$31,126	\$93,377	\$0	\$93,377
01	90 LANDS AND DAMAGES Reach 01	\$0	\$0	50.0%	\$0	0.0%	\$0	\$0	\$0	\$0	\$0
01	90 LANDS AND DAMAGES Reach 02	\$0	\$0	50.0%	\$0	0.0%	\$0	\$0	\$0	\$0	\$0
01	90 LANDS AND DAMAGES Reach 03	\$2,302	\$1,151	50.0%	\$3,453	8.3%	\$2,493	\$1,246	\$3,739	\$0	\$3,739
01	90 LANDS AND DAMAGES Reach 04	\$5,414	\$2,707	50.0%	\$8,121	8.3%	\$5,862	\$2,931	\$8,793	\$0	\$8,793
30	40 PLANNING, ENGINEERING & DESIGN	\$83,028	\$46,516	56.0%	\$129,544	7.4%	\$89,173	\$49,959	\$139,132	\$0	\$139,132
30	90 PLANNING, ENGINEERING & DESIGN	\$212,121	\$118,840	56.0%	\$330,961	7.4%	\$227,821	\$127,636	\$355,457	\$0 \$0	\$355,457
		Ψ= 12, 12 1	ψιιο,οτο	00.070	<i>4000,001</i>	1.170	Ψ ΖΖΙ, ΟΖΙ	ψ121,000	φ000, 1 07	ΨŪ	ψ000, 1 01
31	40 CONSTRUCTION MANAGEMENT	\$42,242	\$26,650	63.1%	\$68,892	7.4%	\$45,369	\$28,623	\$73,991	\$0	\$73,991
31	90 CONSTRUCTION MANAGEMENT	\$107,921	\$68,086	63.1%	\$176,007	7.4%	\$115,909	\$73,125	\$189,034	\$0	\$189,034

C			
\$0	\$0	\$0	0%
\$772,029	\$306,887	\$465,142	417%
\$0	\$0	\$0	0%
\$874,263	\$444,013	\$430,250	417%
\$0	\$0	\$0	0%
\$0	\$0	\$0	0%
\$0	\$0	\$0	0%
\$1,021,635	\$490,731	\$530,904	417%
\$3,258	\$1,350	\$1,908	417%
\$0	\$0	\$0	0%
\$60,769	\$26,007	\$34,762	417%
\$0	\$0	\$0	0%
\$0	\$0	\$0	0%
\$1,014,594	\$606,291	\$408,302	417%
\$64,978	\$24,965	\$40,013	417%
\$46,586	\$19,363	\$27,223	417%
\$0	\$0	\$0	0%
\$44,129	\$15,720	\$28,409	417%
\$25,518	\$11,628	\$13,889	417%
\$0	\$0	\$0	0%
\$0	\$0	\$0	0%
\$0	\$0	\$0	0%
\$2,289,738	\$1,162,892	\$1,126,846	417%
\$0	\$0	\$0	0%
\$0	\$0	\$0	0%
\$4,507	\$1,567	\$2,940	417%
\$0	\$0	\$0	0%
\$3,575	\$1,481	\$2,094	417%
\$0	\$0	\$0	0%
\$28,574	\$12,229	\$16,345	417%
+17.012.002			-
\$17,912,902	\$8,677,558	\$9,235,342	315.8%
\$7,137	\$2,379	\$4,758	7.3%
\$0	\$0	\$0	0.0%
\$5,669	\$1,890	\$3,780	7.3%
\$100,232	\$33,411	\$66,821	7.3%
\$0	\$0	\$0	0.0%
\$0	\$0	\$0	0.0%
\$14,025	\$4,675	\$9,350	275.1%
\$32,986	\$10,995	\$21,990	275.1%
\$154,848	\$55,602	\$99,246	11.3%
\$1,078,412	\$387,232	\$691,180	203.4%
\$100,246	\$38,779	\$61,467	35.5%
\$692,385	\$267,840	\$424,545	266.3%

	PROJECT COST TOTALS	\$2,589,085	\$2,203,580	85.1%	\$4,792,665	\$	2,799,465	\$2,383,675	\$5,183,141	\$0	\$5,183,142
		CHIEF, C	OST ENGIN	IEERING	, xxx					ESTIMATE	
		PROJECT	MANAGE	R, xxx						ESTIMATE	DIOTA
		CHIEF, RI	EAL ESTAT	E, xxx							
		CHIEF, PI	_ANNING, x	xx							
		CHIEF, EI	NGINEERIN	IG, xxx							
		CHIEF, O	PERATION	S, xxx							
		CHIEF, CO	ONSTRUCT	TON, XXX	K						
		CHIEF, CO	ONTRACTI	NG,xxx							
		CHIEF, P	М-РВ, хххх	C							
		CHIEF, DI	PM, xxx								
				:	** CONTRACT	COST SUMMA	RY **				
PROJECT: LOCATION: This Estimate re	SFWS San Francisco, CA eflects the scope and schedule in report;	Alternatives Ana	lysis						DISTRICT: POC:	SWT CHIEF, COST E	ENGINEERIN

287.8% \$10,618,480 \$9,480,361

\$20,098,841

L PROJECT COST:

\$20,098,841

ING, xxx

PREPARED:

DISTRICT: SWT POC: CHIEF, COST ENGINEERING, xxx

This Estimate reflects the scope and schedule in report;

Alternatives Analysis

Alternative E non-Seismic - Post DQC and Post ARA

Civil W	Civil Works Work Breakdown Structure ESTIMATED COST					PROJECT FIRST COST (Constant Dollar Basis)						TOTAL PROJECT COST (FULLY FUNDED)			
								Program Year Effective Pric		2026 1 OCT 25	1				
										Spent Thru:	TOTAL				
WBS	Civil Works	COST	CNTG	CNTG	TOTAL	ESC	COST	CNTG	TOTAL	1-Oct-22	FIRST COST	INFLATED	COST	CNTG	FULL
NUMBER	Feature & Sub-Feature Description	<u>(\$K)</u>	<u>(\$K)</u>	(%)	<u>(\$K)</u>	(%)	<u>(\$K)</u>	<u>(\$K)</u>	<u>(\$K)</u>	<u>(\$K)</u>	<u>(\$K)</u>	<u>(%)</u>	<u>(\$K)</u>	<u>(\$K)</u>	<u>(\$K)</u>
Α	В	С	D	E	F	G	Н	I	J		K	L	М	Ν	0
02	40 Overall Structures Floodproofing Conc.	\$59,298	\$54,362	91.7%	\$113,660	8.3%	\$64,205	\$58,861	\$123,067	\$C	\$123,067	43.2%	\$91,968	\$84,313	\$176,281
02	40 Overall Utility Relocations	\$19,966	\$52,819	264.5%	\$72,786	8.3%	\$21,619	\$57,191	\$78,809	\$C		43.2%	\$30,966	\$81,920	\$112,886
10	40 Overall Seismic Ground Improvements	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$C	\$0	0.0%	\$0	\$0	\$0
10	40 Overall Seismic Transportation Corridor	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$C	\$0	0.0%	\$0	\$0	\$0
02	40 REACH 01 Utility Relocations	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0	0.0%	\$0	\$0	\$0
02	40 REACH 01 Transportation Corridor	\$261,048	\$212,766	81.5%	\$473,814	8.3%	\$282,652	\$230,375	\$513,027	\$C	\$513,027	43.2%	\$404,870	\$329,988	\$734,858
02	40 REACH 01 Bridge Replacement	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$C	\$0	0.0%	\$0	\$0	\$0
06	40 REACH 01 Plantings/EWN	\$22,472	\$14,020	62.4%	\$36,492	8.3%	\$24,331	\$15,181	\$39,512	\$C	\$39,512	43.2%	\$34,852	\$21,745	\$56,597
11	40 REACH 01 Berms/Fill	\$23,645	\$16,818	71.1%	\$40,463	8.3%	\$25,602	\$18,210	\$43,812	\$C	\$43,812	43.2%	\$36,673	\$26,083	\$62,756
10	40 REACH 01 Ground Improvement/DSM	\$136,009	\$208,400	153.2%	\$344,410	8.3%	\$147,265	\$225,647	\$372,913	\$C	\$372,913	43.2%	\$210,943	\$323,217	\$534,160
10	40 REACH 01 Cantilever Walls/Pile Caps/C	\$363	\$201	55.3%	\$564	8.3%	\$393	\$217	\$610	\$C	\$610	43.2%	\$563	\$311	\$874
11	40 REACH 01 Anchored Walls/T-Wall	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$C	\$0	0.0%	\$0	\$0	\$0
10	40 REACH 01 Combi-Wall (Offshore)	\$430,035	\$454,461	105.7%	\$884,497	8.3%	\$465,625	\$492,072	\$957,697	\$C	\$957,697	43.2%	\$666,960	\$704,844	\$1,371,804
10	40 REACH 01 Wharf Replacement	\$238,547	\$157,386	66.0%	\$395,933	8.3%	\$258,289	\$170,411	\$428,700	\$C	\$428,700	43.2%	\$369,972	\$244,097	\$614,069
10	40 REACH 01 Raise Piers	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$C	\$0	0.0%	\$0	\$0	\$0
13	40 REACH 01 Pump Stations/Interior Drain	\$23,633	\$24,389	103.2%	\$48,022	8.3%	\$25,589	\$26,407	\$51,996	\$C	\$51,996	43.2%	\$36,653	\$37,826	\$74,479
10	40 REACH 01 Roller Gate/Vehicle Barriers	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$C	\$0	0.0%	\$0	\$0	\$0
10	40 REACH 01 Large Gates/Closure Structu	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$C	\$0	0.0%	\$0	\$0	\$0
16	40 REACH 01 Armoring	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0	0.0%	\$0	\$0	\$C
02	40 REACH 01 Temp Raise/Relocate Repla	\$253,288	\$234,121	92.4%	\$487,409	8.3%	\$274,250	\$253,497	\$527,747	\$0	\$527,747	43.2%	\$392,835	\$363,109	\$755,943
02	40 REACH 01 Demolition of Bldgs/Structur	\$853	\$603	70.7%	\$1,456	8.3%	\$924	\$653	\$1,577	\$0	\$1,577	43.2%	\$1,323	\$936	\$2,259
02	40 REACH 01 Floodproofing Structures	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$C	\$0	0.0%	\$0	\$0	\$0
ALL	40 REACH 01 Remaining Construction Item	\$9,482	\$7,094	74.8%	\$16,576	8.3%	\$10,267	\$7,681	\$17,947	\$C	\$17,947	43.2%	\$14,706	\$11,002	\$25,708
02	40 REACH 02 Utility Relocations	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$C	\$0	0.0%	\$0	\$0	\$0
02	40 REACH 02 Transportation Corridor	\$375,095	\$305,720	81.5%	\$680,815	8.3%	\$406,138	\$331,021	\$737,159	\$C	\$737,159	43.2%	\$581,751	\$474,154	\$1,055,904
02	40 REACH 02 Bridge Replacement	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$C	+ -	0.0%	\$0	\$0	\$0
06	40 REACH 02 Plantings/EWN	\$29,136	\$18,178	62.4%	\$47,314	8.3%	\$31,547	\$19,682	\$51,229	\$C	\$51,229	43.2%	\$45,188	\$28,193	\$73,381
11	40 REACH 02 Berms/Fill	\$24,839	\$17,667	71.1%	\$42,506	8.3%	\$26,895	\$19,129	\$46,023	\$C	. ,	43.2%	\$38,524	\$27,400	\$65,924
10	40 REACH 02 Ground Improvement/DSM	\$136,689	\$209,441	153.2%	\$346,130	8.3%	\$148,001	\$226,774	\$374,775	\$C	+ - , -	43.2%	\$211,996	\$324,831	\$536,827
10	40 REACH 02 Cantilever Walls/Pile Caps/	\$31,380	\$17,365	55.3%	\$48,745	8.3%	\$33,977	\$18,802	\$52,779	\$C	\$52,779	43.2%	\$48,669	\$26,931	\$75,600
11	40 REACH 02 Anchored Walls/T-Wall	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$C	-	0.0%	\$0	\$0	\$0
10	40 REACH 02 Combi-Wall (Offshore)	\$432,200	\$456,749	105.7%	\$888,949	8.3%	\$467,968	\$494,549	\$962,518	\$C	\$962,518	43.2%	\$670,318	\$708,392	\$1,378,709

PREPARED:

10		#005 450	ФАТЕ 440		¢440.004	0.00/	¢007 400	¢400.007	¢477.005	¢0	¢477.005
10 10	40 REACH 02 Wharf Replacement 40 REACH 02 Raise Piers	\$265,459	\$175,142 ¢0	66.0%	\$440,601	8.3%	\$287,428 ¢0	\$189,637 ¢0	\$477,065 ¢0	\$0 ¢0	\$477,065 ¢0
10		\$0 ¢50.007	\$0 -	400.00/	\$0 ¢100 700	-	\$0 ¢50.455	\$0 ¢co 205	\$0 ¢440.770	\$0 ¢0	\$0 ¢440.770
10	40 REACH 02 Pump Stations/Interior Drain	\$53,987	\$55,714	103.2%	\$109,700 ¢0	8.3%	\$58,455 ¢0	\$60,325	\$118,779 ¢0	\$0 \$0	\$118,779 ¢0
10	40 REACH 02 Roller Gate/Vehicle Barriers	\$0 \$0	\$0 - \$0 -		\$0 \$0	-	\$0 \$0	\$0 \$0	\$0 ¢0	\$0 \$0	\$0 \$0
16	40 REACH 02 Large Gates/Closure Structu		-		\$0 \$0	-	\$0 \$0	\$0 ¢0	\$0 ¢0	\$0 \$0	
02	40 REACH 02 Armoring	\$0 \$201.050	\$0 -	00 40/	\$0 \$754 064	-	\$0 ¢ 404 087	\$0	\$0	\$0 \$0	\$0 \$946.467
	40 REACH 02 Temp Raise/Relocate Repla	\$391,856	\$362,204	92.4%	\$754,061	8.3%	\$424,287	\$392,181	\$816,467	\$0 \$0	\$816,467
02	40 REACH 02 Demolition of Bldgs/Structur	\$0 \$0	\$0 -		\$0 \$0	-	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 ¢0
02	40 REACH 02 Floodproofing Structures	\$0	\$0 -	74.00/	\$0	-	\$0	\$0	\$0	\$0	\$0
ALL	40 REACH 02 Remaining Construction Iter		\$9,390	74.8%	\$21,940	8.3%	\$13,589	\$10,167	\$23,756	\$0	\$23,756
02	40 REACH 03 Utility Relocations	\$0	\$0 -	04 50/	\$0	-	\$0	\$0	\$0	\$0	\$0
02	40 REACH 03 Transportation Corridor	\$251,537	\$205,014	81.5%	\$456,551	8.3%	\$272,354	\$221,981	\$494,335	\$0	\$494,335
02	40 REACH 03 Bridge Replacement	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0
06	40 REACH 03 Plantings/EWN	\$45,929	\$28,655	62.4%	\$74,585	8.3%	\$49,730	\$31,027	\$80,757	\$0	\$80,757
11	40 REACH 03 Berms/Fill	\$71,154	\$50,608	71.1%	\$121,762	8.3%	\$77,043	\$54,797	\$131,840	\$0	\$131,840
10	40 REACH 03 Ground Improvement/DSM	\$184,587	\$282,833	153.2%	\$467,419	8.3%	\$199,863	\$306,240	\$506,102	\$0	\$506,102
10	40 REACH 03 Cantilever Walls/Pile Caps/		\$7,136	55.3%	\$20,032	8.3%	\$13,963	\$7,726	\$21,689	\$0	\$21,689
11	40 REACH 03 Anchored Walls/T-Wall	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0
10	40 REACH 03 Combi-Wall (Offshore)	\$637,116	\$673,305	105.7%	\$1,310,421	8.3%	\$689,843	\$729,027	\$1,418,870	\$0	\$1,418,870
10	40 REACH 03 Wharf Replacement	\$229,936	\$151,705	66.0%	\$381,641	8.3%	\$248,965	\$164,260	\$413,225	\$0	\$413,225
10	40 REACH 03 Raise Piers	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0
13	40 REACH 03 Pump Stations/Interior Drain	\$134,492	\$138,795	103.2%	\$273,287	8.3%	\$145,623	\$150,282	\$295,905	\$0	\$295,905
10	40 REACH 03 Roller Gate/Vehicle Barriers	\$7,466	\$4,714	63.1%	\$12,180	8.3%	\$8,084	\$5,105	\$13,188	\$0	\$13,188
10	40 REACH 03 Large Gates/Closure Struct		\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0
16	40 REACH 03 Armoring	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0
02	40 REACH 03 Temp Raise/Relocate Repla	\$260,369	\$240,667	92.4%	\$501,036	8.3%	\$281,918	\$260,585	\$542,502	\$0	\$542,502
02	40 REACH 03 Demolition of Bldgs/Structur	\$971	\$687	70.7%	\$1,658	8.3%	\$1,051	\$744	\$1,795	\$0	\$1,795
02	40 REACH 03 Floodproofing Structures	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0
ALL	40 REACH 03 Remaining Construction Iter		\$9,801	74.8%	\$22,902	8.3%	\$14,185	\$10,613	\$24,798	\$0	\$24,798
02	40 REACH 04 Utility Relocations	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0
02	40 REACH 04 Transportation Corridor	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0
02	40 REACH 04 Bridge Replacement	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0
06	40 REACH 04 Plantings/EWN	\$25,805	\$16,100	62.4%	\$41,906	8.3%	\$27,941	\$17,433	\$45,374	\$0	\$45,374
11	40 REACH 04 Berms/Fill	\$78,214	\$55,630	71.1%	\$133,843	8.3%	\$84,687	\$60,234	\$144,920	\$0	\$144,920
10	40 REACH 04 Ground Improvement/DSM	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0
10	40 REACH 04 Cantilever Walls/Pile Caps/	\$228,674	\$126,539	55.3%	\$355,213	8.3%	\$247,599	\$137,011	\$384,610	\$0	\$384,610
11	40 REACH 04 Anchored Walls/T-Wall	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0
10	40 REACH 04 Combi-Wall (Offshore)	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0
10	40 REACH 04 Wharf Replacement	\$729,196	\$481,102	66.0%	\$1,210,298	8.3%	\$789,544	\$520,917	\$1,310,461	\$0	\$1,310,461
10	40 REACH 04 Raise Piers	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0
13	40 REACH 04 Pump Stations/Interior Drain	\$258,827	\$267,106	103.2%	\$525,932	8.3%	\$280,248	\$289,212	\$569,460	\$0	\$569,460
10	40 REACH 04 Roller Gate/Vehicle Barriers	\$2,099	\$1,326	63.1%	\$3,425	8.3%	\$2,273	\$1,435	\$3,709	\$0	\$3,709
10	40 REACH 04 Large Gates/Closure Struct		\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0
16	40 REACH 04 Armoring	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0
02	40 REACH 04 Temp Raise/Relocate Repla	\$538,562	\$497,809	92.4%	\$1,036,371	8.3%	\$583,134	\$539,008	\$1,122,141	\$0	\$1,122,141
02	40 REACH 04 Demolition of Bldgs/Structur	\$1,326	\$938	70.7%	\$2,264	8.3%	\$1,435	\$1,016	\$2,451	\$0	\$2,451
02	40 REACH 04 Floodproofing Structures	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0
ALL	40 REACH 04 Remaining Construction Iter	n \$20,564	\$15,385	74.8%	\$35,948	8.3%	\$22,265	\$16,658	\$38,923	\$0	\$38,923

			5
43.2%	\$411,712	\$271,635	\$683,347
0.0%	\$0	\$0	\$0
43.2%	\$83,730	\$86,409	\$170,139
0.0%	\$0	\$0	\$0
0.0%	\$0	\$0	\$0
0.0%	\$0	\$0	\$0
43.2%	\$607,747	\$561,758	\$1,169,505
0.0%	\$0	\$0	\$0
0.0%	\$0	\$0	\$0
43.2%	\$19,465	\$14,563	\$34,028
0.0%	\$0	\$0	\$0
43.2%	\$390,119	\$317,965	\$708,084
0.0%	\$0	\$0	\$0
43.2%	\$71,234	\$44,443	\$115,677
43.2%	\$110,355	\$78,490	\$188,846
43.2%	\$286,283	\$438,657	\$724,941
43.2%	\$20,000	\$11,067	\$31,068
0.0%	\$0	\$0	\$0
43.2%	\$988,131	\$1,044,257	\$2,032,388
43.2%	\$356,618	\$235,286	\$591,903
0.0%	\$0	\$0	\$0
43.2%	\$208,590	\$215,263	\$423,853
43.2%	\$11,579	\$7,312	\$18,891
0.0%	\$0	\$0	\$0
0.0%	\$0	\$0 \$0	\$0
43.2%	\$403,818	\$373,261	\$777,079
43.2%	\$1,506	\$1,065	\$2,571
0.0%	\$0	\$0	\$0
43.2%	\$20,319	\$15,202	\$35,521
0.0%	\$0	\$0	\$0
0.0%	\$0	\$0	\$0
0.0%	\$0	\$0	\$0
43.2%	\$40,023	\$24,971	\$64,993
43.2%	\$121,304	\$86,278	\$207,582
0.0%	\$0	¢00,270 \$0	\$0 \$0
43.2%	\$354,660	\$196,254	\$550,915
0.0%	φ00-,000 \$0	\$0	¢000,510 \$0
0.0%	\$0 \$0	\$0 \$0	\$0 \$0
43.2%	\$1,130,942	\$746,161	\$1,877,103
0.0%	\$0	\$0 \$0	¢1,077,100 \$0
43.2%	پ 0 \$401,426	3 0 \$414,267	\$815,692
43.2 <i>%</i>	\$3,256	\$2,056	\$5,312
43.2 <i>%</i>	\$0,250	\$2,030 \$0	\$0,312 \$0
0.0%	\$0 \$0	\$0 \$0	\$0 \$0
43.2%	ەن \$835,279	ەن \$772,073	\$0 \$1,607,352
43.2% 43.2%	\$035,279 \$2,056	\$772,073 \$1,455	\$1,607,552
43.2% 0.0%	\$2,050 \$0	\$1,455 \$0	\$3,511
0.0% 43.2%	۵۵ \$31,893	ەن \$23,861	\$0 \$55,754
- 1J.∠ /0	ψ51,095	Ψ 2 0,001	φ55,754

0	o	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0
10	90 Overall Utility Relocations	\$19,966	\$52,819	264.5%	\$72,786	8.3%	\$21,619	\$57,191	\$78,809	\$0 \$0	\$78,809
02	90 REACH 01 Utility Relocations	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0
02	90 REACH 01 Transportation Corridor	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0
02	90 REACH 01 Bridge Replacement	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0
06	90 REACH 01 Plantings/EWN	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0
11	90 REACH 01 Berms/Fill	\$3,437	\$2,445	71.1%	\$5,882	8.3%	\$3,722	\$2,647	\$6,368	\$0	\$6,368
10	90 REACH 01 Ground Improvement/DSM	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0
10	90 REACH 01 Cantilever Walls/Pile Caps/C	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0
11	90 REACH 01 Anchored Walls/T-Wall	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0
10	90 REACH 01 Combi-Wall (Offshore)	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0
10	90 REACH 01 Wharf Replacement	\$238,585	\$157,411	66.0%	\$395,997	8.3%	\$258,330	\$170,439	\$428,769	\$0	\$428,769
10	90 REACH 01 Raise Piers	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0
13	90 REACH 01 Pump Stations/Interior Drain	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0
10	90 REACH 01 Roller Gate/Vehicle Barriers	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0
10	90 REACH 01 Large Gates/Closure Struct	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0
16	90 REACH 01 Armoring	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0
02	90 REACH 01 Temp Raise/Relocate Repla	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0
02	90 REACH 01 Demolition of Bldgs/Structur	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0
02	90 REACH 01 Floodproofing Structures	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0
ALL	90 REACH 02 Remaining Construction Item	\$18,183	\$13,604	74.8%	\$31,787	8.3%	\$19,688	\$14,730	\$34,418	\$0	\$34,418
02	90 REACH 02 Utility Relocations	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0
02	90 REACH 02 Transportation Corridor	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0
02	90 REACH 02 Bridge Replacement	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0
06	90 REACH 02 Plantings/EWN	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0
11	90 REACH 02 Berms/Fill	\$17,999	\$12,802	71.1%	\$30,801	8.3%	\$19,489	\$13,861	\$33,350	\$0	\$33,350
10	90 REACH 02 Ground Improvement/DSM	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0
10	90 REACH 02 Cantilever Walls/Pile Caps/C	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0
11	90 REACH 02 Anchored Walls/T-Wall	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0
10	90 REACH 02 Combi-Wall (Offshore)	\$125,547	\$132,678	105.7%	\$258,226	8.3%	\$135,937	\$143,659	\$279,596	\$0	\$279,596
10	90 REACH 02 Wharf Replacement	\$265,389	\$175,095	66.0%	\$440,484	8.3%	\$287,352	\$189,586	\$476,938	\$0	\$476,938
10	90 REACH 02 Raise Piers	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0
10	90 REACH 02 Pump Stations/Interior Drain	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0
10	90 REACH 02 Roller Gate/Vehicle Barriers	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0
10	90 REACH 02 Large Gates/Closure Struct	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0
16	90 REACH 02 Armoring	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0
02	90 REACH 02 Temp Raise/Relocate Repla	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0
02	90 REACH 02 Demolition of Bldgs/Structur	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0
02	90 REACH 02 Floodproofing Structures	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0
ALL	90 REACH 02 Remaining Construction Item	\$22,219	\$16,623	74.8%	\$38,842	8.3%	\$24,058	\$17,999	\$42,057	\$0	\$42,057
02	90 REACH 03 Utility Relocations	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0
02	90 REACH 03 Transportation Corridor	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0
02	90 REACH 03 Bridge Replacement	\$128,162	\$190,309	148.5%	\$318,472	8.3%	\$138,769	\$206,059	\$344,828	\$0	\$344,828
06	90 REACH 03 Plantings/EWN	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0
11	90 REACH 03 Berms/Fill	\$21,695	\$15,431	71.1%	\$37,126	8.3%	\$23,491	\$16,708	\$40,199	\$0	\$40,199
10	90 REACH 03 Ground Improvement/DSM	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0
10	90 REACH 03 Cantilever Walls/Pile Caps/C	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0
11	90 REACH 03 Anchored Walls/T-Wall	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0

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\$0	\$0	\$0	0.0%
\$407,388	\$295,635	\$111,753	417%
\$0	\$0	\$0	0%
\$0	\$0	\$0	0%
\$0	\$0	\$0	0%
\$0	\$0	\$0	0%
\$32,920	\$13,683	\$19,238	417%
\$0	\$0	\$0	0%
\$0	\$0	\$0	0%
\$0	\$0	\$0	0%
\$0	\$0	\$0	0%
\$2,216,436	\$881,048	\$1,335,387	417%
\$0	\$0 \$0	\$0	0%
\$0	\$0	\$0 \$0	0%
\$0 \$0	\$0 \$0	\$0	0%
\$0 \$0	\$0 \$0	\$0 \$0	0%
\$0 \$0	\$0 \$0	\$0 \$0	0%
			0%
\$0 \$0	\$0 \$0	\$0 ¢0	
\$0 \$0	\$0 \$0	\$0 ¢0	0%
\$0 \$177.049	\$0 #70.140	\$0 #404 775	0%
\$177,918	\$76,143	\$101,775	417%
\$0	\$0	\$0 \$0	0%
\$0	\$0	\$0	0%
\$0	\$0	\$0	0%
\$0	\$0	\$0	0%
\$172,397	\$71,654	\$100,743	417%
\$0	\$0	\$0	0%
\$0	\$0	\$0	0%
\$0	\$0	\$0	0%
\$1,445,318	\$742,616	\$702,702	417%
\$2,465,438	\$980,029	\$1,485,409	417%
\$0	\$0	\$0	0%
\$0	\$0	\$0	0%
\$0	\$0	\$0	0%
\$0	\$0	\$0	0%
\$0	\$0	\$0	0%
\$0	\$0	\$0	0%
\$0	\$0	\$0	0%
\$0	\$0	\$0	0%
\$217,403	\$93,041	\$124,362	417%
\$0	\$0	\$0	0%
\$0	\$0	\$0 \$0	0%
\$1,782,524	\$1,065,184	\$717,340	417%
\$0	\$0	φ/ 17,040 \$0	0%
\$0 \$207,797	\$86,367	پن \$121,430	417%
\$0 \$0	\$00,307 \$0	¢121,430 \$0	0%
\$0 \$0	\$0 \$0	\$0 \$0	0%
\$0 \$0	\$0 \$0	\$0 \$0	0%
u-7 1			11-70

10		# 0	# 0		\$ 0	1	\$ 0	# 0	* 0		# 0
10 10	90 REACH 03 Combi-Wall (Offshore)	\$0 \$229,396	+ \$0 - \$151,348	CC 00/	\$0	-	\$0 ¢040.000	\$0 ¢400.074	\$0 ¢440.054	\$0 ¢0	\$0 ¢440.054
10	90 REACH 03 Wharf Replacement	. ,	. ,	66.0%	\$380,744	8.3%	\$248,380	\$163,874	\$412,254	\$0 ¢0	\$412,254
10	90 REACH 03 Raise Piers	\$0 \$0	\$0 -		\$0 \$0	-	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 ¢0
10	90 REACH 03 Pump Stations/Interior Drain		\$0 -		\$0 \$0	-	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 ¢0
	90 REACH 03 Roller Gate/Vehicle Barriers	\$0 \$0	\$0 -		\$O	-	\$0 \$0	\$0 \$0	\$0	\$0 \$0	\$0
10	90 REACH 03 Large Gates/Closure Struct		\$0 -		\$0	-	\$0	\$0	\$0	\$0 \$0	\$0
16	90 REACH 03 Armoring	\$0	\$0 -		\$0	-	\$0 \$0	\$0	\$0	\$0 \$0	\$0
02	90 REACH 03 Temp Raise/Relocate Repla		\$0 -		\$O	-	\$0 \$0	\$0	\$0	\$0 \$0	\$0
02	90 REACH 03 Demolition of Bldgs/Structur		\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0
02	90 REACH 03 Floodproofing Structures	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0
ALL	90 REACH 03 Remaining Construction Iter		\$16,089	74.8%	\$37,594	8.3%	\$23,285	\$17,420	\$40,705	\$0	\$40,705
02	90 REACH 04 Utility Relocations	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0
02	90 REACH 04 Transportation Corridor	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0
02	90 REACH 04 Bridge Replacement	\$72,949	\$108,322	148.5%	\$181,271	8.3%	\$78,986	\$117,287	\$196,273	\$0	\$196,273
06	90 REACH 04 Plantings/EWN	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0
11	90 REACH 04 Berms/Fill	\$16,620	\$11,821	71.1%	\$28,442	8.3%	\$17,996	\$12,800	\$30,795	\$0	\$30,795
10	90 REACH 04 Ground Improvement/DSM	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0
10	90 REACH 04 Cantilever Walls/Pile Caps/		\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0
11	90 REACH 04 Anchored Walls/T-Wall	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0
10	90 REACH 04 Combi-Wall (Offshore)	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0
10	90 REACH 04 Wharf Replacement	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0
10	90 REACH 04 Raise Piers	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0
13	90 REACH 04 Pump Stations/Interior Drain	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0
10	90 REACH 04 Roller Gate/Vehicle Barriers	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0
10	90 REACH 04 Large Gates/Closure Struct		\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0
16	90 REACH 04 Armoring	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0
02	90 REACH 04 Temp Raise/Relocate Repla		\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0
02	90 REACH 04 Demolition of Bldgs/Structur		\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0
02	90 REACH 04 Floodproofing Structures	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0
ALL	90 REACH 04 Remaining Construction Iter	n \$131,554	\$98,422	74.8%	\$229,976	8.3%	\$142,442	\$106,568	\$249,010	\$0	\$249,010
			·····	-				•••••••••••••••••••••••••••••••••••••••			
	CONSTRUCTION ESTIMATE TOTALS:	\$8,297,856	\$7,476,085		\$15,773,941	8.3%	\$8,984,585	\$8,094,805	\$17,079,390	\$0	\$17,079,390
01		* * ** -	<i>* / / • • •</i>			0.00/	* • • • -	* (* *	* / • • •		
01	40 LANDS AND DAMAGES Reach 01	\$2,997	\$1,499	50.0%	\$4,496	8.3%	\$3,245	\$1,623	\$4,868	\$0 \$0	\$4,868
01	40 LANDS AND DAMAGES Reach 02	\$0	\$0	50.0%	\$0	0.0%	\$0	\$0	\$0	\$0 \$0	\$0
01	40 LANDS AND DAMAGES Reach 03	\$15,127	\$7,564	50.0%	\$22,691	8.3%	\$16,379	\$8,189	\$24,568	\$0 \$0	\$24,568
01	40 LANDS AND DAMAGES Reach 04	\$32,660	\$16,330	50.0%	\$48,990	8.3%	\$35,363	\$17,682	\$53,045	\$0 \$0	\$53,045
01	90 LANDS AND DAMAGES Reach 01	\$558	\$279	50.0%	\$837	8.3%	\$604	\$302	\$906	\$0	\$906
01	90 LANDS AND DAMAGES Reach 02	\$0	\$0	50.0%	\$0	0.0%	\$0	\$0	\$0	\$0 \$0	\$0
01	90 LANDS AND DAMAGES Reach 03	\$34,081	\$17,041	50.0%	\$51,122	8.3%	\$36,902	\$18,451	\$55,352	\$0	\$55,352
01	90 LANDS AND DAMAGES Reach 04	\$13,932	\$6,966	50.0%	\$20,898	8.3%	\$15,085	\$7,543	\$22,628	\$0	\$22,628
30	40 PLANNING, ENGINEERING & DESIGN	\$992,462	\$556,025	56.0%	\$1,548,487	7.4%	\$1,065,920	\$597,179	\$1,663,100	\$0	\$1,663,100
30	90 PLANNING, ENGINEERING & DESIGN		\$106,437	56.0%	\$296,419	7.4%	\$204,044	\$114,315	\$318,359	\$0 \$0	\$318,359
		÷:00,002	+,	00.070	<i>+_00,0</i>	,0	<i>4_0</i> ,0,0,1	<i></i> ,	+0,000	ΨŬ	<i>+•••</i> ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
31	40 CONSTRUCTION MANAGEMENT	\$504,937	\$318,558	63.1%	\$823,495	7.4%	\$542,310	\$342,136	\$884,447	\$0	\$884,447
31	90 CONSTRUCTION MANAGEMENT	\$96,658	\$60,980	63.1%	\$157,637	7.4%	\$103,812	\$65,493	\$169,305	\$0	\$169,305

0%	\$0	\$0	\$0
417%	\$1,283,953	\$847,113	\$2,131,066
0%	\$0	\$0	\$0
0%	\$0	\$0	\$0
0%	\$0	\$0	\$0
0%	\$0	\$0	\$0
0%	\$0	\$0	\$0
0%	\$0	\$0	\$0
0%	\$0	\$0	\$0
0%	\$0	\$0	\$0
417%	\$120,366	\$90,052	\$210,418
0%	\$0	\$0	\$0
0%	\$0	\$0	\$0
417%	\$408,302	\$606,291	\$1,014,594
0%	\$0	\$0	\$0
417%	\$93,026	\$66,165	\$159,190
0%	\$0	\$0	\$0
0%	\$0	\$0	\$0
0%	\$0	\$0	\$0
0%	\$0	\$0	\$0
0%	\$0	\$0	\$0
0%	\$0	\$0	\$0
0%	\$0	\$0	\$0
0%	\$0	\$0	\$0
0%	\$0	\$0	\$0
0%	\$0	\$0	\$0
0%	\$0	\$0	\$0
0%	\$0	\$0	\$0
0%	\$0	\$0	\$0
417%	\$736,326	\$550,882	\$1,287,209
400.00/			
102.2%	\$18,263,886	\$16,269,205	\$34,533,091
7.3%	\$3,483	\$1,742	\$5,225
0.0%	\$0	\$0	\$0
7.3%	\$17,581	\$8,791	\$26,372
7.3%	\$37,959	\$18,979	\$56,938
275.1%	\$2,266	\$1,133	\$3,400
0.0%	\$0	\$0	\$0
275.1%	\$138,429	\$69,214	\$207,643
275.1%	\$56,588	\$28,294	\$84,883
11.3%	\$1,186,320	\$664,633	\$1,850,953
203.4%	\$619,043	\$346,817	\$965,860
35.5%	\$734,743	\$463,539	\$1,198,282
266.3%	\$380,236	\$239,886	\$620,122

PROJECT COST TOTALS	\$10,181,250	\$8,567,762	84.2%	\$18,749,012	\$11,008,249	\$9,267,718	\$20,275,967	\$0 \$20,275,967
	CHIEF, CO	OST ENGIN	EERING	G, XXX				ESTIMATED TOTA
	PROJECT	MANAGE	R, xxx					
	CHIEF, RE	EAL ESTAT	E, xxx					
	CHIEF, PL	_ANNING, x	xx					
	CHIEF, EN	NGINEERIN	G, xxx					
	CHIEF, OI	PERATION	S, xxx					
	CHIEF, CO	ONSTRUCT	ION, xx	x				
	CHIEF, CO	ONTRACTI	NG,xxx					
	CHIEF, P	M-PB, xxxx	X					
	CHIEF, DF	PM, xxx						
			*	*** CONTRACT (COST SUMMARY ****			
SFWS an Francisco, CA							DISTRICT: POC:	SWT CHIEF, COST ENGINEERII

PROJECT:

LOCATION:

This Estimate reflects the scope and schedule in report;

Alternatives Analysis

Printed:12/22/2023 Page 5 of 5

95.1% \$21,440,535 \$18,112,234

\$39,552,768

L PROJECT COST:

\$39,552,768

ING, xxx

PREPARED:

DISTRICT: SWT POC: CHIEF, COST ENGINEERING, xxx

This Estimate reflects the scope and schedule in report;

Alternatives Analysis

Alternative F non-Seismic - Post DQC and Post ARA

Civil V	Vorks Work Breakdown Structure		ESTIMATED	COST			PROJECT FIRST COST (Constant Dollar Basis)							. PROJECT CO LLY FUNDED)	
								Program Year Effective Pric	(Budget EC): ce Level Date:	2026 1 OCT 25					
										Spent Thru:	TOTAL				
WBS	Civil Works	COST	CNTG	CNTG	TOTAL	ESC	COST	CNTG	TOTAL	1-Oct-22	FIRST COST	INFLATED	COST	CNTG	FULL
<u>NUMBER</u> A	Feature & Sub-Feature Description B	<u>(\$K)</u> C	<u>(\$K)</u> D	<u>(%)</u> E	<u>(\$K)</u> <i>F</i>	<u>(%)</u> G	<u>(\$K)</u> <i>H</i>	<u>(\$K)</u>	<u>(\$K)</u> J	<u>(\$K)</u>	<u>(\$K)</u> <i>K</i>	<u>(%)</u> L	<u>(\$K)</u> M	<u>(\$K)</u> N	<u>(\$K)</u> O
02	40 Overall Structures Floodproofing Conc.	\$59,298	\$156,869	264.5%	\$216,167	8.3%	\$64,205	\$169,851	\$234,057	\$0		43.2%	\$91,968	\$243,294	\$335,262
02	40 Overall Utility Relocations	\$46,588	\$123,245	264.5%	\$169,833	8.3%	\$50,443	\$133,445	\$183,888	\$0		43.2%	\$72,255	\$191,146	\$263,401
10	40 Overall Seismic Ground Improvements	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0		0.0%	\$0	\$0	\$0
10	40 Overall Seismic Transportation Corridor	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0		0.0%	\$0	\$0	\$C
02	40 REACH 01 Utility Relocations	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	-	0.0%	\$0	\$0	\$C
02	40 REACH 01 Transportation Corridor	\$21,682	\$17,672	81.5%	\$39,354	8.3%	\$23,477	\$19,135	\$42,611	\$0		43.2%	\$33,628	\$27,408	\$61,037
02	40 REACH 01 Bridge Replacement	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0		0.0%	\$0	\$0	\$C
06	40 REACH 01 Plantings/EWN	\$22,474	\$14,022	62.4%	\$36,496	8.3%	\$24,334	\$15,182	\$39,516	\$0	\$39,516	43.2%	\$34,856	\$21,747	\$56,603
11	40 REACH 01 Berms/Fill	\$31,292	\$22,256	71.1%	\$53,548	8.3%	\$33,881	\$24,098	\$57,980	\$0	\$57,980	43.2%	\$48,531	\$34,518	\$83,049
10	40 REACH 01 Ground Improvement/DSM	\$389,238	\$596,410	153.2%	\$985,648	8.3%	\$421,451	\$645,768	\$1,067,219	\$0	\$1,067,219	43.2%	\$603,686	\$924,997	\$1,528,683
10	40 REACH 01 Cantilever Walls/Pile Caps/	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0	0.0%	\$0	\$0	\$C
11	40 REACH 01 Anchored Walls/T-Wall	\$18,342	\$15,357	83.7%	\$33,699	8.3%	\$19,860	\$16,627	\$36,488	\$0	\$36,488	43.2%	\$28,448	\$23,817	\$52,265
10	40 REACH 01 Combi-Wall (Offshore)	\$163,545	\$172,834	105.7%	\$336,379	8.3%	\$177,080	\$187,138	\$364,217	\$0	\$364,217	43.2%	\$253,649	\$268,056	\$521,704
10	40 REACH 01 Wharf Replacement	\$1,098	\$724	66.0%	\$1,822	8.3%	\$1,189	\$784	\$1,973	\$0	\$1,973	43.2%	\$1,703	\$1,123	\$2,826
10	40 REACH 01 Raise Piers	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0	0.0%	\$0	\$0	\$C
13	40 REACH 01 Pump Stations/Interior Drain	\$23,633	\$24,389	103.2%	\$48,022	8.3%	\$25,589	\$26,407	\$51,996	\$0	\$51,996	43.2%	\$36,653	\$37,826	\$74,479
10	40 REACH 01 Roller Gate/Vehicle Barriers	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0	0.0%	\$0	\$0	\$C
10	40 REACH 01 Large Gates/Closure Struct	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0	0.0%	\$0	\$0	\$C
16	40 REACH 01 Armoring	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0	0.0%	\$0	\$0	\$C
02	40 REACH 01 Temp Raise/Relocate Repla	\$63,442	\$58,641	92.4%	\$122,082	8.3%	\$68,692	\$63,494	\$132,186	\$0	\$132,186	43.2%	\$98,394	\$90,949	\$189,343
02	40 REACH 01 Demolition of Bldgs/Structur	\$1,507	\$1,066	70.7%	\$2,574	8.3%	\$1,632	\$1,155	\$2,787	\$0	\$2,787	43.2%	\$2,338	\$1,654	\$3,992
02	40 REACH 01 Floodproofing Structures	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0	0.0%	\$0	\$0	\$0
ALL	40 REACH 01 Remaining Construction Iter	n \$3,963	\$2,965	74.8%	\$6,927	8.3%	\$4,291	\$3,210	\$7,500	\$C	\$7,500	43.2%	\$6,146	\$4,598	\$10,744
02	40 REACH 02 Utility Relocations	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0	0.0%	\$0	\$0	\$C
02	40 REACH 02 Transportation Corridor	\$28,306	\$23,070	81.5%	\$51,376	8.3%	\$30,648	\$24,980	\$55,628	\$0	\$55,628	43.2%	\$43,900	\$35,781	\$79,681
02	40 REACH 02 Bridge Replacement	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0	0.0%	\$0	\$0	\$C
06	40 REACH 02 Plantings/EWN	\$29,139	\$18,180	62.4%	\$47,319	8.3%	\$31,551	\$19,685	\$51,235	\$0	\$51,235	43.2%	\$45,193	\$28,196	\$73,389
11	40 REACH 02 Berms/Fill	\$147,481	\$104,896	71.1%	\$252,378	8.3%	\$159,687	\$113,578	\$273,266	\$C		43.2%	\$228,735	\$162,688	\$391,422
10	40 REACH 02 Ground Improvement/DSM	\$1,595,447	\$2,444,624	153.2%	\$4,040,071	8.3%	\$1,727,485		\$4,374,423	\$C	-	43.2%	\$2,474,448	\$3,791,473	\$6,265,921
10	40 REACH 02 Cantilever Walls/Pile Caps/		\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0	0.0%	\$0	\$0	\$0
11	40 REACH 02 Anchored Walls/T-Wall	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0	0.0%	\$0	\$0	\$0
10	40 REACH 02 Combi-Wall (Offshore)	\$656,274	\$693,550	105.7%	\$1,349,824	8.3%	\$710,586	\$750,948	\$1,461,534	\$0	-		\$1,017,843	\$1,075,657	\$2,093,500

Filename: SFWS TPCS 2023.08.18 w UPDATED ACCOUNTS TPCS F non-Seismic

PREPARED:

10	40 REACH 02 Wharf Replacement	\$3,780	\$2,494	66.0%	\$6,274	8.3%	\$4,093	\$2,700	\$6,793	\$0	\$6,793
10	40 REACH 02 Raise Piers	\$0	\$0 -		\$0	-	\$0	¢_,: 00 \$0	\$0	\$0	\$0
10	40 REACH 02 Pump Stations/Interior Drain	\$53,987	\$55,714	103.2%	\$109,700	8.3%	\$58,455	\$60,325	\$118,779	\$0	\$118,779
10	40 REACH 02 Roller Gate/Vehicle Barriers	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0
10	40 REACH 02 Large Gates/Closure Structu	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0
16	40 REACH 02 Armoring	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0
02	40 REACH 02 Temp Raise/Relocate Repla	\$218,208	\$201,696	92.4%	\$419,904	8.3%	\$236,267	\$218,389	\$454,656	\$0	\$454,656
02	40 REACH 02 Demolition of Bldgs/Structur	\$11,613	\$8,216	70.7%	\$19,829	8.3%	\$12,574	\$8,896	\$21,470	\$0	\$21,470
02	40 REACH 02 Floodproofing Structures	\$0	\$0 -	-	\$0	-	\$0	\$0	\$0	\$0	\$0
ALL	40 REACH 02 Remaining Construction Item		\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0
02	40 REACH 03 Utility Relocations	\$1,271	\$3,362	264.5%	\$4,632	8.3%	\$1,376	\$3,640	\$5,016	\$0	\$5,016
02	40 REACH 03 Transportation Corridor	\$21,437	\$17,472	81.5%	\$38,909	8.3%	\$23,211	\$18,918	\$42,129	\$0	\$42,129
02	40 REACH 03 Bridge Replacement	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0
06	40 REACH 03 Plantings/EWN	\$55,474	\$34,611	62.4%	\$90,085	8.3%	\$60,065	\$37,475	\$97,541	\$0	\$97,541
11	40 REACH 03 Berms/Fill	\$38,334	\$27,265	71.1%	\$65,598	8.3%	\$41,506	\$29,521	\$71,027	\$0	\$71,027
10	40 REACH 03 Ground Improvement/DSM	\$261,159	\$400,160	153.2%	\$661,319	8.3%	\$282,772	\$433,277	\$716,049	\$0	\$716,049
10	40 REACH 03 Cantilever Walls/Pile Caps/		\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0
11	40 REACH 03 Anchored Walls/T-Wall	\$774	\$648	83.7%	\$1,423	8.3%	\$838	\$702	\$1,540	\$0	\$1,540
10	40 REACH 03 Combi-Wall (Offshore)	\$259,753	\$274,507	105.7%	\$534,260	8.3%	\$281,250	\$297,225	\$578,474	\$0	\$578,474
10	40 REACH 03 Wharf Replacement	\$115,902	\$76,469	66.0%	\$192,371	8.3%	\$125,494	\$82,797	\$208,291	\$0	\$208,291
10	40 REACH 03 Raise Piers	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0
13	40 REACH 03 Pump Stations/Interior Drain	\$6,751	\$6,967	103.2%	\$13,719	8.3%	\$7,310	\$7,544	\$14,854	\$0	\$14,854
10	40 REACH 03 Roller Gate/Vehicle Barriers	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0
10	40 REACH 03 Large Gates/Closure Struct	\$182,318	\$229,295	125.8%	\$411,613	8.3%	\$197,407	\$248,271	\$445,678	\$0	\$445,678
16	40 REACH 03 Armoring	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0
02	40 REACH 03 Temp Raise/Relocate Repla	\$45,971	\$42,493	92.4%	\$88,464	8.3%	\$49,776	\$46,009	\$95,785	\$0	\$95,785
02	40 REACH 03 Demolition of Bldgs/Structur	\$1,360	\$962	70.7%	\$2,323	8.3%	\$1,473	\$1,042	\$2,515	\$0	\$2,515
02	40 REACH 03 Floodproofing Structures	\$4,154	\$3,809	91.7%	\$7,963	8.3%	\$4,498	\$4,124	\$8,622	\$0	\$8,622
ALL	40 REACH 03 Remaining Construction Item	\$6,764	\$5,060	74.8%	\$11,824	8.3%	\$7,324	\$5,479	\$12,803	\$0	\$12,803
02	40 REACH 04 Utility Relocations	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0
02	40 REACH 04 Transportation Corridor	\$8,732	\$7,117	81.5%	\$15,850	8.3%	\$9,455	\$7,706	\$17,161	\$0	\$17,161
02	40 REACH 04 Bridge Replacement	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0
06	40 REACH 04 Plantings/EWN	\$27,001	\$16,846	62.4%	\$43,847	8.3%	\$29,236	\$18,240	\$47,476	\$0	\$47,476
11	40 REACH 04 Berms/Fill	\$14,108	\$10,034	71.1%	\$24,142	8.3%	\$15,275	\$10,865	\$26,140	\$0	\$26,140
10	40 REACH 04 Ground Improvement/DSM	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0
10	40 REACH 04 Cantilever Walls/Pile Caps/		\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0
11	40 REACH 04 Anchored Walls/T-Wall	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0
10	40 REACH 04 Combi-Wall (Offshore)	\$28,861	\$30,501	105.7%	\$59,362	8.3%	\$31,250	\$33,025	\$64,275	\$0	\$64,275
10	40 REACH 04 Wharf Replacement	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0
10	40 REACH 04 Raise Piers	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0
13	40 REACH 04 Pump Stations/Interior Drain	\$6,254	\$6,454	103.2%	\$12,708	8.3%	\$6,772	\$6,988	\$13,760	\$0	\$13,760
10	40 REACH 04 Roller Gate/Vehicle Barriers	\$0	\$0 -	10- 05/	\$0	-	\$0	\$0	\$0	\$0 \$0	\$0
10	40 REACH 04 Large Gates/Closure Structu	\$182,318	\$229,295	125.8%	\$411,613	8.3%	\$197,407	\$248,271	\$445,678	\$0 \$0	\$445,678
16 02	40 REACH 04 Armoring	\$0 * 0	\$0 -		\$0	-	\$0 \$0	\$0 \$0	\$0	\$0 \$0	\$0
02	40 REACH 04 Temp Raise/Relocate Repla	\$0	\$0 -	70 70/	\$0	-	\$0	\$0	\$0 \$000	\$0 \$0	\$0 #200
02	40 REACH 04 Demolition of Bldgs/Structur	\$212	\$150	70.7%	\$362	8.3%	\$229 \$1,000	\$162	\$392	\$0 \$0	\$392
02	40 REACH 04 Floodproofing Structures	\$1,014 ¢5,805	\$930	91.7%	\$1,945 \$10,206	8.3%	\$1,098 \$6,282	\$1,007 \$4,776	\$2,105	\$0 ©0	\$2,105
ALL	40 REACH 04 Remaining Construction Ite	\$5,895	\$4,411	74.8%	\$10,306	8.3%	\$6,383	\$4,776	\$11,159	\$0	\$11,159

43.2%	\$5,862	\$3,868	\$9,730
0.0%	\$0	\$0	\$0
43.2%	\$83,730	\$86,409	\$170,139
0.0%	\$0	\$0	\$0
0.0%	\$0	\$0	\$0
0.0%	\$0	\$0	\$0
43.2%	\$338,428	\$312,819	\$651,248
43.2%	\$18,011	\$12,742	\$30,753
0.0%	\$0	\$0	\$0
0.0%	\$0	\$0	\$0
43.2%	\$1,971	\$5,214	\$7,185
43.2%	\$33,247	\$27,098	\$60,345
0.0%	\$0	\$0	\$0
43.2%	\$86,038	\$53,680	\$139,717
43.2%	\$59,453	\$42,286	\$101,739
43.2%	\$405,042	\$620,626	\$1,025,668
0.0%	\$0	\$0	\$0
43.2%	\$1,201	\$1,005	\$2,206
43.2%	\$402,862	\$425,745	\$828,606
43.2%	\$179,758	\$118,599	\$298,356
0.0%	\$0	\$0	\$0
43.2%	\$10,471	\$10,806	\$21,277
0.0%	\$0	\$0	\$0
43.2%	\$282,765	\$355,623	\$638,388
0.0%	\$0	\$0	\$0
43.2%	\$71,299	\$65,904	\$137,203
43.2%	\$2,110	\$1,493	\$3,602
43.2%	\$6,443	\$5,907	\$12,350
43.2%	\$10,490	\$7,848	\$18,339
0.0%	\$0	\$0	\$0
43.2%	\$13,543	\$11,038	\$24,582
0.0%	\$0	\$0	\$0
43.2%	\$41,878	\$26,128	\$68,005
43.2%	\$21,880	\$15,562	\$37,442
0.0%	\$0	\$0	\$0
0.0%	\$0	\$0	\$0
0.0%	\$0	\$0	\$0
43.2%	\$44,762	\$47,305	\$92,067
0.0%	\$0	\$0	\$0
0.0%	\$0	\$0	\$0
43.2%	\$9,700	\$10,010	\$19,710
0.0%	\$0	\$0	\$0
43.2%	\$282,765	\$355,623	\$638,388
0.0%	\$0	\$0	\$0
0.0%	\$0	\$0	\$0
43.2%	\$329	\$232	\$561
43.2%	\$1,573	\$1,442	\$3,016
43.2%	\$9,143	\$6,841	\$15,984
			· · · · ·

0	ol	\$0	\$0 -		\$0	_	\$0	\$0	\$0	\$0	\$0
02	90 Overall Utility Relocations	\$26,622	\$70,426	264.5%	\$97,047	8.3%	\$28,825	\$76,254	\$105,079	\$0	\$105,079
10	90 Overall Seismic Ground Improvements	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0
02	90 REACH 01 Transportation Corridor	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0
02	90 REACH 01 Bridge Replacement	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0
06	90 REACH 01 Plantings/EWN	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0
11	90 REACH 01 Berms/Fill	\$1,228	\$874	71.1%	\$2,102	8.3%	\$1,330	\$946	\$2,276	\$0	\$2,276
10	90 REACH 01 Ground Improvement/DSM	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0
10	90 REACH 01 Cantilever Walls/Pile Caps/C	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0
11	90 REACH 01 Anchored Walls/T-Wall	\$3,670	\$3,073	83.7%	\$6,742	8.3%	\$3,974	\$3,327	\$7,300	\$0	\$7,300
10	90 REACH 01 Combi-Wall (Offshore)	\$6,034	\$6,376	105.7%	\$12,410	8.3%	\$6,533	\$6,904	\$13,437	\$0	\$13,437
10	90 REACH 01 Wharf Replacement	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0
10	90 REACH 01 Raise Piers	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0
13	90 REACH 01 Pump Stations/Interior Drain	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0
10	90 REACH 01 Roller Gate/Vehicle Barriers	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0
10	90 REACH 01 Large Gates/Closure Struct	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0
16	90 REACH 01 Armoring	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0
02	90 REACH 01 Temp Raise/Relocate Repla	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0
02	90 REACH 01 Demolition of Bldgs/Structur	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0
02	90 REACH 01 Floodproofing Structures	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0
ALL	90 REACH 02 Remaining Construction Item	\$5,241	\$3,921	74.8%	\$9,163	8.3%	\$5,675	\$4,246	\$9,921	\$0	\$9,921
02	90 REACH 02 Utility Relocations	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0
02	90 REACH 02 Transportation Corridor	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0
02	90 REACH 02 Bridge Replacement	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0
06	90 REACH 02 Plantings/EWN	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0
11	90 REACH 02 Berms/Fill	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0
10	90 REACH 02 Ground Improvement/DSM	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0
10	90 REACH 02 Cantilever Walls/Pile Caps/C	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0
11	90 REACH 02 Anchored Walls/T-Wall	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0
10	90 REACH 02 Combi-Wall (Offshore)	\$4,435	\$4,687	105.7%	\$9,122	8.3%	\$4,802	\$5,075	\$9,877	\$0	\$9,877
10	90 REACH 02 Wharf Replacement	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0
10	90 REACH 02 Raise Piers	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0
10	90 REACH 02 Pump Stations/Interior Drain	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0
10	90 REACH 02 Roller Gate/Vehicle Barriers	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0
10	90 REACH 02 Large Gates/Closure Struct	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0
16	90 REACH 02 Armoring	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0
02	90 REACH 02 Temp Raise/Relocate Repla	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0
02	90 REACH 02 Demolition of Bldgs/Structur	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0
02	90 REACH 02 Floodproofing Structures	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0
ALL	90 REACH 02 Remaining Construction Item	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0
02	90 REACH 03 Utility Relocations	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0
02	90 REACH 03 Transportation Corridor	\$4,571	\$3,725	81.5%	\$8,296	8.3%	\$4,949	\$4,034	\$8,982	\$0 \$0	\$8,982
02	90 REACH 03 Bridge Replacement	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0
06	90 REACH 03 Plantings/EWN	\$9,117	\$5,688	62.4%	\$14,806	8.3%	\$9,872	\$6,159	\$16,031	\$0 \$0	\$16,031
11	90 REACH 03 Berms/Fill	\$21,179	\$15,064	71.1%	\$36,243	8.3%	\$22,932	\$16,310	\$39,243	\$0 \$0	\$39,243
10	90 REACH 03 Ground Improvement/DSM	\$0 \$0	\$0 -		\$0 \$0	-	\$0 ¢0	\$0 \$0	\$0 ¢0	\$0 \$0	\$0 \$0
10	90 REACH 03 Cantilever Walls/Pile Caps/C	\$0 \$0	\$0 -		\$0 ¢0	-	\$0 ¢0	\$0 ¢0	\$0 ¢0	\$0 ¢0	\$0 ¢0
11	90 REACH 03 Anchored Walls/T-Wall	\$0	\$0 -		\$0	II -	\$0	\$0	\$0	\$0	\$0

			5
0.0%	\$0	\$0	\$0
417%	\$149,004	\$394,181	\$543,186
0%	\$0	\$0	\$0
0%	\$0	\$0	\$0
0%	\$0	\$0	\$0
0%	\$0	\$0	\$0
417%	\$6,876	\$4,890	\$11,766
0%	\$0	\$0	\$0
0%	\$0	\$0	\$0
417%	\$20,541	\$17,197	\$37,738
417%	\$33,771	\$35,689	\$69,461
0%	\$0	\$0	\$0
0%	\$0	\$0	\$0
0%	\$0	\$0	\$0
0%	\$0	\$0	\$0
0%	\$0	\$0	\$0
0%	\$0	\$0	\$0
0%	\$0	\$0	\$0
0%	\$0	\$0	\$0
0%	\$0	\$0	\$0
417%	\$29,336	\$21,948	\$51,284
0%	\$0	\$0	\$0
0%	\$0	\$0	\$0
0%	\$0	\$0	\$0
0%	\$0	\$0	\$0
0%	\$0	\$0	\$0
0%	\$0	\$0	\$0
0%	\$0	\$0	\$0
0%	\$0	\$0	\$0
417%	\$24,823	\$26,233	\$51,056
0%	\$0	\$0	\$0
0%	\$0	\$0	\$0
0%	\$0	\$0	\$0
0%	\$0	\$0	\$0
0%	\$0	\$0	\$0
0%	\$0	\$0	\$0
0%	\$0	\$0	\$0
0%	\$0	\$0	\$0
0%	\$0	\$0	\$0
0%	\$0	\$0	\$0
0%	\$0	\$0	\$0
417%	\$25,582	\$20,850	\$46,432
0%	\$0	\$0	\$0
417%	\$51,030	\$31,838	\$82,869
417%	\$118,542	\$84,313	\$202,855
0%	\$0	\$0	\$0
0%	\$0	\$0	\$0
0%	\$0	\$0	\$0

10	00 DEACH 02 Combi Wall (Offebere)	ድር	¢O		¢O	II	ድር	¢O	ድር	* 0	¢O
10	90 REACH 03 Combi-Wall (Offshore) 90 REACH 03 Wharf Replacement	\$0 ¢10.840	+ \$0 - \$7,152	66.0%	\$0 ¢17.000	- 8.3%	\$0 ¢11 727	\$0 \$7,744	\$0 \$19,481	\$0 ¢0	\$0 \$10,481
10		\$10,840 ¢0		00.0%	\$17,992 ¢0	0.3%	\$11,737	. ,		\$0 ¢0	\$19,481 ¢0
13	90 REACH 03 Raise Piers	\$0 ¢470.405	\$0 -	400.00/	\$0 ¢000 050	-	\$0 ¢545.004	\$0 ¢500.005	\$0 ¢1 040 160	\$0 \$0	\$0 ¢1 040 100
10	90 REACH 03 Pump Stations/Interior Drain	\$476,405	\$491,645	103.2%	\$968,050	8.3%	\$515,834	\$532,335	\$1,048,168 ¢0	\$0 ¢0	\$1,048,168 ¢0
	90 REACH 03 Roller Gate/Vehicle Barriers	\$0	\$0 -		\$0 \$0	-	\$0 ¢0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 ¢0
10 16	90 REACH 03 Large Gates/Closure Struct		\$0 -		\$0 \$0	-	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0
	90 REACH 03 Armoring	\$0 \$0	\$0 -		\$0	-	\$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0
02 02	90 REACH 03 Temp Raise/Relocate Repla		\$0 -	70 70/	\$0	-	\$0	\$0 ¢1 000	\$0	\$0 \$0	\$0
	90 REACH 03 Demolition of Bldgs/Structur	\$1,727	\$1,222	70.7%	\$2,949	8.3%	\$1,870	\$1,323	\$3,193	\$0 \$0	\$3,193
02	90 REACH 03 Floodproofing Structures	\$1,547	\$1,418	91.7%	\$2,964	8.3%	\$1,675	\$1,535	\$3,210	\$0 \$0	\$3,210
ALL	90 REACH 03 Remaining Construction Iter		\$12,033	74.8%	\$28,118	8.3%	\$17,416	\$13,029	\$30,445	\$0 ¢0	\$30,445
02 02	90 REACH 04 Utility Relocations	\$0	\$0 -	04 50/	\$0	-	\$0 \$14.454	\$0	\$0	\$0 ¢0	\$0 #00 700
02	90 REACH 04 Transportation Corridor	\$10,579	\$8,622	81.5%	\$19,201	8.3%	\$11,454	\$9,336	\$20,790 ¢0	\$0 ¢0	\$20,790
02	90 REACH 04 Bridge Replacement	\$0 \$14.040	\$0 -	00.40/	\$0	-	\$0 \$10.000	\$0 ¢10.005	\$0	\$0 \$0	\$0
	90 REACH 04 Plantings/EWN	\$14,840 \$12,001	\$9,259 \$0,280	62.4%	\$24,099	8.3%	\$16,069	\$10,025	\$26,094 \$24,000	\$0 \$0	\$26,094
11 10	90 REACH 04 Berms/Fill	\$13,061 ¢0	\$9,289 \$0 -	71.1%	\$22,350	8.3%	\$14,142 ¢0	\$10,058	\$24,200 ¢0	\$0 ¢0	\$24,200 ¢0
10	90 REACH 04 Ground Improvement/DSM 90 REACH 04 Cantilever Walls/Pile Caps/	\$0 \$0			\$0 \$0	-	\$0 \$0	\$0 ¢0	\$0 ¢0	\$0 ¢0	\$0 ¢0
10		C \$0 \$0	\$0 - \$0 -		\$0 \$0	-	\$0 \$0	\$0 ¢0	\$0 ¢0	\$0 ¢0	\$0 ¢0
10	90 REACH 04 Anchored Walls/T-Wall 90 REACH 04 Combi-Wall (Offshore)	\$0 \$0	\$0 - \$0 -		\$0 \$0	-	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0
10	90 REACH 04 Wharf Replacement	\$0 \$0	\$0 - \$0 -		\$0 \$0	-	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0
10	90 REACH 04 What Replacement	\$0 \$0	\$0 - \$0 -		\$0 \$0	-	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0
13	90 REACH 04 Pump Stations/Interior Drain	پو \$520,331	- ₅₀ 0 \$536,976	103.2%	هر \$1,057,307	- 8.3%	4 0 \$563,395	₄₀ \$581,417	₄₀ \$1,144,812	\$0 \$0	₄₀ \$1,144,812
10	90 REACH 04 Pullip Stations/Interior Drain 90 REACH 04 Roller Gate/Vehicle Barriers		\$030,970 \$0 -	103.270	\$1,057,307 \$0	0.370	۵۵۵,۵۹۵ \$0	\$381,417 \$0	\$1,144,012 \$0	\$0 \$0	\$1,144,812 \$0
10	90 REACH 04 Large Gates/Closure Struct	•	\$0 - \$0 -		\$0 \$0	-	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0
16	90 REACH 04 Armoring	\$0 \$0	\$0 - \$0 -		\$0 \$0	-	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0
02	90 REACH 04 Temp Raise/Relocate Repla		\$0 - \$0 -		\$0 \$0		\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0
02	90 REACH 04 Demolition of Bldgs/Structur	پو \$27,296	\$19,311	70.7%	\$46,607	8.3%	\$29,555	پ و \$20,910	\$50,464	\$0 \$0	\$50,464
02	90 REACH 04 Floodproofing Structures	\$1,803	\$1,653	91.7%	\$3,455	8.3%	\$1,952	\$1,789	\$3,741	\$0 \$0	\$3,741
ALL	90 REACH 04 Remaining Construction Iter		\$0 -	51.770	\$0, 1 59 \$0	0.070	\$0	ψ1,700 \$0	\$0	\$0 \$0	\$0,741 \$0
		φυ	Ψ0 -		φυ		φυ	ψυ	φυ	φυ	ΨΟ
	CONSTRUCTION ESTIMATE TOTALS:	\$6,042,764	\$7,400,121	-	\$13,442,885	8.3%	\$6,542,863	\$8,012,553	\$14,555,417	\$0	\$14,555,417
• •											
01	40 LANDS AND DAMAGES Reach 01	\$632	\$316	50.0%	\$948	8.3%	\$684	\$342	\$1,026	\$0	\$1,026
01	40 LANDS AND DAMAGES Reach 02	\$0	\$0	50.0%	\$0	0.0%	\$0	\$0	\$0	\$0	\$0
01	40 LANDS AND DAMAGES Reach 03	\$4,667	\$2,334	50.0%	\$7,001	8.3%	\$5,053	\$2,527	\$7,580	\$0	\$7,580
01	40 LANDS AND DAMAGES Reach 04	\$6,220	\$3,110	50.0%	\$9,330	8.3%	\$6,735	\$3,367	\$10,102	\$0	\$10,102
01	90 LANDS AND DAMAGES Reach 01	\$0	\$0	50.0%	\$0	0.0%	\$0	\$0	\$0	\$0	\$0
01	90 LANDS AND DAMAGES Reach 02	\$0	\$0	50.0%	\$0	0.0%	\$0	\$0	\$0	\$0	\$0
01	90 LANDS AND DAMAGES Reach 03	\$5,488	\$2,744	50.0%	\$8,232	8.3%	\$5,942	\$2,971	\$8,913	\$0	\$8,913
01	90 LANDS AND DAMAGES Reach 04	\$79,248	\$39,624	50.0%	\$118,872	8.3%	\$85,807	\$42,903	\$128,710	\$0	\$128,710
30	40 PLANNING, ENGINEERING & DESIGN	\$693,427	\$388,491	56.0%	\$1,081,918	7.4%	\$744,752	\$417,245	\$1,161,997	\$0	\$1,161,997
30	90 PLANNING, ENGINEERING & DESIGN	\$167,667	\$93,935	56.0%	\$261,602	7.4%	\$180,077	\$100,888	\$280,964	\$0	\$280,964
		÷,	+-0,000		<i>+_0</i> ,002		+ . 50,011	÷,	+_00,001	ΨŪ	+_00,001
31	40 CONSTRUCTION MANAGEMENT	\$352,796	\$222,574	63.1%	\$575,371	7.4%	\$378,909	\$239,048	\$617,957	\$0	\$617,957
31	90 CONSTRUCTION MANAGEMENT	\$85,304	\$53,817	63.1%	\$139,121	7.4%	\$91,618	\$57,801	\$149,419	\$0	\$149,419

5			
\$0	\$0	\$0	0%
\$100,702	\$40,030	\$60,672	417%
\$0	\$0	\$0	0%
\$5,418,297	\$2,751,797	\$2,666,500	417%
\$0	\$0	\$0	0%
\$0	\$0	\$0	0%
\$0	\$0	\$0	0%
\$0	\$0	\$0	0%
\$16,508	\$6,840	\$9,668	417%
\$16,592	\$7,936	\$8,656	417%
\$157,379	\$67,353	\$90,026	417%
\$0	\$0	\$0	0%
\$107,469	\$48,259	\$59,210	417%
\$0	\$0	\$0	0%
\$134,888	\$51,824	\$83,064	417%
\$125,096	\$51,994	\$73,102	417%
\$0	\$0	\$0	0%
\$0	\$0	\$0	0%
\$0	\$0	\$0	0%
\$0	\$0	\$0	0%
\$0	\$0	\$0	0%
\$0	\$0	\$0	0%
\$5,917,876	\$3,005,519	\$2,912,357	417%
\$0	\$0	\$0	0%
\$0	\$0	\$0	0%
\$0	\$0	\$0	0%
\$0	\$0	\$0	0%
\$260,866	\$108,088	\$152,778	417%
\$19,341	\$9,250	\$10,090	417%
\$0	\$0	\$0	0%
¢20 515 569			400.70/
\$30,515,568	\$10,302,012	\$14,132,757	109.7%
\$1,102	\$367	\$735	7.3%
\$0	\$0	\$0	0.0%
\$8,136	\$2,712	\$5,424	7.3%
\$10,844	\$3,615	\$7,229	7.3%
\$0	\$0	\$0	0.0%
\$0	\$0	\$0	0.0%
\$33,436	\$11,145	\$22,291	275.1%
\$482,830	\$160,943	\$321,886	275.1%
\$1,293,249	\$464,375	\$828,874	11.3%
\$852,411	\$306,080	\$546,330	203.4%
\$837,232	\$323,872	\$513,360	35.5%
	\$323,872 \$211,709		35.5% 266.3%
\$547,283	φ∠11,7U9	\$335,574	200.3%

	PROJECT COST TOTALS:	\$7,438,213	\$8,207,066	110.3%	\$15,645,279	\$8,042	440 \$8,879,	646 \$16,922,086	\$0 \$16,922,086
		CHIEF, CO	OST ENGIN	NEERING	G, XXX				ESTIMATED TOTA
		PROJECT	MANAGE	R, xxx					
		CHIEF, RE		TE, xxx					
		CHIEF, PL	ANNING, 2	xxx					
		CHIEF, EN	IGINEERIN	NG, xxx					
		CHIEF, OF	PERATION	IS, xxx					
		CHIEF, CO	ONSTRUC	TION, xx	x				
		CHIEF, CO	ONTRACTI	NG,xxx					
		CHIEF, P	M-PB, xxx	x					
		CHIEF, DF	PM, xxx						
				*:	*** CONTRACT	COST SUMMARY **	**		
PROJECT: LOCATION:	SFWS San Francisco, CA							DISTRICT: POC:	SWT CHIEF, COST ENGINEERIN

This Estimate reflects the scope and schedule in report;

Alternatives Analysis

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104.4% \$16,714,460 \$17,867,630

\$34,582,090

L PROJECT COST:

\$34,582,090

ING, xxx

PREPARED:

DISTRICT: SWT POC: CHIEF, COST ENGINEERING, xxx

This Estimate reflects the scope and schedule in report;

Alternatives Analysis

Alternative G non-Seismic - Post DQC and Post ARA

Civil V	Vorks Work Breakdown Structure		ESTIMATE	D COST					CT FIRST COST					PROJECT COS LLY FUNDED)	T
								Program Year Effective Pric	(Budget EC): ce Level Date:	2026 1 OCT 25	1				
WBS <u>NUMBER</u>	Civil Works Feature & Sub-Feature Description	COST _(\$K)	CNTG _(\$K)	CNTG _(%)_	TOTAL _(\$K)	ESC _(%)_	COST _(\$K)	CNTG _(\$K)	TOTAL _(\$K)	Spent Thru: 1-Oct-22 <u>(\$K)</u>	TOTAL FIRST COST _(<u>\$K)</u> _	INFLATED _(%)_	COST _(\$K)_	CNTG _(\$K)	FULL _(\$K)
Α	В	С	D	E	F	G	Н	Ι	J		K	L	М	N	0
02		¢50.000	ф г 4 000	04 70/	¢442.000	0.00/	¢04.005	¢50.004	¢400.007		¢400.007	40.00/	¢04.000	#04.040	¢470.00
02 02	40 Overall Structures Floodproofing Conc.	\$59,298 \$66 554	\$54,362	91.7%	\$113,660 \$242,618	8.3% 8.3%	\$64,205 \$72,062	\$58,861 \$100,626	\$123,067 \$262,608	\$C \$C		43.2% 43.2%	\$91,968 \$102,221	\$84,313 \$272,066	\$176,28 \$276,28
02	40 Overall Utility Relocations	\$66,554 \$20,587	\$176,064	264.5% 91.7%	\$242,618 \$58,627		\$72,062 \$22,119	\$190,636	\$262,698		. ,		\$103,221 \$47,429	\$273,066 \$42,400	\$376,28
10	40 Overall Structure Floodproofing 40 Overall Seismic Ground Improvements	\$30,587 \$0	\$28,041 \$0 -	91.1%	\$58,627 \$0	8.3%	\$33,118 \$0	\$30,361 \$0	\$63,479 \$0	\$C \$C	\$63,479 \$0	43.2% 0.0%	\$47,438 \$0	\$43,490 \$0	\$90,92
02	40 REACH 01 Utility Relocations	\$0 \$0	\$0 - \$0 -		\$0 \$0	-	\$0 \$0	\$0 \$0	\$0 \$0	\$0		0.0%	\$0 \$0	\$0 \$0	
02	40 REACH 01 Juliity Relocations 40 REACH 01 Transportation Corridor	\$0 \$49,473	- ۵۵ \$40,323	81.5%	۵0 \$89,796	- 8.3%	۵۵ \$53,568	_{\$0} \$43,660	۵۵ \$97,228	\$0		0.0% 43.2%	۵۵ \$76,730	\$0 \$62,539	\$139,2
02	40 REACH 01 Bridge Replacement	\$49,473 \$0	\$40,323 \$0 -	01.070	۵۵۹,790 \$0	0.3%	\$53,508 \$0	\$43,000 \$0	۶97,220 \$0	\$C \$C		43.2%	\$70,730 \$0	\$0∠,559 \$0	φ139,2
06	40 REACH 01 Plantings/EWN	\$0 \$0	\$0 - \$0 -		\$0 \$0		\$0 \$0	\$0 \$0	\$0 \$0	\$C		0.0%	\$0 \$0	\$0 \$0	
11	40 REACH 01 Berms/Fill	\$3,800	\$2,703	71.1%	\$6,503	8.3%	φ0 \$4,115	\$2,927	پ 0 \$7,042	\$C		43.2%	⁴⁰ \$5,894	\$4,192	\$10,0
10	40 REACH 01 Ground Improvement/DSM	\$125,688	\$192,586	153.2%	\$318,274	8.3%	\$136,090	\$208,524	\$344,614	\$C		43.2%	\$194,935	\$298,690	\$493,6
10	40 REACH 01 Cantilever Walls/Pile Caps/	\$64,380	\$35,625	55.3%	\$100,005	8.3%	\$69,708	\$38,574	\$108,282	\$0		43.2%	\$99,850	\$55,253	\$155,1
11	40 REACH 01 Anchored Walls/T-Wall	\$16,053	\$13,440	83.7%	\$29,493	8.3%	\$17,382	\$14,552	\$31,934	\$C		43.2%	\$24,897	\$20,845	\$45,7
10	40 REACH 01 Combi-Wall (Offshore)	¢10,000 \$0	\$0 -	00.170	\$0	-	\$0	\$0	\$0 \$0	\$C		0.0%	\$0	\$0	φισ,
10	40 REACH 01 Wharf Replacement	\$88,172	\$58,173	66.0%	\$146,346	8.3%	\$95,469	\$62,988	\$158,457	\$C		43.2%	\$136,750	\$90,224	\$226,9
10	40 REACH 01 Raise Piers	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0		0.0%	\$0	\$0	+,-
13	40 REACH 01 Pump Stations/Interior Drain	\$23,633	\$24,389	103.2%	\$48,022	8.3%	\$25,589	\$26,407	\$51,996	\$0		43.2%	\$36,653	\$37,826	\$74,4
10	40 REACH 01 Roller Gate/Vehicle Barriers	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$C	\$0	0.0%	\$0	\$0	
10	40 REACH 01 Large Gates/Closure Structu	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$C	\$0	0.0%	\$0	\$0	:
16	40 REACH 01 Armoring	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0		0.0%	\$0	\$0	
02	40 REACH 01 Temp Raise/Relocate Repla	\$62,594	\$57,857	92.4%	\$120,451	8.3%	\$67,774	\$62,646	\$130,420	\$C		43.2%	\$97,079	\$89,733	\$186,8
02	40 REACH 01 Demolition of Bldgs/Structur	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$C		0.0%	\$0	\$0	
02	40 REACH 01 Floodproofing Structures	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$C		0.0%	\$0	\$0	
ALL	40 REACH 01 Remaining Construction Item	\$10,923	\$8,172	74.8%	\$19,095	8.3%	\$11,827	\$8,848	\$20,675	\$C	\$20,675	43.2%	\$16,941	\$12,674	\$29,6
02	40 REACH 02 Utility Relocations	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$C	\$0	0.0%	\$0	\$0	:
02	40 REACH 02 Transportation Corridor	\$294,092	\$239,699	81.5%	\$533,791	8.3%	\$318,431	\$259,536	\$577,968	\$C	\$577,968	43.2%	\$456,120	\$371,759	\$827,8
02	40 REACH 02 Bridge Replacement	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$C	\$0	0.0%	\$0	\$0	:
06	40 REACH 02 Plantings/EWN	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$C	\$0	0.0%	\$0	\$0	:
11	40 REACH 02 Berms/Fill	\$8,683	\$6,176	71.1%	\$14,859	8.3%	\$9,402	\$6,687	\$16,089	\$C	\$16,089	43.2%	\$13,467	\$9,579	\$23,04
10	40 REACH 02 Ground Improvement/DSM	\$215,083	\$329,561	153.2%	\$544,644	8.3%	\$232,883	\$356,835	\$589,718	\$C	\$589,718	43.2%	\$333,582	\$511,131	\$844,7
10	40 REACH 02 Cantilever Walls/Pile Caps/	\$124,518	\$68,903	55.3%	\$193,421	8.3%	\$134,823	\$74,605	\$209,428	\$C	\$209,428	43.2%	\$193,120	\$106,865	\$299,98
11	40 REACH 02 Anchored Walls/T-Wall	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$C	\$0	0.0%	\$0	\$0	:
10	40 REACH 02 Combi-Wall (Offshore)	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$C	\$0	0.0%	\$0	\$0	9

Filename: SFWS TPCS 2023.08.18 w UPDATED ACCOUNTS TPCS G non-Seismic

10	40 REACH 02 Wharf Bankagement	\$282,623	¢196 466	66.00/	\$469,089	8.3%	\$306,012	¢201 000	\$507,910	¢0	\$507,910
10	40 REACH 02 Wharf Replacement 40 REACH 02 Raise Piers	\$202,023 \$0	\$186,466 \$0 -	66.0%	\$409,089 \$0	0.3%	\$300,012 \$0	\$201,898 \$0	۵۵ <i>۲</i> ,910 \$0	\$0 \$0	\$507,910 \$0
10	40 REACH 02 Pump Stations/Interior Drain	پ 0 \$53,987	\$55,714	103.2%	پو \$109,700	- 8.3%	\$58,455	پ 0 \$60,325	پو \$118,779	\$0 \$0	پو \$118,779
10	40 REACH 02 Poller Gate/Vehicle Barriers	400,907 \$0	\$00,714 \$0 -	103.270	\$109,700 \$0	0.570	\$00,400 \$0	\$00,323 \$0	\$110,779 \$0	\$0 \$0	\$110,779 \$0
10	40 REACH 02 Large Gates/Closure Structu	\$0 \$0	\$0 - \$0 -		\$0 \$0		\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0
16	40 REACH 02 Armoring	\$0 \$0	\$0 - \$0 -		\$0 \$0	-	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0
02	40 REACH 02 Temp Raise/Relocate Repla	پ 0 \$241,177	- ₉₀ - \$222,927	92.4%	پو \$464,104	- 8.3%	\$261,137	پ 0 \$241,377	پو \$502,514	\$0 \$0	پ و \$502,514
02	40 REACH 02 Demolition of Bldgs/Structur	\$241,177 \$0	\$222,927 \$0 -	92.470	\$404,104 \$0	0.570	\$201,137 \$0	¢241,377 \$0	\$302,314 \$0	\$0 \$0	\$302,314 \$0
02	40 REACH 02 Floodproofing Structures	\$0 \$0	\$0 - \$0 -		\$0 \$0	-	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0
ALL	40 REACH 02 Remaining Construction Item	پو \$18,109	- ₄₀ - \$13,548	74.8%	پن \$31,657	8.3%	پ و \$19,608	₄₀ \$14,669	پ ں \$34,277	\$0 \$0	\$34,277
02	40 REACH 02 Weinaming Construction Real 40 REACH 03 Utility Relocations	\$10,109 \$0	\$13,540 \$0 -	74.070	۵۵۱,007 \$0	0.570	\$19,000 \$0	\$14,009 \$0	\$34,277 \$0	\$0 \$0	\$04,277 \$0
02	40 REACH 03 Transportation Corridor	پو \$111,935	- ₄₀ - \$91,232	81.5%	پن \$203,167	8.3%	پ و \$121,198	پ و \$98,782	پو \$219,981	\$0 \$0	₄₀ \$219,981
02	40 REACH 03 Bridge Replacement	\$128,162	\$190,309	148.5%	\$203,107 \$318,472	8.3%	\$121,190 \$138,769	\$206,059	\$344,828	\$0 \$0	\$344,828
06	40 REACH 03 Plantings/EWN	\$15,169	\$9,464	62.4%	\$24,633	8.3%	\$16,424	\$10,247	\$26,672	\$0 \$0	\$26,672
11	40 REACH 03 Berms/Fill	\$11,192	\$7,960	71.1%	\$19,152	8.3%	\$12,118	\$8,619	\$20,737	\$0 \$0	\$20,772 \$20,737
10	40 REACH 03 Ground Improvement/DSM	\$81,752	\$125,264	153.2%	\$207,016	8.3%	\$88,517	\$135,631	\$224,148	\$0 \$0	\$224,148
10	40 REACH 03 Cantilever Walls/Pile Caps/C	\$49,128	\$27,185	55.3%	\$76,313	8.3%	\$53,194	\$29,435	\$82,629	\$0 \$0	\$82,629
11	40 REACH 03 Anchored Walls/T-Wall	\$33,483	\$28,032	83.7%	\$61,515	8.3%	\$36,254	\$30,352	\$66,606	\$0 \$0	\$66,606
10	40 REACH 03 Combi-Wall (Offshore)	¢00,100 \$0	¢20,002 \$0 -	00.170	\$0,010 \$0	-	\$0	\$00,002 \$0	\$00,000 \$0	\$0 \$0	\$00,000 \$0
10	40 REACH 03 Wharf Replacement	\$112,420	\$74,171	66.0%	\$186,591	8.3%	\$121,723	\$80,309	\$202,033	\$0 \$0	\$202,033
10	40 REACH 03 Raise Piers	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0
13	40 REACH 03 Pump Stations/Interior Drain	\$131,150	\$135,345	103.2%	\$266,494	8.3%	\$142,004	\$146,546	\$288,550	\$0	\$288,550
10	40 REACH 03 Roller Gate/Vehicle Barriers	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0
10	40 REACH 03 Large Gates/Closure Struct	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0
16	40 REACH 03 Armoring	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0
02	40 REACH 03 Temp Raise/Relocate Repla	\$89,485	\$82,714	92.4%	\$172,199	8.3%	\$96,891	\$89,559	\$186,451	\$0	\$186,451
02	40 REACH 03 Demolition of Bldgs/Structur	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0
02	40 REACH 03 Floodproofing Structures	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0
ALL	40 REACH 03 Remaining Construction Item	\$6,948	\$5,198	74.8%	\$12,147	8.3%	\$7,523	\$5,629	\$13,152	\$0	\$13,152
02	40 REACH 04 Utility Relocations	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0
02	40 REACH 04 Transportation Corridor	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0
02	40 REACH 04 Bridge Replacement	\$72,949	\$108,322	148.5%	\$181,271	8.3%	\$78,986	\$117,287	\$196,273	\$0	\$196,273
06	40 REACH 04 Plantings/EWN	\$19,679	\$12,278	62.4%	\$31,957	8.3%	\$21,308	\$13,294	\$34,602	\$0	\$34,602
11	40 REACH 04 Berms/Fill	\$18,904	\$13,446	71.1%	\$32,350	8.3%	\$20,469	\$14,558	\$35,027	\$0	\$35,027
10	40 REACH 04 Ground Improvement/DSM	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0
10	40 REACH 04 Cantilever Walls/Pile Caps/C	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0
11	40 REACH 04 Anchored Walls/T-Wall	\$1,084	\$908	83.7%	\$1,992	8.3%	\$1,174	\$983	\$2,157	\$0	\$2,157
10	40 REACH 04 Combi-Wall (Offshore)	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0
10	40 REACH 04 Wharf Replacement	\$170,493	\$112,486	66.0%	\$282,979	8.3%	\$184,603	\$121,795	\$306,398	\$0	\$306,398
10	40 REACH 04 Raise Piers	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0
13	40 REACH 04 Pump Stations/Interior Drain	\$258,827	\$267,106	103.2%	\$525,932	8.3%	\$280,248	\$289,212	\$569,460	\$0	\$569,460
10	40 REACH 04 Roller Gate/Vehicle Barriers	\$0	\$0 -		\$0	-	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0
10	40 REACH 04 Large Gates/Closure Structu	\$0 \$0	\$0 -		\$0	-	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0
16 02	40 REACH 04 Armoring	\$0 \$0	\$0 -		\$0 \$0	-	\$0 ¢0	\$0 ¢0	\$0 ¢0	\$0 ¢0	\$0 \$0
02 02	40 REACH 04 Temp Raise/Relocate Repla	\$0 \$0	\$0 - \$0		\$0 \$0	-	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0
02 02	40 REACH 04 Demolition of Bldgs/Structur	\$0 \$0	\$0 - \$0		\$0 \$0	-	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0
OZ ALL	40 REACH 04 Floodproofing Structures	\$0 \$0	\$0 - \$0 -		\$0 \$0	-	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0
ALL	40 REACH 04 Remaining Construction Item	\$0	ФО -		\$0	II -	\$0	\$0	\$0	\$0	\$0

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43.2%	\$438,332	\$289,198	\$727,530
0.0%	\$0	\$0	\$0
43.2%	\$83,730	\$86,409	\$170,139
0.0%	\$0	\$0	\$0
0.0%	\$0	\$0	\$0
0.0%	\$0	\$0	\$0
43.2%	\$374,052	\$345,747	\$719,799
0.0%	\$0	\$0	\$0
0.0%	\$0	\$0	\$0
43.2%	\$28,086	\$21,013	\$49,099
0.0%	\$0	\$0	\$0
43.2%	\$173,604	\$141,496	\$315,100
43.2%	\$198,772	\$295,159	\$493,931
43.2%	\$23,526	\$14,678	\$38,205
43.2%	\$17,358	\$12,346	\$29,704
43.2%	\$126,792	\$194,277	\$321,070
43.2%	\$76,195	\$42,163	\$118,358
43.2%	\$51,929	\$43,476	\$95,406
0.0%	\$0	\$0	\$0
43.2%	\$174,356	\$115,035	\$289,392
0.0%	\$0	\$0	\$0
43.2%	\$203,406	\$209,912	\$413,318
0.0%	\$0	\$0	\$0
0.0%	\$0	\$0	\$0
0.0%	\$0	\$0	\$0
43.2%	\$138,787	\$128,285	\$267,071
0.0%	\$0	\$0	\$0
0.0%	\$0	\$0	\$0
43.2%	\$10,777	\$8,063	\$18,839
0.0%	\$0	\$0	\$0
0.0%	\$0	\$0	\$0
43.2%	\$113,139	\$168,001	\$281,140
43.2%	\$30,521	\$19,042	\$49,564
43.2%	\$29,319	\$20,853	\$50,173
0.0%	\$0	\$0	\$0
0.0%	\$0	\$0	\$0
43.2%	\$1,682	\$1,408	\$3,089
0.0%	\$0	\$0	\$0
43.2%	\$264,425	\$174,460	\$438,884
0.0%	\$0	\$0	\$0
43.2%	\$401,426	\$414,267	\$815,692
0.0%	\$0	\$0	\$0
0.0%	\$0	\$0	\$0
0.0%	\$0	\$0	\$0
0.0%	\$0	\$0	\$0
0.0%	\$0	\$0	\$O
0.0%	\$0	\$0	\$0
0.0%	\$O	\$0	\$0
	÷-	÷3	¢0

02	90 Overall Utility Relocations	\$26,622	\$70,426	264.5%	\$97,047	8.3%	\$28,825	\$76,254	\$105,079	\$0	\$105,079
10	90 Overall Seismic Ground Improvements	\$0 \$0	\$70,420 \$0 -	204.370	497,047 \$0	0.070	φ20,023 \$0	\$0,254	\$00,079 \$0	\$0 \$0	\$0 \$0
02	90 REACH 01 Utility Relocations	\$0 \$0	\$0 -		\$0 \$0		\$0 \$0	\$0 \$0	φ0 \$0	\$0 \$0	ф0 \$0
02	90 REACH 01 Transportation Corridor	\$0 \$0	\$0 - \$0 -		\$0 \$0		\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0
02	90 REACH 01 Bridge Replacement	\$0 \$0	\$0 - \$0 -		\$0 \$0		\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0
06	90 REACH 01 Plantings/EWN	\$0 \$0	\$0 -		\$0 \$0		\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	ф0 \$0
11	90 REACH 01 Berms/Fill	پ 0 \$2,160	- ₄₀ -	71.1%	φ0 \$3,696	8.3%	\$2,338	φ0 \$1,663	\$4,001	\$0 \$0	\$4,001
10	90 REACH 01 Ground Improvement/DSM	\$21,978	\$33,675	153.2%	\$55,653	8.3%	\$23,796	\$36,462	\$60,258	\$0 \$0	\$60,258
10	90 REACH 01 Cantilever Walls/Pile Caps/C	\$2,807	\$1,553	55.3%	\$4,360	8.3%	\$3,039	\$1,682	\$4,721	\$0 \$0	\$4,721
11	90 REACH 01 Anchored Walls/T-Wall	\$16,053	\$13,440	83.7%	\$29,493	8.3%	\$17,382	\$14,552	\$31,934	\$0 \$0	\$31,934
10	90 REACH 01 Combi-Wall (Offshore)	\$0	φ10,440 \$0 -	00.170	¢20,400 \$0	-	\$0	\$0	\$0 \$0	\$0 \$0	\$0 \$0
10	90 REACH 01 Wharf Replacement	\$0	\$0 -		\$0 \$0	_	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0
10	90 REACH 01 Raise Piers	\$0	\$0 -		\$0 \$0	_	\$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0
13	90 REACH 01 Pump Stations/Interior Drain	\$0	\$0 -		\$0 \$0	_	\$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0
10	90 REACH 01 Roller Gate/Vehicle Barriers	\$0	\$0 -		\$0 \$0	_	\$0	\$0	\$0	\$0 \$0	\$0
10	90 REACH 01 Large Gates/Closure Struct	\$0	\$0 -		\$0 \$0	_	\$0 \$0	\$0	\$0	\$0 \$0	\$0
16	90 REACH 01 Armoring	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0
02	90 REACH 01 Temp Raise/Relocate Repla	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0
02	90 REACH 01 Demolition of Bldgs/Structur	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0
02	90 REACH 01 Floodproofing Structures	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0
ALL	90 REACH 01 Remaining Construction Item		\$2,526	74.8%	\$5,902	8.3%	\$3,656	\$2,735	\$6,391	\$0	\$6,391
02	90 REACH 02 Utility Relocations	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0
02	90 REACH 02 Transportation Corridor	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0
02	90 REACH 02 Bridge Replacement	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0
06	90 REACH 02 Plantings/EWN	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0
11	90 REACH 02 Berms/Fill	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0
10	90 REACH 02 Ground Improvement/DSM	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0
10	90 REACH 02 Cantilever Walls/Pile Caps/C	\$4,256	\$2,355	55.3%	\$6,611	8.3%	\$4,608	\$2,550	\$7,158	\$0	\$7,158
11	90 REACH 02 Anchored Walls/T-Wall	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0
10	90 REACH 02 Combi-Wall (Offshore)	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0
10	90 REACH 02 Wharf Replacement	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0
10	90 REACH 02 Raise Piers	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0
10	90 REACH 02 Pump Stations/Interior Drain	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0
10	90 REACH 02 Roller Gate/Vehicle Barriers	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0
10	90 REACH 02 Large Gates/Closure Struct	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0
16	90 REACH 02 Armoring	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0
02	90 REACH 02 Temp Raise/Relocate Repla	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0
02	90 REACH 02 Demolition of Bldgs/Structur	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0
02	90 REACH 02 Floodproofing Structures	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0
ALL	90 REACH 02 Remaining Construction Item		\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0
02	90 REACH 03 Utility Relocations	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0
02	90 REACH 03 Transportation Corridor	\$693	\$564	81.5%	\$1,257	8.3%	\$750	\$611	\$1,361	\$0 \$0	\$1,361
02	90 REACH 03 Bridge Replacement	\$0	\$0 -	00.401	\$0	-	\$0	\$0	\$0	\$0 \$0	\$0
06	90 REACH 03 Plantings/EWN	\$28,174	\$17,578	62.4%	\$45,753	8.3%	\$30,506	\$19,033	\$49,539	\$0 \$0	\$49,539
11	90 REACH 03 Berms/Fill	\$42,484	\$30,217	71.1%	\$72,701	8.3%	\$46,000	\$32,718	\$78,718	\$0 ¢0	\$78,718 ¢0
10	90 REACH 03 Ground Improvement/DSM	\$0 ¢4.050	\$0 -		\$0 ¢0 500	-	\$0	\$0 ¢000	\$0 ¢0 700	\$0 ¢0	\$0 \$0,700
10	90 REACH 03 Cantilever Walls/Pile Caps/C		\$915 \$6.614	55.3%	\$2,568	8.3%	\$1,790 \$8,554	\$990 ¢7.460	\$2,780 \$15,746	\$0 \$0	\$2,780 \$45,746
11	90 REACH 03 Anchored Walls/T-Wall	\$7,900	\$6,614	83.7%	\$14,515	8.3%	\$8,554	\$7,162	\$15,716	\$0	\$15,716

			- . II
417%	\$149,004	\$394,181	\$543,186
0%	\$0	\$0	\$0 \$0
0%	\$0	\$0 \$0	\$0
0%	\$0	\$0 \$0	\$0
0%	\$0	\$0	\$0
0%	\$0	\$0	\$0
417%	\$12,087	\$8,597	\$20,685
417%	\$123,011	\$188,483	\$311,494
417%	\$15,712	\$8,694	\$24,406
417%	\$89,851	\$75,225	\$165,076
0%	\$0	\$0	\$0
0%	\$0	\$0	\$0
0%	\$0	\$0	\$0
0%	\$0	\$0	\$0
0%	\$0	\$0	\$0
0%	\$0	\$0	\$0
0%	\$0	\$0	\$0
0%	\$0	\$0	\$0
0%	\$0	\$0	\$0
0%	\$0	\$0	\$0
417%	\$18,898	\$14,139	\$33,037
0%	\$0	\$0	\$0
0%	\$0	\$0	\$0
0%	\$0	\$0	\$0
0%	\$0	\$0	\$0
0%	\$0	\$0	\$0
0%	\$0	\$0	\$0
417%	\$23,822	\$13,182	\$37,004
0%	\$0	\$0	\$0
0%	\$0	\$0	\$0
0%	\$0	\$0	\$0
0%	\$0	\$0	\$0
0%	\$0	\$0	\$0
0%	\$0	\$0	\$0
0%	\$0	\$0	\$0
0%	\$0	\$0	\$0
0%	\$0	\$0	\$0
0%	\$0	\$0	\$0
0%	\$0	\$0	\$0
0%	\$0	\$0	\$0
0%	\$0 \$0	\$0 \$0	\$0 \$0
417%	\$3,876	\$3,159	\$7,036
0%	\$0,070 \$0	\$0,159 \$0	\$0 \$0
417%	۵۵ \$157,696	پ و \$98,388	\$0 \$256,084
417%	\$137,090 \$237,789	\$90,300 \$169,128	\$250,084 \$406,917
417% 0%	\$237,789 \$0	\$109,128 \$0	\$400,917 \$0
0% 417%	ەن \$9,253		۵۵ \$14,373
		\$5,120 \$37,021	\$14,373 \$81,240
417%	\$44,219	\$37,021	۵ ۵1,240

10	90 REACH 03 Combi-Wall (Offshore)	\$0	\$0 -		\$0		\$0	\$0	\$0	\$0	\$0
10	90 REACH 03 Wharf Replacement	\$0 \$0	\$0 - \$0 -		\$0 \$0	_	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0
10	90 REACH 03 Raise Piers	\$0 \$0	\$0 -		\$0 \$0		\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	ФО \$0
13	90 REACH 03 Pump Stations/Interior Drain	⁴⁰ \$15,683	∓ ₄₀ \$16,185	103.2%	\$31,867	8.3%	₄₀ \$16,981	₄₀ \$17,524	φ0 \$34,505	\$0 \$0	\$34,505
10	90 REACH 03 Roller Gate/Vehicle Barriers	\$8,716	\$5,504	63.1%	\$14,219	8.3%	\$9,437	\$5,959	\$15,396	\$0 \$0	\$15,396
10	90 REACH 03 Large Gates/Closure Struct	. ,	\$0,504 \$0 -	00.170	¢۱۹,219 \$0	-	φ3, 4 37 \$0	φ0,000 \$0	φ10,000 \$0	\$0 \$0	\$0
16	90 REACH 03 Armoring	پ 0 \$4,977	\$2,653	53.3%	پ0 \$7,630	8.3%	\$5,389	پ0 \$2,872	\$8,262	\$0 \$0	\$8,262
02	90 REACH 03 Temp Raise/Relocate Repla	φ + ,577 \$0	φ2,000 \$0 -	00.070	\$0 \$0	0.070	φ0,000 \$0	φ2,072 \$0	\$0,282 \$0	\$0 \$0	φ0,202 \$0
02	90 REACH 03 Demolition of Bldgs/Structur	\$0 \$0	\$0 - \$0 -		\$0 \$0		\$0 \$0	 \$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0
02	90 REACH 03 Floodproofing Structures	پ 0 \$40,871	\$37,469	91.7%	پر \$78,341	8.3%	\$44,254	پ0 \$40,570	پو \$84,824	\$0 \$0	\$84,824
ALL	90 REACH 03 Remaining Construction Iter		\$37,403 \$11,874	74.8%	\$27,746	8.3%	\$17,185	\$12,857	\$30,042	\$0 \$0	\$30,042
02	90 REACH 04 Utility Relocations	\$0	\$0 -	74.070	\$0	- 0.070	\$0 \$0	¢12,007 \$0	\$30,042 \$0	\$0 \$0	\$30,042 \$0
02	90 REACH 04 Transportation Corridor	\$0 \$0	\$0 - \$0 -		\$0 \$0	-	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0
02	90 REACH 04 Bridge Replacement	\$0 \$0	\$0 - \$0 -		\$0 \$0	-	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0
06	90 REACH 04 Plantings/EWN	₄₀ \$178,932	- ₄₀ - \$111,637	62.4%	پو \$290,568	8.3%	پن \$193,741	پ و \$120,876	₄₀ \$314,617	\$0 \$0	\$314,617
11	90 REACH 04 Berms/Fill	\$178,932 \$51,905	\$36,917	71.1%	\$88,822	8.3%	\$56,201	\$39,973	\$96,173	\$0 \$0	\$96,173
10	90 REACH 04 Ground Improvement/DSM	\$31,905 \$0	\$30,917 \$0 -	11.170	300,022 \$0	0.570	\$30,201 \$0	۵39,973 \$0	\$90,173 \$0	\$0 \$0	\$90,173 \$0
10	90 REACH 04 Ground Improvement/DSivi		\$0 - \$585	55.3%	₄₀ \$1,643	- 8.3%	₄₀ \$1,145	\$0 \$634	ەن \$1,779	\$0 \$0	_ֆ ս \$1,779
11	90 REACH 04 Anchored Walls/T-Wall	۶ ۹۱,007 \$0	\$005 \$0 -	55.570	\$0 \$0	0.070	\$0 \$0	\$034 \$0	\$1,779 \$0	\$0 \$0	\$0
10	90 REACH 04 Combi-Wall (Offshore)	\$0 \$0	\$0 - \$0 -		\$0 \$0		\$0 \$0	 \$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0
10	90 REACH 04 Wharf Replacement	\$0 \$0	\$0 -		\$0 \$0	_	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0
10	90 REACH 04 Raise Piers	\$0	\$0 -		\$0	_	\$0 \$0	\$0	\$0	\$0 \$0	\$0 \$0
13	90 REACH 04 Pump Stations/Interior Drain	\$1,331	\$1,374	103.2%	\$2,705	8.3%	\$1,441	\$1,487	\$2,929	\$0 \$0	\$2,929
10	90 REACH 04 Roller Gate/Vehicle Barriers	\$0	¢1,071 \$0 -	100.270	\$0	-	\$0	\$0	\$0	\$0 \$0	\$0
10	90 REACH 04 Large Gates/Closure Structu	-	\$0 -		\$0	-	\$0 \$0	\$0	\$0	\$0	\$0 \$0
16	90 REACH 04 Armoring	\$0	\$0 -		\$0	_	\$0	\$0	\$0	\$0	\$0
02	90 REACH 04 Temp Raise/Relocate Repla	\$0	\$0 -		\$0 \$0	_	\$0	\$0	\$0	\$0	\$0
02	90 REACH 04 Demolition of Bldgs/Structur	\$48,427	\$34,261	70.7%	\$82,688	8.3%	\$52,435	\$37,097	\$89,532	\$0	\$89,532
02	90 REACH 04 Floodproofing Structures	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0
ALL	90 REACH 04 Remaining Construction Iter	-	\$9,328	74.8%	\$21,795	8.3%	\$13,499	\$10,100	\$23,599	\$0	\$23,599
	ç										
				_							
	CONSTRUCTION ESTIMATE TOTALS:	\$3,690,580	\$3,555,338		\$7,245,918	8.3%	\$3,996,014	\$3,849,579	\$7,845,593	\$0	\$7,845,593
01		*	A (A = A		* / • • - •	0.00/	* • <i>•</i> • -	• • - • •			
01 01	40 LANDS AND DAMAGES Reach 01	\$8,706	\$4,353	50.0%	\$13,059 ¢570	8.3%	\$9,427	\$4,713	\$14,140	\$0 \$0	\$14,140
	40 LANDS AND DAMAGES Reach 02	\$380	\$190	50.0%	\$570	8.3%	\$411	\$206	\$617	\$0 \$0	\$617
01	40 LANDS AND DAMAGES Reach 03	\$20,463	\$10,232	50.0%	\$30,695	8.3%	\$22,157	\$11,078	\$33,235	\$0 \$0	\$33,235
01	40 LANDS AND DAMAGES Reach 04	\$59,795	\$29,898	50.0%	\$89,693	8.3%	\$64,744	\$32,372	\$97,116	\$0 \$0	\$97,116
01	90 LANDS AND DAMAGES Reach 01	\$6,243	\$3,122	50.0%	\$9,365	8.3%	\$6,760	\$3,380	\$10,140	\$0 \$0	\$10,140
01	90 LANDS AND DAMAGES Reach 02	\$0	\$0	50.0%	\$0 \$700,000	0.0%	\$0 ¢5 40 000	\$0	\$0	\$0 \$0	\$0 \$000.000
01	90 LANDS AND DAMAGES Reach 03	\$507,332	\$253,666	50.0%	\$760,998 \$400,000	8.3%	\$549,320 \$000,500	\$274,660	\$823,980	\$0 \$0	\$823,980
01	90 LANDS AND DAMAGES Reach 04	\$271,086	\$135,543	50.0%	\$406,629	8.3%	\$293,522	\$146,761	\$440,283	\$0	\$440,283
30	40 PLANNING, ENGINEERING & DESIGN	\$449,186	\$251,656	56.0%	\$700,842	7.4%	\$482,433	\$270,282	\$752,716	\$0	\$752,716
30	90 PLANNING, ENGINEERING & DESIGN	\$76,721	\$42,983	56.0%	\$119,704	7.4%	\$82,400	\$46,164	\$128,564	\$0 \$0	\$128,564
		Ψ. Ο , Ι Σ Ι	÷ 12,000	20.070	÷,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	,0	<i>чо</i> <u></u> , 100	<i></i> ,	+ .20,00 .	<i>\$</i> 0	÷0,00 i
31	40 CONSTRUCTION MANAGEMENT	\$228,533	\$144,179	63.1%	\$372,712	7.4%	\$245,449	\$154,850	\$400,299	\$0	\$400,299
31	90 CONSTRUCTION MANAGEMENT	\$39,034	\$24,626	63.1%	\$63,659	7.4%	\$41,923	\$26,448	\$68,371	\$0	\$68,371

			r uge r er e
0%	\$0	\$0	\$0
0%	\$0	\$0	\$0
0%	\$0	\$0	\$0
417%	\$87,779	\$90,587	\$178,366
417%	\$48,782	\$30,804	\$79,586
0%	\$0	\$0	\$0
417%	\$27,859	\$14,848	\$42,707
0%	\$0	\$0	\$0
0%	\$0	\$0	\$0
417%	\$228,761	\$209,721	\$438,482
417%	\$88,835	\$66,462	\$155,296
0%	\$0	\$0	\$0
0%	\$0	\$0	\$0
0%	\$0	\$0	\$0
417%	\$1,001,505	\$624,846	\$1,626,351
417%	\$290,516	\$206,630	\$497,147
0%	\$0	\$0	\$0
417%	\$5,919	\$3,275	\$9,194
0%	\$0	\$0	\$0
0%	\$0	\$0	\$0
0%	\$0	\$0	\$0
0%	\$0	\$0	\$0
417%	\$7,450	\$7,689	\$15,139
0%	\$0	\$0	\$0
0%	\$0	\$0	\$0
0%	\$0	\$0	\$0
0%	\$0	\$0	\$0
417%	\$271,052	\$191,765	\$462,817
0%	\$0	\$0	\$0
417%	\$69,783	\$52,208	\$121,991
-		· · · · · · · · · · · · · · · ·	
94.2%	\$7,902,319	\$7,331,616	\$15,233,936
7.3%	\$10,119	\$5,059	\$15,178
7.3%	\$442	\$221	\$662
7.3%	\$23,783	\$11,892	\$35,675
7.3%	\$69,497	\$34,748	\$104,245
275.1%	\$25,358	\$12,679	\$38,036
0.0%	\$0	\$0	\$0
275.1%	\$2,060,661	\$1,030,330	\$3,090,991
275.1%	\$1,101,086	\$550,543	\$1,651,629
11.3%	\$536,926	\$300,811	\$837,738
203.4%	\$249,990	\$140,056	\$390,047
			-
35.5%	\$332,543	\$209,797	\$542,340
266.3%	\$153,552	\$96,874	\$250,426

PROJECT COST TOTALS:	\$5,358,060 \$4,455,783	83.2%	\$9,813,843	\$5,794,558	\$4,820,494	\$10,615,052	\$0 \$10,615,052
	CHIEF, COST ENGI	NEERIN	G, xxx				ESTIMATED TOTAL
	PROJECT MANAGE	R, xxx					
	CHIEF, REAL ESTA	TE, xxx					
	CHIEF, PLANNING,	xxx					
	CHIEF, ENGINEERI	NG, xxx					
	CHIEF, OPERATION	IS, xxx					
	CHIEF, CONSTRUC	TION, xx	κx				
	CHIEF, CONTRACT	ING,xxx					
	CHIEF, PM-PB, xxx	XX					
	CHIEF, DPM, xxx						
		**	** CONTRACT	COST SUMMARY ****			
PROJECT: SFWS LOCATION: San Francisco, CA This Estimate reflects the scope and schedule in report;	Alternatives Analysis					DISTRICT: POC:	SWT CHIEF, COST ENGINEERIN

Printed:12/22/2023 Page 5 of 5

109.1% \$12,466,275 \$9,724,627

\$22,190,903

L PROJECT COST:

\$22,190,903

NG, xxx

PREPARED:

DISTRICT: SWT

PROJECT: SFWS PROJECT NOP2 xxxxx LOCATION: San Francisco, CA

This Estimate reflects the scope and schedule in report;

Total Net Benefits Plan - FIRST ACTION (SEISMIC)

Civil V	Vorks Work Breakdown Structure		ESTIMATED) COST					CT FIRST COST		TOTAL PROJECT COST (FULLY FUNDED)				
								Program Year Effective Pric	(Budget EC): e Level Date:	2026 1 OCT 25					
										Spent Thru:	TOTAL				
WBS	Civil Works	COST	CNTG	CNTG	TOTAL	ESC	COST	CNTG	TOTAL	1-Oct-22	FIRST COST		COST	CNTG	FULL
NUMBER	Feature & Sub-Feature Description	<u>(\$K)</u>	<u>(\$K)</u>	<u>(%)</u>	<u>(\$K)</u>	<u>(%)</u>	<u>(\$K)</u>	<u>(\$K)</u>	<u>(\$K)</u>	<u>(\$K)</u>	<u>(\$K)</u>	<u>_(%)</u>	<u>(\$K)</u>	<u>(\$K)</u>	<u>(\$K)</u>
A	B	С	D	E	F	G	Н	1	J		ĸ	L	М	N	0
02	REACH 01 Alt B 2040	\$00.404	\$40,400	04 70/	\$22.044	0.00/	\$ 04,000	\$ 00.040	* 4 4 • 4 •		.	40.00/	#04.000	\$ 00,000	\$50.005
02	40 Overall Structures Floodproofing Conc.	\$20,161	\$18,483	91.7%	\$38,644	8.3%	\$21,830	\$20,013	\$41,843	\$0		43.2%	\$31,269	\$28,666	\$59,935
19	40 REACH 01 Demolition of Bldgs/Structur	\$991	\$701	70.7%	\$1,692	8.3%	\$1,073	\$759	\$1,832	\$0		43.2%	\$1,537	\$1,087	\$2,624
19	40 REACH 01 Floodproofing Structures REACH 02 Alt. G 2040	\$6,289	\$5,766	91.7%	\$12,055	8.3%	\$6,810	\$6,243	\$13,053	\$0	\$13,053	43.2%	\$9,754	\$8,942	\$18,697
02	40 Overall Structures Floodproofing Conc.	\$21,347	\$19,570	91.7%	\$40,918	8.3%	\$23,114	\$21,190	\$44,304	\$0	\$44,304	43.2%	\$33,108	\$30,353	\$63,461
02	40 Overall Utility Relocations	\$35,274	\$93,314	264.5%	\$128,588	8.3%	\$38,193	\$101,037	\$139,230	\$0	\$139,230	43.2%	\$54,707	\$144,725	\$199,432
02	40 Overall Structure Floodproofing	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0	0.0%	\$0	\$0	\$0
10	40 Overall Seismic Ground Improvements	\$874,494	\$1,339,943	153.2%	\$2,214,437	8.3%	\$946,866	\$1,450,835	\$2,397,702	\$0	\$2,397,702	43.2%	\$1,356,290	\$2,078,176	\$3,434,466
02	40 REACH 02 Utility Relocations	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0	0.0%	\$0	\$0	\$0
02	40 REACH 02 Transportation Corridor	\$294,092	\$239,699	81.5%	\$533,791	8.3%	\$318,431	\$259,536	\$577,968	\$0	\$577,968	43.2%	\$456,120	\$371,759	\$827,879
02	40 REACH 02 Bridge Replacement	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0	0.0%	\$0	\$0	\$0
06	40 REACH 02 Plantings/EWN	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0	0.0%	\$0	\$0	\$0
11	40 REACH 02 Berms/Fill	\$8,683	\$6,176	71.1%	\$14,859	8.3%	\$9,402	\$6,687	\$16,089	\$0	\$16,089	43.2%	\$13,467	\$9,579	\$23,046
10	40 REACH 02 Ground Improvement/DSM	\$215,083	\$329,561	153.2%	\$544,644	8.3%	\$232,883	\$356,835	\$589,718	\$0	\$589,718	43.2%	\$333,582	\$511,131	\$844,712
10	40 REACH 02 Cantilever Walls/Pile Caps/	\$124,518	\$68,903	55.3%	\$193,421	8.3%	\$134,823	\$74,605	\$209,428	\$0	\$209,428	43.2%	\$193,120	\$106,865	\$299,985
11	40 REACH 02 Anchored Walls/T-Wall	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0	0.0%	\$0	\$0	\$0
10	40 REACH 02 Combi-Wall (Offshore)	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0	0.0%	\$0	\$0	\$0
10	40 REACH 02 Wharf Replacement	\$282,623	\$186,466	66.0%	\$469,089	8.3%	\$306,012	\$201,898	\$507,910	\$0	\$507,910	43.2%	\$438,332	\$289,198	\$727,530
10	40 REACH 02 Raise Piers	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0	0.0%	\$0	\$0	\$0
10	40 REACH 02 Pump Stations/Interior Drain	\$53,987	\$55,714	103.2%	\$109,700	8.3%	\$58,455	\$60,325	\$118,779	\$0	\$118,779	43.2%	\$83,730	\$86,409	\$170,139
10	40 REACH 02 Roller Gate/Vehicle Barriers	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0	0.0%	\$0	\$0	\$0
10	40 REACH 02 Large Gates/Closure Struct	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0	0.0%	\$0	\$0	\$0
16	40 REACH 02 Armoring	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0	0.0%	\$0	\$0	\$0
02	40 REACH 02 Temp Raise/Relocate Repla	\$241,177	\$222,927	92.4%	\$464,104	8.3%	\$261,137	\$241,377	\$502,514	\$0	\$502,514	43.2%	\$374,052	\$345,747	\$719,799
02	40 REACH 02 Demolition of Bldgs/Structur	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0	0.0%	\$0	\$0	\$0
02	40 REACH 02 Floodproofing Structures	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0	0.0%	\$0	\$0	\$0
ALL	40 REACH 02 Remaining Construction Iter	n \$18,109	\$13,548	74.8%	\$31,657	8.3%	\$19,608	\$14,669	\$34,277	\$0	\$34,277	43.2%	\$28,086	\$21,013	\$49,099
02	REACH 03 Alt. D 2040	¢17 700	¢16 000	01 70/	¢24 000	0.20/	¢10.000	¢17 650	¢26 000		¢26.000	43.2%	ቀባታ ደባሳ	¢05 004	<u> </u>
02	40 Overall Structures Floodproofing Conc. 40 Overall Utility Relocations	\$17,789 \$1,507	\$16,309 \$4,226	91.7% 264.5%	\$34,098 \$5,823	8.3% 8.3%	\$19,262 \$1,729	\$17,658 \$4,575	\$36,920 \$6,305	\$0 \$0		43.2% 43.2%	\$27,590 \$2,477	\$25,294 \$6,554	\$52,884 \$0.031
10	40 Overall Seismic Ground Improvements	\$1,597 \$392,731	\$4,226 \$601,762	264.5% 153.2%	\$5,823 \$994,493	8.3% 8.3%	\$1,729 \$425,233	\$4,575 \$651,563	\$6,305 \$1,076,796	\$0		43.2% 43.2%	\$2,477 \$609,104	\$6,554 \$933,299	\$9,031 \$1,542,402
10															\$1,542,402 \$117,856
10	40 Overall Seismic Transportation Corrido	\$41,867	\$34,123	81.5%	\$75,990	8.3%	\$45,331	\$36,947	\$82,279	\$0	\$82,279	43.2%	\$64,933	\$52,923	\$117,856

Filename: SFWS TPCS 2023.08.18 w UPDATED ACCOUNTS TNBP Seismic 1st

02	40 DEACH 02 Litility Delegations	¢O	¢O		¢O	I	ድር	ድጋ	¢O	¢0	¢o
02 02	40 REACH 03 Utility Relocations	\$0 ©0	\$0 - \$0 -		\$0 \$0	-	\$0 ¢0	\$0 ¢0	\$0 ¢0	\$0 \$0	\$0 \$0
02	40 REACH 03 Transportation Corridor	\$0 ¢0	•			-	\$0 ¢0	\$0 ¢0	\$0 ¢0	-	
02	40 REACH 03 Bridge Replacement 40 REACH 03 Plantings/EWN	\$0 ¢1.452	+ 0 \$ \$907	62.4%	\$0 \$2,260	- 8.3%	\$0 \$1,574	\$0 \$982	\$0 \$2,556	\$0 ¢0	\$0 \$2,556
11	40 REACH 03 Plantings/EWN 40 REACH 03 Berms/Fill	\$1,453 \$11,406		02.4 <i>%</i> 71.1%	\$2,360 \$10,510	8.3%		-		\$0 \$0	\$2,550 \$21,134
10		\$11,406	\$8,113 ¢0	11.170	\$19,519 ¢0	0.370	\$12,350	\$8,784 ¢0	\$21,134 ¢0		
10	40 REACH 03 Ground Improvement/DSM	\$0 *280	\$0 -	EE 20/	\$0 ¢435	- 8.3%	\$0 \$202	\$0 ¢168	\$0 ¢ 474	\$0 ¢0	\$0 ¢474
10	40 REACH 03 Cantilever Walls/Pile Caps/		\$155 ¢10,040	55.3%	\$435		\$303	\$168 \$14 740	\$471 ¢05 770	\$0 ¢0	\$471
10	40 REACH 03 Anchored Walls/T-Wall	\$12,958 ¢0	\$10,848	83.7%	\$23,806	8.3%	\$14,030	\$11,746	\$25,776 ¢0	\$0 ¢0	\$25,776
10	40 REACH 03 Combi-Wall (Offshore)	\$0 \$00.040	\$0 -	CC 00/	\$0 #40.050	-	\$0 ¢04 707	\$0 ¢20.020	\$0	\$0 ¢0	\$0 ¢50.077
10	40 REACH 03 Wharf Replacement 40 REACH 03 Raise Piers	\$29,312 ¢0	\$19,339 ¢0	66.0%	\$48,650	8.3%	\$31,737	\$20,939 ¢0	\$52,677 ¢0	\$0 \$0	\$52,677
13		\$0 \$60.018	\$0 -	102.20/	\$0 ¢140.070	-	\$0 ¢75 704	\$0 ¢79.406	\$0 ¢152.820		\$0 ¢152.820
10	40 REACH 03 Pump Stations/Interior Drain	\$69,918 ¢0.267	\$72,154 ¢5,952	103.2% 63.1%	\$142,072 \$15,119	8.3% 8.3%	\$75,704 \$10,024	\$78,126 ¢6,226	\$153,830 \$16,260	\$0 ¢0	\$153,830 \$16,260
10	40 REACH 03 Roller Gate/Vehicle Barriers	\$9,267	\$5,852	03.1%	\$15,118 ¢0	0.3%	\$10,034	\$6,336 ¢0	\$16,369 ¢0	\$0 ¢0	\$16,369 ¢0
16	40 REACH 03 Large Gates/Closure Structu		\$0 -		\$0 \$0	-	\$0 \$0	\$0 ¢0	\$0 \$0	\$0 ¢0	\$0 ¢0
02	40 REACH 03 Armoring	\$0 \$0	\$0 - \$0 -		\$0 \$0	-	\$0 \$0	\$0 ©	\$0 ¢0	\$0 ¢0	\$0 \$0
02	40 REACH 03 Temp Raise/Relocate Repla		-	70 70/		-		\$0 ¢50	\$0 ¢100	\$0 ¢0	
02	40 REACH 03 Demolition of Bldgs/Structur	\$69 ¢0	\$49 \$0 -	70.7%	\$118 \$0	8.3%	\$75 \$0	\$53 ¢0	\$128 \$0	\$0 \$0	\$128 \$0
ALL	40 REACH 03 Floodproofing Structures	\$0 \$0 00 0 1	-	74.8%		- 8.3%		\$0 \$7,162	ەں \$16,734	\$0 \$0	
ALL	40 REACH 03 Remaining Construction Iter REACH 04 Alt. D 2040	n \$8,841	\$6,614	14.070	\$15,455	0.370	\$9,573	Φ 7,102	Φ10,734	Ф О	\$16,734
02	40 Overall Structures Floodproofing Conc.	\$0	\$0 -		\$0		\$0	\$0	\$0	\$0	\$0
02	40 Overall Utility Relocations	پ 0 \$7,454	- ₅₀ - \$19,719	264.5%	پو \$27,173	- 8.3%	پو \$8,071	پ ں \$21,351	پو \$29,422	\$0 \$0	پ0 \$29,422
10	40 Overall Seismic Ground Improvements	\$1,832,745	\$19,719	204.5 <i>%</i> 153.2%	\$4,640,969	8.3% 8.3%	\$0,071 \$1,984,421	\$3,040,629	\$29,422 \$5,025,050	\$0 \$0	\$29,422 \$5,025,050
10	40 Overall Seismic Transportation Corridor	\$195,377	\$2,000,223 \$159,242	81.5%	\$354,619	8.3%	\$1,904,421 \$211,546	\$3,040,029 \$172,420	\$383,967	\$0 \$0	\$3,023,030 \$383,967
02	40 REACH 04 Utility Relocations	\$195,577 \$0	\$139,242 \$0 -	01.570	\$354,019 \$0	0.570	\$211,540 \$0	\$172,420 \$0	\$383,907 \$0	\$0 \$0	\$303,907 \$0
02	40 REACH 04 Transportation Corridor	\$0 \$0	\$0 - \$0 -		\$0 \$0	_	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0
02	40 REACH 04 Bridge Replacement	\$0 \$0	\$0 - \$0 -		\$0 \$0		\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0
06	40 REACH 04 Plantings/EWN	\$13,243	\$8,262	62.4%	\$21,505	8.3%	\$14,339	\$8,946	\$23,285	\$0	\$23,285
11	40 REACH 04 Berms/Fill	\$15,990	\$11,373	71.1%	\$27,363	8.3%	\$17,314	\$12,314	\$29,628	\$0 \$0	\$29,628
10	40 REACH 04 Ground Improvement/DSM	\$0	\$0 -	71.170	¢27,000 \$0	-	¢۱7,014 \$0	¢12,014 \$0	\$0	\$0	\$0
10	40 REACH 04 Cantilever Walls/Pile Caps/		\$6,382	55.3%	\$17,915	8.3%	\$12,487	\$6,910	\$19,397	\$0 \$0	\$19,397
11	40 REACH 04 Anchored Walls/T-Wall	\$5,765	\$4,826	83.7%	\$10,591	8.3%	\$6,242	\$5,226	\$11,467	\$0	\$11,467
10	40 REACH 04 Combi-Wall (Offshore)	\$0	\$0 -	00.170	\$0	-	¢0,212 \$0	\$0, <u>22</u> 0	\$0	\$0	\$0
10	40 REACH 04 Wharf Replacement	\$170,489	\$112,483	66.0%	\$282,972	8.3%	\$184,598	\$121,792	\$306,391	\$0	\$306,391
10	40 REACH 04 Raise Piers	\$0	\$0 -	00.070	\$0	-	\$0	\$0	\$0	\$0	\$0 \$0
13	40 REACH 04 Pump Stations/Interior Drain	\$68,526	\$70,718	103.2%	\$139,244	8.3%	\$74,197	\$76,571	\$150,768	\$0	\$150,768
10	40 REACH 04 Roller Gate/Vehicle Barriers	\$1,610	\$1,016	63.1%	\$2,626	8.3%	\$1,743	\$1,101	\$2,843	\$0	\$2,843
10	40 REACH 04 Large Gates/Closure Structu		\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0
16	40 REACH 04 Armoring	\$3,117	\$1,661	53.3%	\$4,778	8.3%	\$3,375	\$1,799	\$5,173	\$0	\$5,173
02	40 REACH 04 Temp Raise/Relocate Repla	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0
02	40 REACH 04 Demolition of Bldgs/Structur	\$3,029	\$2,143	70.7%	\$5,172	8.3%	\$3,280	\$2,320	\$5,600	\$0	\$5,600
02	40 REACH 04 Floodproofing Structures	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0
ALL	40 REACH 04 Remaining Construction Iter		\$2,954	74.8%	\$6,903	8.3%	\$4,276	\$3,199	\$7,475	\$0	\$7,475
	č										
	CONSTRUCTION ESTIMATE TOTALS:	\$5,127,141	\$6,590,226	-	\$11,717,367	8.3%	\$5,551,460	\$7,135,628	\$12,687,088	\$0	\$12,687,088
01	REACH 01 LANDS AND DAMAGES	\$0	\$0	50.0%	\$0	0.0%	\$0	\$0	\$0	\$0	\$0
01	REACH 02 LANDS AND DAMAGES	\$380	\$190	50.0%	\$570	8.3%	\$411	\$206	\$617	\$0	\$617

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0.0%	\$0	\$0	\$0
0.0%	\$0	\$0	\$0
0.0%	\$0	\$0	\$0
43.2%	\$2,254	\$1,406	\$3,661
43.2%	\$17,690	\$12,582	\$30,272
0.0%	\$0	\$0	\$0
43.2%	\$434	\$240	\$674
43.2%	\$20,096	\$16,825	\$36,921
0.0%	\$0	\$0	\$0
43.2%	\$45,461	\$29,994	\$75,454
0.0%	\$0	\$0	\$0
43.2%	\$108,439	\$111,907	\$220,346
43.2%	\$14,372	\$9,076	\$23,448
0.0%	\$0	\$0	\$0
0.0%	\$0	\$0	\$0
0.0%	\$0	\$0	\$0
43.2%	\$107	\$76	\$183
0.0%	\$0	\$0	\$0
43.2%	\$13,712	\$10,258	\$23,970
	. ,		
0.0%	\$0	\$0	\$0
43.2%	\$11,561	\$30,583	\$42,144
43.2%	\$2,842,483	\$4,355,395	\$7,197,878
43.2%	\$303,019	\$246,975	\$549,993
0.0%	\$0	\$0	\$0
0.0%	\$0	\$0	\$0
0.0%	\$0	\$0	\$0
43.2%	\$20,539	\$12,814	\$33,353
43.2%	\$24,800	\$17,639	\$42,439
0.0%	\$0	\$0	\$0
43.2%	\$17,887	\$9,898	\$27,784
43.2%	\$8,940	\$7,485	\$16,425
0.0%	\$0	\$0	\$0
43.2%	\$264,418	\$174,455	\$438,874
0.0%	\$0	\$0	\$0
43.2%	\$106,280	\$109,680	\$215,960
43.2%	\$2,496	\$1,576	\$4,073
0.0%	\$0	\$0	\$0
43.2%	\$4,834	\$2,576	\$7,410
0.0%	\$0	\$0	\$0
43.2%	\$4,698	\$3,324	\$8,021
0.0%	\$0	\$0	\$0
43.2%	\$6,125	\$4,582	\$10,707
	<i></i>	÷ .,	÷,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
43.2%	\$7,951,904	\$10,221,065	\$18,172,969
0.0%	\$0	\$0	\$0
7.3%	\$442	\$221	\$662

									-						Page 3 of 3
01	REACH 03 LANDS AND DAMAGES	\$3,252	\$1,626	50.0%	\$4,878	8.3%	\$3,521	\$1,761	\$5,282	\$0	\$5,282	7.3%	\$3,780	\$1,890	\$5,669
01	REACH 04 LANDS AND DAMAGES	\$57,493	\$28,747	50.0%	\$86,240	8.3%	\$62,251	\$31,126	\$93,377	\$0	\$93,377	7.3%	\$66,821	\$33,411	\$100,232
30	REACH 01 PLANNING, ENGINEERING &	\$3,910	\$2,191	56.0%	\$6,101	7.4%	\$4,200	\$2,353	\$6,553	\$0	\$6,553	11.3%	\$4,674	\$2,619	\$7,293
30	REACH 02 PLANNING, ENGINEERING &	\$309,138	\$173,194	56.0%	\$482,331	7.4%	\$332,019	\$186,013	\$518,031	\$0	\$518,031	11.3%	\$369,522	\$207,023	\$576,545
30	REACH 03 PLANNING, ENGINEERING &	\$85,142	\$47,701	56.0%	\$132,843	7.4%	\$91,444	\$51,231	\$142,675	\$0	\$142,675	11.3%	\$101,773	\$57,018	\$158,791
30	REACH 04 PLANNING, ENGINEERING &	\$332,428	\$186,242	56.0%	\$518,669	7.4%	\$357,033	\$200,027	\$557,059	\$0	\$557,059	11.3%	\$397,361	\$222,620	\$619,981
31	REACH 01 CONSTRUCTION MANAGEME	\$1,989	\$1,255	63.1%	\$3,245	7.4%	\$2,137	\$1,348	\$3,485	\$0	\$3,485	35.5%	\$2,895	\$1,826	\$4,721
31	REACH 02 CONSTRUCTION MANAGEME	\$157,281	\$99,226	63.1%	\$256,507	7.4%	\$168,922	\$106,571	\$275,492	\$0	\$275,492	35.5%	\$228,862	\$144,386	\$373,248
31	REACH 03 CONSTRUCTION MANAGEME	\$43,318	\$27,329	63.1%	\$70,646	7.4%	\$46,524	\$29,351	\$75,875	\$0	\$75,875	35.5%	\$63,033	\$39,766	\$102,799
31	REACH 04 CONSTRUCTION MANAGEME	\$169,130	\$106,702	63.1%	\$275,832	7.4%	\$181,648	\$114,599	\$296,248	\$0	\$296,248	35.5%	\$246,104	\$155,264	\$401,368
										1 I					
	PROJECT COST TOTALS:	\$6,290,602	\$7,264,627	115.5%	\$13,555,229		\$6,801,569	\$7,860,212	\$14,661,782	\$0	\$14,661,782	40.0%	\$9,437,169	\$11,087,109	\$20,524,278

CHIEF, COST ENGINEERING, xxx

PROJECT MANAGER, xxx

CHIEF, REAL ESTATE, xxx

CHIEF, PLANNING, xxx

CHIEF, ENGINEERING, xxx

CHIEF, OPERATIONS, xxx

CHIEF, CONSTRUCTION, XXX

CHIEF, CONTRACTING, xxx

CHIEF, PM-PB, xxxx

CHIEF, DPM, xxx

**** CONTRACT COST SUMMARY ****

SFWS PROJECT: LOCATION: San Francisco, CA This Estimate reflects the scope and schedule in report; Alternatives Analysis

DISTRICT: SWT POC: CHIEF, COST ENGINEERING, xxx

Filename: SFWS TPCS 2023.08.18 w UPDATED ACCOUNTS **TNBP** Seismic 1st

ESTIMATED TOTAL PROJECT COST:

\$20,524,278

Printed:12/22/2023

PREPARED:

DISTRICT: SWT

PROJECT: SFWS PROJECT NOP2 xxxxx LOCATION: San Francisco, CA

This Estimate reflects the scope and schedule in report;

Total Net Benefits Plan - SECOND ACTION INTERMEDIATE (SEISMIC and NON-SEISMIC)

Civil V	Civil Works Work Breakdown Structure ESTIMATED COS								T FIRST COST nt Dollar Basis			TOTAL PROJECT COST (FULLY FUNDED)				
								Program Year Effective Pric		2026 1 OCT 25						
WBS	Civil Works	COST	CNTG	CNTG	TOTAL	ESC	COST	CNTG	TOTAL	Spent Thru: 1-Oct-22	TOTAL FIRST COST		COST	CNTG	FULL	
NUMBER	Feature & Sub-Feature Description	<u>(\$K)</u>	<u>(\$K)</u>						(\$K)	<u>(\$K)</u>		<u>(%)</u>	<u>(\$K)</u>			
A	<u>Feature & Sub-Feature Description</u> B	<u>(\$K)</u> C	<u>(\$R)</u>	<u>(%)</u> E	<u>(\$K)</u> F	<u>(%)</u> G	<u>(\$K)</u> <i>H</i>	<u>(\$K)</u>	<u>(ər)</u> J	<u>(\pr\)</u>	<u>(\$K)</u> <i>K</i>	<u>(76)</u> L	<u>(\$R)</u> M	<u>(\$K)</u> N	<u>(\$K)</u> O	
21	REACH 01 Alt B 2065	-	-	-	•	•		•	-			_			•	
02	65 REACH 01 Demolition of Bldgs/Structur	\$63	\$45	70.7%	\$108	8.3%	\$69	\$49	\$117	\$0	\$117	172.1%	\$187	\$132	\$319	
02	65 REACH 01 Floodproofing Structures	\$714	\$655	91.7%	\$1,369	8.3%	\$773	\$709	\$1,482	\$0		172.1%	\$2,104	\$1,929	\$4,033	
	REACH 02 N/A	·			. ,		·	·			. ,		. ,	. ,	. ,	
	REACH 03 Alt. D 2090															
02	90 Overall Utility Relocations	\$1,597	\$4,226	264.5%	\$5,823	8.3%	\$1,729	\$4,575	\$6,305	\$0	\$6,305	416.9%	\$8,940	\$23,651	\$32,591	
02	90 REACH 03 Utility Relocations	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0	0.0%	\$0	\$0	\$0	
02	90 REACH 03 Transportation Corridor	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0	0.0%	\$0	\$0	\$0	
02	90 REACH 03 Bridge Replacement	\$128,162	\$190,309	148.5%	\$318,472	8.3%	\$138,769	\$206,059	\$344,828	\$0	\$344,828	416.9%	\$717,340	\$1,065,184	\$1,782,524	
06	90 REACH 03 Plantings/EWN	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$C	\$0	0.0%	\$0	\$0	\$0	
11	90 REACH 03 Berms/Fill	\$8,953	\$6,368	71.1%	\$15,322	8.3%	\$9,695	\$6,895	\$16,590	\$0	\$16,590	416.9%	\$50,114	\$35,643	\$85,757	
10	90 REACH 03 Ground Improvement/DSM	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0	0.0%	\$0	\$0	\$0	
10	90 REACH 03 Cantilever Walls/Pile Caps/	\$2,697	\$1,493	55.3%	\$4,190	8.3%	\$2,920	\$1,616	\$4,537	\$0	\$4,537	416.9%	\$15,097	\$8,354	\$23,451	
11	90 REACH 03 Anchored Walls/T-Wall	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0	0.0%	\$0	\$0	\$0	
10	90 REACH 03 Combi-Wall (Offshore)	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0	0.0%	\$0	\$0	\$0	
10	90 REACH 03 Wharf Replacement	\$83,104	\$54,830	66.0%	\$137,934	8.3%	\$89,982	\$59,367	\$149,349	\$0	\$149,349	416.9%	\$465,142	\$306,887	\$772,029	
10	90 REACH 03 Raise Piers	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$C	\$0	0.0%	\$0	\$0	\$0	
13	90 REACH 03 Pump Stations/Interior Drain	\$76,870	\$79,329	103.2%	\$156,199	8.3%	\$83,232	\$85,894	\$169,126	\$C	\$169,126	416.9%	\$430,250	\$444,013	\$874,263	
10	90 REACH 03 Roller Gate/Vehicle Barriers	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0	0.0%	\$0	\$0	\$0	
10	90 REACH 03 Large Gates/Closure Struct	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$C	\$0	0.0%	\$0	\$0	\$0	
16	90 REACH 03 Armoring	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0	0.0%	\$0	\$0	\$0	
02	90 REACH 03 Temp Raise/Relocate Repla	\$94,853	\$87,676	92.4%	\$182,529	8.3%	\$102,703	\$94,932	\$197,635	\$0	\$197,635	416.9%	\$530,904	\$490,731	\$1,021,635	
02	90 REACH 03 Demolition of Bldgs/Structur	\$341	\$241	70.7%	\$582	8.3%	\$369	\$261	\$630	\$0	\$630	416.9%	\$1,908	\$1,350	\$3,258	
02	90 REACH 03 Floodproofing Structures	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0	0.0%	\$0	\$0	\$0	
ALL	90 REACH 03 Remaining Construction Iter	n \$6,211	\$4,647	74.8%	\$10,857	8.3%	\$6,725	\$5,031	\$11,756	\$0	\$11,756	416.9%	\$34,762	\$26,007	\$60,769	
	REACH 04 Alt. D 2090															
02	90 Overall Utility Relocations	\$7,454	\$19,719	264.5%	\$27,173	8.3%	\$8,071	\$21,351	\$29,422	\$0	. ,	416.9%	\$41,721	\$110,371	\$152,092	
02	90 REACH 04 Utility Relocations	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0		0.0%	\$0	\$0	\$0	
02	90 REACH 04 Transportation Corridor	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0		0.0%	\$0	\$0	\$0	
02	90 REACH 04 Bridge Replacement	\$72,949	\$108,322	148.5%	\$181,271	8.3%	\$78,986	\$117,287	\$196,273	\$0	. ,	416.9%	\$408,302	\$606,291	\$1,014,594	
06	90 REACH 04 Plantings/EWN	\$7,149	\$4,460	62.4%	\$11,609	8.3%	\$7,741	\$4,829	\$12,570	\$0	. ,	416.9%	\$40,013	\$24,965	\$64,978	
11	90 REACH 04 Berms/Fill	\$4,864	\$3,459	71.1%	\$8,323	8.3%	\$5,266	\$3,746	\$9,012	\$0		416.9%	\$27,223	\$19,363	\$46,586	
10	90 REACH 04 Ground Improvement/DSM	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0	0.0%	\$0	\$0	\$0	

PREPARED:

10	90 REACH 04 Cantilever Walls/Pile Caps/C	\$5,076	\$2,809	55.3%	\$7,884	8.3%	\$5,496	\$3,041	\$8,537	\$0	\$8,537	416.9%	\$28,409	\$15,720	\$44,129
11	90 REACH 04 Anchored Walls/T-Wall	\$2,482	\$2,000 \$2,078	83.7%	\$4,559	8.3%	\$2,687	\$2,250	\$4,936	\$0 \$0	\$4,936	416.9%	\$13,889	\$11,628	\$25,518
10	90 REACH 04 Combi-Wall (Offshore)	\$0	\$0 -	001170	¢ 1,000 \$0	-	\$0	\$ <u>2,2</u> 00	¢ 1,000 \$0	\$0 \$0	\$0	0.0%	¢10,000 \$0	\$0	\$0
10	90 REACH 04 Wharf Replacement	\$0	\$0 -		\$0 \$0	-	\$0 \$0	\$0	\$0	\$0 \$0	\$0	0.0%	\$0 \$0	\$0 \$0	\$0 \$0
10	90 REACH 04 Raise Piers	\$0	\$0 -		\$0 \$0	-	\$0 \$0	\$0	\$0 \$0	\$0	\$0 \$0	0.0%	\$0 \$0	\$0 \$0	\$0 \$0
13	90 REACH 04 Pump Stations/Interior Drain	\$201,326	\$207,766	103.2%	\$409,092	8.3%	\$217,988	\$224,961	\$442,949	\$0	\$442,949	416.9%	\$1,126,846	\$1,162,892	\$2,289,738
10	90 REACH 04 Roller Gate/Vehicle Barriers	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0	0.0%	\$0	\$0	\$0
10	90 REACH 04 Large Gates/Closure Structu	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0	0.0%	\$0	\$0	\$0
16	90 REACH 04 Armoring	\$525	\$280	53.3%	\$805	8.3%	\$569	\$303	\$872	\$0	\$872	416.9%	\$2,940	\$1,567	\$4,507
02	90 REACH 04 Temp Raise/Relocate Repla	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0	0.0%	\$0	\$0	\$0
02	90 REACH 04 Demolition of Bldgs/Structur	\$374	\$265	70.7%	\$639	8.3%	\$405	\$287	\$692	\$0	\$692	416.9%	\$2,094	\$1,481	\$3,575
02	90 REACH 04 Floodproofing Structures	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0	0.0%	\$0	\$0	\$0
ALL	90 REACH 04 Remaining Construction Item	\$2,920	\$2,185	74.8%	\$5,105	8.3%	\$3,162	\$2,366	\$5,528	\$0	\$5,528	416.9%	\$16,345	\$12,229	\$28,574
		· · · · · · · · · · · · · · · · · · ·		_	· · · · · · · · · · · · · · · · · · ·	_		=				_		· · · · · · · · · · · · · · · · · · ·	
	CONSTRUCTION ESTIMATE TOTALS:	\$708,684	\$781,159		\$1,489,844	8.3%	\$767,336	\$845,809	\$1,613,145	\$0	\$1,613,145	416.7%	\$3,964,531	\$4,370,388	\$8,334,919
01	REACH 01 LANDS AND DAMAGES	\$0	\$0	50.0%	\$0	0.0%	\$0	\$0	\$0	\$0	\$0	0.0%	\$0	\$0	\$0
01	REACH 02 LANDS AND DAMAGES	\$0	\$0	50.0%	\$0	0.0%	\$0	\$0	\$0	\$0	\$0	0.0%	\$0	\$0	\$0
01	REACH 03 LANDS AND DAMAGES	\$2,302	\$1,151	50.0%	\$3,453	8.3%	\$2,493	\$1,246	\$3,739	\$0	\$3,739	270.3%	\$9,229	\$4,615	\$13,844
01	REACH 04 LANDS AND DAMAGES	\$5,414	\$2,707	50.0%	\$8,121	8.3%	\$5,862	\$2,931	\$8,793	\$0	\$8,793	270.3%	\$21,705	\$10,853	\$32,558
30		<i>Ф</i> (4)(4)	# 00	F0 00/	¢470	7 40/	\$110		¢400	* 0	¢400	00.00/	\$000	¢404	\$ 0.40
30	REACH 01 PLANNING, ENGINEERING & REACH 02 PLANNING, ENGINEERING &	\$111 ¢0	\$62 ¢0	56.0%	\$173 ¢0	7.4%	\$119 ¢0	\$67	\$186 ¢0	\$0 ¢0	\$186 ¢0	86.3%	\$222	\$124	\$346
		\$0 #F7 007	\$0 \$00.457	0.0%	\$0 \$00 554	-	\$0	\$0	\$0	\$0 \$0	\$0 #00.400	-	\$0 \$105.054	\$0	\$U #000.000
30 30	REACH 03 PLANNING, ENGINEERING &	\$57,397	\$32,157	56.0%	\$89,554	7.4%	\$61,646	\$34,537	\$96,183	\$0 \$0	\$96,183	201.2%	\$185,654	\$104,012	\$289,666
30	REACH 04 PLANNING, ENGINEERING &	\$43,479	\$24,359	56.0%	\$67,839	7.4%	\$46,697	\$26,162	\$72,860	\$0	\$72,860	201.2%	\$140,636	\$78,791	\$219,426
31	REACH 01 CONSTRUCTION MANAGEME	\$56	\$36	63.1%	\$92	7.4%	\$61	\$38	\$99	\$0	\$99	123.3%	\$135	\$85	\$220
31	REACH 02 CONSTRUCTION MANAGEME	\$0	\$0	0.0%	\$0	-	\$0	\$0	\$0	\$0	\$0	-	\$0	\$0	\$0
31	REACH 03 CONSTRUCTION MANAGEME	\$29,202	\$18,423	63.1%	\$47,625	7.4%	\$31,364	\$19,787	\$51,151	\$0	\$51,151	266.3%	\$114,877	\$72,474	\$187,351
31	REACH 04 CONSTRUCTION MANAGEME	\$22,121	\$13,956	63.1%	\$36,077	7.4%	\$23,758	\$14,989	\$38,747	\$0	\$38,747	266.3%	\$87,021	\$54,900	\$141,921
		#000 700	¢074.040	400.00/	¢4 740 770		#000 00F	045 500	¢4 004 004	<u>م</u> م	¢4.004.004	200.00/	¢4 504 040	¢4.000.040	¢0.000.050
	PROJECT COST TOTALS:	\$868,768	\$874,010	100.6%	\$1,742,778		\$939,335	\$945,566	\$1,884,901	\$0	\$1,884,901	389.2%	\$4,524,010	\$4,696,242	\$9,220,252

CHIEF, COST ENGINEERING, xxx

PROJECT MANAGER, xxx

CHIEF, REAL ESTATE, xxx

CHIEF, PLANNING, xxx

CHIEF, ENGINEERING, xxx

CHIEF, OPERATIONS, xxx

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ESTIMATED TOTAL PROJECT COST:

\$9,220,252

		CHIEF, CONSTRUCTION, xxx		
		CHIEF, CONTRACTING,xxx		
		CHIEF, PM-PB, xxxx		
		CHIEF, DPM, xxx		
		**** CONTRACT COST SUMMARY ****		
Т:	SFWS	DI	ISTRICT:	SWT

PROJECT LOCATION: San Francisco, CA This Estimate reflects the scope and schedule in report; Alternatives Analysis

POC: CHIEF, COST ENGINEERING, xxx

Printed:12/22/2023 Page 3 of 3

PREPARED:

PROJECT: SFWS PROJECT NOP2 xxxxxx LOCATION: San Francisco, CA

This Estimate reflects the scope and schedule in report;

Total Net Benefits Plan - SECOND ACTION HIGH (SEISMIC)

Civil	Works Work Breakdown Structure		ESTIMATED) COST					T FIRST COST nt Dollar Basis)	TOTAL PROJECT COST (FULLY FUNDED)					
								Program Year Effective Pric	(Budget EC): e Level Date:	2026 1 OCT 25	1				
										Spent Thru:	TOTAL				
WBS	Civil Works	COST	CNTG	CNTG	TOTAL	ESC	COST	CNTG	TOTAL	1-Oct-22	FIRST COST	INFLATED	COST	CNTG	FULL
<u>NUMBER</u>	Feature & Sub-Feature Description	<u>(\$K)</u>	<u>(\$K)</u>	(%)	<u>(\$K)</u>	(%)	<u>(\$K)</u>	<u>(\$K)</u>	<u>(\$K)</u>	<u>(\$K)</u>	<u>(\$K)</u>	<u>(%)</u>	<u>(\$K)</u>	<u>(\$K)</u>	<u>(\$K)</u>
Α	В	С	D	Ε	F	G	Н	1	J		ĸ	L	М	N	0
	REACH 01 Alt G 2040 & 2090														
02	40 Overall Structures Floodproofing Conc. Wa	\$20,161	\$18,483	91.7%	\$38,644	8.3%	\$21,830	\$20,013	\$41,843	\$0		43.2%	\$31,269	\$28,666	\$59,935
02	40 Overall Utility Relocations	\$6,655	\$17,606	264.5%	\$24,262	8.3%	\$7,206	\$19,064	\$26,270	\$0	. ,	43.2%	\$10,322	\$27,307	\$37,629
02	40 Overall Structure Floodproofing	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0	0.0%	\$0	\$0	\$C
10	40 Overall Seismic Ground Improvements	\$164,999	\$252,819	153.2%	\$417,818	8.3%	\$178,654	\$273,743	\$452,397	\$0		43.2%	\$255,904	\$392,109	\$648,012
02	40 REACH 01 Utility Relocations	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	+-	0.0%	\$0	\$0	\$C
02	40 REACH 01 Transportation Corridor	\$49,473	\$40,323	81.5%	\$89,796	8.3%	\$53,568	\$43,660	\$97,228	\$0		43.2%	\$76,730	\$62,539	\$139,269
02	40 REACH 01 Bridge Replacement	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0	0.0%	\$0	\$0	\$C
06	40 REACH 01 Plantings/EWN	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0		0.0%	\$0	\$0	\$C
11	40 REACH 01 Berms/Fill	\$3,800	\$2,703	71.1%	\$6,503	8.3%	\$4,115	\$2,927	\$7,042	\$0	\$7,042	43.2%	\$5,894	\$4,192	\$10,086
10	40 REACH 01 Ground Improvement/DSM	\$125,688	\$192,586	153.2%	\$318,274	8.3%	\$136,090	\$208,524	\$344,614	\$0	\$344,614	43.2%	\$194,935	\$298,690	\$493,625
10	40 REACH 01 Cantilever Walls/Pile Caps/Conc	\$64,380	\$35,625	55.3%	\$100,005	8.3%	\$69,708	\$38,574	\$108,282	\$0	\$108,282	43.2%	\$99,850	\$55,253	\$155,102
11	40 REACH 01 Anchored Walls/T-Wall	\$16,053	\$13,440	83.7%	\$29,493	8.3%	\$17,382	\$14,552	\$31,934	\$0	\$31,934	43.2%	\$24,897	\$20,845	\$45,742
10	40 REACH 01 Combi-Wall (Offshore)	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0	0.0%	\$0	\$0	\$C
10	40 REACH 01 Wharf Replacement	\$88,172	\$58,173	66.0%	\$146,346	8.3%	\$95,469	\$62,988	\$158,457	\$0	\$158,457	43.2%	\$136,750	\$90,224	\$226,974
10	40 REACH 01 Raise Piers	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0	0.0%	\$0	\$0	\$C
13	40 REACH 01 Pump Stations/Interior Drainage	\$23,633	\$24,389	103.2%	\$48,022	8.3%	\$25,589	\$26,407	\$51,996	\$0	\$51,996	43.2%	\$36,653	\$37,826	\$74,479
10	40 REACH 01 Roller Gate/Vehicle Barriers	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0	0.0%	\$0	\$0	\$C
10	40 REACH 01 Large Gates/Closure Structures	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0	0.0%	\$0	\$0	\$0
16	40 REACH 01 Armoring	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0	0.0%	\$0	\$0	\$0
02	40 REACH 01 Temp Raise/Relocate Replace	\$62,594	\$57,857	92.4%	\$120,451	8.3%	\$67,774	\$62,646	\$130,420	\$0	\$130,420	43.2%	\$97,079	\$89,733	\$186,813
02	40 REACH 01 Demolition of Bldgs/Structures	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0	0.0%	\$0	\$0	\$C
02	40 REACH 01 Floodproofing Structures	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0	0.0%	\$0	\$0	\$0
ALL	40 REACH 01 Remaining Construction Items	\$10,923	\$8,172	74.8%	\$19,095	8.3%	\$11,827	\$8,848	\$20,675	\$0	\$20,675	43.2%	\$16,941	\$12,674	\$29,616
02	90 Overall Utility Relocations	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0	0.0%	\$0	\$0	\$0
10	90 Overall Seismic Ground Improvements	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0	0.0%	\$0	\$0	\$0
02	90 REACH 01 Utility Relocations	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0	0.0%	\$0	\$0	\$C
02	90 REACH 01 Transportation Corridor	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0	0.0%	\$0	\$0	\$0
02	90 REACH 01 Bridge Replacement	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0	0.0%	\$0	\$0	\$0
06	90 REACH 01 Plantings/EWN	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0	0.0%	\$0	\$0	\$0
11	90 REACH 01 Berms/Fill	\$2,160	\$1,536	71.1%	\$3,696	8.3%	\$2,338	\$1,663	\$4,001	\$0		416.9%	\$12,087	\$8,597	\$20,685
10	90 REACH 01 Ground Improvement/DSM	\$21,978	\$33,675	153.2%	\$55,653	8.3%	\$23,796	\$36,462	\$60,258	\$0		416.9%	\$123,011	\$188,483	\$311,494
10	90 REACH 01 Cantilever Walls/Pile Caps/Conc		\$1,553	55.3%	\$4,360	8.3%	\$3,039	\$1,682	\$4,721	\$0		416.9%	\$15,712	\$8,694	\$24,406
11	90 REACH 01 Anchored Walls/T-Wall	\$16,053	\$13,440	83.7%	\$29,493	8.3%	\$17,382	\$14,552	\$31,934	\$0		416.9%	\$89,851	\$75,225	\$165,076
10	90 REACH 01 Combi-Wall (Offshore)	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0		0.0%	\$0 \$0	\$0	\$122,010

DISTRICT: SWT POC: CHIEF, COST ENGINEERING, xxx

PREPARED:

10 90 REACH 01 Wharf Replacement \$0 \$0 - \$0 \$0 50 <	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$
13 90 REACH 01 Pump Stations/Interior Drainage \$0 \$0 - \$0 - \$0 </th <th>\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$</th>	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$
10 90 REACH 01 Roller Gate/Vehicle Barriers \$0 <td>\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$</td>	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$
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02 90 REACH 01 Floodproofing Structures \$0	\$0 \$6,391 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0
ALL 90 REACH 01 Remaining Construction Items \$3,376 \$2,526 74.8% \$5,902 8.3% \$3,656 \$2,735 \$6,391 02 90 Overall Utility Relocations \$0 \$0 - \$0 - \$0	\$6,391 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0
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11 90 REACH 02 Berms/Fill \$0<	\$0 \$0 \$7,158 \$0 \$0
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REACH 03 Alt. E 2040 & 2090	ΨŬ
02 40 Overall Structures Floodproofing Conc. Wa \$17,789 \$16,309 91.7% \$34,098 8.3% \$19,262 \$17,658 \$36,920 \$0	\$36,920
02 40 Overall Utility Relocations \$5,391 \$14,261 264.5% \$19,652 8.3% \$5,837 \$15,441 \$21,279 \$0	
10 40 Overall Seismic Ground Improvements \$0 \$0 - \$0 - \$0 \$0 \$0 \$0	\$0
10 40 Overall Seismic Transportation Corridor \$0 \$0 - \$0 \$0 \$0 \$0 \$0	
02 40 REACH 03 Utility Relocations \$0 \$0 - \$0 \$0 \$0 \$0	
02 40 REACH 03 Transportation Corridor \$251,537 \$205,014 81.5% \$456,551 8.3% \$272,354 \$221,981 \$494,335 \$0	\$494,335
02 40 REACH 03 Bridge Replacement \$0 \$0 - \$0 \$0 \$0 \$0	
06 40 REACH 03 Plantings/EWN \$45,929 \$28,655 62.4% \$74,585 8.3% \$49,730 \$31,027 \$80,757 \$0	\$80,757
11 40 REACH 03 Berms/Fill \$71,154 \$50,608 71.1% \$121,762 8.3% \$77,043 \$54,797 \$131,840 \$0	\$131,840
10 40 REACH 03 Ground Improvement/DSM \$184,587 \$282,833 153.2% \$467,419 8.3% \$199,863 \$306,240 \$506,102 \$0	\$506,102
10 40 REACH 03 Cantilever Walls/Pile Caps/Conc \$12,896 \$7,136 55.3% \$20,032 8.3% \$13,963 \$7,726 \$21,689 \$0	\$21,689
11 40 REACH 03 Anchored Walls/T-Wall \$0 \$0 \$0 - \$0	\$0
10 40 REACH 03 Combi-Wall (Offshore) \$637,116 \$673,305 105.7% \$1,310,421 8.3% \$689,843 \$729,027 \$1,418,870 \$0	\$1,418,870
10 40 REACH 03 Wharf Replacement \$229,936 \$151,705 66.0% \$381,641 8.3% \$248,965 \$164,260 \$413,225 \$0	\$413,225
10 40 REACH 03 Raise Piers \$0 \$0 - \$0	\$0
13 40 REACH 03 Pump Stations/Interior Drainage \$134,492 \$138,795 103.2% \$273,287 8.3% \$145,623 \$150,282 \$295,905 \$0	

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· · · · · · · · · · · · · · · · · · ·	5,677
43.2% \$110,355 \$78,490 \$18	3,846
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	,903
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	фо 3,853
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10	40 REACH 03 Roller Gate/Vehicle Barriers	\$7,466	\$4,714	63.1%	\$12,180	8.3%	\$8,084	\$5,105	\$13,188	\$0	\$13,188
10	40 REACH 03 Large Gates/Closure Structures		\$4,714 \$0 -	03.170	\$12,180 \$0	0.370	\$0,084 \$0	\$5,105 \$0	۵۱۵, ۱۵۵ \$0	\$0 \$0	\$13,188 \$0
16	40 REACH 03 Armoring	\$0 \$0	\$0 - \$0 -		\$0 \$0	-	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0
02	40 REACH 03 Temp Raise/Relocate Replace		- ₅₀ - \$240,667	92.4%	\$501,036	- 8.3%	₄₀ \$281,918	پ 0 \$260,585	₄₀ \$542,502	\$0 \$0	پ و \$542,502
02	40 REACH 03 Demolition of Bldgs/Structures	\$971 \$	\$687	92.4 <i>%</i> 70.7%	\$301,030 \$1,658	8.3%	\$201,910 \$1,051	\$744	\$1,795	\$0 \$0	\$1,795
02	40 REACH 03 Floodproofing Structures	\$971	\$007 \$0 -	10.170	\$1,038 \$0	0.570	\$1,031 \$0	\$7,44 \$0	\$1,795 \$0	\$0 \$0	\$1,795 \$0
ALL	40 REACH 03 Remaining Construction Items	پن \$13,101	- ₄₀ - \$9,801	74.8%	پو \$22,902	- 8.3%	پ 0 \$14,185	پ 0 \$10,613	پ 0 \$24,798	\$0 \$0	\$0 \$24,798
10	90 Overall Utility Relocations	\$13,101 \$2,396	\$6,338	264.5%	\$22,902 \$8,734	8.3%	\$14,185 \$2,594	\$6,863	\$24,790 \$9,457	\$0 \$0	\$9,457
02	90 REACH 03 Utility Relocations	\$2,390 \$0	\$0,550 \$0 -	204.370	\$0,734 \$0	0.570	\$2,394 \$0	\$0,803 \$0	\$9,437 \$0	\$0 \$0	\$9,437 \$0
02	90 REACH 03 Offinity Relocations 90 REACH 03 Transportation Corridor	\$0 \$0	\$0 - \$0 -		\$0 \$0	-	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0
02	90 REACH 03 Bridge Replacement	₄₀ \$128,162	- ₄₀ - \$190,309	148.5%	\$318,472	- 8.3%	₄₀ \$138,769	پ 0 \$206,059	پ 0 \$344,828	\$0 \$0	\$344,828
06	90 REACH 03 Plantings/EWN	\$120,102 \$0	\$0 -	140.070	\$0	0.570	\$130,709 \$0	\$0 \$0	\$044,020 \$0	\$0 \$0	\$044,020 \$0
11	90 REACH 03 Berms/Fill	₄₀ \$21,695	- ₄₀ - \$15,431	71.1%	\$37,126	8.3%	پو \$23,491	پ 0 \$16,708	پ0 \$40,199	\$0 \$0	\$40,199
10	90 REACH 03 Ground Improvement/DSM	¢21,095 \$0	\$10,401 \$0 -	7 1.170	\$0 \$0	0.570	¢20,491 \$0	\$10,700 \$0	4 0,199 \$0	\$0 \$0	\$0
10	90 REACH 03 Cantilever Walls/Pile Caps/Con		\$0 - \$0 -		\$0 \$0		\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0
11	90 REACH 03 Anchored Walls/T-Wall	\$0 \$0	\$0 - \$0 -		\$0 \$0		\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0
10	90 REACH 03 Combi-Wall (Offshore)	\$0 \$0	\$0 - \$0 -		\$0 \$0	_	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0
10	90 REACH 03 Wharf Replacement	₄₀ \$229,396	- ₄₀ - \$151,348	66.0%	\$380,744	8.3%	₄₀ \$248,380	پ 0 \$163,874	پو \$412,254	\$0 \$0	\$412,254
10	90 REACH 03 Raise Piers	\$229,390 \$0	\$131,348 \$0 -	00.070	\$300,744	0.570	\$240,380 \$0	\$103,874 \$0	\$412,234 \$0	\$0 \$0	\$0
13	90 REACH 03 Pump Stations/Interior Drainage	-	\$0 - \$0 -		\$0 \$0		\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0
10	90 REACH 03 Roller Gate/Vehicle Barriers	\$0 \$0	\$0 - \$0 -		\$0 \$0	_	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0
10	90 REACH 03 Large Gates/Closure Structures		\$0 - \$0 -		\$0 \$0	-	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0
16	90 REACH 03 Armoring	\$0 \$0	\$0 - \$0 -		\$0 \$0	_	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0
02	90 REACH 03 Temp Raise/Relocate Replace		\$0 - \$0 -		\$0 \$0		\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0
02	90 REACH 03 Demolition of Bldgs/Structures	\$0 \$0	\$0 - \$0 -		\$0 \$0		φ0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0
02	90 REACH 03 Floodproofing Structures	\$0 \$0	\$0 - \$0 -		\$0 \$0		\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0
ALL	90 REACH 03 Remaining Construction Items	₄₀ \$21,505	- ₄₀ - \$16,089	74.8%	\$37,594	8.3%	\$23,285	پ 0 \$17,420	پو \$40,705	\$0 \$0	\$40,705
	REACH 04 Alt. E 2040 & 2090	φ21,000	φ10,009	74.070	φ57,554	0.570	ψ20,200	φ17, 4 20	φ+0,700	φ0	φ40,700
02	40 Overall Structures Floodproofing Conc. Wa	\$0	\$0 -		\$0	_	\$0	\$0	\$0	\$0	\$0
02	40 Overall Utility Relocations	₄₀ \$11,181	\$29,579	264.5%	\$40,760	8.3%	40 \$12,106	\$32,027	\$44,133	\$0 \$0	\$44,133
10	40 Overall Seismic Ground Improvements	\$0	\$0 -	204.070	\$0	0.070	\$0	φ02,027 \$0	φ, 133 \$0	\$0 \$0	۹۹۹,100 \$0
10	40 Overall Seismic Transportation Corridor	\$0	\$0 -		\$0 \$0		\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0
02	40 REACH 04 Utility Relocations	\$0 \$0	\$0 -		\$0 \$0		\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0
02	40 REACH 04 Transportation Corridor	\$0	\$0 -		\$0 \$0	_	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0
02	40 REACH 04 Bridge Replacement	\$0	\$0 -		\$0 \$0	_	\$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0
06	40 REACH 04 Plantings/EWN	\$25,805	\$16,100	62.4%	\$41,906	8.3%	40 \$27,941	پن \$17,433	\$45,374	\$0 \$0	\$45,374
11	40 REACH 04 Berms/Fill	\$78,214	\$55,630	71.1%	\$133,843	8.3%	\$84,687	\$60,234	\$144,920	\$0 \$0	\$144,920
10	40 REACH 04 Ground Improvement/DSM	\$0	\$0 -	7 1.1 /0	\$0	-	\$0 \$0	\$00,201 \$0	\$0 \$0	\$0 \$0	\$0
10	40 REACH 04 Cantilever Walls/Pile Caps/Con		\$126,539	55.3%	\$355,213	8.3%	\$247,599	\$137,011	\$384,610	\$0 \$0	\$384,610
11	40 REACH 04 Anchored Walls/T-Wall	\$0	¢120,000 \$0 -	00.070	\$0 \$0	-	\$0	\$0	\$00 i,0 i 0	\$0	\$0 \$0
10	40 REACH 04 Combi-Wall (Offshore)	\$0	\$0 -		\$0 \$0	-	\$0	\$0	\$0	\$0	\$0
10	40 REACH 04 Wharf Replacement	\$729,196	\$481,102	66.0%	\$1,210,298	8.3%	\$789,544	\$520,917	\$1,310,461	\$0	\$1,310,461
10	40 REACH 04 Raise Piers	\$0	\$0 -		\$0	-	\$0	\$0_0,011 \$0	\$0	\$0	\$0
13	40 REACH 04 Pump Stations/Interior Drainage		\$267,106	103.2%	\$525,932	8.3%	\$280,248	\$289,212	\$569,460	\$0	\$569,460
10	40 REACH 04 Roller Gate/Vehicle Barriers	\$2,099	\$1,326	63.1%	\$3,425	8.3%	\$2,273	\$1,435	\$3,709	\$0	\$3,709
10	40 REACH 04 Large Gates/Closure Structures		¢1,020 \$0 -		\$0 \$0	-	\$0	\$0	¢0,100 \$0	\$0	\$0
16	40 REACH 04 Armoring	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0
02	40 REACH 04 Temp Raise/Relocate Replace		\$497,809	92.4%	\$1,036,371	8.3%	\$583,134	\$539,008	\$1,122,141	\$0	\$1,122,141
02	40 REACH 04 Demolition of Bldgs/Structures		\$938	70.7%	\$2,264	8.3%	\$1,435	\$1,016	\$2,451	\$0	\$2,451
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43.2%	\$11,579	\$7,312	\$18,891
0.0%	\$0	\$0	\$0
0.0%	\$0	\$0	\$0
43.2%	\$403,818	\$373,261	\$777,079
43.2%	\$1,506	\$1,065	\$2,571
0.0%	\$0	\$0	\$0
43.2%	\$20,319	\$15,202	\$35,521
416.9%	\$13,410	\$35,476	\$48,887
0.0%	\$0	\$0	\$0
0.0%	\$0	\$0	\$0
416.9%	\$717,340	\$1,065,184	\$1,782,524
0.0%	\$0	\$0	\$0
416.9%	\$121,430	\$86,367	\$207,797
0.0%	\$0	\$0	\$0
0.0%	\$0	\$0	\$0
0.0%	\$0	\$0	\$0
0.0%	\$0	\$0	\$0
416.9%	\$1,283,953	\$847,113	\$2,131,066
0.0%	\$0	\$0	\$0
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0.0%	\$0	\$0	\$0
0.0%	\$0	\$0	\$0
0.0%	\$0	\$0	\$0
416.9%	\$120,366	\$90,052	\$210,418
0.0%	\$0	\$0	\$0
43.2%	\$17,341	\$45,875	\$63,216
0.0%	\$0	\$0	\$0
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0.0%	\$0	\$0	\$0
0.0%	\$0	\$0	\$0
43.2%	\$40,023	\$24,971	\$64,993
43.2%	\$121,304	\$86,278	\$207,582
0.0%	\$0	\$0	\$0
43.2%	\$354,660	\$196,254	\$550,915
0.0%	\$0	\$0	\$0
0.0%	\$0	\$0	\$0
43.2%	\$1,130,942	\$746,161	\$1,877,103
0.0%	\$0	\$0	\$0
43.2%	\$401,426	\$414,267	\$815,692
43.2%	\$3,256	\$2,056	\$5,312
0.0%	\$0, <u>_</u> 00	\$0	\$0
0.0%	\$0	\$0	\$0
43.2%	\$835,279	\$772,073	\$1,607,352
43.2%	\$2,056	\$1,455	\$3,511
	Ψ_,000	ψ1,700	ψ0,011

02	40 REACH 04 Floodproofing Structures	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0	0.0%	\$0	\$0	\$0
ALL	40 REACH 04 Remaining Construction Items	\$20,564	\$15,385	74.8%	\$35,948	8.3%	\$22,265	\$16,658	\$38,923	\$0		43.2%	\$31,893	\$23,861	\$55,754
10	90 Overall Utility Relocations	\$11,181	\$29,579	264.5%	\$40,760	8.3%	\$12,106	\$32,027	\$44,133	\$0	\$44,133	416.9%	\$62,582	\$165,556	\$228,138
02	90 REACH 04 Utility Relocations	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0	0.0%	\$0	\$0	\$0
02	90 REACH 04 Transportation Corridor	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0	0.0%	\$0	\$0	\$0
02	90 REACH 04 Bridge Replacement	\$72,949	\$108,322	148.5%	\$181,271	8.3%	\$78,986	\$117,287	\$196,273	\$0	\$196,273	416.9%	\$408,302	\$606,291	\$1,014,594
06	90 REACH 04 Plantings/EWN	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0		0.0%	\$0	\$0	\$0
11	90 REACH 04 Berms/Fill	\$16,620	\$11,821	71.1%	\$28,442	8.3%	\$17,996	\$12,800	\$30,795	\$0	\$30,795	416.9%	\$93,026	\$66,165	\$159,190
10	90 REACH 04 Ground Improvement/DSM	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0		0.0%	\$0	\$0	\$0
10	90 REACH 04 Cantilever Walls/Pile Caps/Con	-	\$0 -		\$0	-	\$0	\$0	\$0	\$0		0.0%	\$0	\$0	\$0
11	90 REACH 04 Anchored Walls/T-Wall	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0		0.0%	\$0	\$0	\$0
10	90 REACH 04 Combi-Wall (Offshore)	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0	0.0%	\$0	\$0	\$0
10	90 REACH 04 Wharf Replacement	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0	0.0%	\$0	\$0	\$0
10	90 REACH 04 Raise Piers	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0		0.0%	\$0	\$0	\$0
13	90 REACH 04 Pump Stations/Interior Drainage	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0	0.0%	\$0	\$0	\$0
10	90 REACH 04 Roller Gate/Vehicle Barriers	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0	0.0%	\$0	\$0	\$0
10	90 REACH 04 Large Gates/Closure Structures	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0	0.0%	\$0	\$0	\$0
16	90 REACH 04 Armoring	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0		0.0%	\$0	\$0	\$0
02	90 REACH 04 Temp Raise/Relocate Replace	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0	0.0%	\$0	\$0	\$0
02	90 REACH 04 Demolition of Bldgs/Structures	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0	0.0%	\$0	\$0	\$0
02	90 REACH 04 Floodproofing Structures	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0	0.0%	\$0	\$0	\$0
ALL	90 REACH 04 Remaining Construction Items	\$131,554	\$98,422	74.8%	\$229,976	8.3%	\$142,442	\$106,568	\$249,010	\$0	\$249,010	416.9%	\$736,326	\$550,882	\$1,287,209
				_											
	CONSTRUCTION ESTIMATE TOTALS:	\$5,089,801	\$4,720,926		\$9,810,727	8.3%	\$5,511,033	\$5,111,630	\$10,622,663	\$0	\$10,622,663	95.4%	\$10,670,025	\$10,084,395	\$20,754,421
01	LANDS AND DAMAGES	\$54,255	\$27,128	50.0%	\$81,383	8.3%	\$58,745	\$29,373	\$88,118	\$0	\$88,118	270.3%	\$217,515	\$108,758	\$326,273
30	REACH 01 PLANNING, ENGINEERING & DE	\$\$97,314	\$54,520	56.0%	\$151,834	7.4%	\$104,517	\$58,555	\$163,072	\$0	\$163,072	201.2%	\$314,766	\$176,347	\$491,113
30	REACH 02 PLANNING, ENGINEERING & DE	s \$607	\$340	56.0%	\$946	7.4%	\$651	\$365	\$1,016	\$0	\$1,016	201.2%	\$1,962	\$1,099	\$3,061
30	REACH 03 PLANNING, ENGINEERING & DE	\$\$\$24,314	\$181,696	56.0%	\$506,010	7.4%	\$348,318	\$195,144	\$543,463	\$0	\$543,463	201.2%	\$1,049,006	\$587,703	\$1,636,709
30	REACH 04 PLANNING, ENGINEERING & DE	\$\$303,062	\$169,790	56.0%	\$472,852	7.4%	\$325,493	\$182,357	\$507,850	\$0	\$507,850	201.2%	\$980,266	\$549,191	\$1,529,457
31	REACH 01 CONSTRUCTION MANAGEMENT	\$49,511	\$31,236	63.1%	\$80,746	7.4%	\$53,175	\$33,548	\$86,723	\$0	\$86,723	266.3%	\$194,768	\$122,876	\$317,644
31	REACH 02 CONSTRUCTION MANAGEMENT	\$309	\$195	63.1%	\$503	7.4%	\$331	\$209	\$540	\$0	\$540	266.3%	\$1,214	\$766	\$1,980
31	REACH 03 CONSTRUCTION MANAGEMENT	\$165,002	\$104,097	63.1%	\$269,099	7.4%	\$177,215	\$111,802	\$289,017	\$0	\$289,017	266.3%	\$649,092	\$409,504	\$1,058,596
31	REACH 04 CONSTRUCTION MANAGEMENT	\$154,189	\$97,276	63.1%	\$251,466	7.4%	\$165,602	\$104,476	\$270,078	\$0	\$270,078	266.3%	\$606,558	\$382,669	\$989,227
	PROJECT COST TOTALS:	\$6,238,364	\$5,387,203	86.4%	\$11,625,567		\$6,745,082	\$5,827,459	\$12,572,541	\$0	\$12,572,541	115.6%	\$14,685,171	\$12,423,308	\$27,108,480

CHIEF, COST ENGINEERING, xxx

PROJECT	MANAGER, xxx

CHIEF, REAL ESTATE, xxx

CHIEF, PLANNING, xxx

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ESTIMATED TOTAL PROJECT COST:

\$27,108,480

		CHIEF, ENGINEERING, xxx	
		CHIEF, OPERATIONS, xxx	
		CHIEF, CONSTRUCTION, xxx	
		CHIEF, CONTRACTING,xxx	
		CHIEF, PM-PB, xxxx	
		CHIEF, DPM, xxx	
		**** CONTRACT COST SUMMARY ****	
PROJECT: LOCATION: This Estimate r	SFWS San Francisco, CA eflects the scope and schedule in report;	DISTRIC PC Alternatives Analysis	

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RING, xxx

PREPARED:

DISTRICT: SWT

PROJECT: SFWS PROJECT NOP2 xxxxx LOCATION: San Francisco, CA

This Estimate reflects the scope and schedule in report;

Total Net Benefits Plan - FIRST ACTION (NON-SEISMIC)

Civil V	Vorks Work Breakdown Structure		ESTIMATED) COST			PROJECT FIRST COST (Constant Dollar Basis)						TOTAL PROJECT COST (FULLY FUNDED)			
									(Budget EC): e Level Date:	2026 1 OCT 25						
										Spent Thru:	TOTAL					
WBS	Civil Works	COST	CNTG	CNTG	TOTAL	ESC	COST	CNTG	TOTAL	1-Oct-22	FIRST COST		COST	CNTG	FULL	
NUMBER	Feature & Sub-Feature Description	<u>(\$K)</u> C	<u>(\$K)</u>	<u>(%)</u> E	<u>(\$K)</u> F	<u>(%)</u> G	<u>(\$K)</u> <i>H</i>	<u>(\$K)</u>	<u>(\$K)</u>	<u>(\$K)</u>	<u>(\$K)</u>	<u>(%)</u> L	<u>(\$K)</u> M	<u>(\$K)</u> N	<u>(\$K)</u>	
A	ھ REACH 01 Alt B 2040	L	D	E	F	G	п	I	J		K	L	IVI	N	0	
02	40 Overall Structures Floodproofing Conc.	\$20,161	\$18,483	91.7%	\$38,644	8.3%	\$21,830	\$20,013	\$41,843	\$0	\$41,843	43.2%	\$31,269	\$28,666	\$59,935	
19	40 REACH 01 Demolition of Bldgs/Structur	۶20, 101 \$991	\$10,403 \$701	91.7% 70.7%	\$38,044 \$1,692	8.3% 8.3%	¢21,030 \$1,073	\$20,013 \$759	\$1,832	\$0		43.2%	\$31,209 \$1,537	\$28,000 \$1,087	\$2,624	
19	40 REACH 01 Floodproofing Structures	\$6,289	\$5,766	91.7%	\$12,055	8.3%	\$6,810	\$6,243	\$13,052	\$0		43.2%	\$1,337 \$9,754	\$8,942	\$2,024 \$18,697	
19	REACH 02 Alt. G 2040	ψ0,209	φ5,700	91.770	φ12,000	0.570	φ0,010	φ0,243	φ15,055	φ	φ15,055	43.270	φ 9 ,734	ψ0,94Z	φ10,097	
02	40 Overall Structures Floodproofing Conc.	\$21,347	\$19,570	91.7%	\$40,918	8.3%	\$23,114	\$21,190	\$44,304	\$0	\$44,304	43.2%	\$33,108	\$30,353	\$63,461	
02	40 Overall Utility Relocations	\$35,274	\$93,314	264.5%	\$128,588	8.3%	\$38,193	\$101,037	\$139,230	\$0		43.2%	\$54,707	\$144,725	\$199,432	
02	40 Overall Structure Floodproofing	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0		0.0%	\$0	\$0	\$0	
10	40 Overall Seismic Ground Improvements	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0		0.0%	\$0	\$0	\$C	
02	40 REACH 02 Utility Relocations	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0		0.0%	\$0	\$0	\$0	
02	40 REACH 02 Transportation Corridor	\$294,092	\$239,699	81.5%	\$533,791	8.3%	\$318,431	\$259,536	\$577,968	\$0		43.2%	\$456,120	\$371,759	\$827,879	
02	40 REACH 02 Bridge Replacement	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0		0.0%	\$0	\$0	\$0	
06	40 REACH 02 Plantings/EWN	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0		0.0%	\$0	\$0	\$C	
11	40 REACH 02 Berms/Fill	\$8,683	\$6,176	71.1%	\$14,859	8.3%	\$9,402	\$6,687	\$16,089	\$0	\$16,089	43.2%	\$13,467	\$9,579	\$23,046	
10	40 REACH 02 Ground Improvement/DSM	\$215,083	\$329,561	153.2%	\$544,644	8.3%	\$232,883	\$356,835	\$589,718	\$0	\$589,718	43.2%	\$333,582	\$511,131	\$844,712	
10	40 REACH 02 Cantilever Walls/Pile Caps/	\$124,518	\$68,903	55.3%	\$193,421	8.3%	\$134,823	\$74,605	\$209,428	\$0	\$209,428	43.2%	\$193,120	\$106,865	\$299,985	
11	40 REACH 02 Anchored Walls/T-Wall	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0		0.0%	\$0	\$0	\$0	
10	40 REACH 02 Combi-Wall (Offshore)	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0	0.0%	\$0	\$0	\$0	
10	40 REACH 02 Wharf Replacement	\$282,623	\$186,466	66.0%	\$469,089	8.3%	\$306,012	\$201,898	\$507,910	\$0	\$507,910	43.2%	\$438,332	\$289,198	\$727,530	
10	40 REACH 02 Raise Piers	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0	0.0%	\$0	\$0	\$0	
10	40 REACH 02 Pump Stations/Interior Drain	\$53,987	\$55,714	103.2%	\$109,700	8.3%	\$58,455	\$60,325	\$118,779	\$0	\$118,779	43.2%	\$83,730	\$86,409	\$170,139	
10	40 REACH 02 Roller Gate/Vehicle Barriers	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0	0.0%	\$0	\$0	\$0	
10	40 REACH 02 Large Gates/Closure Struct	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0	0.0%	\$0	\$0	\$0	
16	40 REACH 02 Armoring	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0	0.0%	\$0	\$0	\$0	
02	40 REACH 02 Temp Raise/Relocate Repla	\$241,177	\$222,927	92.4%	\$464,104	8.3%	\$261,137	\$241,377	\$502,514	\$0	\$502,514	43.2%	\$374,052	\$345,747	\$719,799	
02	40 REACH 02 Demolition of Bldgs/Structur	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0	0.0%	\$0	\$0	\$C	
02	40 REACH 02 Floodproofing Structures	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0	0.0%	\$0	\$0	\$C	
ALL	40 REACH 02 Remaining Construction Iter	n \$18,109	\$13,548	74.8%	\$31,657	8.3%	\$19,608	\$14,669	\$34,277	\$0	\$34,277	43.2%	\$28,086	\$21,013	\$49,099	
	REACH 03 Alt. D 2040															
02	40 Overall Structures Floodproofing Conc.	\$17,789	\$16,309	91.7%	\$34,098	8.3%	\$19,262	\$17,658	\$36,920	\$0	\$36,920	43.2%	\$27,590	\$25,294	\$52,884	
02	40 Overall Utility Relocations	\$1,597	\$4,226	264.5%	\$5,823	8.3%	\$1,729	\$4,575	\$6,305	\$0	\$6,305	43.2%	\$2,477	\$6,554	\$9,031	
10	40 Overall Seismic Ground Improvements	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0		0.0%	\$0	\$0	\$0	
10	40 Overall Seismic Transportation Corridor	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0	0.0%	\$0	\$0	\$0	

Filename: SFWS TPCS 2023.08.18 w UPDATED ACCOUNTS TNBP Non-seismic 1st

02		\$ 0	\$ 0		* 0	I	\$ 0	\$ 0	\$ 0	م ا	* 0
02	40 REACH 03 Utility Relocations	\$0	\$0 -		\$0	-	\$0	\$0 \$0	\$0	\$0	\$0
02	40 REACH 03 Transportation Corridor	\$0	\$0 -		\$0	-	\$0	\$0 \$0	\$0	\$0	\$0
02	40 REACH 03 Bridge Replacement	\$0	\$0 -	00.40/	\$0	-	\$0	\$0	\$0	\$0 \$0	\$0
06	40 REACH 03 Plantings/EWN	\$1,453	\$907	62.4%	\$2,360	8.3%	\$1,574	\$982	\$2,556	\$0 \$0	\$2,556
11	40 REACH 03 Berms/Fill	\$11,406	\$8,113	71.1%	\$19,519	8.3%	\$12,350	\$8,784	\$21,134	\$0	\$21,134
10	40 REACH 03 Ground Improvement/DSM	\$0	\$0 -	== 00/	\$0	-	\$0	\$0	\$0	\$0 \$0	\$0
10	40 REACH 03 Cantilever Walls/Pile Caps/		\$155	55.3%	\$435	8.3%	\$303	\$168	\$471	\$0	\$471
11	40 REACH 03 Anchored Walls/T-Wall	\$12,958	\$10,848	83.7%	\$23,806	8.3%	\$14,030	\$11,746	\$25,776	\$0	\$25,776
10	40 REACH 03 Combi-Wall (Offshore)	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0
10	40 REACH 03 Wharf Replacement	\$29,312	\$19,339	66.0%	\$48,650	8.3%	\$31,737	\$20,939	\$52,677	\$0	\$52,677
10	40 REACH 03 Raise Piers	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0
13	40 REACH 03 Pump Stations/Interior Drain	\$69,918	\$72,154	103.2%	\$142,072	8.3%	\$75,704	\$78,126	\$153,830	\$0	\$153,830
10	40 REACH 03 Roller Gate/Vehicle Barriers	\$9,267	\$5,852	63.1%	\$15,118	8.3%	\$10,034	\$6,336	\$16,369	\$0	\$16,369
10	40 REACH 03 Large Gates/Closure Struct	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0
16	40 REACH 03 Armoring	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0
02	40 REACH 03 Temp Raise/Relocate Repla	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0
02	40 REACH 03 Demolition of Bldgs/Structur	\$69	\$49	70.7%	\$118	8.3%	\$75	\$53	\$128	\$0	\$128
02	40 REACH 03 Floodproofing Structures	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0
ALL	40 REACH 03 Remaining Construction Iter	n \$8,841	\$6,614	74.8%	\$15,455	8.3%	\$9,573	\$7,162	\$16,734	\$0	\$16,734
	REACH 04 Alt. D 2040										
02	40 Overall Structures Floodproofing Conc.	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0
02	40 Overall Utility Relocations	\$7,454	\$19,719	264.5%	\$27,173	8.3%	\$8,071	\$21,351	\$29,422	\$0	\$29,422
10	40 Overall Seismic Ground Improvements	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0
10	40 Overall Seismic Transportation Corridor	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0
02	40 REACH 04 Utility Relocations	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0
02	40 REACH 04 Transportation Corridor	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0
02	40 REACH 04 Bridge Replacement	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0
06	40 REACH 04 Plantings/EWN	\$13,243	\$8,262	62.4%	\$21,505	8.3%	\$14,339	\$8,946	\$23,285	\$0	\$23,285
11	40 REACH 04 Berms/Fill	\$15,990	\$11,373	71.1%	\$27,363	8.3%	\$17,314	\$12,314	\$29,628	\$0	\$29,628
10	40 REACH 04 Ground Improvement/DSM	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0
10	40 REACH 04 Cantilever Walls/Pile Caps/		\$6,382	55.3%	\$17,915	8.3%	\$12,487	\$6,910	\$19,397	\$0	\$19,397
11	40 REACH 04 Anchored Walls/T-Wall	\$5,765	\$4,826	83.7%	\$10,591	8.3%	\$6,242	\$5,226	\$11,467	\$0	\$11,467
10	40 REACH 04 Combi-Wall (Offshore)	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0
10	40 REACH 04 Wharf Replacement	\$170,489	\$112,483	66.0%	\$282,972	8.3%	\$184,598	\$121,792	\$306,391	\$0	\$306,391
10	40 REACH 04 Raise Piers	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0
13	40 REACH 04 Pump Stations/Interior Drain	\$68,526	\$70,718	103.2%	\$139,244	8.3%	\$74,197	\$76,571	\$150,768	\$0	\$150,768
10	40 REACH 04 Roller Gate/Vehicle Barriers	\$1,610	\$1,016	63.1%	\$2,626	8.3%	\$1,743	\$1,101	\$2,843	\$0	\$2,843
10	40 REACH 04 Large Gates/Closure Struct	\$0	\$0 -	/	\$0	-	\$0	\$0	\$0	\$0	\$0
16	40 REACH 04 Armoring	\$3,117	\$1,661	53.3%	\$4,778	8.3%	\$3,375	\$1,799	\$5,173	\$0	\$5,173
02	40 REACH 04 Temp Raise/Relocate Repla	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0
02	40 REACH 04 Demolition of Bldgs/Structur	\$3,029	\$2,143	70.7%	\$5,172	8.3%	\$3,280	\$2,320	\$5,600	\$0	\$5,600
02	40 REACH 04 Floodproofing Structures	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0
ALL	40 REACH 04 Remaining Construction Iter	n \$3,949	\$2,954	74.8%	\$6,903	8.3%	\$4,276	\$3,199	\$7,475	\$0	\$7,475
	CONSTRUCTION ESTIMATE TOTALS:	\$1,789,927	\$1,646,932	-	\$3,436,860	8.3%	\$1,938,062	\$1,783,233	\$3,721,294	\$0	\$3,721,294
01	REACH 01 LANDS AND DAMAGES	\$0	\$0	50.0%	\$0	0.0%	\$0	\$0	\$0	\$0	\$0
01	REACH 02 LANDS AND DAMAGES	\$380	\$190	50.0%	\$570	8.3%	\$411	\$206	\$617	\$0	\$617

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			C C
0.0%	\$0	\$0	\$0
0.0%	\$0	\$0	\$0
0.0%	\$0	\$0	\$0
43.2%	\$2,254	\$1,406	\$3,661
43.2%	\$17,690	\$12,582	\$30,272
0.0%	\$0	\$0	\$0
43.2%	\$434	\$240	\$674
43.2%	\$20,096	\$16,825	\$36,921
0.0%	\$0	\$0	\$0
43.2%	\$45,461	\$29,994	\$75,454
0.0%	\$0	\$0	\$0
43.2%	\$108,439	\$111,907	\$220,346
43.2%	\$14,372	\$9,076	\$23,448
0.0%	\$0	\$0	\$0
0.0%	\$0	\$0	\$0
0.0%	\$0	\$0	\$0
43.2%	\$107	\$76	\$183
0.0%	\$0	\$0	\$0
43.2%	\$13,712	\$10,258	\$23,970
	¥ -)	· · · · · - ·	, -,
0.0%	\$0	\$0	\$0
43.2%	\$11,561	\$30,583	\$42,144
0.0%	\$0	\$0	\$0
0.0%	\$0	\$0	\$0
0.0%	\$0	\$0	\$0
0.0%	\$0	\$0	\$0
0.0%	\$0	\$0	\$0
43.2%	\$20,539	\$12,814	\$33,353
43.2%	\$24,800	\$17,639	\$42,439
0.0%	\$0	\$0	\$0
43.2%	\$17,887	\$9,898	\$27,784
43.2%	\$8,940	\$7,485	\$16,425
0.0%	\$0	\$0	\$0
43.2%	\$264,418	\$174,455	\$438,874
0.0%	\$0	\$0	\$0
43.2%	\$106,280	\$109,680	\$215,960
43.2%	\$2,496	\$1,576	\$4,073
0.0%	\$0	\$0	\$0
43.2%	\$4,834	\$2,576	\$7,410
0.0%	\$0	\$0	\$0
43.2%	\$4,698	\$3,324	\$8,021
0.0%	¢-1,000 \$0	¢0,024 \$0	\$0,021 \$0
43.2%	\$6,125	\$4,582	\$10,707
10.270	<i>\\</i> 0,120	ψ1,00 <u>2</u>	φ10,101
43.2%	\$2,776,075	\$2,554,298	\$5,330,374
	. , -,	, , 	, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
0.0%	\$0	\$0	\$0
7.3%	\$442	\$221	\$662
	·	•	· 1

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01	REACH 03 LANDS AND DAMAGES	\$3,252	\$1,626	50.0%	\$4,878	8.3%	\$3,521	\$1,761	\$5,282	\$0	\$5,282	7.3%	\$3,780	\$1,890	\$5,669
01	REACH 04 LANDS AND DAMAGES	\$57,493	\$28,747	50.0%	\$86,240	8.3%	\$62,251	\$31,126	\$93,377	\$0	\$93,377	7.3%	\$66,821	\$33,411	\$100,232
30	REACH 01 PLANNING, ENGINEERING &	\$3,910	\$2,191	56.0%	\$6,101	7.4%	\$4,200	\$2,353	\$6,553	\$0	\$6,553	11.3%	\$4,674	\$2,619	\$7,293
30	REACH 02 PLANNING, ENGINEERING &	\$184,522	\$103,378	56.0%	\$287,900	7.4%	\$198,180	\$111,030	\$309,210	\$0	\$309,210	11.3%	\$220,565	\$123,571	\$344,136
30	REACH 03 PLANNING, ENGINEERING &	\$23,212	\$13,004	56.0%	\$36,216	7.4%	\$24,930	\$13,967	\$38,897	\$0	\$38,897	11.3%	\$27,746	\$15,544	\$43,290
30	REACH 04 PLANNING, ENGINEERING &	\$43,420	\$24,326	56.0%	\$67,746	7.4%	\$46,634	\$26,127	\$72,761	\$0	\$72,761	11.3%	\$51,902	\$29,078	\$80,979
31	REACH 01 CONSTRUCTION MANAGEME	\$1,989	\$1,255	63.1%	\$3,245	7.4%	\$2,137	\$1,348	\$3,485	\$0	\$3,485	35.5%	\$2,895	\$1,826	\$4,721
31	REACH 02 CONSTRUCTION MANAGEME	\$93,880	\$59,227	63.1%	\$153,107	7.4%	\$100,828	\$63,611	\$164,440	\$0	\$164,440	35.5%	\$136,606	\$86,183	\$222,789
31	REACH 03 CONSTRUCTION MANAGEME	\$11,810	\$7,450	63.1%	\$19,260	7.4%	\$12,684	\$8,002	\$20,686	\$0	\$20,686	35.5%	\$17,184	\$10,841	\$28,026
31	REACH 04 CONSTRUCTION MANAGEME	\$22,091	\$13,937	63.1%	\$36,028	7.4%	\$23,726	\$14,968	\$38,695	\$0	\$38,695	35.5%	\$32,145	\$20,280	\$52,425
										I					
	PROJECT COST TOTALS:	\$2,235,887	\$1,902,264	85.1%	\$4,138,151		\$2,417,564	\$2,057,730	\$4,475,294	\$0	\$4,475,294	39.0%	\$3,340,834	\$2,879,762	\$6,220,596

CHIEF, COST ENGINEERING, xxx

PROJECT MANAGER, xxx

CHIEF, REAL ESTATE, xxx

CHIEF, PLANNING, xxx

CHIEF, ENGINEERING, xxx

CHIEF, OPERATIONS, xxx

CHIEF, CONSTRUCTION, XXX

CHIEF, CONTRACTING, xxx

CHIEF, PM-PB, xxxx

CHIEF, DPM, xxx

**** CONTRACT COST SUMMARY ****

SFWS PROJECT: LOCATION: San Francisco, CA This Estimate reflects the scope and schedule in report; Alternatives Analysis

DISTRICT: SWT POC: CHIEF, COST ENGINEERING, xxx

ESTIMATED TOTAL PROJECT COST:

\$6,220,596

Printed:12/22/2023

PREPARED:

DISTRICT: SWT

PROJECT: SFWS PROJECT NOP2 xxxxx LOCATION: San Francisco, CA

This Estimate reflects the scope and schedule in report;

Total Net Benefits Plan - SECOND ACTION INTERMEDIATE (SEISMIC and NON-SEISMIC)

Civil V	Works Work Breakdown Structure	ESTIMATED COST				PROJECT FIRST COST (Constant Dollar Basis)						TOTAL PROJECT COST (FULLY FUNDED)			
								Program Year Effective Pric		2026 1 OCT 25					
WBS	Civil Works	COST	CNTG	CNTG	TOTAL	ESC	COST	CNTG	TOTAL	Spent Thru: 1-Oct-22	TOTAL FIRST COST		COST	CNTG	FULL
NUMBER	Feature & Sub-Feature Description	<u>(\$K)</u>	<u>(\$K)</u>						(\$K)	<u>(\$K)</u>		<u>(%)</u>	<u>(\$K)</u>		
A	<u>Feature & Sub-Feature Description</u> B	<u>(\$K)</u> C	<u>(\$R)</u>	<u>(%)</u> E	<u>(\$K)</u> F	<u>(%)</u> G	<u>(\$K)</u> <i>H</i>	<u>(\$K)</u>	<u>(ər)</u> J	<u>(\pr\)</u>	<u>(\$K)</u> <i>K</i>	<u>(76)</u> L	<u>(\$R)</u> M	<u>(\$K)</u> N	<u>(\$K)</u> O
21	REACH 01 Alt B 2065	C	-	-	•	•		•	-			_			•
02	65 REACH 01 Demolition of Bldgs/Structur	\$63	\$45	70.7%	\$108	8.3%	\$69	\$49	\$117	\$0	\$117	172.1%	\$187	\$132	\$319
02	65 REACH 01 Floodproofing Structures	\$714	\$655	91.7%	\$1,369	8.3%	\$773	\$709	\$1,482	\$0		172.1%	\$2,104	\$1,929	\$4,033
	REACH 02 N/A				. ,		·	·			. ,		. ,	. ,	. ,
	REACH 03 Alt. D 2090														
02	90 Overall Utility Relocations	\$1,597	\$4,226	264.5%	\$5,823	8.3%	\$1,729	\$4,575	\$6,305	\$0	\$6,305	416.9%	\$8,940	\$23,651	\$32,591
02	90 REACH 03 Utility Relocations	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0	0.0%	\$0	\$0	\$0
02	90 REACH 03 Transportation Corridor	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0	0.0%	\$0	\$0	\$0
02	90 REACH 03 Bridge Replacement	\$128,162	\$190,309	148.5%	\$318,472	8.3%	\$138,769	\$206,059	\$344,828	\$0	\$344,828	416.9%	\$717,340	\$1,065,184	\$1,782,524
06	90 REACH 03 Plantings/EWN	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$C	\$0	0.0%	\$0	\$0	\$0
11	90 REACH 03 Berms/Fill	\$8,953	\$6,368	71.1%	\$15,322	8.3%	\$9,695	\$6,895	\$16,590	\$0	\$16,590	416.9%	\$50,114	\$35,643	\$85,757
10	90 REACH 03 Ground Improvement/DSM	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0	0.0%	\$0	\$0	\$0
10	90 REACH 03 Cantilever Walls/Pile Caps/	\$2,697	\$1,493	55.3%	\$4,190	8.3%	\$2,920	\$1,616	\$4,537	\$0	\$4,537	416.9%	\$15,097	\$8,354	\$23,451
11	90 REACH 03 Anchored Walls/T-Wall	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0	0.0%	\$0	\$0	\$0
10	90 REACH 03 Combi-Wall (Offshore)	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0	0.0%	\$0	\$0	\$0
10	90 REACH 03 Wharf Replacement	\$83,104	\$54,830	66.0%	\$137,934	8.3%	\$89,982	\$59,367	\$149,349	\$0	\$149,349	416.9%	\$465,142	\$306,887	\$772,029
10	90 REACH 03 Raise Piers	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0	0.0%	\$0	\$0	\$0
13	90 REACH 03 Pump Stations/Interior Drain	\$76,870	\$79,329	103.2%	\$156,199	8.3%	\$83,232	\$85,894	\$169,126	\$C	\$169,126	416.9%	\$430,250	\$444,013	\$874,263
10	90 REACH 03 Roller Gate/Vehicle Barriers	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0	0.0%	\$0	\$0	\$0
10	90 REACH 03 Large Gates/Closure Struct	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$C	\$0	0.0%	\$0	\$0	\$0
16	90 REACH 03 Armoring	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0	0.0%	\$0	\$0	\$0
02	90 REACH 03 Temp Raise/Relocate Repla	\$94,853	\$87,676	92.4%	\$182,529	8.3%	\$102,703	\$94,932	\$197,635	\$0	\$197,635	416.9%	\$530,904	\$490,731	\$1,021,635
02	90 REACH 03 Demolition of Bldgs/Structur	\$341	\$241	70.7%	\$582	8.3%	\$369	\$261	\$630	\$0	\$630	416.9%	\$1,908	\$1,350	\$3,258
02	90 REACH 03 Floodproofing Structures	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0	0.0%	\$0	\$0	\$0
ALL	90 REACH 03 Remaining Construction Iter	n \$6,211	\$4,647	74.8%	\$10,857	8.3%	\$6,725	\$5,031	\$11,756	\$0	\$11,756	416.9%	\$34,762	\$26,007	\$60,769
	REACH 04 Alt. D 2090														
02	90 Overall Utility Relocations	\$7,454	\$19,719	264.5%	\$27,173	8.3%	\$8,071	\$21,351	\$29,422	\$0	. ,	416.9%	\$41,721	\$110,371	\$152,092
02	90 REACH 04 Utility Relocations	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0		0.0%	\$0	\$0	\$0
02	90 REACH 04 Transportation Corridor	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0		0.0%	\$0	\$0	\$0
02	90 REACH 04 Bridge Replacement	\$72,949	\$108,322	148.5%	\$181,271	8.3%	\$78,986	\$117,287	\$196,273	\$0	. ,	416.9%	\$408,302	\$606,291	\$1,014,594
06	90 REACH 04 Plantings/EWN	\$7,149	\$4,460	62.4%	\$11,609	8.3%	\$7,741	\$4,829	\$12,570	\$0	. ,	416.9%	\$40,013	\$24,965	\$64,978
11	90 REACH 04 Berms/Fill	\$4,864	\$3,459	71.1%	\$8,323	8.3%	\$5,266	\$3,746	\$9,012	\$0		416.9%	\$27,223	\$19,363	\$46,586
10	90 REACH 04 Ground Improvement/DSM	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0	0.0%	\$0	\$0	\$0

PREPARED:

10	90 REACH 04 Cantilever Walls/Pile Caps/C	\$5,076	\$2,809	55.3%	\$7,884	8.3%	\$5,496	\$3,041	\$8,537	\$0	\$8,537	416.9%	\$28,409	\$15,720	\$44,129
11	90 REACH 04 Anchored Walls/T-Wall	\$2,482	\$2,000 \$2,078	83.7%	\$4,559	8.3%	\$2,687	\$2,250	\$4,936	\$0 \$0	\$4,936	416.9%	\$13,889	\$11,628	\$25,518
10	90 REACH 04 Combi-Wall (Offshore)	\$0	\$0 -	001170	¢ 1,000 \$0	-	\$0	\$ <u>2,2</u> 00	¢ 1,000 \$0	\$0 \$0	\$0	0.0%	¢10,000 \$0	\$0	\$0
10	90 REACH 04 Wharf Replacement	\$0	\$0 -		\$0 \$0	-	\$0 \$0	\$0	\$0	\$0 \$0	\$0	0.0%	\$0 \$0	\$0 \$0	\$0 \$0
10	90 REACH 04 Raise Piers	\$0	\$0 -		\$0 \$0	-	\$0 \$0	\$0	\$0 \$0	\$0	\$0 \$0	0.0%	\$0 \$0	\$0 \$0	\$0 \$0
13	90 REACH 04 Pump Stations/Interior Drain	\$201,326	\$207,766	103.2%	\$409,092	8.3%	\$217,988	\$224,961	\$442,949	\$0	\$442,949	416.9%	\$1,126,846	\$1,162,892	\$2,289,738
10	90 REACH 04 Roller Gate/Vehicle Barriers	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0	0.0%	\$0	\$0	\$0
10	90 REACH 04 Large Gates/Closure Structu	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0	0.0%	\$0	\$0	\$0
16	90 REACH 04 Armoring	\$525	\$280	53.3%	\$805	8.3%	\$569	\$303	\$872	\$0	\$872	416.9%	\$2,940	\$1,567	\$4,507
02	90 REACH 04 Temp Raise/Relocate Repla	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0	0.0%	\$0	\$0	\$0
02	90 REACH 04 Demolition of Bldgs/Structur	\$374	\$265	70.7%	\$639	8.3%	\$405	\$287	\$692	\$0	\$692	416.9%	\$2,094	\$1,481	\$3,575
02	90 REACH 04 Floodproofing Structures	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0	0.0%	\$0	\$0	\$0
ALL	90 REACH 04 Remaining Construction Item	\$2,920	\$2,185	74.8%	\$5,105	8.3%	\$3,162	\$2,366	\$5,528	\$0	\$5,528	416.9%	\$16,345	\$12,229	\$28,574
		· · · · · · · · · · · · · · · · · · ·		_		_		=				_		· · · · · · · · · · · · · · · · · · ·	
	CONSTRUCTION ESTIMATE TOTALS:	\$708,684	\$781,159		\$1,489,844	8.3%	\$767,336	\$845,809	\$1,613,145	\$0	\$1,613,145	416.7%	\$3,964,531	\$4,370,388	\$8,334,919
01	REACH 01 LANDS AND DAMAGES	\$0	\$0	50.0%	\$0	0.0%	\$0	\$0	\$0	\$0	\$0	0.0%	\$0	\$0	\$0
01	REACH 02 LANDS AND DAMAGES	\$0	\$0	50.0%	\$0	0.0%	\$0	\$0	\$0	\$0	\$0	0.0%	\$0	\$0	\$0
01	REACH 03 LANDS AND DAMAGES	\$2,302	\$1,151	50.0%	\$3,453	8.3%	\$2,493	\$1,246	\$3,739	\$0	\$3,739	270.3%	\$9,229	\$4,615	\$13,844
01	REACH 04 LANDS AND DAMAGES	\$5,414	\$2,707	50.0%	\$8,121	8.3%	\$5,862	\$2,931	\$8,793	\$0	\$8,793	270.3%	\$21,705	\$10,853	\$32,558
30		<i>Ф</i> (4)(4)	# 00	F0.0%	¢470	7 40/	\$110		¢400	* 0	¢400	00.00/	\$000	¢404	\$ 0.40
30	REACH 01 PLANNING, ENGINEERING & REACH 02 PLANNING, ENGINEERING &	\$111 ¢0	\$62 ¢0	56.0%	\$173 ¢0	7.4%	\$119 ¢0	\$67	\$186 ¢0	\$0 ¢0	\$186 ¢0	86.3%	\$222	\$124	\$346
		\$0 #F7 007	\$0 \$00.457	0.0%	\$0 \$00 554	-	\$0	\$0	\$0	\$0 \$0	\$0 #00.400	-	\$0 \$105.054	\$0	\$U #000.000
30 30	REACH 03 PLANNING, ENGINEERING &	\$57,397	\$32,157	56.0%	\$89,554	7.4%	\$61,646	\$34,537	\$96,183	\$0 \$0	\$96,183	201.2%	\$185,654	\$104,012	\$289,666
30	REACH 04 PLANNING, ENGINEERING &	\$43,479	\$24,359	56.0%	\$67,839	7.4%	\$46,697	\$26,162	\$72,860	\$0	\$72,860	201.2%	\$140,636	\$78,791	\$219,426
31	REACH 01 CONSTRUCTION MANAGEME	\$56	\$36	63.1%	\$92	7.4%	\$61	\$38	\$99	\$0	\$99	123.3%	\$135	\$85	\$220
31	REACH 02 CONSTRUCTION MANAGEME	\$0	\$0	0.0%	\$0	-	\$0	\$0	\$0	\$0	\$0	-	\$0	\$0	\$0
31	REACH 03 CONSTRUCTION MANAGEME	\$29,202	\$18,423	63.1%	\$47,625	7.4%	\$31,364	\$19,787	\$51,151	\$0	\$51,151	266.3%	\$114,877	\$72,474	\$187,351
31	REACH 04 CONSTRUCTION MANAGEME	\$22,121	\$13,956	63.1%	\$36,077	7.4%	\$23,758	\$14,989	\$38,747	\$0	\$38,747	266.3%	\$87,021	\$54,900	\$141,921
		#000 700	¢074.040	400.00/	¢4 740 770		#000 00F	045 500	¢4 004 004	<u>م</u> م	¢4.004.004	200.00/	¢4 504 040	¢4.000.040	¢0.000.050
	PROJECT COST TOTALS:	\$868,768	\$874,010	100.6%	\$1,742,778		\$939,335	\$945,566	\$1,884,901	\$0	\$1,884,901	389.2%	\$4,524,010	\$4,696,242	\$9,220,252

CHIEF, COST ENGINEERING, xxx

PROJECT MANAGER, xxx

CHIEF, REAL ESTATE, xxx

CHIEF, PLANNING, xxx

CHIEF, ENGINEERING, xxx

CHIEF, OPERATIONS, xxx

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ESTIMATED TOTAL PROJECT COST:

\$9,220,252

		CHIEF, CONSTRUCTION, xxx		
		CHIEF, CONTRACTING,xxx		
		CHIEF, PM-PB, xxxx		
		CHIEF, DPM, xxx		
		**** CONTRACT COST SUMMARY ****		
Т:	SFWS	DI	ISTRICT:	SWT

PROJECT LOCATION: San Francisco, CA This Estimate reflects the scope and schedule in report; Alternatives Analysis

POC: CHIEF, COST ENGINEERING, xxx

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PREPARED:

PROJECT: SFWS PROJECT NOP2 xxxxxx LOCATION: San Francisco, CA

This Estimate reflects the scope and schedule in report;

Total Net Benefits Plan - SECOND ACTION HIGH (NON-SEISMIC)

Civil W	Vorks Work Breakdown Structure		ESTIMATED	COST					CT FIRST COST nt Dollar Basis					. PROJECT COST LLY FUNDED)	
									· (Budget EC): ce Level Date:	2026 1 OCT 25	1				
										Spent Thru:	TOTAL				
WBS	Civil Works	COST	CNTG	CNTG	TOTAL	ESC	COST	CNTG	TOTAL	1-Oct-22	FIRST COST		COST	CNTG	FULL
NUMBER	Feature & Sub-Feature Description	<u>(\$K)</u>	<u>(\$K)</u>	<u>(%)</u> E	<u>(\$K)</u> <i>F</i>	<u>(%)</u>	<u>(\$K)</u>	<u>(\$K)</u>	<u>(\$K)</u>	<u>(\$K)</u>	<u>(\$K)</u>	<u>(%)</u>	<u>(\$K)</u>	<u>(\$K)</u>	<u>(\$K)</u>
Α	<i>B</i> REACH 01 Alt G 2040 & 2090	C	D	E	F	G	Н	1	J		K	L	М	N	0
02	40 Overall Structures Floodproofing Conc.	\$20,161	\$18,483	91.7%	\$38,644	8.3%	\$21,830	\$20,013	\$41,843	\$0	\$41,843	43.2%	\$31,269	\$28,666	\$59,935
02	40 Overall Utility Relocations	\$20,101 \$6,655	\$10,403 \$17,606	91.7% 264.5%	\$38,044 \$24,262	8.3%	¢21,630 \$7,206	\$20,013 \$19,064	\$41,043 \$26,270	\$0 \$0		43.2% 43.2%	\$31,209 \$10,322	\$20,000 \$27,307	\$37,629
02	40 Overall Structure Floodproofing	\$0,055 \$0	+ 000 \$17 - \$0	204.5%	\$24,202 \$0	0.370	¢7,200 \$0	\$19,004 \$0	\$20,270 \$0	\$0 \$0	\$20,270 \$0	43.2%	\$10,322 \$0	\$27,307 \$0	φ <u></u> 37,029 ¢0
10	40 Overall Sciucitie Floodprooming 40 Overall Seismic Ground Improvements	\$0 \$0	\$0 - \$0 -		\$0 \$0	-	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	·	0.0%	\$0 \$0	\$0 \$0	ው መ
02	40 REACH 01 Utility Relocations	\$0 \$0	\$0 - \$0 -		\$0 \$0	-	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0		0.0%	\$0 \$0	\$0 \$0	ው ው
02	40 REACH 01 Transportation Corridor	3 0 \$49,473	- _{\$0} - \$40,323	81.5%	ەن \$89,796	- 8.3%	₄₀ \$53,568	ەر \$43,660	پ و \$97,228	\$0 \$0	ەن \$97,228	43.2%	پ و \$76,730	\$62,539	\$0 \$139,269
02	40 REACH 01 Bridge Replacement	49,473 \$0	\$0 -	01.570	\$09,790 \$0	0.5 %	\$03,508 \$0	¢43,000 \$0	<i>پ</i> 97,220 \$0	\$0 \$0	\$97,220 \$0	43.2 <i>%</i>	\$70,730 \$0	\$02,359 \$0	φ139,209 ¢0
06	40 REACH 01 Plantings/EWN	\$0 \$0	\$0 - \$0 -		\$0 \$0	_	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0		0.0%	\$0 \$0	\$0 \$0	0¢ 02
11	40 REACH 01 Berms/Fill	\$3,800	- ₄₀ - \$2,703	71.1%	\$6,503	8.3%	φ0 \$4,115	پ 0 \$2,927	پ 0 \$7,042	\$0 \$0	پ 0 \$7,042	43.2%	\$5,894	\$4,192	\$10,086
10	40 REACH 01 Ground Improvement/DSM	\$125,688	\$192,586	153.2%	\$318,274	8.3%	\$136,090	\$208,524	\$344,614	\$0 \$0	\$344,614	43.2%	\$194,935	\$298,690	\$493,625
10	40 REACH 01 Cantilever Walls/Pile Caps/		\$35,625	55.3%	\$310,274 \$100,005	8.3%	\$69,708	\$200,524 \$38,574	\$108,282	\$0 \$0	\$344,014 \$108,282	43.2%	\$99,850	\$55,253	\$493,023 \$155,102
11	40 REACH 01 Anchored Walls/T-Wall	\$16,053	\$13,440	83.7%	\$29,493	8.3%	\$17,382	\$14,552	\$31,934	\$0 \$0		43.2%	\$99,000 \$24,897	\$20,845	\$45,742
10	40 REACH 01 Combi-Wall (Offshore)	\$0 \$0	\$13,440 \$0 -	00.770	¢29,493 \$0	-	\$0	φ14,332 \$0	\$01,954 \$0	\$0 \$0		0.0%	\$0\$°	\$0	φ+0,7 +2 \$0
10	40 REACH 01 Wharf Replacement	پر \$88,172	- ₄₀ - \$58,173	66.0%	پ 0 \$146,346	8.3%	₄₀ \$95,469	40 \$62,988	پن \$158,457	\$0 \$0	₄₀ \$158,457	43.2%	\$136,750	\$90,224	\$0 \$226,974
10	40 REACH 01 Raise Piers	\$00,172 \$0	400,170 \$0 -	00.070	\$0	-	φ33,403 \$0	φ02,300 \$0	φ130,437 \$0	\$0 \$0		0.0%	\$0	\$0	φ220,014 \$0
13	40 REACH 01 Pump Stations/Interior Drain	\$23,633	\$24,389	103.2%	\$48,022	8.3%	φ0 \$25,589	\$26,407	\$51,996	\$0 \$0		43.2%	\$36,653	\$37,826	\$74,479
10	40 REACH 01 Roller Gate/Vehicle Barriers	φ <u>2</u> 0,000 \$0	φ24,505 - \$0	100.270	φ - 0,022 \$0	-	φ20,000 \$0	φ20,407 \$0	¢01,000 \$0	\$0 \$0	\$0 \$0	0.0%	\$00,000 \$0	\$07,020 \$0	¢۲+,+۲9 ¢۱
10	40 REACH 01 Large Gates/Closure Structu	\$0	\$0 -		\$0 \$0	_	\$0 \$0	\$0	\$0	\$0	\$0 \$0	0.0%	\$0	\$0	\$0 \$0
16	40 REACH 01 Armoring	\$0	\$0 -		\$0	_	\$0 \$0	\$0	\$0 \$0	\$0	\$0 \$0	0.0%	\$0 \$0	\$0	\$0 \$0
02	40 REACH 01 Temp Raise/Relocate Repla	\$62,594	\$57,857	92.4%	\$120,451	8.3%	\$67,774	\$62,646	\$130,420	\$0	\$130,420	43.2%	\$97,079	\$89,733	\$186,813
02	40 REACH 01 Demolition of Bldgs/Structur	\$02,001 \$0	+007,007 - \$0	02.170	\$0	-	\$0	¢02,010 \$0	\$0	\$0	\$0	0.0%	\$0,,070 \$0	\$0	¢100,010 \$0
02	40 REACH 01 Floodproofing Structures	\$0	\$0 -		\$0	-	\$0 \$0	\$0	\$0	\$0	\$0	0.0%	\$0	\$0	\$0 \$0
ALL	40 REACH 01 Remaining Construction Iter	پې \$10,923	\$8,172	74.8%	\$19,095	8.3%	\$11,827	\$8,848	\$20,675	\$0		43.2%	\$16,941	\$12,674	\$29,616
02	90 Overall Utility Relocations	\$0	¢0,172 \$0 -		\$0	-	¢11,027 \$0	ψ0,040 \$0	\$20,070 \$0	\$0 \$0	\$0	0.0%	\$0	\$0	\$0. \$0
10	90 Overall Seismic Ground Improvements	\$0	\$0 -		\$0	-	\$0 \$0	\$0	\$0	\$0	\$0 \$0	0.0%	\$0	\$0	\$0 \$0
02	90 REACH 01 Utility Relocations	\$0	\$0 -		\$0	-	\$0	\$0	\$0 \$0	\$0	\$0	0.0%	\$0 \$0	\$0	90 0.8
02	90 REACH 01 Transportation Corridor	\$0	\$0 -		\$0	-	\$0 \$0	\$0	\$0	\$0	\$0	0.0%	\$0	\$0	\$0 \$0
02	90 REACH 01 Bridge Replacement	\$0	\$0 -		\$0	-	\$0 \$0	\$0	\$0 \$0	\$0		0.0%	\$0	\$0	\$0 \$0
06	90 REACH 01 Plantings/EWN	\$0	\$0 -		\$0	-	\$0 \$0	\$0	\$0	\$0	\$0 \$0	0.0%	\$0	\$0	\$0 \$0
11	90 REACH 01 Berms/Fill	\$2,160	\$1,536	71.1%	\$3,696	8.3%	\$2,338	\$1,663	\$4,001	\$0		416.9%	\$12,087	\$8,597	\$20,685
10	90 REACH 01 Ground Improvement/DSM	\$21,978	\$33,675	153.2%	\$55,653	8.3%	\$23,796	\$36,462	\$60,258	\$0 \$0		416.9%	\$123,011	\$188,483	\$311,494
10	90 REACH 01 Cantilever Walls/Pile Caps/		\$1,553	55.3%	\$4,360	8.3%	\$3,039	\$1,682	\$4,721	\$0 \$0		416.9%	\$15,712	\$8,694	\$24,406

DISTRICT: SWT POC: CHIEF, COST ENGINEERING, xxx

11		¢40.050	¢40,440	00 70/	\$00,400	0.00/	¢47.000		\$04.004	* 0	#04.004
11	90 REACH 01 Anchored Walls/T-Wall	\$16,053	\$13,440	83.7%	\$29,493	8.3%	\$17,382	\$14,552	\$31,934	\$0 \$0	\$31,934 ¢0
10	90 REACH 01 Combi-Wall (Offshore)	\$0 \$0	\$0 -		\$0 \$0	-	\$0 \$0	\$0 ¢0	\$0 \$0	\$0 \$0	\$0 ¢0
10	90 REACH 01 Wharf Replacement	\$0 \$0	\$0 -		\$0 \$0	-	\$0 \$0	\$0 ¢0	\$0 ¢0	\$0 \$0	\$0 ¢0
10	90 REACH 01 Raise Piers	\$0 \$0	\$0 -		\$0 \$0	-	\$0 \$0	\$0 ¢0	\$0 ¢0	\$0 \$0	\$0 \$0
13	90 REACH 01 Pump Stations/Interior Drain	\$0 \$0	\$0 -		\$0	-	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0
10	90 REACH 01 Roller Gate/Vehicle Barriers	\$0 \$0	\$0 -		\$0	-	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0
10	90 REACH 01 Large Gates/Closure Structu	\$0 \$0	\$0 -		\$0	-	\$0 \$0	\$0 \$0	\$0	\$0	\$0
16	90 REACH 01 Armoring	\$0 \$0	\$0 -		\$0	-	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0
02	90 REACH 01 Temp Raise/Relocate Repla	\$0 \$0	\$0 -		\$0	-	\$0 \$0	\$0	\$0 \$0	\$0	\$0
02	90 REACH 01 Demolition of Bldgs/Structur	\$0 \$0	\$0 -		\$0 \$0	-	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0
02	90 REACH 01 Floodproofing Structures	\$0	\$0 -	- 4 00/	\$0	-	\$0	\$0	\$0	\$0	\$0
ALL	90 REACH 01 Remaining Construction Item	\$3,376	\$2,526	74.8%	\$5,902	8.3%	\$3,656	\$2,735	\$6,391	\$0	\$6,391
02	REACH 02 Alt G 2090	* 0	*•		\$ 0		\$ 0	\$ 0	* 0	\$ 0	* 0
02	90 Overall Utility Relocations	\$0 \$0	\$0 -		\$0	-	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0
10	90 Overall Seismic Ground Improvements	\$0 \$0	\$0 -		\$0	-	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0
02	90 REACH 02 Utility Relocations	\$0 * 0	\$0 -		\$0	-	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0
02	90 REACH 02 Transportation Corridor	\$0 \$0	\$0 -		\$0 \$0	-	\$0 \$0	\$0 ¢0	\$0 ¢0	\$0 \$0	\$0 ¢0
02 06	90 REACH 02 Bridge Replacement	\$0 \$0	\$0 -		\$0 \$0	-	\$0 \$0	\$0 ¢0	\$0 ¢0	\$0 \$0	\$0 ¢0
11	90 REACH 02 Plantings/EWN	\$0 \$0	\$0 - \$0		\$0 \$0	-	\$0 \$0	\$0 ¢0	\$0 ¢0	\$0 \$0	\$0 ¢0
10	90 REACH 02 Berms/Fill	\$0 \$0	\$0 - ¢0		\$0 ¢0	-	\$0 \$0	\$0 ¢0	\$0 ¢0	\$0 ¢0	\$0 ¢0
10	90 REACH 02 Ground Improvement/DSM	\$0 ¢4 256	\$0 -	FF 20/	\$0 \$6 611	-	\$0 \$4 609	\$0 ¢0 550	\$0 ¢7.459	\$0 ¢0	\$0 ¢7.459
11	90 REACH 02 Cantilever Walls/Pile Caps/C 90 REACH 02 Anchored Walls/T-Wall	\$4,256 \$0	\$2,355 \$0 -	55.3%	\$6,611 ¢0	8.3%	\$4,608 \$0	\$2,550	\$7,158 \$0	\$0 \$0	\$7,158 ¢0
10			\$0 - \$0 -		\$0 \$0	-	\$0 ¢0	\$0 ¢0			\$0 ¢0
10	90 REACH 02 Combi-Wall (Offshore) 90 REACH 02 Wharf Replacement	\$0 \$0	\$0 - \$0 -		\$0 \$0	-	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0
10	90 REACH 02 What Replacement 90 REACH 02 Raise Piers	\$0 \$0	\$0 - \$0 -		\$0 \$0	-	\$0 \$0	\$0 \$0			
10		\$0 \$0	\$0 - \$0 -		\$0 \$0	-	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0
10	90 REACH 02 Pump Stations/Interior Drain 90 REACH 02 Roller Gate/Vehicle Barriers	\$0 \$0	\$0 - \$0 -		\$0 \$0	-	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0
10	90 REACH 02 Koller Gate/Vehicle Barriers 90 REACH 02 Large Gates/Closure Structu	\$0 \$0	\$0 - \$0 -		\$0 \$0	-	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0
16	90 REACH 02 Large Gates/Closure Structu 90 REACH 02 Armoring	\$0 \$0	\$0 - \$0 -		\$0 \$0	-	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0
02	90 REACH 02 Temp Raise/Relocate Repla	\$0 \$0	\$0 - \$0 -		\$0 \$0	-	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0
02	90 REACH 02 Demolition of Bldgs/Structur	\$0 \$0	\$0 - \$0 -		\$0 \$0	-	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0
02	90 REACH 02 Floodproofing Structures	\$0 \$0	\$0 - \$0 -		\$0 \$0	-	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0
ALL	90 REACH 02 Remaining Construction Item	\$0 \$0	\$0 - \$0 -		\$0 \$0	-	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0
	REACH 03 Alt. E 2040 & 2090	ψΟ	- Οφ		ψΟ	-	ψΟ	φυ	φυ	ψυ	ΨΟ
02	40 Overall Structures Floodproofing Conc.	\$17,789	\$16,309	91.7%	\$34,098	8.3%	\$19,262	\$17,658	\$36,920	\$0	\$36,920
02	40 Overall Utility Relocations	\$5,391	\$14,261	264.5%	\$19,652	8.3%	\$5,837	\$15,441	\$21,279	\$0 \$0	\$21,279
10	40 Overall Seismic Ground Improvements	\$0,001 \$0	¢14,201 \$0 -	204.070	\$0	-	¢0,007 \$0	φ10,-+1 \$0	\$0	\$0 \$0	\$0
10	40 Overall Seismic Transportation Corridor	\$0	\$0 -		\$0	-	\$0 \$0	\$0	\$0 \$0	\$0	\$0
02	40 REACH 03 Utility Relocations	\$0	\$0 -		\$0	-	\$0	\$0	\$0 \$0	\$0	\$0
02	40 REACH 03 Transportation Corridor	\$251,537	\$205,014	81.5%	\$456,551	8.3%	\$272,354	\$221,981	\$494,335	\$0	\$494,335
02	40 REACH 03 Bridge Replacement	\$0	\$0 -	0.1070	\$0	-	\$0	\$0	\$0	\$0	\$0
06	40 REACH 03 Plantings/EWN	\$45,929	\$28,655	62.4%	\$74,585	8.3%	\$49,730	\$31,027	\$80,757	\$0	\$80,757
11	40 REACH 03 Berms/Fill	\$71,154	\$50,608	71.1%	\$121,762	8.3%	\$77,043	\$54,797	\$131,840	\$0	\$131,840
10	40 REACH 03 Ground Improvement/DSM	\$184,587	\$282,833	153.2%	\$467,419	8.3%	\$199,863	\$306,240	\$506,102	\$0	\$506,102
10	40 REACH 03 Cantilever Walls/Pile Caps/C	\$12,896	\$7,136	55.3%	\$20,032	8.3%	\$13,963	\$7,726	\$21,689	\$0	\$21,689
11	40 REACH 03 Anchored Walls/T-Wall	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0
10	40 REACH 03 Combi-Wall (Offshore)	\$637,116	\$673,305	105.7%	\$1,310,421	8.3%	\$689,843	\$729,027	\$1,418,870	\$0	
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			·
416.9%	\$89,851	\$75,225	\$165,076
0.0%	\$0	\$0	\$0
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0.0%	\$0	\$0	\$0
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0.0%	\$0	\$0	\$0
0.0%	\$0	\$0	\$0
0.0%	\$0	\$0	\$0
416.9%	\$18,898	\$14,139	\$33,037
0.0%	\$0	\$0	\$0
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416.9%	\$23,822	\$13,182	\$37,004
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43.2%	\$27,590	\$25,294	\$52,884
43.2%	\$8,361	\$22,118	\$30,479
0.0%	ψ0,001 \$0	φ <u>22</u> ,110 \$0	\$00,473 \$0
0.0%	\$0 \$0	\$0 \$0	\$0 \$0
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43.2%	\$390,119	\$317,965	\$708,084
0.0%	\$0000,110 \$0	\$0 \$0	\$0
43.2%	\$71,234	\$44,443	\$115,677
43.2%	\$110,355	\$78,490	\$188,846
43.2%	\$286,283	\$438,657	\$724,941
43.2%	\$20,000	\$11,067	\$31,068
0.0%	\$0	\$0 \$0	¢01,000 \$0
43.2%	\$988,131	\$1,044,257	\$2,032,388
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13 40 REACH 33 Pump Statementment Orang \$1134, 422 \$138, 754 \$212, 823 \$375 \$340, 643, 623 \$150, 222 \$226, 506 \$30 \$30 \$30, 651, 053 \$313, 108 \$30 \$33, 653, 053 \$313, 108 \$30 \$31, 318 \$30 \$31, 318 \$30 \$31, 318 \$30 \$31, 318 \$30 \$31, 318 \$30 \$31, 318 \$30 \$31, 318 \$30 \$31, 318 \$30 \$31, 318 \$30 \$31, 318 \$30 \$31, 318 \$30 \$31, 318 \$30 \$31, 318 \$30 \$31, 318 \$30 \$31, 318 \$30 \$31, 318 \$30 \$30 \$30 \$30 \$30 \$30 \$30 \$30 \$30 \$30 \$30 \$30 \$30 \$30 \$30 \$31, 30 \$30 </th <th>10</th> <th>40 REACH 03 Wharf Replacement</th> <th>\$229,936</th> <th>\$151,705</th> <th>66.0%</th> <th>\$381,641</th> <th>8.3%</th> <th>\$248,965</th> <th>\$164,260</th> <th>\$413,225</th> <th>\$0 \$0</th> <th>\$413,225</th>	10	40 REACH 03 Wharf Replacement	\$229,936	\$151,705	66.0%	\$381,641	8.3%	\$248,965	\$164,260	\$413,225	\$0 \$0	\$413,225
10 40 REACH 03 Ruler Galer-Value Barrier 57.06 9.47.14 63.16 8.3% 55.05 51.18 80 51.18 0 0 REACH 03 Auroning 50			•		(•		-		•		-
10 40 REACH 30 Large Gase/Classer Strice 50 50 50 50 50 50 16 40 REACH 33 Temp Rais/Relocate Rept \$200.369 \$240.667 70.74 \$1.68 \$38, \$31.916 \$220.565 \$542.202 \$30 \$512.502 \$30 \$57.44 \$57.64		•										
16 40 REACH 30 Amountage 50 </th <th></th> <th></th> <th></th> <th></th> <th>63.1%</th> <th></th> <th>8.3%</th> <th></th> <th></th> <th></th> <th></th> <th></th>					63.1%		8.3%					
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00 00 00 00 0 0 0 0 00		-			264.5%		8.3%					
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11 90 REACH 03 Anchored Walls/T-Wall \$0		-	-				-					
10 90 REACH 03 Combi-Wall (Offshore) \$0 \$0 \$0 \$0 \$0 \$0 \$229,396 \$151,348 \$66.0% \$380,744 \$243,380 \$163,874 \$412,254 \$0 \$412,254 10 90 REACH 03 Ruise Piers \$0 <th></th> <th></th> <th>-</th> <th>-</th> <th></th> <th></th> <th>-</th> <th>1 -</th> <th></th> <th>-</th> <th></th> <th></th>			-	-			-	1 -		-		
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10 90 REACH 03 Roller Gate/Vehicle Barriers \$0 <th></th> <th></th> <th></th> <th>-</th> <th></th> <th></th> <th>-</th> <th></th> <th></th> <th></th> <th></th> <th></th>				-			-					
10 90 REACH 03 Large Gates/Closure Struct \$0 <th></th> <th>-</th> <th></th> <th></th> <th></th> <th></th> <th>-</th> <th></th> <th></th> <th></th> <th></th> <th></th>		-					-					
16 90 REACH 03 Armoring \$0 <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th>-</th> <th>-</th> <th>-</th> <th></th> <th></th> <th></th>							-	-	-			
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02 40 Overall Structures Floodproofing Conc. \$0 \$0 - \$0 \$0 \$0 \$0 02 40 Overall Utility Relocations \$111,181 \$29,579 264.5% \$40,760 8.3% \$12,106 \$32,027 \$44,133 \$0 \$44,133 10 40 Overall Seismic Ground Improvements \$0 \$0 - \$00 - \$0	ALL	-	\$21,505	\$16,089	74.8%	\$37,594	8.3%	\$23,285	\$17,420	\$40,705	\$0	\$40,705
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1040 REACH 04 Raise Piers\$0\$0\$0\$0\$0\$0\$01340 REACH 04 Pump Stations/Interior Drain\$258,827\$267,106103.2%\$525,9328.3%\$280,248\$289,212\$569,460\$0\$569,460		. , ,	-			•	-	-		•		
13 40 REACH 04 Pump Stations/Interior Drain \$258,827 \$267,106 103.2% \$525,932 8.3% \$280,248 \$289,212 \$569,460 \$0 \$569,460					66.0%		8.3%					
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10 40 REACH 04 Roller Gate/Vehicle Barriers \$2,099 \$1,326 63.1% \$3,425 8.3% \$2,273 \$1,435 \$3,709 \$0 \$0 \$3,709 \$0 \$0 \$3,709 \$0 </th <th></th> <th>•</th> <th></th>		•										
	10	40 REACH 04 Roller Gate/Vehicle Barriers	\$2,099	\$1,326	63.1%	\$3,425	8.3%	\$2,273	\$1,435	\$3,709	\$0	\$3,709

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\$591,903	\$235,286	\$356,618	43.2%
\$0	\$0	\$0	0.0%
\$423,853	\$215,263	\$208,590	43.2%
\$18,891	\$7,312	\$11,579	43.2%
\$0	\$0	\$0	0.0%
\$0	\$0	\$0	0.0%
\$777,079	\$373,261	\$403,818	43.2%
\$2,571	\$1,065	\$1,506	43.2%
\$0	\$0	\$0	0.0%
\$35,521	\$15,202	\$20,319	43.2%
\$48,887	\$35,476	\$13,410	416.9%
\$0	\$0	\$0	0.0%
\$0	\$0	\$0	0.0%
\$1,782,524	\$1,065,184	\$717,340	416.9%
\$0	\$0	\$0	0.0%
\$207,797	\$86,367	\$121,430	416.9%
\$0	\$0	\$0	0.0%
\$0	\$0	\$0	0.0%
\$0	\$0	\$0	0.0%
\$0	\$0	\$0	0.0%
\$2,131,066	\$847,113	\$1,283,953	416.9%
\$0	\$0	\$0	0.0%
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\$210,418	\$90,052	\$120,366	416.9%
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\$63,216	\$45,875	\$17,341 دم	43.2%
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\$0	\$0 \$0	\$0 \$0	0.0%
\$0	\$0 \$0	\$0 \$0	0.0%
\$0	\$0 \$04.074	\$0	0.0%
\$64,993	\$24,971	\$40,023	43.2%
\$207,582	\$86,278	\$121,304	43.2%
\$0	\$0	\$0	0.0%
\$550,915	\$196,254	\$354,660	43.2%
\$0	\$0	\$0	0.0%
\$0	\$0	\$0	0.0%
\$1,877,103	\$746,161	\$1,130,942	43.2%
	\$0	\$0	0.0%
\$0	φΟ	ψu	
\$0 \$815,692 \$5,312	\$0 \$414,267	\$401,426	43.2%

10	40 REACH 04 Large Gates/Closure Struct	\$0	\$0 -		\$0		\$0	\$0	\$0	\$0	\$0	0.0%	\$0	\$0	\$0
16	40 REACH 04 Armoring	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0	0.0%	\$0	\$0	\$0
02	40 REACH 04 Temp Raise/Relocate Repla	\$538,562	\$497,809	92.4%	\$1,036,371	8.3%	\$583,134	\$539,008	\$1,122,141	\$0	\$1,122,141	43.2%	\$835,279	\$772,073	\$1,607,352
02	40 REACH 04 Demolition of Bldgs/Structur	\$1,326	\$938	70.7%	\$2,264	8.3%	\$1,435	\$1,016	\$2,451	\$0	\$2,451	43.2%	\$2,056	\$1,455	\$3,511
02	40 REACH 04 Floodproofing Structures	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0	0.0%	\$0	\$0	\$0
ALL	40 REACH 04 Remaining Construction Item	\$20,564	\$15,385	74.8%	\$35,948	8.3%	\$22,265	\$16,658	\$38,923	\$0	\$38,923	43.2%	\$31,893	\$23,861	\$55,754
10	90 Overall Utility Relocations	\$11,181	\$29,579	264.5%	\$40,760	8.3%	\$12,106	\$32,027	\$44,133	\$0	\$44,133	416.9%	\$62,582	\$165,556	\$228,138
02	90 REACH 04 Utility Relocations	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0	0.0%	\$0	\$0	\$0
02	90 REACH 04 Transportation Corridor	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0	0.0%	\$0	\$0	\$0
02	90 REACH 04 Bridge Replacement	\$72,949	\$108,322	148.5%	\$181,271	8.3%	\$78,986	\$117,287	\$196,273	\$0	\$196,273	416.9%	\$408,302	\$606,291	\$1,014,594
06	90 REACH 04 Plantings/EWN	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0	0.0%	\$0	\$0	\$0
11	90 REACH 04 Berms/Fill	\$16,620	\$11,821	71.1%	\$28,442	8.3%	\$17,996	\$12,800	\$30,795	\$0	\$30,795	416.9%	\$93,026	\$66,165	\$159,190
10	90 REACH 04 Ground Improvement/DSM	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0	0.0%	\$0	\$0	\$0
10	90 REACH 04 Cantilever Walls/Pile Caps/C	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0	0.0%	\$0	\$0	\$0
11	90 REACH 04 Anchored Walls/T-Wall	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0	0.0%	\$0	\$0	\$0
10	90 REACH 04 Combi-Wall (Offshore)	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0	0.0%	\$0	\$0	\$0
10	90 REACH 04 Wharf Replacement	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0	0.0%	\$0	\$0	\$0
10	90 REACH 04 Raise Piers	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0	0.0%	\$0	\$0	\$0
13	90 REACH 04 Pump Stations/Interior Drain	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0	0.0%	\$0	\$0	\$0
10	90 REACH 04 Roller Gate/Vehicle Barriers	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0	0.0%	\$0	\$0	\$0
10	90 REACH 04 Large Gates/Closure Struct	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0	0.0%	\$0	\$0	\$0
16	90 REACH 04 Armoring	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0	0.0%	\$0	\$0	\$0
02	90 REACH 04 Temp Raise/Relocate Repla	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0	0.0%	\$0	\$0	\$0
02	90 REACH 04 Demolition of Bldgs/Structur	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0	0.0%	\$0	\$0	\$0
02	90 REACH 04 Floodproofing Structures	\$0	\$0 -		\$0	-	\$0	\$0	\$0	\$0	\$0	0.0%	\$0	\$0	\$0
ALL	90 REACH 04 Remaining Construction Item	\$131,554	\$98,422	74.8%	\$229,976	8.3%	\$142,442	\$106,568	\$249,010	\$0	\$249,010	416.9%	\$736,326	\$550,882	\$1,287,209
	CONSTRUCTION ESTIMATE TOTALS:	\$4,924,803	\$4,468,106	-	\$9,392,909	8.3%	\$5,332,379	\$4,837,887	\$10,170,267	\$0	\$10,170,267	97.7%	\$10,414,121	\$9,692,287	\$20,106,408
01	LANDS AND DAMAGES	\$54,255	\$27,128	50.0%	\$81,383	8.3%	\$58,745	\$29,373	\$88,118	\$0	\$88,118	270.3%	\$217,515	\$108,758	\$326,273
30	REACH 01 PLANNING, ENGINEERING &	\$73,802	\$41,347	56.0%	\$115,149	7.4%	\$79,264	\$44,408	\$123,672	\$0	\$123,672	201.2%	\$238,715	\$133,739	\$372,454
30	REACH 02 PLANNING, ENGINEERING &	\$607	\$340	56.0%	\$946	7.4%	\$651	\$365	\$1,016	\$0	\$1,016	201.2%	\$1,962	\$1,099	\$3,061
30	REACH 03 PLANNING, ENGINEERING &	\$324,314	\$181,696	56.0%	\$506,010	7.4%	\$348,318	\$195,144	\$543,463	\$0	\$543,463	201.2%	\$1,049,006	\$587,703	\$1,636,709
30	REACH 04 PLANNING, ENGINEERING &	\$303,062	\$169,790	56.0%	\$472,852	7.4%	\$325,493	\$182,357	\$507,850	\$0	\$507,850	201.2%	\$980,266	\$549,191	\$1,529,457
31	REACH 01 CONSTRUCTION MANAGEME	\$37,548	\$23,689	63.1%	\$61,237	7.4%	\$40,327	\$25,442	\$65,770	\$0	\$65,770	266.3%	\$147,709	\$93,188	\$240,897
31	REACH 02 CONSTRUCTION MANAGEME	\$309	\$195	63.1%	\$503	7.4%	\$331	\$209	\$540	\$0	\$540	266.3%	\$1,214	\$766	\$1,980
31	REACH 03 CONSTRUCTION MANAGEME	\$165,002	\$104,097	63.1%	\$269,099	7.4%	\$177,215	\$111,802	\$289,017	\$0	\$289,017	266.3%	\$649,092	\$409,504	\$1,058,596
31	REACH 04 CONSTRUCTION MANAGEME	\$154,189	\$97,276	63.1%	\$251,466	7.4%	\$165,602	\$104,476	\$270,078	\$0	\$270,078	266.3%	\$606,558	\$382,669	\$989,227
	PROJECT COST TOTALS:	\$6,037,890	\$5,113,664	84.7%	\$11,151,554		\$6,528,328	\$5,531,463	\$12,059,791	\$0	\$12,059,791	117.8%	\$14,306,158	\$11,958,904	\$26,265,061
		CHIEF, CO	OST ENGIN	IEERING	G. xxx										

PROJECT MANAGER, xxx

ESTIMATED TOTAL PROJECT COST:

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\$26,265,061

		_ CHIEF, REAL ESTATE, xxx		
		_ CHIEF, PLANNING, xxx		
		CHIEF, ENGINEERING, xxx		
		CHIEF, OPERATIONS, xxx		
		_ CHIEF, CONSTRUCTION, xxx		
		_ CHIEF, CONTRACTING,xxx		
-		_ CHIEF, PM-PB, xxxx		
-		_ CHIEF, DPM, xxx		
		**** CONTRACT COST SUMMARY ****		
LOCATION:	SFWS San Francisco, CA ects the scope and schedule in report;	Alternatives Analysis	DISTRICT: POC:	SWT CHIEF, COST ENGINEERI

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ING, xxx

PREPARED:

Abbreviated Risk Analysis

Project (less than \$40M): San Francisco Waterfront Study Project Development Stage/Alternative: Alternative Formulation Risk Category: High Risk: Complex Project or Unique Type Construction

Alternative: All

Meeting Date: 5/30/2023

Total Estimated Construction Contract Cost = \$ 19

CWWBS	Feature of Work	<u>Estima</u>	ted Cost	% Contingency	\$ Conting	ency	Total
01 LANDS AND DAMAGES	Real Estate	\$	1	25%	\$	0 \$	
1 02 RELOCATIONS	Utility Relocations	\$	1	265%	\$	3 \$	
2 02 01 ROADS, Construction Activities	Transportation Corridor	\$	1	82%	\$	1 \$	
3 02 01 ROADS, Construction Activities	Bridge Replacement	\$	1	148%	\$	1 \$	
4 06 03 WILDLIFE FACILITIES AND SANCTUARIES	Plantings/EWN	\$	1	62%	\$	1 \$	
5 11 01 LEVEES	Berms/Fill	\$	1	71%	\$	1 \$	
6 11 01 LEVEES	Deep Soil Mixing	\$	1	153%	\$	2 \$	
7 11 02 FLOODWALLS	Cantilever walls/Pile Caps	\$	1	55%	\$	1 \$	
8 11 02 FLOODWALLS	Anchored Walls	\$	1	84%	\$	1 \$	
9 11 02 FLOODWALLS	Combi-Wall (Offshore)	\$	1	106%	\$	1 \$	
10 12 02 HARBORS	Wharf Replacement	\$	1	66%	\$	1 \$	
11 12 02 HARBORS	Raise Piers	\$	1	63%	\$	1 \$	
2 13 PUMPING PLANT	Pump Stations/Interior Drainage	\$	1	103%	\$	1 \$	
13 15 FLOODWAY CONTROL AND DIVERSION STRUCTURES	Roller Gate/Vehicle Barriers	\$	1	63%	\$	1 \$	
4 15 FLOODWAY CONTROL AND DIVERSION STRUCTURES	Large Gates/Closure Structures	\$	1	126%	\$	1 \$	
5 16 BANK STABILIZATION	Armoring	\$	1	53%	\$	1 \$	
6 19 BUILDINGS, GROUNDS, AND UTILITIES	Temp Raising/Relocate/Replace Buildings	\$	1	92%	\$	1 \$	
7 19 BUILDINGS, GROUNDS, AND UTILITIES	Demolition of Bldgs/Structures	\$	1	71%	\$	1 \$	
18 19 BUILDINGS, GROUNDS, AND UTILITIES	Floodproofing of Structures	\$	1	92%	\$	1 \$	
9 All Other	Remaining Construction Items	\$	1 5.69	6 75%	\$	1 \$	
20 30 PLANNING, ENGINEERING, AND DESIGN	Planning, Engineering, & Design	\$	1	56%	\$	1 \$	
21 31 CONSTRUCTION MANAGEMENT	Construction Management	\$	1	63%	\$	1 \$	
X FIXED DOLLAR RISK ADD (EQUALLY DISPERSED TO ALL, MU	ST INCLUDE JUSTIFICATION SEE BELOW)				\$	-	

	Totals					
	Real Estate \$	1	25%	\$	0 \$	1.25
	Total Construction Estimate \$	19	96%	\$	18 \$	37
	Total Planning, Engineering & Design \$	1	56%	\$	1 \$	2
	Total Construction Management \$	1	63%	\$	1 \$	2
	Total Excluding Real Estate \$	21	93%	\$	19 \$	40
			Ba	se	50%	80%
	Confidence Level	Range Estimate (\$000's)		\$k	\$k	\$k
				* 50% based	on base is at 5% CL.	
Fixed Dollar Risk Add: (Allows for additional risk to						
be added to the risk analsyis. Must include						
justification. Does not allocate to Real Estate.						

San Francisco Waterfront Study All

Alternative Formulation Abbreviated Risk Analysis Meeting Date: 30-May-23



Risk Register

Project Ma	anagement & Scope Growth			Maximum Proje	ct Growth	200%
PS-1	Utility Relocations	 Potential for scope growth, added features? Project accomplishes intent? Funding Difficulties? Sufficent Staffing/Support? 	Each alternative has plug numbers assigned, but there is no scope known. The amounts included have been roughly discussed but are essentially SWAGs.	Significant	Very LIKELY	5
PS-2	Transportation Corridor		Scope for corridor work is based on some previous work and all construction elements seem to be included. Some possibility for additinoal scope but impact would only be marginal. Certain alternatives will have additional work required for temp trolley detours but that work is being added into the estimate for each affected alternative.	Marginal	Possible	1
PS-3	Bridge Replacement		Some of the alternatives will need some additional work that will be added into the cost estimate. Some of the bridges are historic and may require additional efforts.	Moderate	Very LIKELY	4
PS-4	Plantings/EWN		There have been some preliminary designs for these features and they have been priced out accordingly in some detail. Areas of construction seem to be pretty well defined.	Marginal	Possible	1
PS-5	Berms/Fill		Assumptions for water levels were a bit conservative. Hydrology still uncertain and modeling could come back with different design brights	Moderate	Possible	2
PS-6	Deep Soil Mixing		Cost information based on similar work but overall scope of DSM is still fairly uncertain.	Significant	Likely	4
PS-7	Cantilever walls/Pile Caps		Fairly detailed scope for these walls, length/area well known.	Marginal	Possible	1
PS-8	Anchored Walls		Lengths of walls should be good, tieback design/type still unknown.	Moderate	Likely	3
PS-9	Combi-Wall (Offshore)		Based on previous similar designs. Could be some growth but overall scope is not unreasonable.	Moderate	Likely	3
PS-10	Wharf Replacement		Based on scope to rebuild; includes additional effort in estimate to cover unknowns.	Marginal	Possible	1
PS-11	Raise Piers		Based on scope to rebuild; includes additional effort in estimate to cover unknowns.	Marginal	Possible	1
PS-12	Pump Stations/Interior Drainage		Designs for Pump Stations based on CFS; likely to change over design period	Moderate	Likely	3
PS-13	Roller Gate/Vehicle Barriers			Moderate	Possible	2
PS-14	Large Gates/Closure Structures		Based on sector gate estimate; scope could be slightly consevrative so reduce potential impact down to moderate.	Moderate	Likely	3

PS-15	Armoring		Marginal	Possible	1
PS-16	Temp Raising/Relocate/Replace Buildings	Uncertainty about what exactly will be done to temporarily move the structures on the piers/wharves.	Moderate	Likely	3
PS-17	Demolition of Bldgs/Structures	Bldgs/structures measured in Google Earth; could potentially change as alignments change.	Moderate	Possible	2
PS-18	Floodproofing of Structures	Bldgs/structures measured in Google Earth; could potentially change as alignments change.	Significant	Possible	3
PS-19	Remaining Construction Items		Marginal	Possible	1
PS-20	Planning, Engineering, & Design	PED Currently being estimated based on a %; post-meeting, this will be revised based on a sliding scale to more accurately reflect the estimated labor effort. Assume some variance in	Marginal	Possible	1
PS-21	Construction Management	this will be revised based on a sliding scale to more accurately reflect the estimated labor effort. Assume some variance in 28 A comparison of the set	Marginal	Possible	1
Acquisitio	n Strategy		Maximum Proje	ct Growth	30%
AS-1	Utility Relocations	This risk is moderate impact and very likely to occur due to possibility of multiple contracts, where the cost estimate assumes one contract.	Moderate	Very LIKELY	4
AS-2	Transportation Corridor		Moderate	Very LIKELY	4
AS-3	Bridge Replacement		Moderate	Very LIKELY	4
AS-4	Plantings/EWN		Moderate	Very LIKELY	4
AS-5	Berms/Fill		Moderate	Very LIKELY	4
AS-6	Deep Soil Mixing		Moderate	Very LIKELY	4
AS-7	Cantilever walls/Pile Caps		Moderate	Very LIKELY	4
AS-8	Anchored Walls		Moderate	Very LIKELY	4
AS-9	Combi-Wall (Offshore)		Moderate	Very LIKELY	4
AS-10	Wharf Replacement		Moderate	Very LIKELY	4
AS-11	Raise Piers		Moderate	Very LIKELY	4
AS-12	Pump Stations/Interior Drainage		Moderate	Very LIKELY	4
AS-13	Roller Gate/Vehicle Barriers		Moderate	Very LIKELY	4

AS-14 L	Large Gates/Closure Structures		Moderate	Very LIKELY	4
AS-15 A	Armoring		Moderate	Very LIKELY	4
AS-16 T	Temp Raising/Relocate/Replace Buildings		Moderate	Very LIKELY	4
AS-17 D	Demolition of Bldgs/Structures		Moderate	Very LIKELY	4
AS-18 F	Floodproofing of Structures		Moderate	Very LIKELY	4
AS-19 R	Remaining Construction Items		Moderate	Very LIKELY	4
AS-20 P	Planning, Engineering, & Design		Moderate	Very LIKELY	4
AS-21 C	Construction Management		Moderate	Very LIKELY	4
Constructio	on Elements		Maximum Proje	ct Growth	50%
CON-1 U	Utility Relocations	Once utility companies are contracted to relocate everything, shouldn't be a whole lot of cost growth. Possible that there will be unknown utilities that are uncovered during construction and could incur additional cost and/or schedule.	Moderate	Possible	2
CE-2 T	Transportation Corridor		Marginal	Possible	1
CE-3 B	Bridge Replacement		Moderate	Likely	3
CE-4 P	Plantings/EWN		Marginal	Possible	1
CE-5 B	Berms/Fill		Marginal	Possible	1
CE-6 D	Deep Soil Mixing		Significant	Likely	4
CE-7 C	Cantilever walls/Pile Caps		Marginal	Possible	1
CE-8 A	Anchored Walls		Marginal	Likely	2
CE-9 C	Combi-Wall (Offshore)		Moderate	Likely	3
CE-10 W	Wharf Replacement		Moderate	Likely	3
CE-11 R	Raise Piers		Moderate	Possible	2

CE-13	Roller Gate/Vehicle Barriers		Marginal	Possible	1
CE-14	Large Gates/Closure Structures		Moderate	Likely	3
CE-15	Armoring		Marginal	Possible	1
CE-16	Temp Raising/Relocate/Replace Buildings		Moderate	Likely	3
CE-17	Demolition of Bldgs/Structures		Marginal	Possible	1
CE-18	Floodproofing of Structures		Marginal	Possible	1
CE-19	Remaining Construction Items		Marginal	Possible	1
CE-20	Planning, Engineering, & Design		Negligible	Unlikely	0
CE-21	Construction Management		Moderate	Possible	2
Specialty (v Construction or Fabrication Maximum Project Growth				75%
SC-1	Utility Relocations		Negligible	Unlikely	0
SC-2	Transportation Corridor		Moderate	Likely	3
SC-3	Bridge Replacement		Moderate	Possible	2
SC-4	Plantings/EWN		Negligible	Unlikely	0
SC-5	Berms/Fill	Some risk based on availibility of the quantity of fill required	Moderate	Possible	2
SC-6	Deep Soil Mixing	Some risk based on availibility of the quantity of cementious material required	Moderate	Possible	2
SC-7	Cantilever walls/Pile Caps		Negligible	Unlikely	0
SC-8	Anchored Walls		Marginal	Possible	1
SC-9	Combi-Wall (Offshore)		Moderate	Likely	3
SC-10	Wharf Replacement		Marginal	Possible	1
SC-11	Raise Piers		Marginal	Possible	1

SC-12	Pump Stations/Interior Drainage	Moderate	Possible	2
SC-13	Roller Gate/Vehicle Barriers	Marginal	Possible	1
SC-14	Large Gates/Closure Structures	Significant	Likely	4
SC-15	Armoring	Marginal	Possible	1
SC-16	Temp Raising/Relocate/Replace Buildings	Marginal	Possible	1
SC-17	Demolition of Bldgs/Structures	Marginal	Possible	1
SC-18	Floodproofing of Structures	Marginal	Possible	1
SC-19	Remaining Construction Items	Negligible	Unlikely	0
SC-20	Planning, Engineering, & Design	Negligible	Unlikely	0
SC-21	Construction Management	Negligible	Unlikely	0
Technical	Design & Quantities Maximum Project Growth		ect Growth	40%
	Utility Relocations	Marginal	Very LIKELY	3
T-2	Utility Relocations Transportation Corridor	Marginal	Possible	2
T-2	Transportation Corridor	Moderate	Possible	2
T-2 T-3	Transportation Corridor Image: Corridor Bridge Replacement Image: Corridor	Moderate	Possible	2
T-2 T-3 T-4	Transportation Corridor Image: Corridor Bridge Replacement Image: Corridor Plantings/EWN Image: Corridor	Moderate Moderate Moderate	Possible Possible Likely	2 2 3
T-2 T-3 T-4 T-5	Transportation Corridor Image: Corridor Bridge Replacement Image: Corridor Plantings/EWN Image: Corridor Berms/Fill Image: Corridor Marcine Corridor Image: Corridor	Moderate Moderate Moderate Moderate	Possible Possible Likely Possible	2 2 3 2
T-2 T-3 T-4 T-5 T-6	Transportation Corridor Image: Corridor Bridge Replacement Image: Corridor Plantings/EWN Image: Corridor Berms/Fill Image: Corridor Deep Soil Mixing Image: Corridor Image: Corridor Image: Corridor	Moderate Moderate Moderate Moderate Marginal	Possible Possible Likely Likely Likely	2 2 3 2 2 2
T-2 T-3 T-4 T-5 T-6 T-7	Transportation Corridor Image: Corridor Bridge Replacement Image: Corridor Plantings/EWN Image: Corridor Berms/Fill Image: Corridor Deep Soil Mixing Image: Corridor Cantilever walls/Pile Caps Image: Corridor	Moderate Moderate Moderate Moderate Moderate Moderate Marginal Marginal	Possible Possible Likely Possible Likely Possible Possible	2 2 3 2 2 2 1

				1
T-11	Raise Piers	Marginal	Possible	1
T-12	Pump Stations/Interior Drainage	Moderate	Possible	2
T-13	Roller Gate/Vehicle Barriers	Marginal	Possible	1
T-14	Large Gates/Closure Structures	Marginal	Possible	1
T-15	Armoring	Marginal	Possible	1
T-16	Temp Raising/Relocate/Replace Buildings	Marginal	Possible	1
T-17	Demolition of Bldgs/Structures	Marginal	Likely	2
T-18	Floodproofing of Structures	Marginal	Likely	2
T-19	Remaining Construction Items	Significant	Likely	4
T-20	Planning, Engineering, & Design	Marginal	Possible	1
T-21	Construction Management	Marginal	Likely	2
		-		
	Construction Management mate Assumptions	Maximum Proje	ect Growth	45%
		-		
Cost Estim	nate Assumptions	Maximum Proje	ect Growth	45%
Cost Estim	Utility Relocations	Maximum Proje	ect Growth	45% 2
EST-1 EST-2	Image: Assumptions Image: Assumptions Utility Relocations Image: Assumption Corridor Image: Transportation Corridor Image: Assumption Corridor	Maximum Proje	Likely	45% 2 3
EST-1 EST-2 EST-3	Image: Addition of the system of the syst	Maximum Proje	Likely Likely	45% 2 3 3
EST-1 EST-2 EST-3 EST-4	Image: Addition of the system of the syst	Maximum Proje	Ct Growth Likely Likely Likely Possible	45% 2 3 3 1
EST-1 EST-2 EST-3 EST-4 EST-5	Image: Answimptions Utility Relocations Image: Transportation Corridor Bridge Replacement Plantings/EWN Berms/Fill	Maximum Proje	Ct Growth Likely Likely Likely Possible Possible	45% 2 3 3 1 2
EST-1 EST-2 EST-3 EST-4 EST-5 EST-6	Interface Interface Interface	Maximum Proje Marginal Moderate Moderate Moderate Moderate Marginal Moderate	Ct Growth Likely Likely Likely Possible Possible Possible	45% 2 3 3 1 2 1 2 1
EST-1 EST-2 EST-3 EST-4 EST-4 EST-5 EST-6 EST-7	Image: A set of a	Maximum Proje Marginal Moderate Moderate Moderate Marginal Moderate Marginal Marginal Marginal Marginal Marginal	Ct Growth Likely Likely Likely Possible Possible Possible Possible	45% 2 3 3 1 2 1 1 1

	Wharf Replacement			Marginal	Possible	1
EST-10	Raise Piers			Marginal	Likely	2
EST-11						
EST-12	Pump Stations/Interior Drainage			Moderate	Likely	3
EST-13	Roller Gate/Vehicle Barriers			Marginal	Possible	1
EST-14	Large Gates/Closure Structures			Marginal	Possible	1
EST-15	Armoring			Negligible	Possible	0
EST-16	Temp Raising/Relocate/Replace Buildings			Moderate	Possible	2
EST-17	Demolition of Bldgs/Structures			Moderate	Possible	2
EST-18	Floodproofing of Structures			Moderate	Likely	3
EST-19	Remaining Construction Items			Moderate	Possible	2
EST-20	Planning, Engineering, & Design			Marginal	Possible	1
EST-21	Construction Management			Marginal	Possible	1
<u>External P</u>	ternal Project Risks Maximum Project Growth					60%
EX-1	Utility Relocations			Marginal	Possible	1
EX-2	Transportation Corridor			Moderate	Possible	2
EX-6	Deep Soil Mixing			Moderate	Possible	2
EX-7	Cantilever walls/Pile Caps			Marginal	Possible	1
EX-8	Anchored Walls			Marginal	Possible	1
EX-9	Combi-Wall (Offshore)			Moderate	Possible	2
EX-10	Wharf Replacement			Marginal	Possible	1
EX-11	Raise Piers			Marginal	Possible	1

EX-12	Pump Stations/Interior Drainage		Moderate	Possible	2
EX-13	Roller Gate/Vehicle Barriers		Marginal	Possible	1
EX-14	Large Gates/Closure Structures	Moderate Risk due to other organizations' dislike for this feature	Moderate	Likely	3
EX-15	Armoring		Marginal	Unlikely	0
EX-16	Temp Raising/Relocate/Replace Buildings		Moderate	Possible	2
EX-17	Demolition of Bldgs/Structures		Moderate	Possible	2
EX-18	Floodproofing of Structures		Moderate	Possible	2
EX-19	Remaining Construction Items		Marginal	Possible	1
EX-20	Planning, Engineering, & Design		Marginal	Likely	2
EX-21	Construction Management		Moderate	Possible	2