

**Western New York
Science & Technology
Advanced Manufacturing Park
(STAMP)**

**Town of Alabama Water Service
Incentive**

Prepared for:

**Genesee County Economic Development Center
99 Medtech Drive, Batavia, NY 14020**

March 2011



Clark Patterson Lee
DESIGN PROFESSIONALS

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PROJECT

Town of Alabama Water Improvements

The Town of Alabama is proposing numerous water system improvements within the area surrounding the STAMP project. Of the proposed Town of Alabama water improvements listed below, there are four (4) improvement areas that would overlap the development proposed by the STAMP project (highlighted in bold font). The improvement areas consist of the following items according to the Preliminary Engineering Report prepared by Chatfield Engineers, P.C. for the Town of Alabama in March of 2010:

- 1. Approximately 22,000 linear feet of 12-inch PVC water main along Judge Road, from Macomber Road to Alleghany Road.**
2. Approximately 4,000 linear feet of 8-inch PVC water main along Maple Street from Judge Road to 7170 Maple Street.
- 3. Approximately 7,000 linear feet of 8-inch PVC water main along Alleghany Road, from Judge Road to House #7342 Alleghany Road.**
4. Approximately 3,700 linear feet of 8-inch PVC water main along Bloomingdale Road, from Alleghany Road to House #1099 Bloomingdale Road.
5. Approximately 7,800 linear feet of 8-inch PVC water main along Alleghany Road, from Judge Road to Lewiston Road.
6. Approximately 2,300 linear feet of 8-inch PVC water main along Alleghany Road, from Lewiston Road to House # 6430 Alleghany Road.
7. Approximately 13,500 linear feet of 8-inch PVC water main along Lewiston Road from Alleghany Road to House #739 Lewiston Road.
- 8. Approximately 3,200 linear feet of 8-inch PVC water main along Crosby Road from Lewiston Road to House #6725 Crosby Road.**
9. Approximately 1,320 linear feet of 6-inch PVC water main along Church Street from Lewiston Road to Alleghany Road.
10. Approximately 13,200 linear feet of 8-inch PVC water main along Lewiston Road from Alleghany Road to Knowlesville Road.
11. Approximately 600 linear feet of 6-inch PVC water main along Lewiston Road from Knowlesville Road to House #2135 Lewiston Road.
12. Approximately 7,200 linear feet of 8-inch PVC water main along Knowlesville from Lewiston Road to House #6242 Knowlesville Road.

13. Approximately 4,500 linear feet of 8-inch PVC water main along Knowlesville Road from Lewiston Road to Ham Road.
14. Approximately 2,300 linear feet of 8-inch PVC water main along Ham Road from Knowlesville Road to Knowlesville Road.
15. Approximately 3,600 linear feet of 8-inch PVC water main along Knowlesville Road from Ham Road to Judge Road.
- 16. Approximately 7,500 linear feet of 12-inch PVC water main along Judge Road from Macomber Road to 500' west of Lewiston Road.**

The total capital cost of these improvements is approximately **\$5,208,930**. New York State requires that the Town calculate the annual cost of water service of infrastructure for each household. The annual cost for the proposed improvements would be **\$882.77** per year. This amount exceeds the annual limit of \$685 as set by the New York State Comptroller for year 2011. If a \$1,500,000 USDA RD Grant were awarded, the amount would be reduced to **\$722.60** per year, still in excess of the NYS Comptroller limits. Furthermore, we understand that the USDA has put all such grants on hold. Thus, the Town lacks adequate funding to undertake the water project.

A map and cost estimates showing the Town of Alabama water improvements are included in Appendix A. The cost estimates includes services and hydrants.

STAMP Phase 1 Water Main Project

Approximately 1.0 MGD of water capacity is required for Phase 1 of the STAMP development. To meet this demand, several of the alternatives explored in the Water Service Preliminary Report prepared by Clark Patterson Lee would need to be completed. Alternatives 1: Route 77 Water Main, Pembroke Connection, 2: Water Storage Tank and 3: Route 63 and South Pearl Road Water Main would be required to meet Phase 1 demands.

Alternative 1: Route 77 Water Main, Pembroke Connection would include approximately 36,000 linear feet of 16-inch ductile iron water main along Route 77, Crosby Road and Judge Road and approximately 7,000 linear feet of 12-inch ductile iron water main along Route 77.

Alternative 2: Water Storage Tank would consist of constructing a water storage tank within the STAMP project site. For the initial phase of the project, the size of the tank would be 2,000,000 gallons. This tank would need to be expandable to 4,000,000 gallons to accommodate the final Full Build-Out of the project. Construction of this alternative is important to the STAMP project and would benefit fire flows in the Town greatly. However, it is not required to properly service the Town's needs.

Alternative 3: Route 63 and South Pearl Road Water Main would include approximately 15,000 linear feet of 16-inch ductile iron water main along Route 63 from Route 77 to Maple Street Road, approximately 15,000 linear feet of 12-inch ductile iron water main from Maple Street

Road to the Village of Oakfield, and approximately 9,500 linear feet of 12-inch ductile iron water main along South Pearl Road.

The estimated total capital cost associated with the STAMP Phase 1 Water Main Project is **\$17,247,000**. A map and full cost estimate showing the STAMP Phase 1 water main improvements are included in Appendix B. The estimate includes hydrants but does not include individual water services along the water main route.

Water Service Incentive

Of the proposed Town of Alabama water improvement areas listed above, there are four (4) improvement areas that would overlap the proposed water improvements of the STAMP Phase 1 Water Main Project. If the STAMP Phase 1 water main is completed, the Town would only need to install water services in these areas. The STAMP water mains would have adequate capacity to service the Town water demands. Based on STAMP project requirements and the Water Service Preliminary Report prepared by Clark Patterson Lee in February 2011, the proposed 12-inch PVC water main along Judge Road would be upgraded to a 16-inch ductile iron pipe. Upgrading to a 16-inch pipe will provide more capacity to the STAMP project when needed. Upgrading to ductile iron pipe will allow the option of dedicating the main to Monroe County Water Authority in the future for operation and maintenance purposes.

If the Town agrees to the proposed Incentive Zoning Agreement/Concepts, the following is a summary of the improvements that would no longer need to be installed by the Town:

1. Approximately 22,000 linear feet of water main along Judge Road, from Macomber Road to Alleghany Road.
2. Approximately 7,000 linear feet of water main along Alleghany Road, from Judge Road to House #7342 Alleghany Road.
3. Approximately 3,200 linear feet of water main along Crosby Road from Lewiston Road to House #6725 Crosby Road.
4. Approximately 7,500 linear feet of water main along Judge Road from Macomber Road to 500' west of Lewiston Road.

A map and cost estimate showing the overlap of the Town of Alabama Water Project and the STAMP Phase 1 Water Main Project are included in Appendix C. This proposed overlap could result in significant savings to the Town that could be provided as an amenity pursuant to an Incentive Zoning Agreement.

The Water Service amenity will reduce the Town Project's Total Capital Cost by approximately \$1.9 million, which would reduce the proposed cost of the Town's infrastructure project to **\$683.95** per year to the average residential user, which is below the NYS Comptroller's limit of \$685. The STAMP Project could further reduce the total cost. With an additional 50% Incentive Zoning Contribution of approximately \$1,648,673, the net result is a Total Capital Cost of

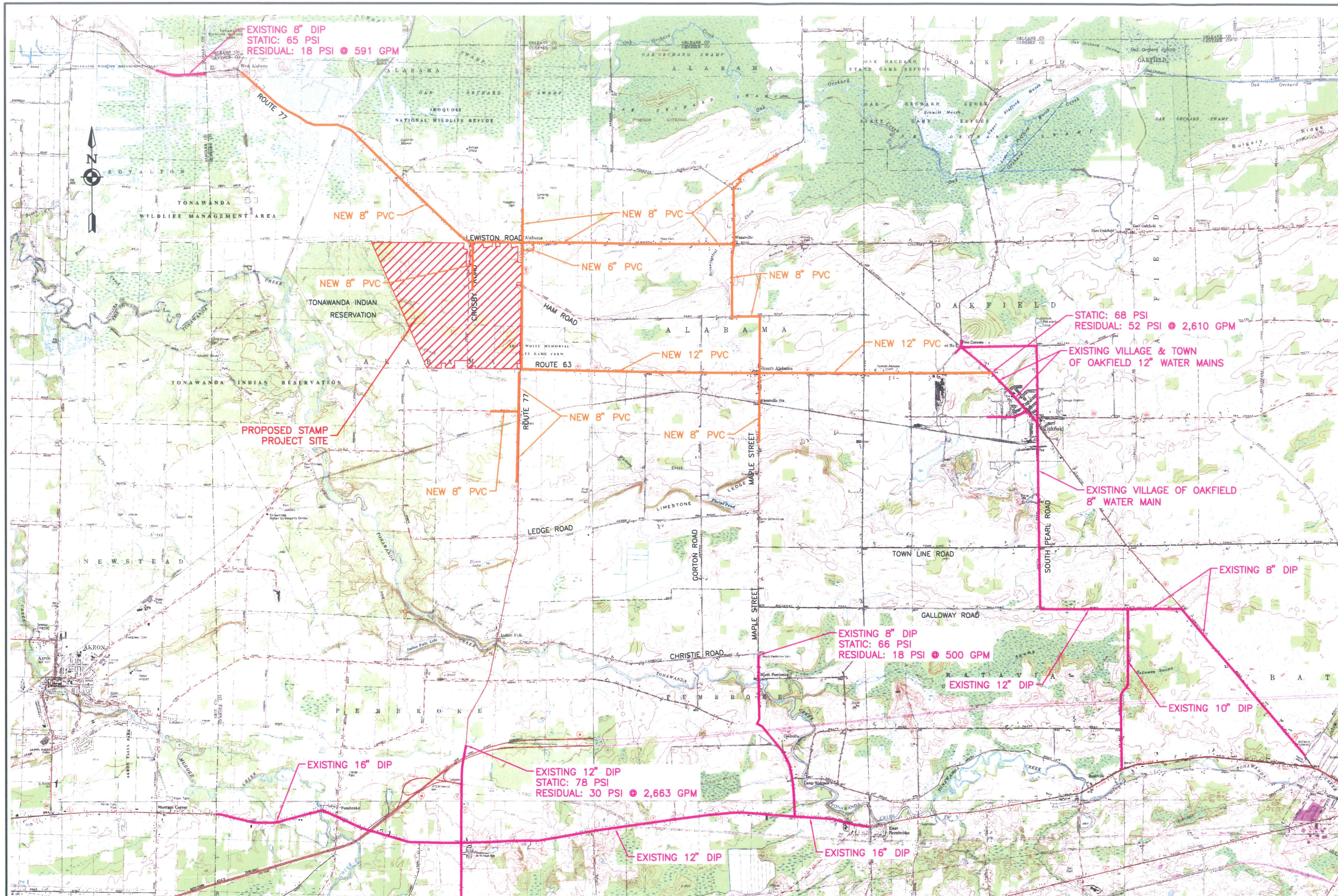
approximately **\$1,648,673** and total cost of **\$512.48** per year to the average residential user. Additional details of the agreement will be included in the proposed Town of Alabama Incentive Zoning Agreement.

APPENDIX A – TOWN OF ALABAMA WATER IMPROVEMENTS

A-1: FIGURE

**A-2: PRELIMINARY BUDGET ESTIMATE –
NO GRANT**

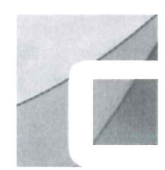
**A-3: PRELIMINARY BUDGET ESTIMATE –
WITH GRANT**



LEGEND

EXISTING WATER MAIN	
PROPOSED WATER MAIN (BY OTHERS)	
POTENTIAL STAMP ALTERNATIVE	
TOWN OF ALABAMA PROPOSED PROJECTS	

REVISIONS				
NO.	DATE	BY	CHKD	DESCRIPTION



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GENESEE COUNTY
ECONOMIC DEVELOPMENT CENTER
 TOWN OF ALABAMA GENESEE COUNTY NEW YORK

DATE: 01/19/10
 DRAWN: ARK
 DESIGNED: ARK
 CHECKED: TAC
 SCALE: 1"=6000'

SCIENCE AND TECHNOLOGY
 ADVANCED MANUFACTURING PARK (STAMP)
TOWN OF ALABAMA PROJECT

PROJECT NUMBER
 11790.00
 DRAWING NUMBER
W-010

STAMP
WATER FEASIBILITY STUDY
PRELIMINARY BUDGET ESTIMATE

DATE: 03/28/11

Town of Alabama Project (Based on Preliminary Engineering Report prepared by Chatfield Engineers, March 8, 2010)

Without Grant

Item	Description	Quantity	Unit	Unit Price	Total
1	Rock Excavation	1,000	CY	\$100.00	\$ 100,000.00
2	Select Fill	200	CY	\$30.00	\$ 6,000.00
3	6" PVC DR-18 Water Main	1,920	LF	\$20.00	\$ 38,400.00
4	8" PVC DR-18 Water Main	72,300	LF	\$22.00	\$ 1,590,600.00
5	12" PVC DR-18 Water Main	29,500	LF	\$27.00	\$ 796,500.00
6	Sand Bedding	103,720	LF	\$1.00	\$ 103,720.00
7	1" Corp & tap	411	EA	\$300.00	\$ 123,300.00
8	1" Copper Service Tubing	8,235	LF	\$10.00	\$ 82,350.00
9	1" Curb Stop & Box	411	EA	\$375.00	\$ 154,125.00
10	Hydrant Assembly	173	EA	\$3,500.00	\$ 605,500.00
11	6" Hydrant Extension	4	EA	\$350.00	\$ 1,400.00
12	12" Hydrant Extension	4	EA	\$400.00	\$ 1,600.00
13	18" Hydrant Extension	4	EA	\$450.00	\$ 1,800.00
14	Connection To Existing	1	EA	\$2,500.00	\$ 2,500.00
15	Water Sampling Station	8	EA	\$1,750.00	\$ 14,000.00
16	6" Gate Valve	4	EA	\$1,000.00	\$ 4,000.00
17	8" Gate Valve	50	EA	\$1,300.00	\$ 65,000.00
18	12" Gate Valve	20	EA	\$2,000.00	\$ 40,000.00
18	Asphalt Road Crossing Restoration	300	LF	\$25.00	\$ 7,500.00
19	Asphalt Driveway Restoration	2,040	LF	\$20.00	\$ 40,800.00
20	Crusher Run Driveway Restoration	1,050	LF	\$11.10	\$ 11,655.00
21	Horizontal Boring and Casing	4	LS	\$40,000.00	\$ 160,000.00
22	Upsizing Oakfield WST to accommodate Alabama	1	LS	\$250,000.00	\$ 250,000.00
CONSTRUCTION SUBTOTAL:					\$ 4,200,750.00
CONTINGENCY (5%):					\$ 210,037.50
LEGAL, ENGINEERING, ADMINISTRATION (19%):					\$ 798,142.50
TOTAL CAPITAL COST:					\$ 5,208,930.00

TOTAL CAPITAL COST:	\$ 5,208,930.00
NET LOCAL SHARE:	\$ 5,208,930.00
TOTAL NUMBER OF BILLABLE UNITS:	411
YEARLY DEBT SERVICE WITH GRANT (2.75% FOR 38 YEARS):	\$ 222,669.45
YEARLY DEBT SERVICE/PARCEL WITH GRANT:	\$ 541.77
PLUS AVERAGE WATER USAGE PER HOUSEHOLD (60,000 GAL/YR.):	\$ 341.00
TOTAL COSTS FOR AVERAGE RESIDENTIAL USER:	\$ 882.77

Notes:

- 1.) NYS Comptroller 2011 limit for automatic WD approval is \$685/year
- 2.) Estimated yearly water cost: \$20/q + \$3.35/1,000 gal @ 60,000 gal/yr + Future O&M \$1/1,000 gal @ 60,000 gal/yr = \$341

STAMP
WATER FEASIBILITY STUDY
PRELIMINARY BUDGET ESTIMATE

DATE: 03/28/11

Town of Alabama Project (Based on Preliminary Engineering Report prepared by Chatfield Engineers, March 8, 2010)

With Grant

Item	Description	Quantity	Unit	Unit Price	Total
1	Rock Excavation	1,000	CY	\$100.00	\$ 100,000.00
2	Select Fill	200	CY	\$30.00	\$ 6,000.00
3	6" PVC DR-18 Water Main	1,920	LF	\$20.00	\$ 38,400.00
4	8" PVC DR-18 Water Main	72,300	LF	\$22.00	\$ 1,590,600.00
5	12" PVC DR-18 Water Main	29,500	LF	\$27.00	\$ 796,500.00
6	Sand Bedding	103,720	LF	\$1.00	\$ 103,720.00
7	1" Corp & tap	411	EA	\$300.00	\$ 123,300.00
8	1" Copper Service Tubing	8,235	LF	\$10.00	\$ 82,350.00
9	1" Curb Stop & Box	411	EA	\$375.00	\$ 154,125.00
10	Hydrant Assembly	173	EA	\$3,500.00	\$ 605,500.00
11	6" Hydrant Extension	4	EA	\$350.00	\$ 1,400.00
12	12" Hydrant Extension	4	EA	\$400.00	\$ 1,600.00
13	18" Hydrant Extension	4	EA	\$450.00	\$ 1,800.00
14	Connection To Existing	1	EA	\$2,500.00	\$ 2,500.00
15	Water Sampling Station	8	EA	\$1,750.00	\$ 14,000.00
16	6" Gate Valve	4	EA	\$1,000.00	\$ 4,000.00
17	8" Gate Valve	50	EA	\$1,300.00	\$ 65,000.00
18	12" Gate Valve	20	EA	\$2,000.00	\$ 40,000.00
18	Asphalt Road Crossing Restoration	300	LF	\$25.00	\$ 7,500.00
19	Asphalt Driveway Restoration	2,040	LF	\$20.00	\$ 40,800.00
20	Crusher Run Driveway Restoration	1,050	LF	\$11.10	\$ 11,655.00
21	Horizontal Boring and Casing	4	LS	\$40,000.00	\$ 160,000.00
22	Upsizing Oakfield WST to accommodate Alabama	1	LS	\$250,000.00	\$ 250,000.00
CONSTRUCTION SUBTOTAL:					\$ 4,200,750.00
CONTINGENCY (5%):					\$ 210,037.50
LEGAL, ENGINEERING, ADMINISTRATION (19%):					\$ 798,142.50
TOTAL CAPITAL COST:					\$ 5,208,930.00

TOTAL CAPITAL COST:	\$ 5,208,930.00
LESS USDA RD GRANT:	\$ (1,540,000.00)
NET LOCAL SHARE:	\$ 3,668,930.00
TOTAL NUMBER OF BILLABLE UNITS:	411
YEARLY DEBT SERVICE WITH GRANT (2.75% FOR 38 YEARS):	\$ 156,838.09
YEARLY DEBT SERVICE/PARCEL WITH GRANT:	\$ 381.60
PLUS AVERAGE WATER USAGE PER HOUSEHOLD (60,000 GAL/YR.):	\$ 341.00
TOTAL COSTS FOR AVERAGE RESIDENTIAL USER:	\$ 722.60

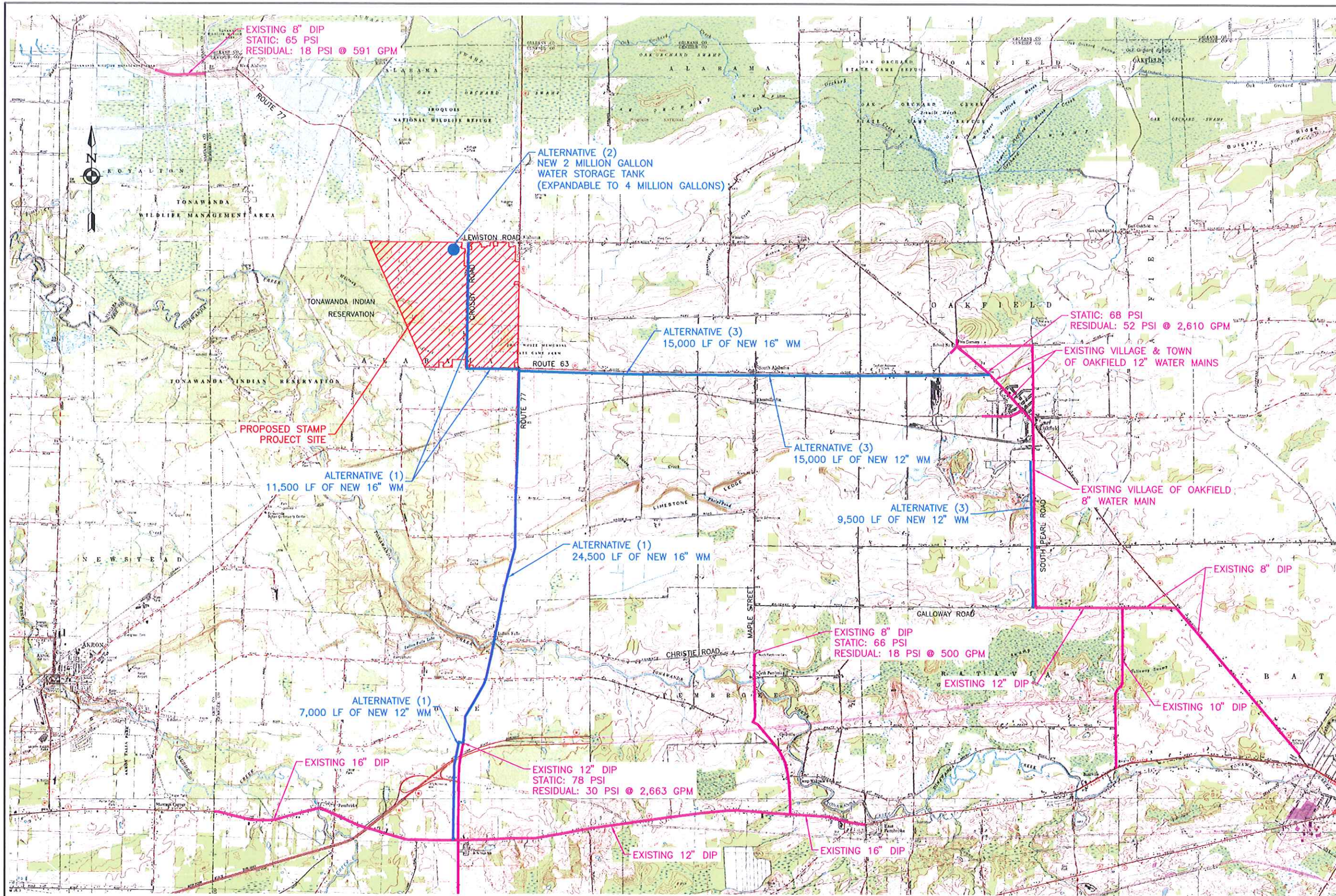
Notes:

- 1.) NYS Comptroller 2011 limit for automatic WD approval is \$685/year
- 2.) Estimated yearly water cost: \$20/q + \$3.35/1,000 gal @ 60,000 gal/yr + Future O&M \$1/1,000 gal @ 60,000 gal/yr = \$341

APPENDIX B – STAMP PHASE 1 WATER MAIN PROJECT

B-1: FIGURE

B-2: PRELIMINARY BUDGET ESTIMATE



LEGEND

EXISTING WATER MAIN	
PROPOSED WATER MAIN (BY OTHERS)	
POTENTIAL STAMP ALTERNATIVE	

REVISIONS				
NO.	DATE	BY	CHKD	DESCRIPTION



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GENESEE COUNTY
ECONOMIC DEVELOPMENT CENTER
 TOWN OF ALABAMA GENESEE COUNTY NEW YORK

DATE: 01/19/10
 DRAWN: ARK
 DESIGNED: ARK
 CHECKED: TAC
 SCALE: 1"=6000'

SCIENCE AND TECHNOLOGY
 ADVANCED MANUFACTURING PARK (STAMP)
FIGURE #9
PHASE 1 REQUIREMENTS

PROJECT NUMBER
 11790.00
 DRAWING NUMBER
W-009

STAMP
WATER FEASIBILITY STUDY
PRELIMINARY BUDGET ESTIMATE
DATE: 12/29/10

PHASE 1: 1.0 MGD

Alternative 1: Route 77 Water Main, Pembroke Connection

Item	Description	Quantity	Unit	Unit Price	Total
1	Furnish and Install 16" DIP Water Main	36,000	LF	\$60.00	\$ 2,160,000.00
2	Furnish and Install 12" DIP Water Main	7,000	LF	\$50.00	\$ 350,000.00
3	Gate Valves	15	EA	\$2,800.00	\$ 42,000.00
4	Hydrants	95	EA	\$3,500.00	\$ 332,500.00
5	Directional Drilling with 12" or 16" Water Main	1,400	LF	\$225.00	\$ 315,000.00
6	Open Cut Road Crossings	500	LF	\$50.00	\$ 25,000.00
7	Connection to Existing Water Main Complete	2	EA	\$3,500.00	\$ 7,000.00
8	Rock Excavation	1,000	CY	\$75.00	\$ 75,000.00
9	Expandable Water Storage Tank	0	Gal	\$3.00	\$ -
10	Route 5 Pump Station Upgrade	1	LS	\$500,000.00	\$ 500,000.00
CONSTRUCTION SUBTOTAL					\$ 3,806,500.00
CONTINGENCY (15%)					\$ 570,975.00
LEGAL, ENGINEERING, ADMINISTRATION (25%)					\$ 951,625.00
TOTAL					\$ 5,329,100.00
TOTAL CAPITAL COST					\$ 5,330,000.00

Alternative 2: Water Storage Tank

Item	Description	Quantity	Unit	Unit Price	Total
1	Furnish and Install 16" DIP Water Main	0	LF	\$60.00	\$ -
2	Furnish and Install 12" DIP Water Main	0	LF	\$50.00	\$ -
3	Gate Valves	0	EA	\$2,800.00	\$ -
4	Hydrants	0	EA	\$3,500.00	\$ -
5	Directional Drilling with 12" or 16" Water Main	0	LF	\$225.00	\$ -
6	Open Cut Road Crossings	0	LF	\$50.00	\$ -
7	Connection to Existing Water Main Complete	0	EA	\$3,500.00	\$ -
8	Rock Excavation	0	CY	\$75.00	\$ -
9	Expandable Water Storage Tank	2,000,000	Gal	\$3.00	\$ 6,000,000.00
10	Upgrades to other Systems	0	LS	\$500,000.00	\$ -
CONSTRUCTION SUBTOTAL					\$ 6,000,000.00
CONTINGENCY (15%)					\$ 900,000.00
LEGAL, ENGINEERING, ADMINISTRATION (20%)					\$ 1,200,000.00
TOTAL					\$ 8,100,000.00
TOTAL CAPITAL COST					\$ 8,100,000.00

Alternative 3: Route 63 & South Pearl Road/Street Water Main

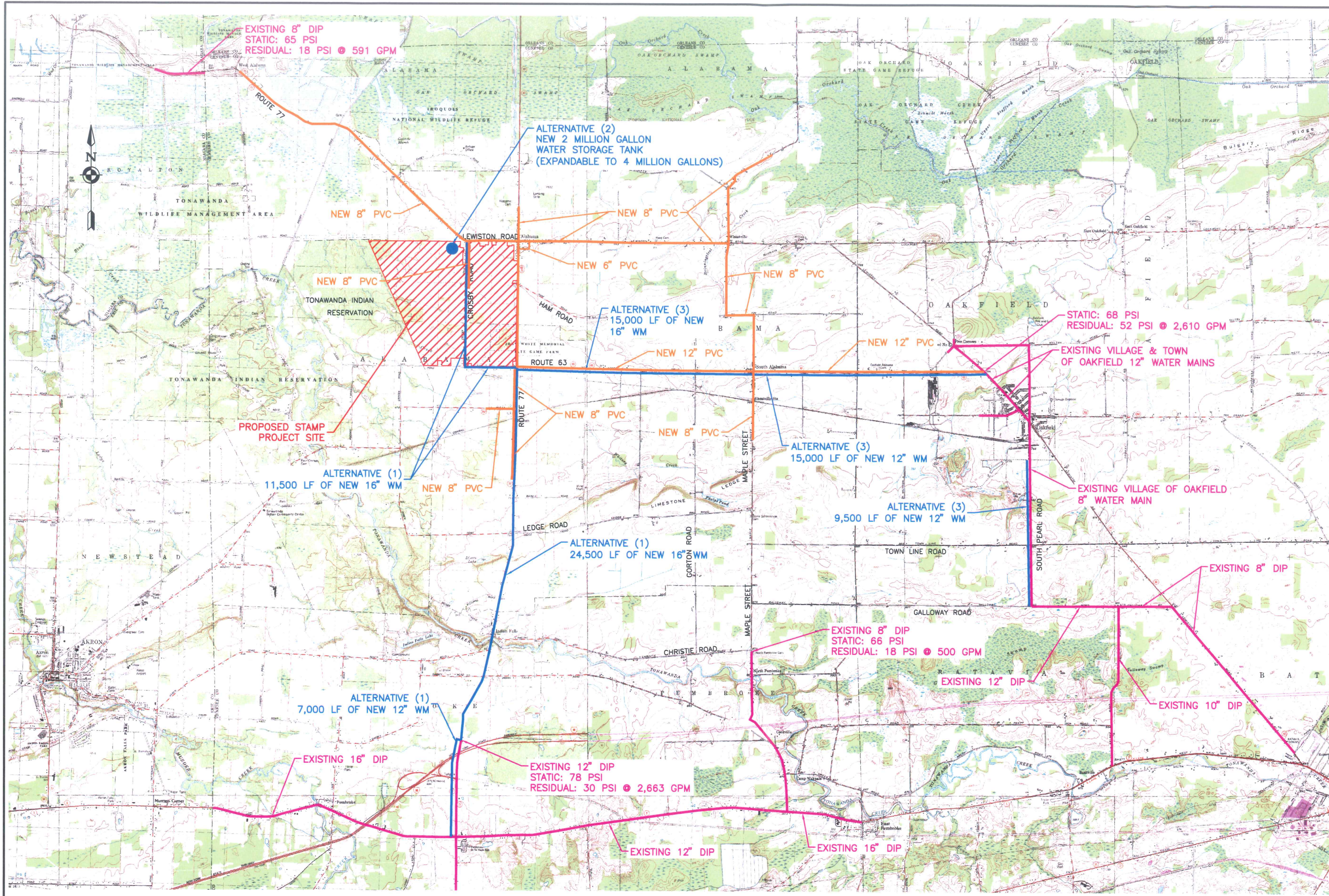
Item	Description	Quantity	Unit	Unit Price	Total
1	Furnish and Install 16" DIP Water Main	15,000	LF	\$60.00	\$ 900,000.00
2	Furnish and Install 12" DIP Water Main	24,500	LF	\$50.00	\$ 1,225,000.00
3	Gate Valves	15	EA	\$2,800.00	\$ 42,000.00
4	Hydrants	80	EA	\$3,500.00	\$ 280,000.00
5	Directional Drilling with 12" or 16" Water Main	800	LF	\$225.00	\$ 180,000.00
6	Open Cut Road Crossings	200	LF	\$50.00	\$ 10,000.00
7	Connection to Existing Water Main Complete	4	EA	\$3,500.00	\$ 14,000.00
8	Rock Excavation	1,000	CY	\$75.00	\$ 75,000.00
9	Expandable Water Storage Tank	0	Gal	\$3.00	\$ -
10	Upgrades to other Systems	0	LS	\$500,000.00	\$ -
CONSTRUCTION SUBTOTAL					\$ 2,726,000.00
CONTINGENCY (15%)					\$ 408,900.00
LEGAL, ENGINEERING, ADMINISTRATION (25%)					\$ 681,500.00
TOTAL					\$ 3,816,400.00
TOTAL CAPITAL COST					\$ 3,817,000.00

PHASE 1 TOTAL CAPITAL COST: \$ 17,247,000.00

- 1) It is assumed that Rock Excavation will be required. Sub-surface investigation will be needed to accurately estimate the total quantity.
- 2) Upgrades to other systems are assumed. Further analysis will be required to determine specific upgrades.
- 3) Carrier water main cost is not included in items 5 and 6. These items are additional costs to items 1 and 2.

APPENDIX C – WATER SERVICE INCENTIVE

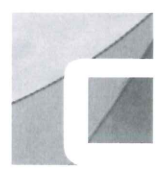
- C-1: FIGURE**
- C-2: PRELIMINARY BUDGET ESTIMATE –
NO GRANT**
- C-3: PRELIMINARY BUDGET ESTIMATE –
TOWN OF ALABAMA AND STAMP**
- C-4: PRELIMINARY BUDGET ESTIMATE –
REMAINING TOWN OF ALABAMA
PROJECT**



LEGEND

EXISTING WATER MAIN	
PROPOSED WATER MAIN (BY OTHERS)	
POTENTIAL STAMP ALTERNATIVE	
TOWN OF ALABAMA PROPOSED PROJECTS	

REVISIONS				
NO.	DATE	BY	CHKD	DESCRIPTION



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SCIENCE AND TECHNOLOGY
 ADVANCED MANUFACTURING PARK (STAMP)
OVERLAP OF TOWN OF ALABAMA
WATER PROJECT AND STAMP PHASE I

PROJECT NUMBER
 1790.00
 DRAWING NUMBER
W-011

STAMP
WATER FEASIBILITY STUDY
PRELIMINARY BUDGET ESTIMATE

DATE: 03/28/11

Town of Alabama Project (Based on Preliminary Engineering Report prepared by Chatfield Engineers, March 8, 2010)

Without Grant

Item	Description	Quantity	Unit	Unit Price	Total
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3	6" PVC DR-18 Water Main	1,920	LF	\$20.00	\$ 38,400.00
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STAMP
WATER FEASIBILITY STUDY
PRELIMINARY BUDGET ESTIMATE

DATE: 03/28/11

Town of Alabama Project (Based on Preliminary Engineering Report prepared by Chatfield Engineers, March 8, 2010)

Item	Description	Quantity	Unit	Unit Price	Total
1A	Rock Excavation	1,000	CY	\$100.00	\$ 100,000.00
2A	Select Fill	200	CY	\$30.00	\$ 6,000.00
3A	6" PVC DR-18 Water Main	1,920	LF	\$20.00	\$ 38,400.00
4A	8" PVC DR-18 Water Main	62,100	LF	\$22.00	\$ 1,366,200.00
4S	8" PVC DR-18 Water Main	10,200	LF	\$22.00	\$ 224,400.00
5A	12" PVC DR-18 Water Main	0	LF	\$27.00	\$ -
5S	12" PVC DR-18 Water Main	29,500	LF	\$27.00	\$ 796,500.00
6A	Sand Bedding	64,020	LF	\$1.00	\$ 64,020.00
6S	Sand Bedding	39,700	LF	\$1.00	\$ 39,700.00
7A	1" Corp & tap	411	EA	\$300.00	\$ 123,300.00
8A	1" Copper Service Tubing	8,235	LF	\$10.00	\$ 82,350.00
9A	1" Curb Stop & Box	411	EA	\$375.00	\$ 154,125.00
10A	Hydrant Assembly	107	EA	\$3,500.00	\$ 374,500.00
10S	Hydrant Assembly	66	EA	\$3,500.00	\$ 231,000.00
11A	6" Hydrant Extension	4	EA	\$350.00	\$ 1,400.00
12A	12" Hydrant Extension	4	EA	\$400.00	\$ 1,600.00
13A	18" Hydrant Extension	4	EA	\$450.00	\$ 1,800.00
14A	Connection To Existing	1	EA	\$2,500.00	\$ 2,500.00
15A	Water Sampling Station	8	EA	\$1,750.00	\$ 14,000.00
16A	6" Gate Valve	4	EA	\$1,000.00	\$ 4,000.00
17A	8" Gate Valve	50	EA	\$1,300.00	\$ 65,000.00
18A	12" Gate Valve	20	EA	\$2,000.00	\$ 40,000.00
18A	Asphalt Road Crossing Restoration	300	LF	\$25.00	\$ 7,500.00
19A	Asphalt Driveway Restoration	2,040	LF	\$20.00	\$ 40,800.00
20A	Crusher Run Driveway Restoration	1,050	LF	\$11.10	\$ 11,655.00
21A	Horizontal Boring and Casing	4	LS	\$40,000.00	\$ 160,000.00
22A	Upsizing Oakfield WST to accommodate Alabama	1	LS	\$250,000.00	\$ 250,000.00
22S	Upsizing Oakfield WST to accommodate Alabama (Not Required for STAMP)	0	LS	\$250,000.00	\$ -
CONSTRUCTION SUBTOTAL:					\$ 4,200,750.00
CONTINGENCY (5%):					\$ 210,037.50
LEGAL, ENGINEERING, ADMINISTRATION (19%):					\$ 798,142.50
TOTAL CAPITAL COST:					\$ 5,208,930.00

TOTAL CAPITAL COST:	\$ 5,208,930.00
NET LOCAL SHARE:	\$ 5,208,930.00
TOTAL NUMBER OF BILLABLE UNITS:	411
YEARLY DEBT SERVICE WITH GRANT (2.75% FOR 38 YEARS):	\$ 222,669.45
YEARLY DEBT SERVICE/PARCEL WITH GRANT:	\$ 541.77
PLUS AVERAGE WATER USAGE PER HOUSEHOLD (60,000 GAL/YR.):	\$ 341.00
TOTAL COSTS FOR AVERAGE RESIDENTIAL USER:	\$ 882.77

Notes:

- 1.) NYS Comptroller 2011 limit for automatic WD approval is \$685/year
- 2.) Estimated yearly water cost: \$20/q + \$3.35/1,000 gal @ 60,000 gal/yr + Future O&M \$1/1,000 gal @ 60,000 gal/yr = \$341
- 3.) Items followed by an A are the responsibility of the Town of Alabama
- 4.) Items followed by an S are part of the STAMP Project

**STAMP
WATER FEASIBILITY STUDY
PRELIMINARY BUDGET ESTIMATE**

DATE: 03/28/11

STAMP Infrastructure Credit

Item	Description	Quantity	Unit	Unit Price	Total
4S	8" PVC DR-18 Water Main	10,200	LF	\$22.00	\$ 224,400.00
5S	12" PVC DR-18 Water Main	29,500	LF	\$27.00	\$ 796,500.00
6S	Sand Bedding	39,700	LF	\$1.00	\$ 39,700.00
10S	Hydrant Assembly	66	EA	\$3,500.00	\$ 231,000.00
22S	Upsizing Oakfield WST to accommodate Alabama (Not Required for STAMP)	1	LS	\$250,000.00	\$ 250,000.00
CONSTRUCTION SUBTOTAL:					\$ 1,541,600.00
CONTINGENCY (5%):					\$ 77,080.00
LEGAL, ENGINEERING, ADMINISTRATION (19%):					\$ 292,904.00
TOTAL CAPITAL COST:					\$ 1,911,584.00

Remaining Town of Alabama Project (Based on Preliminary Engineering Report prepared by Chatfield Engineers, March 8, 2010)

Item	Description	Quantity	Unit	Unit Price	Total
1A	Rock Excavation	1,000	CY	\$100.00	\$ 100,000.00
2A	Select Fill	200	CY	\$30.00	\$ 6,000.00
3A	6" PVC DR-18 Water Main	1,920	LF	\$20.00	\$ 38,400.00
4A	8" PVC DR-18 Water Main	62,100	LF	\$22.00	\$ 1,366,200.00
5A	12" PVC DR-18 Water Main	0	LF	\$27.00	\$ -
6A	Sand Bedding	64,020	LF	\$1.00	\$ 64,020.00
7A	1" Corp & tap	411	EA	\$300.00	\$ 123,300.00
8A	1" Copper Service Tubing	8,235	LF	\$10.00	\$ 82,350.00
9A	1" Curb Stop & Box	411	EA	\$375.00	\$ 154,125.00
10A	Hydrant Assembly	107	EA	\$3,500.00	\$ 374,500.00
11A	6" Hydrant Extension	4	EA	\$350.00	\$ 1,400.00
12A	12" Hydrant Extension	4	EA	\$400.00	\$ 1,600.00
13A	18" Hydrant Extension	4	EA	\$450.00	\$ 1,800.00
14A	Connection To Existing	1	EA	\$2,500.00	\$ 2,500.00
15A	Water Sampling Station	8	EA	\$1,750.00	\$ 14,000.00
16A	6" Gate Valve	4	EA	\$1,000.00	\$ 4,000.00
17A	8" Gate Valve	50	EA	\$1,300.00	\$ 65,000.00
18A	12" Gate Valve	20	EA	\$2,000.00	\$ 40,000.00
18A	Asphalt Road Crossing Restoration	300	LF	\$25.00	\$ 7,500.00
19A	Asphalt Driveway Restoration	2,040	LF	\$20.00	\$ 40,800.00
20A	Crusher Run Driveway Restoration	1,050	LF	\$11.10	\$ 11,655.00
21A	Horizontal Boring and Casing	4	LS	\$40,000.00	\$ 160,000.00
CONSTRUCTION SUBTOTAL:					\$ 2,659,150.00
CONTINGENCY (5%):					\$ 132,957.50
LEGAL, ENGINEERING, ADMINISTRATION (19%):					\$ 505,238.50
TOTAL CAPITAL COST:					\$ 3,297,346.00

TOTAL CAPITAL COST:	\$ 3,297,346.00
INCENTIVE ZONING CONTRIBUTION (50%):	\$ 1,648,673.00
NET LOCAL SHARE:	\$ 1,648,673.00
TOTAL NUMBER OF BILLABLE UNITS:	411
YEARLY DEBT SERVICE WITH GRANT (2.75% FOR 38 YEARS):	\$ 70,476.88
YEARLY DEBT SERVICE/PARCEL WITH GRANT:	\$ 171.48
PLUS AVERAGE WATER USAGE PER HOUSEHOLD (60,000 GAL/YR.):	\$ 341.00
TOTAL COSTS FOR AVERAGE RESIDENTIAL USER:	\$ 512.48

Notes:

- 1.) NYS Comptroller 2011 limit for automatic WD approval is \$685/year
- 2.) Estimated yearly water cost: \$20/q + \$3.35/1,000 gal @ 60,000 gal/yr + Future O&M \$1/1,000 gal @ 60,000 gal/yr = \$341
- 3.) Oakfield WST upsizing would not be required if STAMP Phase I WST is constructed
- 4.) Items followed by an A are the responsibility of the Town of Alabama
- 5.) Items followed by an S are part of the STAMP Project