



TOWN OF MASHPEE SELECT BOARD

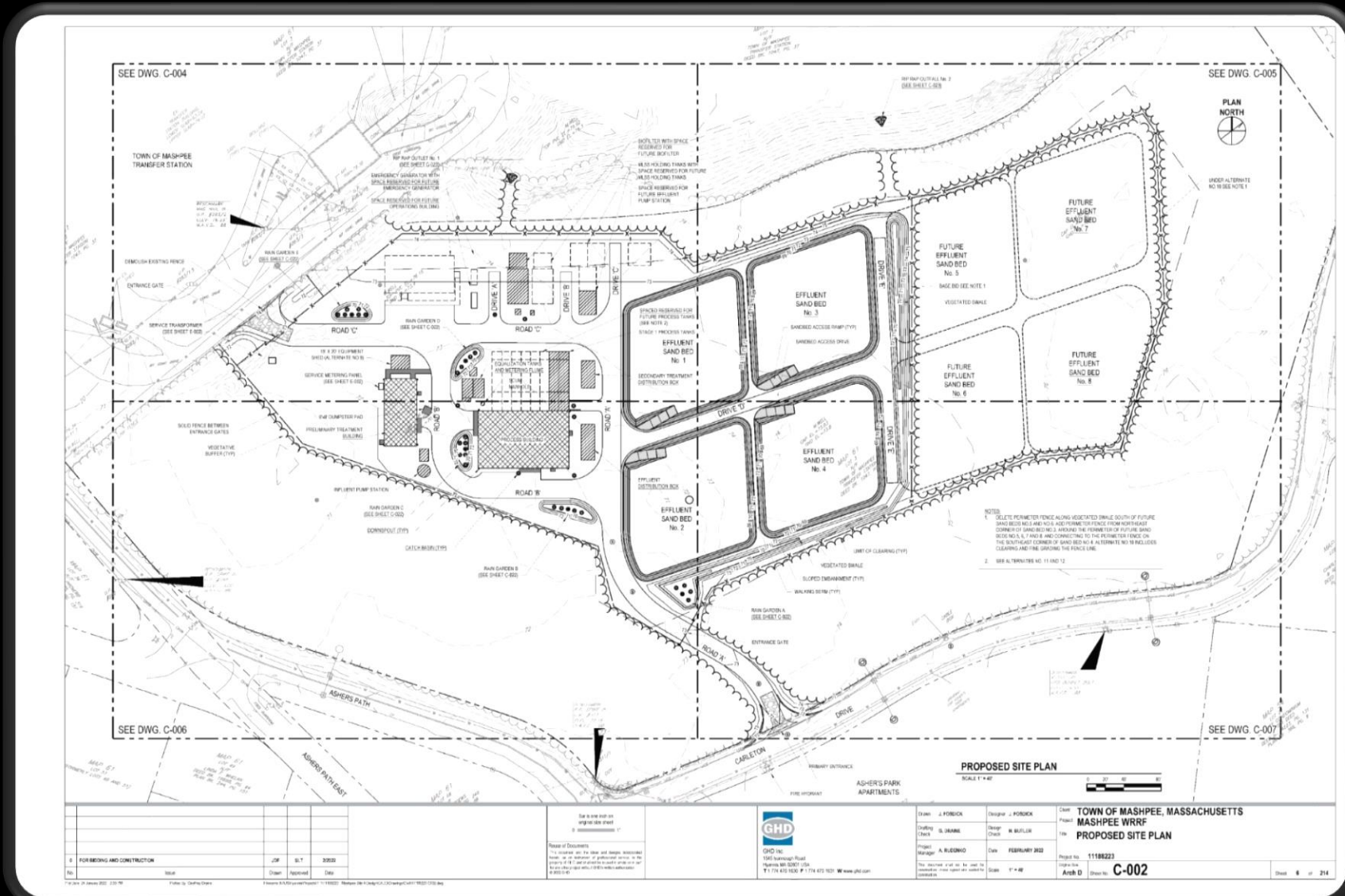
September 19, 2022

Raymond A. Jack

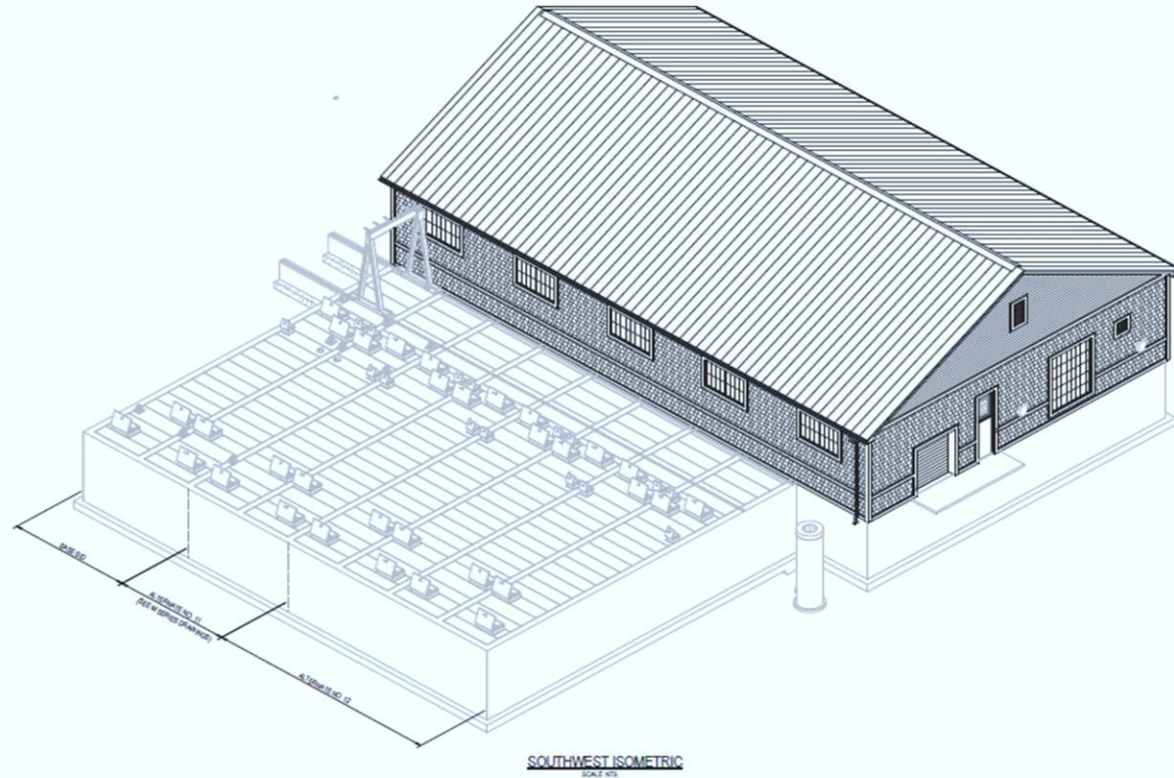
MASHPEE RIVER



MASHPEE WRRF SITE – CONTRACT #1



WRRF TANK ISOMETRIC



NOTES

1. ISOMETRIC VIEW IS LABELED RELATIVE TO PLAN NORTH AS INDICATED ON SHEETS A-301 AND A-302.

NO.	DATE	BY	CHKD.	APP'D.	DESCRIPTION
1					FOR DESIGN AND CONSTRUCTION
2					
3					
4					
5					
6					
7					
8					
9					
10					

Drawn	K. MARLIN
Checked	G. SWANEY
Project Manager	A. RUDEKIO
Date	FEBRUARY 2012
Scale	

Drawn in one inch on original size sheet.

Project of Construction

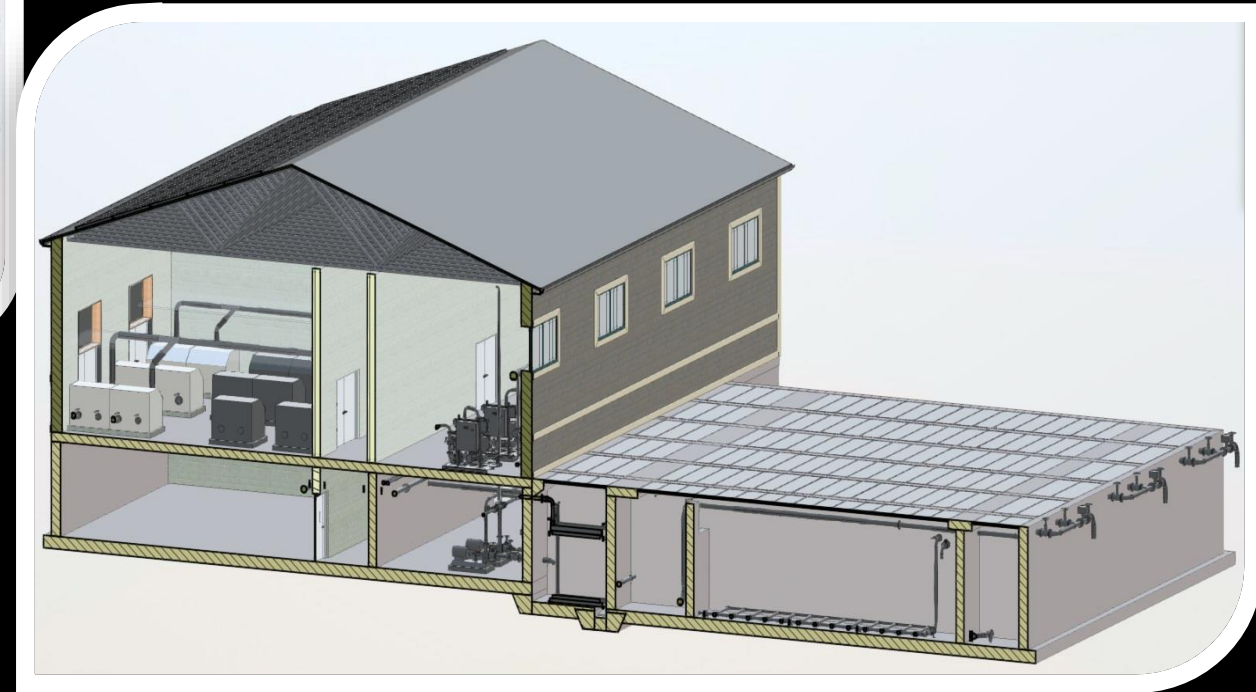
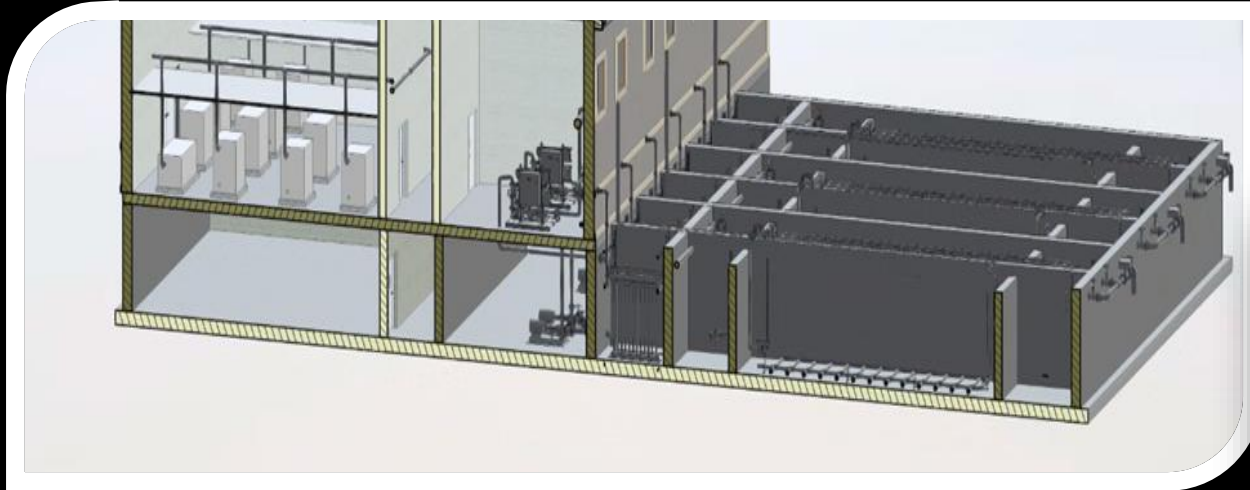
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Client	TOWN OF MASHPEE, MASSACHUSETTS
Project	FINAL DESIGN OF MASHPEE WRRF
Title	PROCESS BUILDING - ISOMETRIC
Project No.	111-88223
Drawn By	Arch D
Checked By	A-200

Sheet	47	of	214
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WRRF PROCESS TANKS



PROBLEM IS:

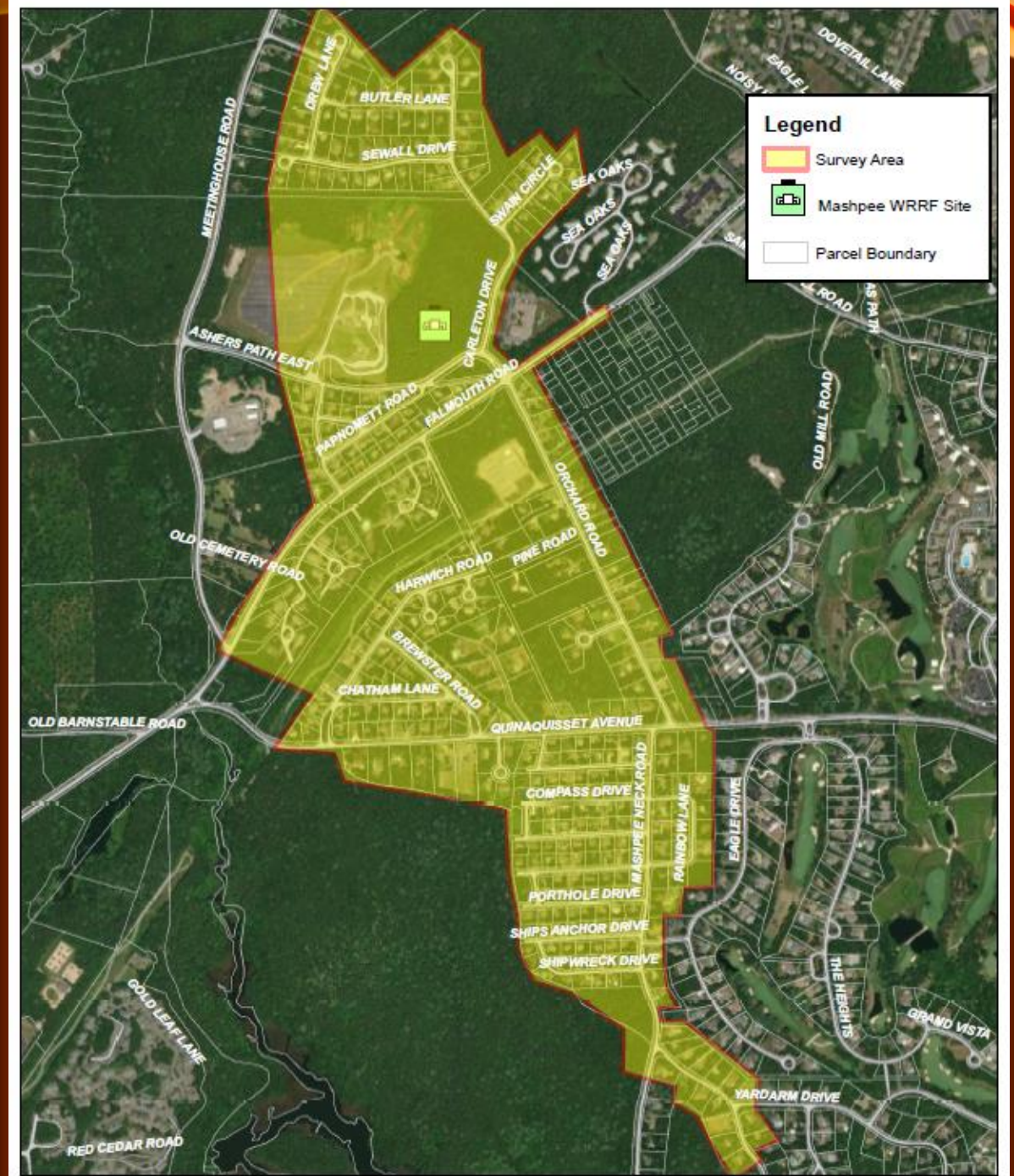
- 12 Alternate Bid items listed
- Can only award:
 - Base bid (includes 2 process tanks) \$26.727M
 - Alternate 1 – Carbon Scrubber (Odor Control polish unit) \$280K
 - Alternate 2 – 2 additional process tanks \$956K
- Can't award Alternate 3 – remaining 4 tanks \$1.676M
 - Represents high-cost risk if delayed
 - Extensive construction / excavation on a new plant

RECOMMENDED SOLUTION CONTRACT 1

• ARPA funds (County)	\$657,653.41
• ARPA funds (Federal)	\$694,196.59
• Existing Appropriation	<u>\$325,000.00</u>
• Total	\$1,676,850.00

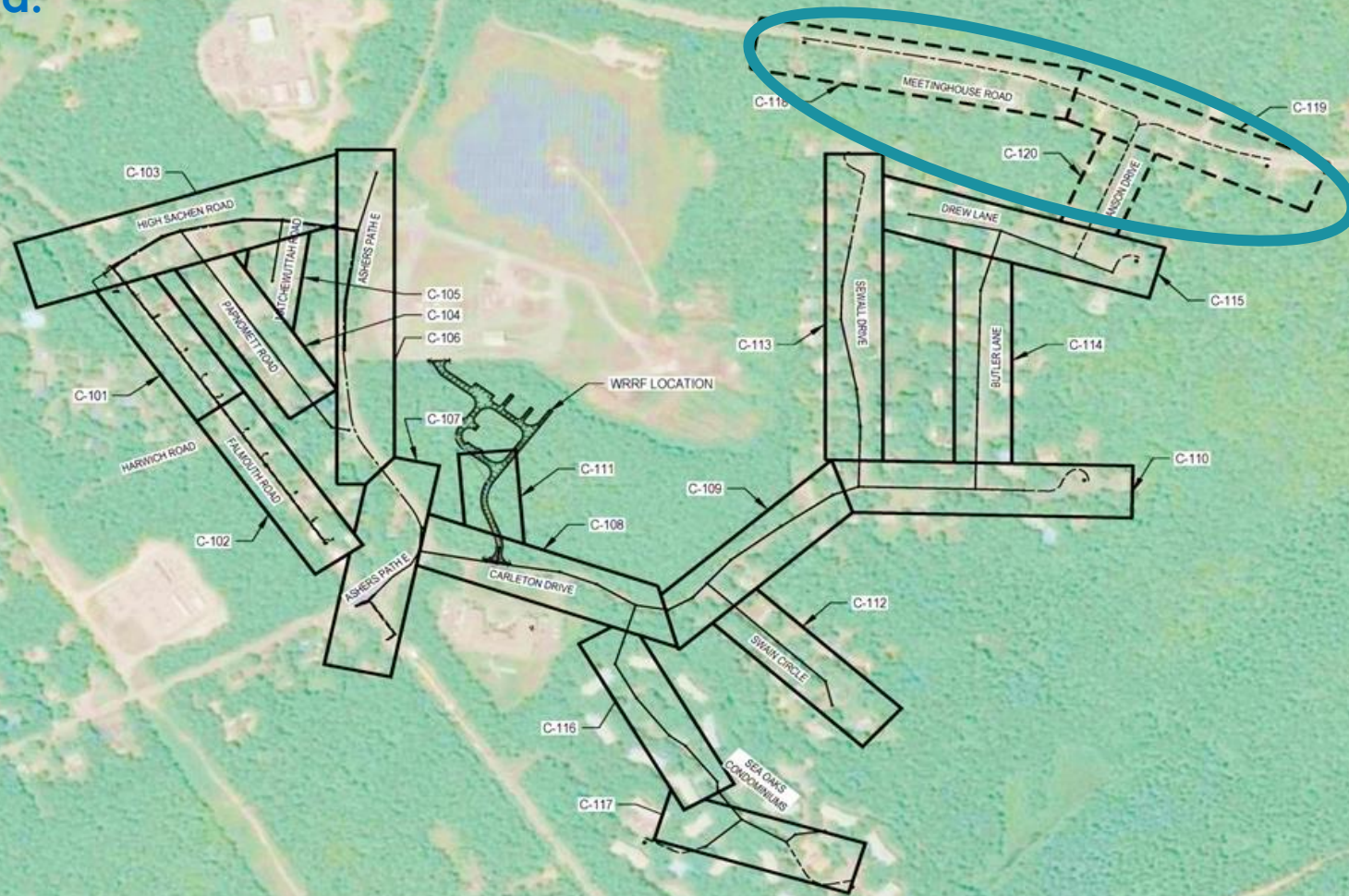
- Endorsed by Sewer Commission
- Recommended for approval:
 - Raymond Jack – Wastewater Coordinator
 - Dawn Thayer – Finance Director
 - Craig Mayan - Treasurer

COLLECTION SYSTEM:
CONTRACT 2 – NORTH OF 28
CONTRACT 3 – SOUTH OF 28



CONTRACT 2 - ALTERNATE #1

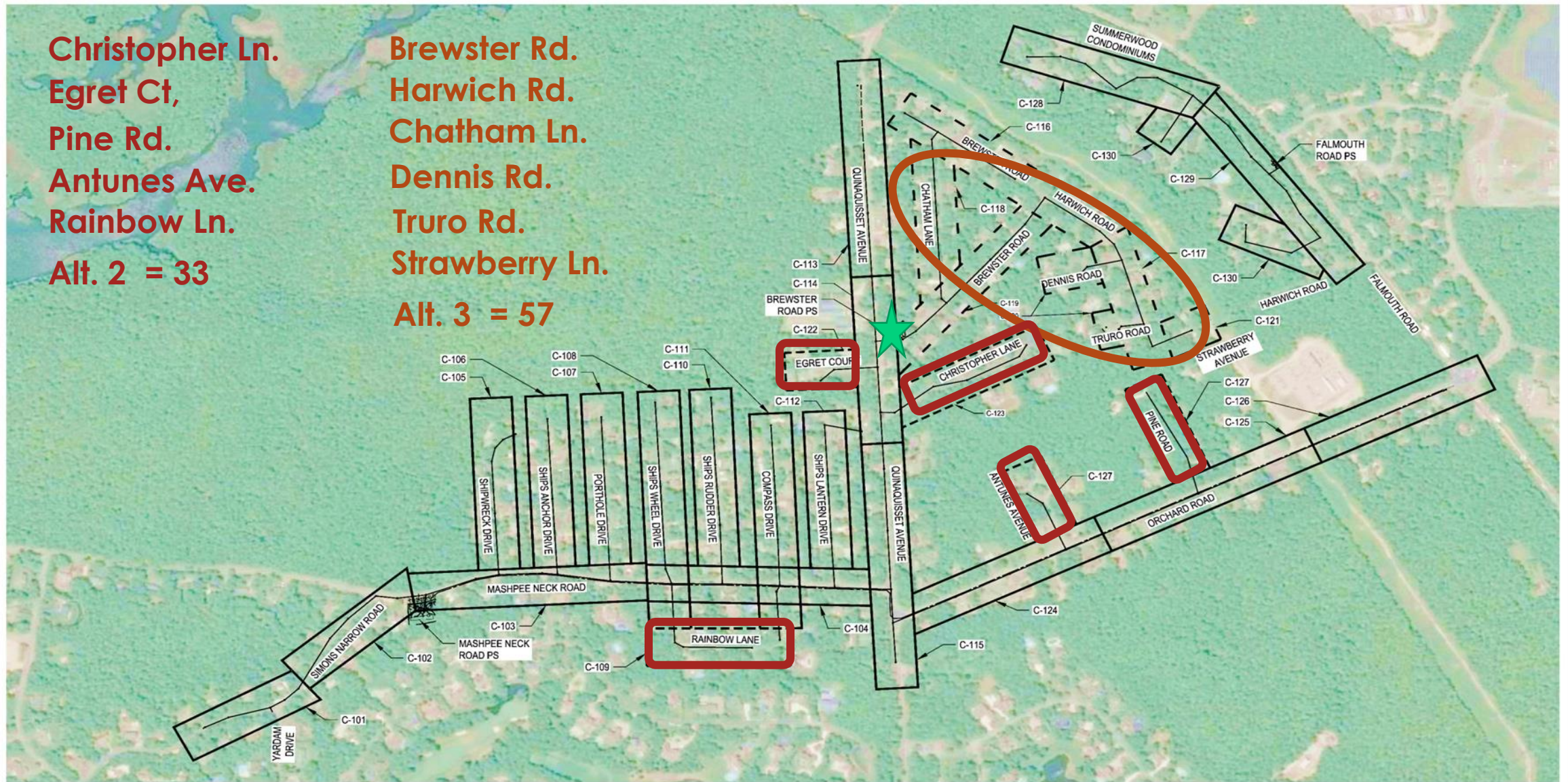
Meetinghouse Rd.
Hanson Dr.



CONTRACT 3 - ALTERNATES #2 AND #3

Christopher Ln.
 Egret Ct,
 Pine Rd.
 Antunes Ave.
 Rainbow Ln.
 Alt. 2 = 33

Brewster Rd.
 Harwich Rd.
 Chatham Ln.
 Dennis Rd.
 Truro Rd.
 Strawberry Ln.
 Alt. 3 = 57



PROBLEM - SOLUTION

Problem

- Total of 100 properties
- Insufficient funds to award remaining Alternates

Solution

- SRF-PEF

STATE REVOLVING FUND (SRF)

Project Evaluation Form (PEF)

Filed August 12, 2022

Place holder, non-binding

Request = \$12M

To cover Alternates

Especially roads

Intended Use Plan (IUP)

Published by SRF January 2023

Identifies eligible projects Statewide

Towns notified of eligibility

Mashpee decides if it wants to proceed

Spring 2023 Town Meeting

Discuss

Amend amount as necessary

Affirm

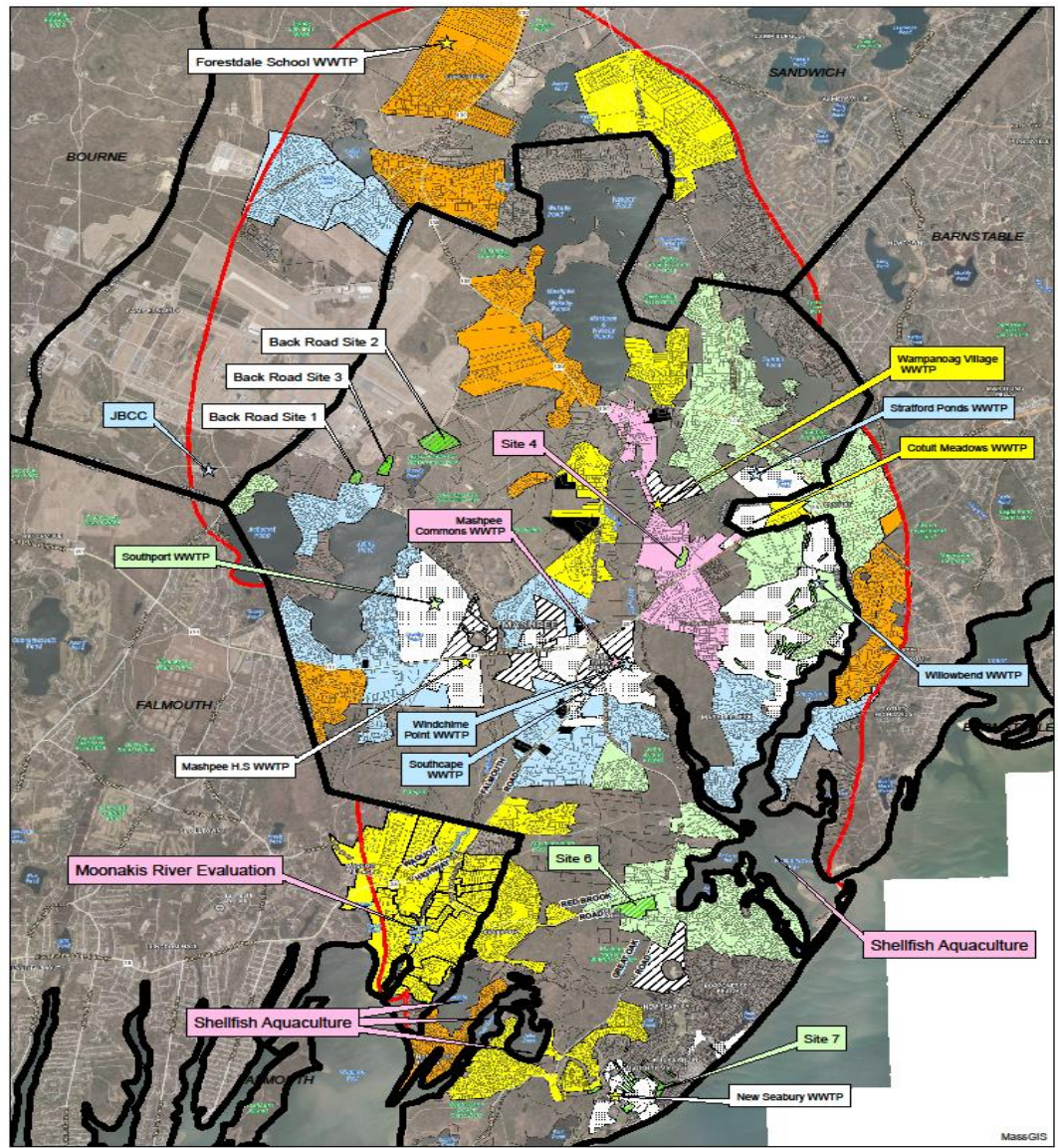
Deny

Mashpee Contracts 1, 2 and 3

Contract 1 - WRRF	Amount	Contract 2 - Collection System N.	Amount	Contract 3 - Collection System S.	Amount	Awards	Amount
Alt 1, Carbon Scrubber	\$267,000.00	Alt 1 - Meetinghouse Rd.	\$349,045.90	Alt 1, Wet Well Coating	\$84,960.00	Contract 1	\$27,905,000.00
Alt 2, Process Tanks 2	\$911,000.00			Alt 2, Private Rds.	\$923,393.60	Contract 2	\$5,024,198.10
Alt 3, Process Tanks 3&4	\$1,597,000.00			Alt 3, Brewster Rd. Area	\$2,405,877.60	Contract3	\$9,806,731.00
Alt 4, Wet Well Epoxy Coat	\$60,000.00			Alt 4, Odor Control Systems	\$78,329.00		
Alt 5, Slide Gates-Secondary Treat	\$31,000.00			Alt 5, Flow Meters	\$202,600.00		
Alt 6, Slide Gates-Effluent Box	\$46,000.00						
Alt 7, Paints Walls-Prelim Treat Bldg.	\$14,000.00						
Alt 8, Paint Walls, Process Bldg.	\$82,000.00						
Alt 9, Lab Equip.	\$125,000.00						
Alt 10, Tools & Equip.	\$230,000.00						
Alt.11, Equipment Shed	\$77,777.00						
Alt 12, Perimeter Fence	\$87,677.00						
Total	\$3,528,454.00		\$349,045.90		\$3,695,160.20		
Combined Total	\$7,572,660.10						
Combined + Contingency	\$7,951,293.11						

FUNDING SNAPSHOT

Description	Amount	Contract Awards	Amount
Appropriation	\$54,000,000	Contract 1	\$27,905,000.00
Engineering	\$6,502,700	Contract 2	\$ 5,024,198.10
Details / Utilities / Other	\$2,000,000	Contract 3	\$ 9,806,731.00
Remaining funds	\$45,497,300	Total	\$42,735,929.10
Base Bids	\$41,472,969		
Base Bid + Contingency	\$43,546,618	Total + Contingency	\$44,872,555.00
Available funds	\$1,950,682	Remaining funds	\$624,745.00



LEGEND

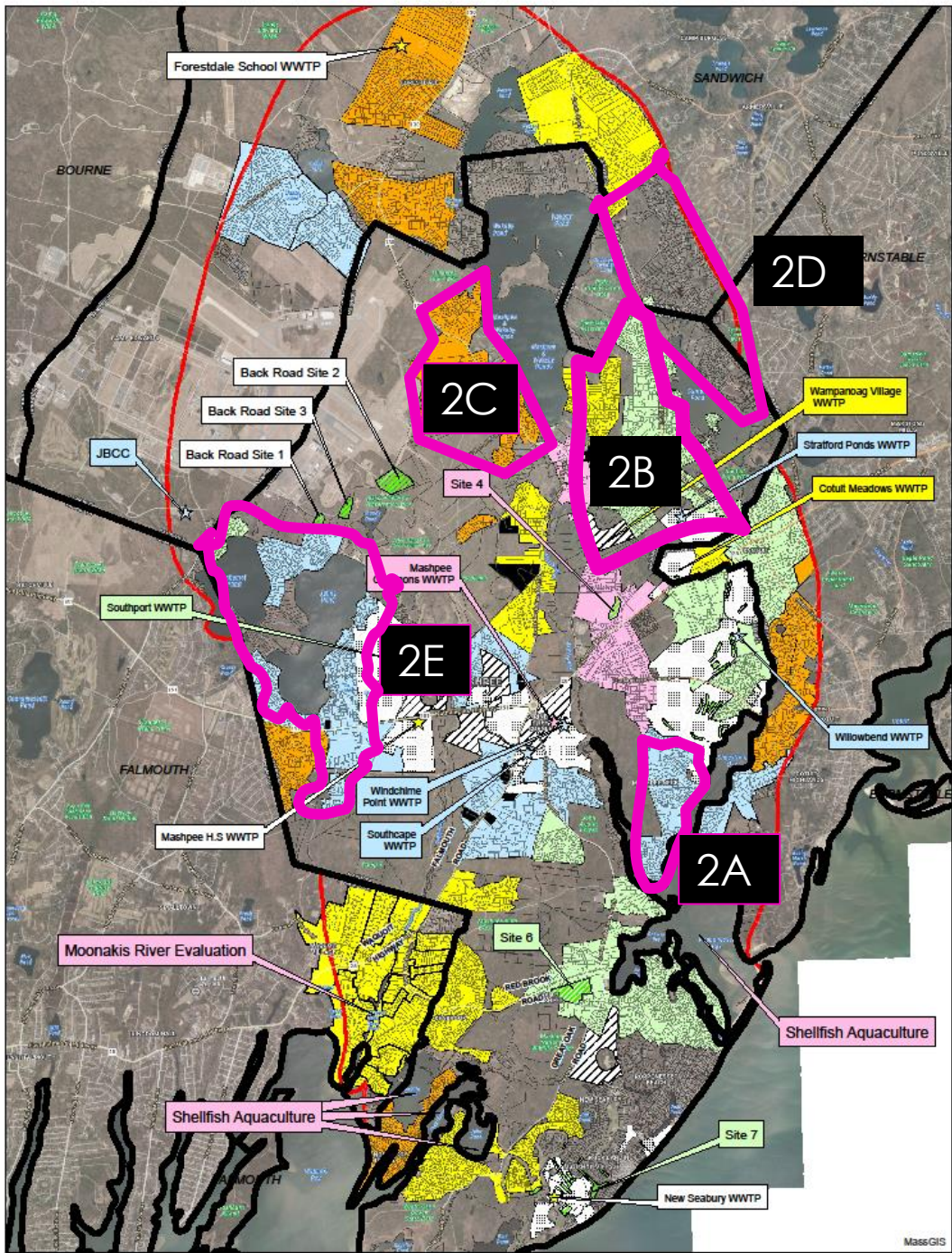
Town Boundaries	Wastewater WWTP (Color per Phase)	Implementation Phase	Phase 3
IA	Existing Private Sewer	Phase 1	Phase 4
Planning Area Boundary	Proposed Private Sewer	Phase 2	Phase 5
Parcel Boundary	Proposed Treatment/Discharge Site		

Paper Size ANSI B
 0 0.25 0.5 1 Miles
 Map Projection: Lambert Conformal Conic
 Horizontal Datum: North American 1983
 Grid: NAD 1983 StatePlane Massachusetts Mainland FIPS 3301 Feet
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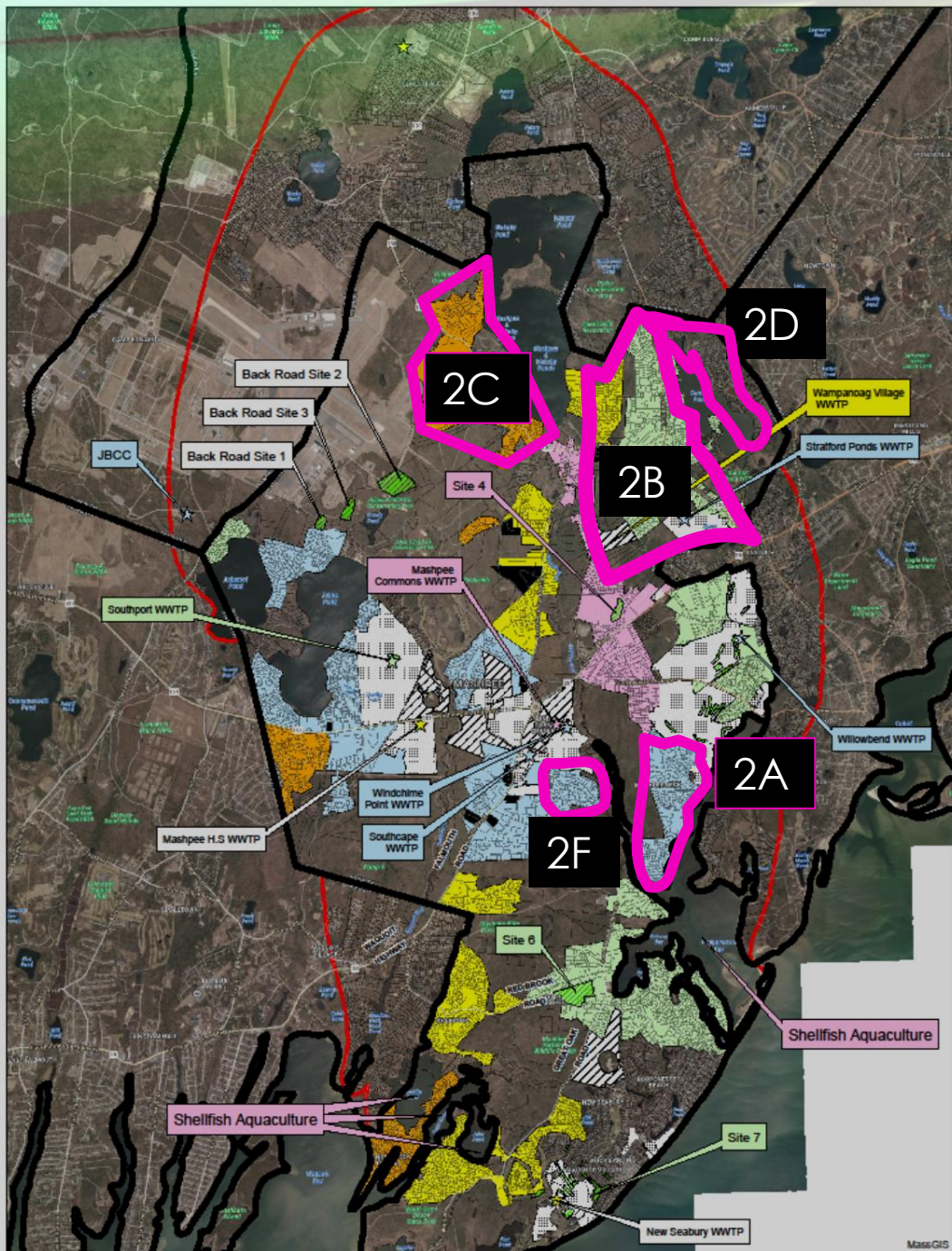
TOWN OF MASHPEE SEWER COMMISSION
 Watershed Nitrogen Management Plan
Implementation Phasing Plan
 Job Number: 86-12001
 Revision: A
 Date: 20 Jul 2022
Figure ES-2

1545 Iyermouth Road, Hyannis Massachusetts 02601 USA T 1 508 362 2680 F 1 508 362 5684 E hyam@ghd.com W www.ghd.com
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2015 ORIGINAL PHASE 1-5 PLAN



PHASE 2A-E AS
PRESENTED TO
BOS IN 2021



PHASE 2A-F AS MODIFIED IN 2022

PHASE 2

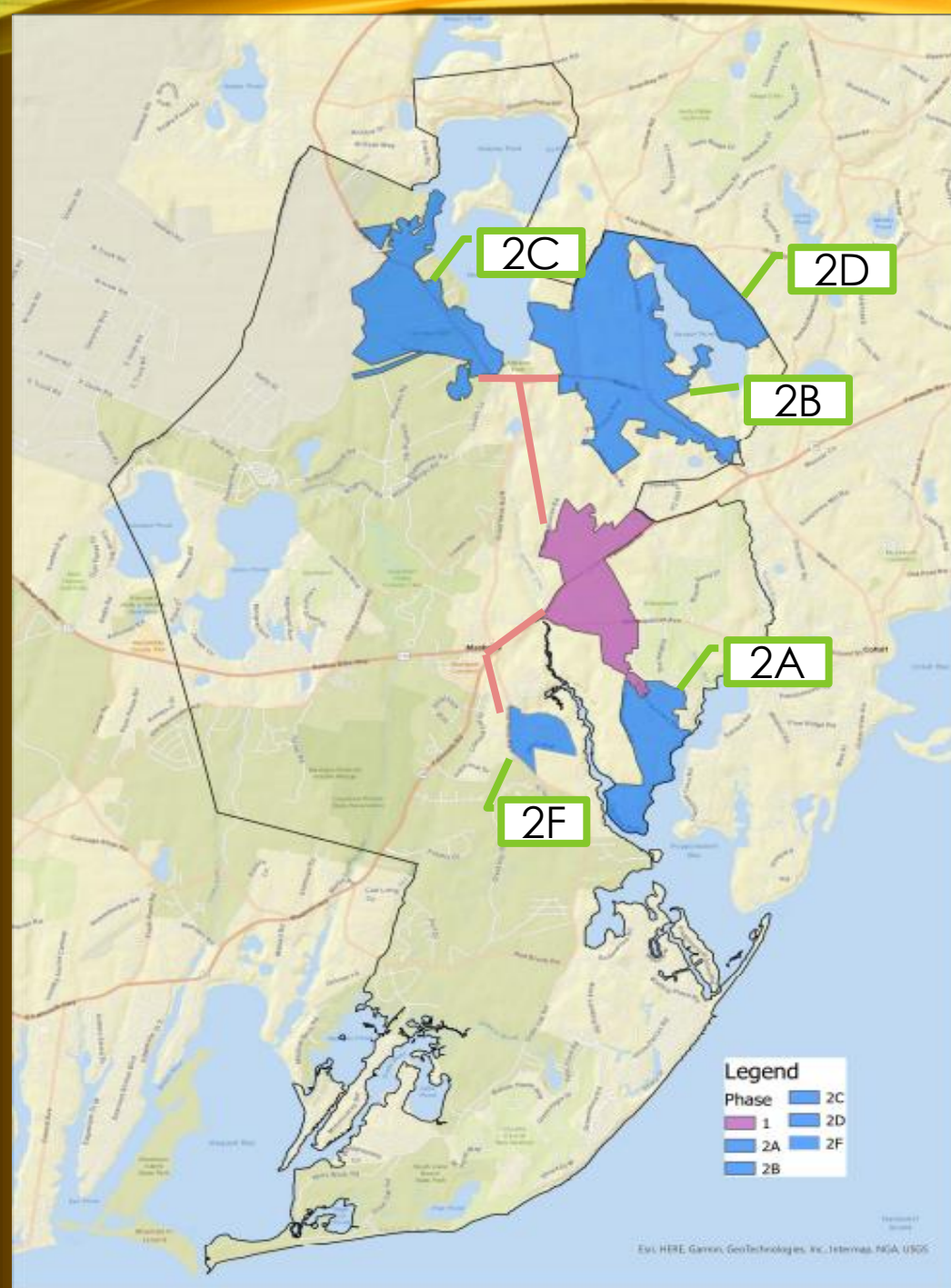
2A – Mashpee Neck Rd. / Pirates Cove

2B – East Main / Santuit Pond area

2C – West Main / Mashpee Pond area

2D – Santuit Pond East

2 F - Sandlewood



PHASE PLAN RE-EVALUATION

- **NOPC** (Notice of Project Change): Required by MEPA Certificate
 - Re-evaluates existing plan – Adaptive Management approach
 - Shellfish propagation efficacy, sewerage effort, stormwater mgt., fertilizer mgt.
 - Revises phasing as necessary
 - 7 years since 2015 Plan
 - Provides cost estimates for all Phase Areas (existing or modified)
 - Includes Phase 2A, B, C, D, & F
 - Allows for financial planning – Operations & Capital
 - Allows for on-site system (Title V, I/A's) planning based on sewer plan
 - Results in updated SewerCAD model
 - 1st step toward obtaining DEP Watershed Permit
 - 1st step toward design / SRF Loan (PEF & IUP)
 - Evaluation / Analyses / Costing – *Not* design
 - 2-year effort
 - Requested ARPA funding level = \$250K
 - Recommended for approval.

PHASE 2A-F PARCELS

2A = 363

2B = 1023

2C = 189

2D = 162

2E = 849

2F = 108

PROPOSED CONTRACT AWARD VALUES (SEWER COMMISSION)

Contract 1 (WRRF)

\$27,905,000.00

Base bid

+ Scrubber

+ (2) Tanks

Contract 2 - Collection North

\$5,024,198.10

Base Bid only

Contract 3 - Collection South

\$9,806,731.00

Base Bid

+ Wet Well Coating

CONCLUSION

- Recommend approval for awards of:
 - Contract 1, WRRF : \$27,905,000.00
 - Contract 2, Collection N. : \$ 5,024,198.10
 - Contract 3, Collection S. : \$ 9,806,731.00
- Recommend approval of ARPA funds for Contract 1 Tanks as:
 - ARPA funds (County) \$657,653.41
 - ARPA funds (Federal) \$694,196.59
 - Existing Appropriation \$325,000.00
 - Total \$1,676,850.00
- Recommend approval of ARPA funds for:
 - NOPC: \$250K

THANK YOU!
QUESTIONS?

- Raymond A. Jack

