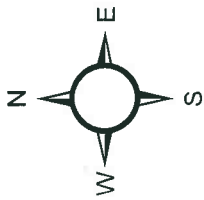
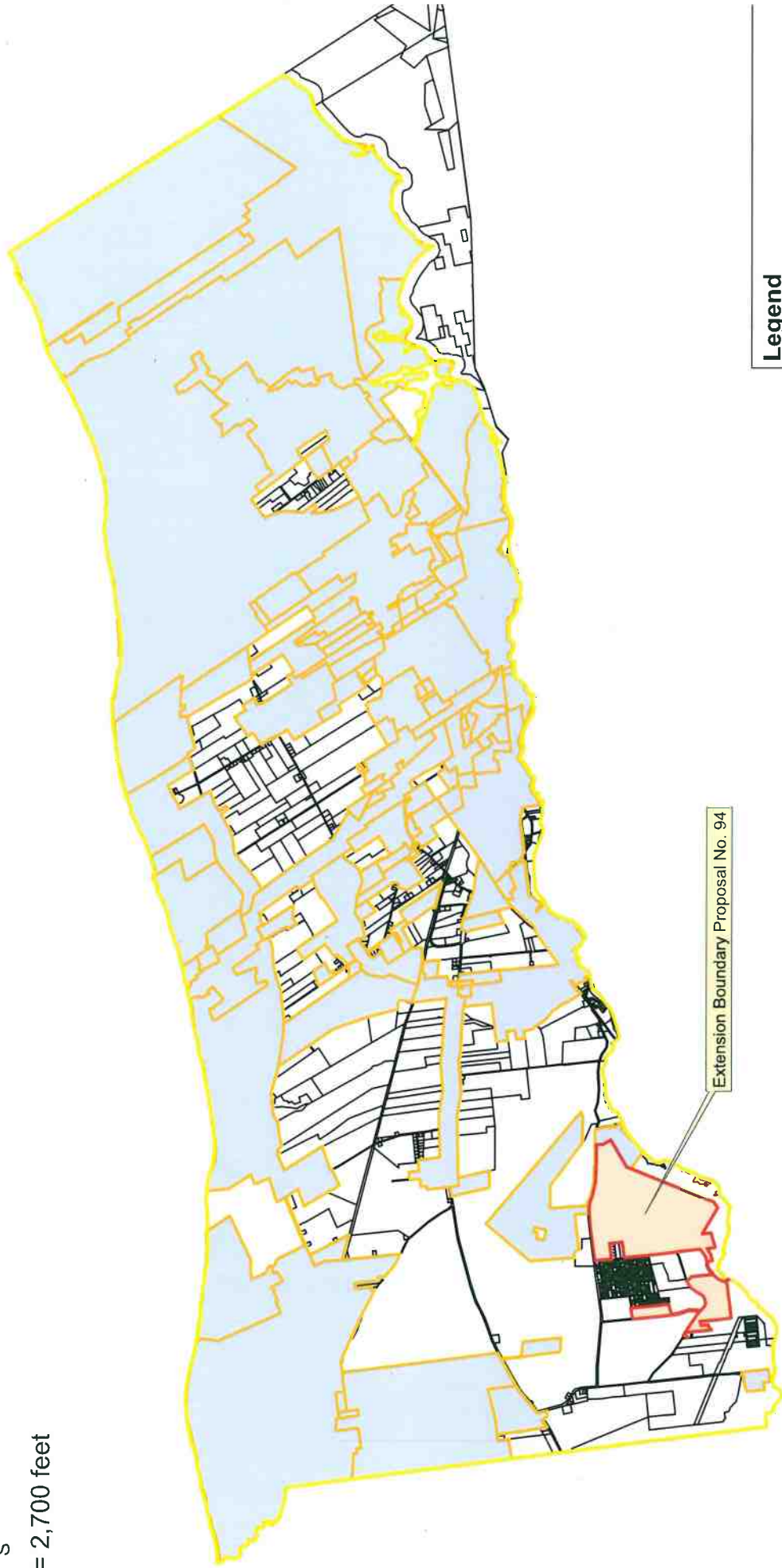


**Map, Plan Details with Cost Estimates for Area
South of EPCAL**



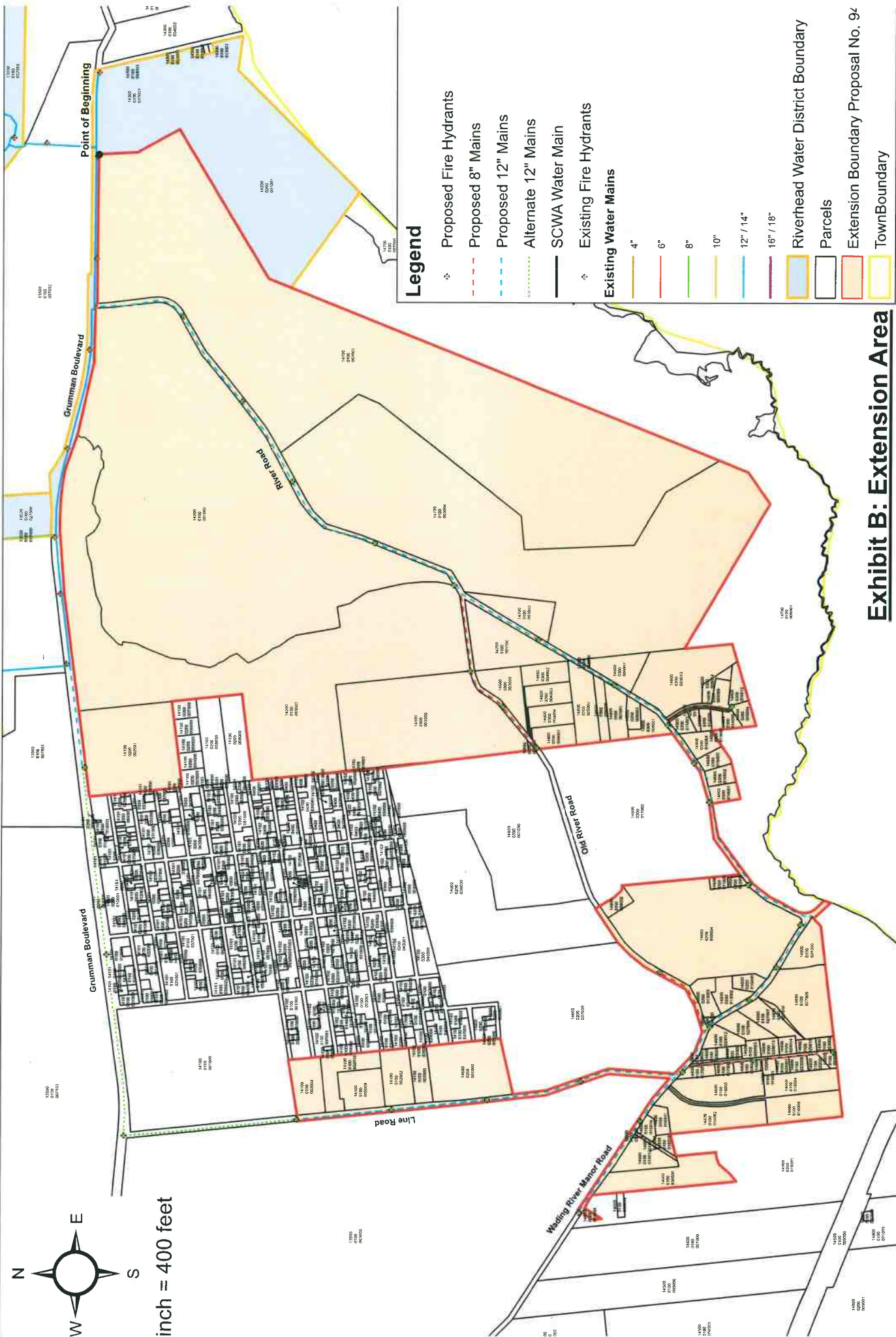
inch = 2,700 feet



Legend

- Town Boundary
- Riverhead Water District Boundary
- Extension Boundary Proposal No. 94
- Parcels

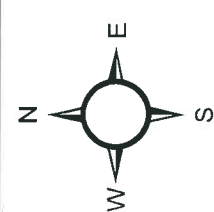
**Exhibit A: Riverhead Water District
with Proposed Extension**



Legend

- ◊ Proposed Fire Hydrants
 - - - Proposed 8" Mains
 - · - Proposed 12" Mains
 - · · Alternate 12" Mains
 - SCWA Water Main
 - ◊ Existing Fire Hydrants
- Existing Water Mains**
- 4"
 - 6"
 - 8"
 - 10"
 - 12" / 14"
 - 16" / 18"
- ▭ Riverhead Water District Boundary
 - ▭ Parcels
 - ▭ Extension Boundary Proposal No. 94
 - ▭ Town Boundary

Exhibit B: Extension Area



inch = 400 feet

EXHIBIT "C"
RIVERHEAD WATER DISTRICT
PROPOSED EXTENSION NO. 94 – MANORVILLE
DESCRIPTION OF EXTENSION

JUNE 2020

Parcel A, comprised of all these certain lots, parcels of land, said property being known as District 0600, Section 100, Block 01, Lots 09, 10, 11, and 12 situated and lying and being at Calverton, Town of Riverhead, County of Suffolk, and State of New York, bounded and described as follows:

BEGINNING at a point formed by the southerly right-of-way line of River Road, the easterly property line of District 0600, Section 147, Block 01, Lot 3.1, and the westerly property line of District 006, Section 142, Block 02, Lot 1.1. Said point being the **POINT OF BEGINNING**.

From said **POINT OF BEGINNING**, traveling south along the easterly property line of District 0600, Section 147, Block 01, Lot 3.1, a distance of approximately 7,778 feet to a point formed by the easterly property line of District 006, Section 147, Block 01, Lot 3.4 and the aforementioned boundary line.

THENCE, running south along the easterly property line of District 006, Section 147, Block 01, Lot 3.4 a distance of approximately 726 feet to the southeasterly corner of aforementioned property.

THENCE, running west along the southerly property line of District 0600, Section 147, Block 01, Lot 3.4, a distance of approximately 1,754 feet to a point formed by the easterly property line of District 006, Section 146, Block 03, Lot 9.13 and the aforementioned boundary line.

THENCE, running south along the easterly property line of District 0600, Section 146, Block 03, Lot 9.13 a distance of approximately 503 feet to the southeasterly corner of aforementioned property.

THENCE, running west along the southerly property line of District 0600, Section 146, Block 03, Lot 9.13, a distance of approximately 187 feet to a point formed by the southerly and easterly property lines of District 006, Section 146, Block 03, Lot 9.12 and the aforementioned boundary line.

THENCE, running west along the southerly property line of District 0600, Section 146, Block 03, Lot 9.12, a distance of approximately 425 feet to a point formed by the southerly and easterly property lines of District 006, Section 146, Block 03, Lot 9.4 and the aforementioned boundary line.

THENCE, running west along the southerly property line of District 0600, Section 146, Block 03, Lot 9.4, a distance of approximately 278 feet to the southwesterly corner of aforementioned property.

THENCE, running north along the westerly property line of District 0600, Section 146, Block 03, Lot 9.4, a distance of approximately 141 feet to a point formed by the southerly and westerly property lines of District 006, Section 146, Block 03, Lot 14 and the aforementioned boundary line.

THENCE, running north along the westerly property line of District 0600, Section 146, Block 03, Lot 14, a distance of approximately 205 feet to a point formed by the southerly and westerly property lines of District 006, Section 146, Block 03, Lot 13 and the aforementioned boundary line.

THENCE, running north along the westerly property line of District 0600, Section 146, Block 03, Lot 13, a distance of approximately 125 feet to a point formed by the southerly property line of District 006, Section 146, Block 03, Lot 12, the southerly property line of District 006, Section 146, Block 03, Lot 16.4 and the aforementioned boundary line.

THENCE, running west along the southerly property line of District 0600, Section 146, Block 03, Lot 16.4, a distance of approximately 196 feet to a point formed by the southerly and easterly property lines of District 006, Section 146, Block 03, Lot 16.3 and the aforementioned boundary line.

THENCE, running west along the southerly property line of District 0600, Section 146, Block 03, Lot 16.3 a distance of approximately 211 feet to a point formed by the southerly and easterly property lines of District 006, Section 146, Block 03, Lot 16.2 and the aforementioned boundary line.

THENCE, running west along the southerly property line of District 0600, Section 146, Block 03, Lot 16.2, a distance of approximately 198 feet to a point formed by the southerly and easterly property lines of District 006, Section 146, Block 03, Lot 16.1 and the aforementioned boundary line.

THENCE, running west along the southerly property line of District 0600, Section 146, Block 03, Lot 16.1, a distance of approximately 180 feet to the southwesterly corner of aforementioned property.

THENCE, running north along the westerly property line of District 0600, Section 146, Block 03, Lot 16.1, a distance of approximately 300 feet to a point formed by the southerly right-of-way line of River Road and the aforementioned boundary line.

THENCE, running southwest along the southerly right-of-way line of River Road, a distance of approximately 1,630 feet to a point formed by the northerly right-of-way line of Wading River-Manorville Road and the aforementioned boundary line.

THENCE, running east along the northerly right-of-way line of Wading River-Manorville Road, a distance of approximately 212 feet to a point formed by the southerly Riverhead Town Boundary and the aforementioned boundary line.

THENCE, running south along the southerly Riverhead Town Boundary, a distance of approximately 73 feet to a point formed by the southerly right-of-way line of Wading River-Manorville Road and the aforementioned boundary line.

THENCE, running west along the southerly right-of-way line of Wading River-Manorville Road, a distance of approximately 243 feet to a point formed by the easterly property line of District 006, Section 146, Block 01, Lot 28 and the aforementioned boundary line.

THENCE, running south along the easterly property line of District 0600, Section 146, Block 01, Lot 28, a distance of approximately 107 feet to the southeasterly corner of the aforementioned boundary line.

THENCE, running west along the southerly property line of District 0600, Section 146, Block 01, Lot 28, a distance of approximately 403 feet to a point formed by the southerly and easterly property lines of District 006, Section 146, Block 01, Lot 27.9 and the aforementioned boundary line.

THENCE, running west along the southerly property line of District 0600, Section 146, Block 01, Lot 27.9, a distance of approximately 748 feet to a point formed by the southerly and easterly property lines of District 006, Section 146, Block 01, Lot 23.2 and the aforementioned boundary line.

THENCE, running west along the southerly property line of District 0600, Section 146, Block 01, Lot 23.2, a distance of approximately 142 feet to a point formed by the southerly and easterly property lines of District 006, Section 146, Block 01, Lot 22.6 and the aforementioned boundary line.

THENCE, running west along the southerly property line of District 0600, Section 146, Block 01, Lot 22.6, a distance of approximately 192 feet to a point formed by the southerly and easterly property lines of District 006, Section 146, Block 01, Lot 16.4 and the aforementioned boundary line.

THENCE, running west along the southerly property line of District 0600, Section 146, Block 01, Lot 16.4, a distance of approximately 227 feet to a point formed by the southerly and easterly property lines of District 006, Section 146, Block 01, Lot 16.6 and the aforementioned boundary line.

THENCE, running west along the southerly property line of District 0600, Section 146, Block 01, Lot 16.6, a distance of approximately 280 feet to the southwesterly corner of aforementioned property.

THENCE, running north along the westerly property line of District 0600, Section 146, Block 01, Lot 16.6, a distance of approximately 805 feet to a point formed by the southerly and westerly property lines of District 006, Section 146, Block 01, Lot 16.2 and the aforementioned boundary line.

THENCE, running north along the westerly property line of District 0600, Section 146, Block 01, Lot 16.2, a distance of approximately 1,014 feet to a point formed by the southerly property line of District 006, Section 146, Block 01, Lot 10.11, the southerly property line of District 006, Section 146, Block 01, Lot 10.15 and the aforementioned boundary line.

THENCE, running west along the southerly property line of District 0600, Section 146, Block 01, Lot 10.15, a distance of approximately 234 feet to a point formed by the northerly and easterly property lines of District 006, Section 146, Block 01, Lot 08 and the aforementioned boundary line.

THENCE, running south along the easterly property line of District 0600, Section 146, Block 01, Lot 08, a distance of approximately 422 feet to the southeasterly corner of aforementioned property.

THENCE, running west along the southerly property line of District 0600, Section 146, Block 01, Lot 08, a distance of approximately 384 feet to the southwesterly corner of aforementioned property.

THENCE, running north along the westerly property line of District 0600, Section 146, Block 01, Lot 08, a distance of approximately 1,506 feet to point formed by the southerly right-of-way line of Wading River-Manorville Road and the aforementioned boundary line.

THENCE, running west along the southerly right-of-way line of Wading River-Manorville Road, a distance of approximately 155 feet to point formed by the easterly property line of District 006, Section 146, Block 01, Lot 03 and the aforementioned boundary line.

THENCE, running south along the easterly property line of District 0600, Section 146, Block 01, Lot 03, a distance of approximately 155 feet to the southeasterly corner of the aforementioned property.

THENCE, running west along the southerly property line of District 0600, Section 146, Block 01, Lot 03, a distance of approximately 91 feet to the southwesterly corner of the aforementioned property.

THENCE, running north along the westerly property line of District 0600, Section 146, Block 01, Lot 03, a distance of approximately 141 feet to the point formed by the southerly right-of-way line of Wading River-Manorville Road of the aforementioned boundary line.

THENCE, running north along a line perpendicular to the southerly right-of-way line of Wading River-Manorville Road, a distance of approximately 50 feet to the northerly right-of-way line of Wading River-Manorville Road.

THENCE, running east along the northerly right-of-way line of Wading River-Manorville Road, a distance of approximately 1,758 feet to the point formed by the westerly right-of-way line of Line Road and the aforementioned boundary line.

THENCE, running north along the westerly right-of-way line of Line Road, a distance of approximately 3,932 feet to a point on the aforementioned boundary line.

THENCE, running east along a line perpendicular the westerly right-of-way line of Line Road, a distance of approximately 61 feet to the point formed by the easterly right-of-way line of Line Road and the northerly property line of District 006, Section 141, Block 01, Lot 2.4.

THENCE, running east along the northerly property line of District 006, Section 141, Block 01, Lot 2.4, a distance of approximately 583 feet to the northeasterly corner aforementioned property.

THENCE, running south along the easterly property line of District 006, Section 141, Block 01, Lot 2.4, a distance of approximately 331 feet to the point formed by the northerly and easterly property lines of District 006, Section 141, Block 01, Lot 2.10 and the aforementioned boundary line.

THENCE, running south along the easterly property line of District 006, Section 141, Block 01, Lot 2.10, a distance of approximately 630 feet to the point formed by the northerly property line of District 006, Section 141, Block 01, Lot 2.2, the southerly property line of District 006, Section 141.2, Block 01, Lot 20 and the aforementioned boundary line.

THENCE, running south along the easterly property line of District 006, Section 141, Block 01, Lot 2.2, a distance of approximately 300 feet to the point formed by the northerly and easterly property lines of District 006, Section 141, Block 01, Lot 03 and the aforementioned boundary line.

THENCE, running south along the easterly property line of District 006, Section 141, Block 01, Lot 03, a distance of approximately 180 feet to the point formed by the northerly property line of District 006, Section 146, Block 02, Lot 01, the southerly property line of District 006, Section 141.2, Block 01, Lot 36 and the aforementioned boundary line.

THENCE, running south along the easterly property line of District 006, Section 146, Block 02, Lot 01, a distance of approximately 783 feet to the point formed by the northerly property line of District 006, Section 146, Block 02, Lot 07 and the aforementioned boundary line.

THENCE, running east along the northerly property line of District 006, Section 146, Block 02, Lot 07, a distance of approximately 381 feet to the point on the aforementioned boundary line.

THENCE, running north along the westerly property line of District 006, Section 146, Block 02, Lot 07, a distance of approximately 533 feet to the northwesterly corner of the aforementioned property.

THENCE, running east along the northerly property line of District 006, Section 146, Block 02, Lot 07, a distance of approximately 436 feet to the point formed by the northerly and westerly property line of District 006, Section 146, Block 02, Lot 06 and the aforementioned boundary line.

THENCE, running south along the easterly property line of District 006, Section 146, Block 02, Lot 07, a distance of approximately 1,906 feet to the point formed by the northerly right-of-way line of Old River Road and the aforementioned boundary line.

THENCE, running east along the northerly right-of-way line of Old River Road, a distance of approximately 269 feet to the point on the aforementioned boundary line.

THENCE, running south along a line perpendicular to the northerly right-of-way line of Old River Road, a distance of approximately 50 feet to a point formed by the southerly right-of-way line of Old River Road and the westerly property line of District 006, Section 146, Block 02, Lot 8.2.

THENCE, running south along the westerly property line of District 006, Section 146, Block 02, Lot 8.2, a distance of approximately 320 feet to the southwest corner of the aforementioned property.

THENCE, running east along the southerly property line of District 006, Section 146, Block 02, Lot 8.2, a distance of approximately 205 feet to a point formed by the westerly property line of District 006, Section 146, Block 03, Lot 17 and the aforementioned boundary line.

THENCE, running north along the easterly property line of District 006, Section 146, Block 02, Lot 8.2, a distance of approximately 337 feet to a point formed by the southerly right-of-way line of Old River Road and the aforementioned boundary line.

THENCE, running east along the northerly right-of-way line of Old River Road, a distance of approximately 122 feet to a point formed by the westerly property line of District 006, Section 146, Block 03, Lot 01 and the aforementioned boundary line.

THENCE, running north along the westerly property line of District 006, Section 146, Block 03, Lot 01, a distance of approximately 972 feet to the northwesterly corner of aforementioned property.

THENCE, running east along the northerly property line of District 006, Section 146, Block 03, Lot 01, a distance of approximately 1,109 feet to a point on the aforementioned boundary line.

THENCE, running north along the westerly property line of District 006, Section 146, Block 03, Lot 01, a distance of approximately 714 feet to a point formed by the southerly property line of District 006, Section 141.2, Block 04, Lot 61 and the aforementioned boundary line.

THENCE, running east along the northerly property line of District 006, Section 146, Block 03, Lot 01, a distance of approximately 549 feet to the northeasterly corner of aforementioned property.

THENCE, running north along the westerly property line of District 006, Section 141, Block 03, Lot 01, a distance of approximately 409 feet to the point formed by the southerly and westerly property lines of District 006, Section 142, Block 01, Lot 1.3 and the aforementioned boundary line.

THENCE, running north along the westerly property line of District 006, Section 142, Block 01, Lot 1.3, a distance of approximately 978 feet to the point formed by the southerly and easterly property lines of District 006, Section 141, Block 02, Lot 09 and the aforementioned boundary line.

THENCE, running east along the northerly property line of District 006, Section 142, Block 01, Lot 1.3, a distance of approximately 903 feet to the point formed by the southeasterly corner of District 006, Section 141, Block 02, Lot 09 and the aforementioned boundary line.

THENCE, running north along the westerly property line of District 006, Section 142, Block 01, Lot 1.3, a distance of approximately 736 feet to the point formed by the southerly property line of District 006, Section 141, Block 02, Lot 2.1, the northerly property line of District 006, Section 141, Block 02, Lot 07 and the aforementioned boundary line.

THENCE, running west along the southerly property line of District 006, Section 141, Block 02, Lot 2.1, a distance of approximately 903 feet to a point formed by the northerly and westerly property lines of District 006, Section 141, Block 02, Lot 03 and the aforementioned boundary line.

THENCE, running north along the westerly property line of District 006, Section 141, Block 02, Lot 2.1, a distance of approximately 970 feet to appoint formed by the southerly right-of-way line of Grumman Boulevard, the easterly property line of District 006, Section 141.1, Block 03, Lot 16.1 and the aforementioned boundary line.

THENCE, running east along the southerly right-of-way line of Grumman Boulevard, a distance of approximately 5,156 feet to the point formed by the westerly right-of-way line of River Road and the aforementioned boundary line.

THENCE, running east long the southerly right-of-way line of River Road, a distance of approximately 1,606 feet to the point formed by the easterly property line of District 006, Section 147, Block 01, Lot 3.1 and the aforementioned boundary line. Said point being the aforementioned **Point of Beginning**.

END OF DESCRIPTION



architects + engineers

538 Broad Hollow Road, 4th Floor East
Melville, NY 11747 | tel 631.756.8000

February 10, 2021

Supt. Frank Mancini, P.G.
Riverhead Water District
1035 Pulaski Street
Riverhead, New York 11901

**Re: Riverhead Water District
Proposed Extension No. 94 - South Manorville
Preliminary Cost Estimate
H2M Project No. RDWD2052**

Dear Supt. Mancini:

At the request of the Town of Riverhead, we have been authorized to prepare this Preliminary Cost Estimate associated with the Map & Plan being considered for both the extension of the boundaries of the Riverhead Water District and a lateral extension of water facilities to provide disenfranchised areas with potable water and fire protection. This area includes approximately sixty-four parcels of which fifty-six are residential in nature. All parcels are entirely within the boundaries of the Town but obtain water from private wells.

The extension will include the installation of approximately 24,500 feet of new cement-lined ductile water main along River Road, Old River Road, Horton Court, Wading River Manor Road, Oakwood Drive and Line Road including the appropriate valves and hydrants. In addition, a new one-inch water service is proposed to be extended to each home. The total estimated cost to extend water facilities to the affected properties is \$5,848,000. The table below includes a detailed estimation of the proposed costs to extend these facilities:

ITEM	DESCRIPTION	ESTIMATED QUANTITY	UNIT PRICE	TOTAL PRICE
1A	Furnish & Install 6" CLDI Water Main	500 LF	\$58.00	\$29,000.00
1B	Furnish & Install 8" CLDI Water Main	6,000 LF	\$76.00	\$456,000.00
1D	Furnish & Install 12" CLDI Water Main	17,500 LF	\$104.00	\$1,820,000.00
2	MJ Castings	10,500 LBS	\$1.50	\$15,750.00
3A	6" MJ Valves & Boxes	29 UNITS	\$1,650.00	\$47,850.00
3B	8" MJ Valves & Boxes	6 UNITS	\$3,000.00	\$18,000.00
3D	12" MJ Valves & Boxes	18 UNITS	\$4,200.00	\$75,600.00
4A	Hydrant Assembly	29 UNITS	\$4,800.00	\$139,200.00
5	Pressure & Bacteriological Testing	24,000 LF	\$2.00	\$48,000.00
6	R&D of Unsuitable Soils	1,500 CY	\$70.00	\$105,000.00
8D	Cut-In Connection on 12" Water Man	1 UNIT	\$20,250.00	\$20,250.00
9	Furnish & Place Clean Fill	1,500 CY	\$40.00	\$60,000.00



10	Town Asphalt Road Restoration	6,000 SY	\$120.00	\$720,000.00
13	Wetland / Stream Crossing (HDPE)	3 UNITS	\$16,000.00	\$48,000.00
14	Soft Shoulder Restoration	14,000 LF	\$3.00	\$42,000.00
26	Mobilization	1 UNIT	\$5,000.00	\$5,000.00
30A	Install 1" Water Service up to Meter	64 UNITS	\$3,000.00	\$192,000.00
30P	Install 1" Service Meter to House	64 UNITS	\$15,000.00	\$960,000.00
CONSTRUCTION COST SUBTOTAL:				\$4,801,650.00
Preparation of Map & Plan and NYSDEC Application:				\$9,500.00
Survey, Regulatory Permitting, NYSDEC Coordination:				\$45,000.00
Design, SCDHS Submission and Bidding:				\$172,000.00
Construction Administration, As-Built Drawings & Map Updates:				\$62,000.00
Construction Observation Services:				\$134,000.00
Contingencies (approx. 5%):				\$236,522.00
Key Money Fees (\$6,052 / dwelling):				\$387,328.00
NON-CONSTRUCTION COST SUBTOTAL:				\$1,036,850.00
TOTAL PROJECT COST:				\$5,848,000.00

Should you have any questions or comments regarding this cost estimation, please feel free to contact the undersigned.

Very truly yours,

H2M architects + engineers

Digitally signed by John Collins,
 P.E.
 DN: c=US,
 John Collins, P.E. E=jcollins@h2m.com, OU=H2M,
 CN=John Collins, P.E.
 Date: 2021.02.10 12:05:36-0500

John R. Collins, P.E.

cc: Annemarie Prudenti, Esq.