

Burnt Hills Ballston Lake  
Water District No. 2  
Connection to SCWA

East Line Road  
Metering/Chlorination/  
Pump Station





MAP REFERENCE  
USGS Topographic Map  
Round Lake, NY Quadrangle, Dated 2000  
7.5 Minute Series, NAD 83 UTM18N  
Downloaded from CUGIR on 1/28/2010



ARCHITECTURE &  
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C.T. MALE ASSOCIATES, P.C.

30 CENTURY HILL DRIVE, PO BOX 337, LATIHA, NY 12110  
PHONE (518) 786-7400 FAX (518) 786-7269

**SITE LOCATION MAP**  
East Line Road  
Metering/Chlorination Station

TOWN OF BALLSTON	SARATOGA COUNTY, NY
SCALE: 1" = 250'	
DRAFTER: KRP	
PROJECT NO: 08.8544	



# System Map

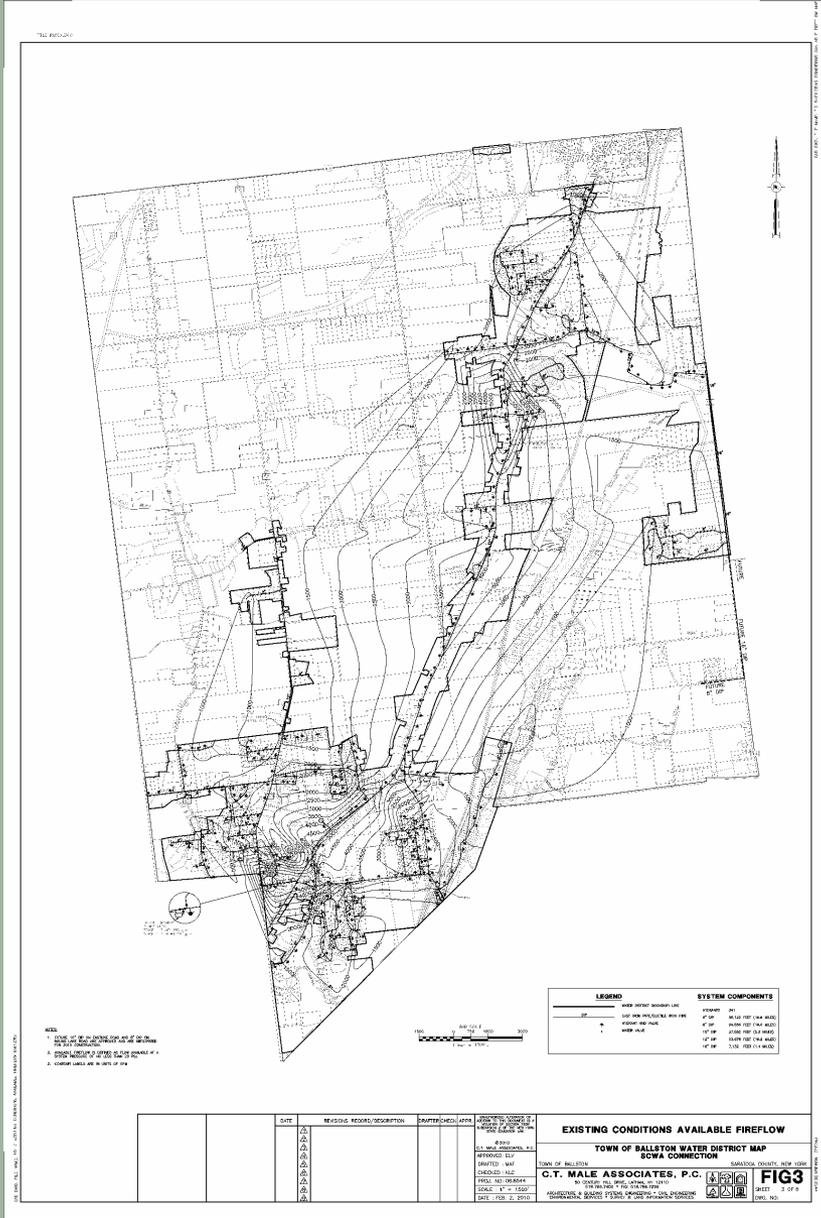




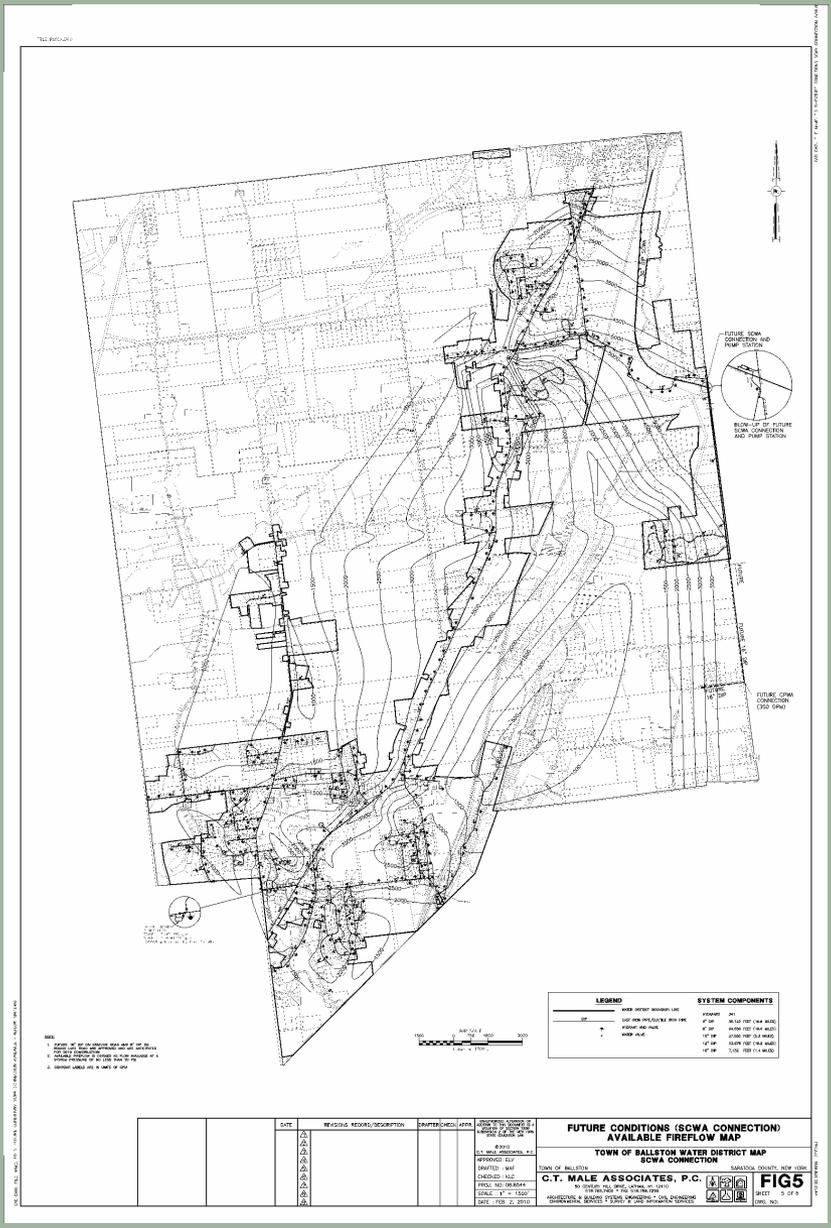
# Hydraulic Maps





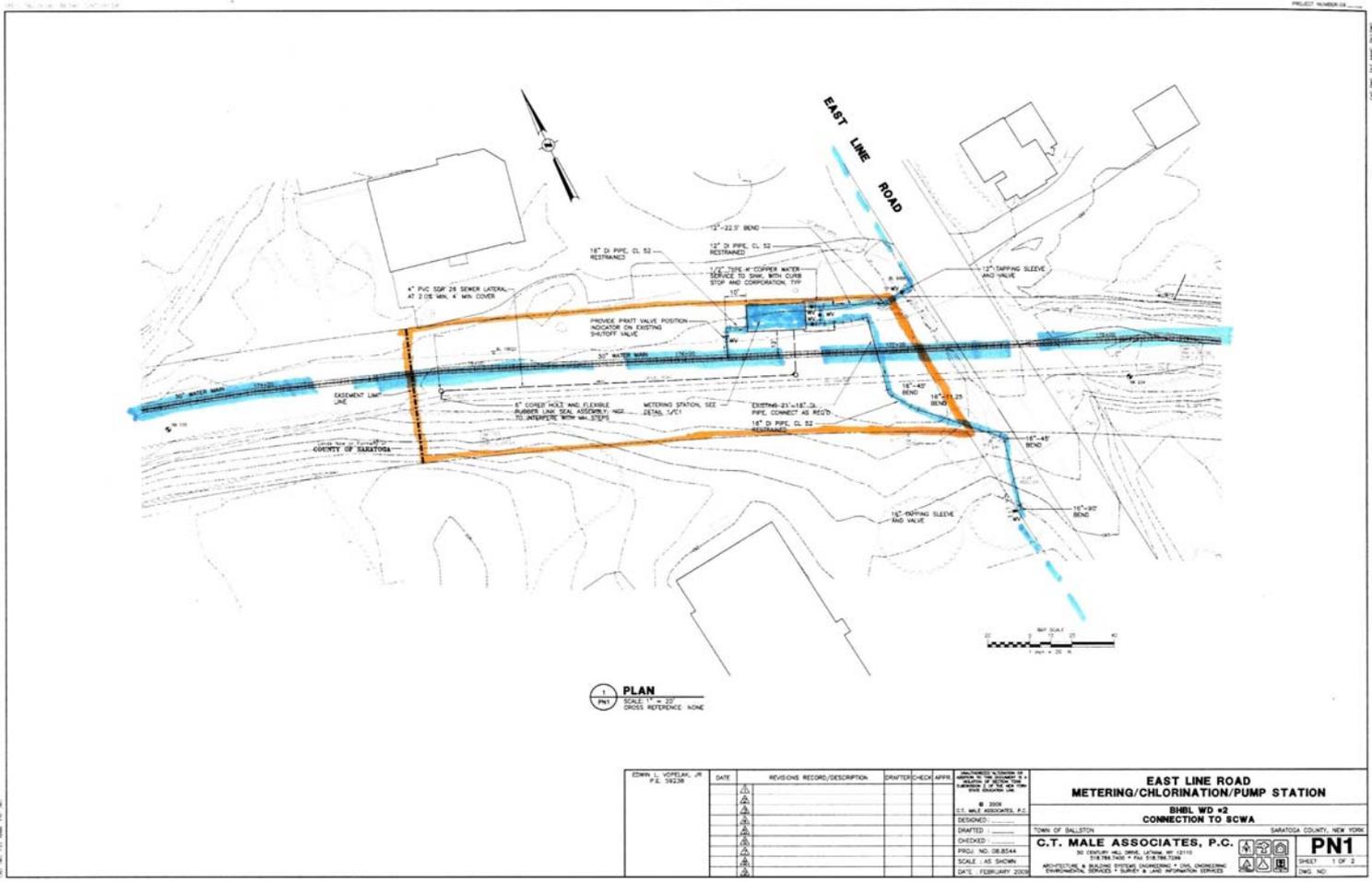






# Site Plan





**1 PLAN**  
SCALE 1" = 20'  
GRID REFERENCE NONE

DATE	REVISIONS RECORD/DESCRIPTION	DRAWN	CHECK	APPR.	APPROVED FOR CONSTRUCTION	PROJECT NO.	TOWN OF	SARATOGA COUNTY, NEW YORK
10/20/09						08.8544	BALLSTON	

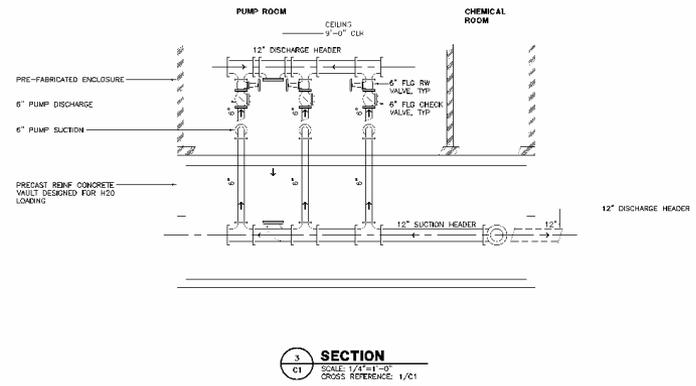
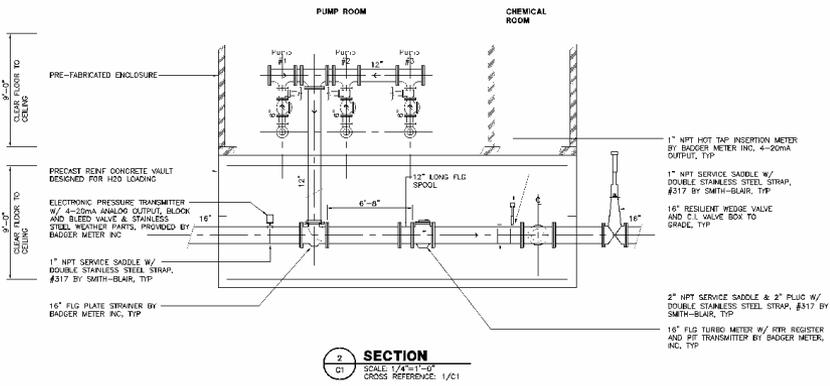
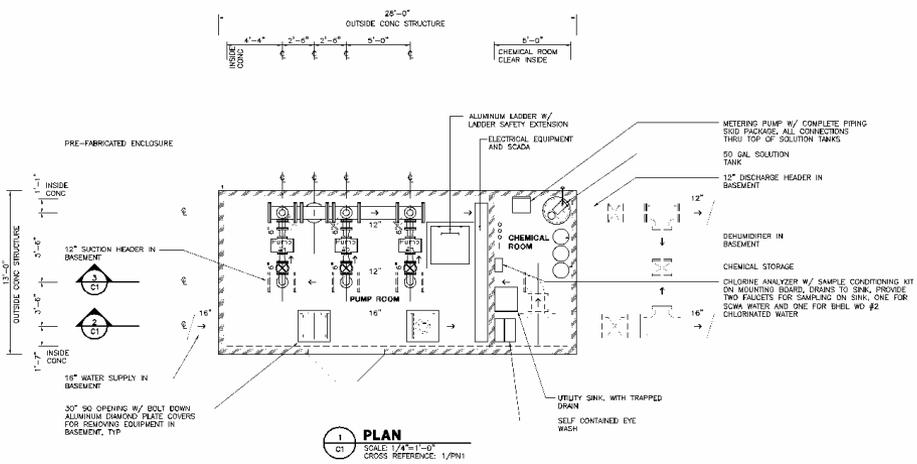
  

<b>EDWIN L. COVELL, JR.</b> P.E. 00238		PROJECT NO. 08.8544 DATE: FEBRUARY 2009		EAST LINE ROAD METERING/CHLORINATION/PUMP STATION CONNECTION TO SCWA BHL WD #2 SARATOGA COUNTY, NEW YORK	
C.T. MALE ASSOCIATES, P.C. 90 FANING HILL ROAD, SUITE #12115 THE PALMERS • PALM BEACH, FLORIDA		SCALE: AS SHOWN		PN1 SHEET 1 OF 2 DWG. NO.	



# Pump Station Plan





EDWIN L. KOPELAK, JR. P.E. 50238	DATE	REVISIONS RECORD/DESCRIPTION	DRAWN	CHECK	APPR.	CONTRACT NO. 14-000000 CONNECTION TO SCWA BIODIVERSITY + PUMP STATION #2 OF THE NEW YORK STATE AQUARIUM	<b>EAST LINE ROAD METERING/CHLORINATION/PUMP STATION</b>  <b>BHBL WD #2 CONNECTION TO SCWA</b>  TOWN OF BALLSTON SARATOGA COUNTY, NEW YORK  <b>C.T. MALE ASSOCIATES, P.C.</b> 80 CENTURY HILL DRIVE, LATHAM, NY 12110 518-785-7400 • FAX 518-785-7099 ARCHITECTURE & BUILDING SYSTEMS ENGINEERING • CIVIL ENGINEERING ENVIRONMENTAL SERVICES • SURVEY & LAND INFORMATION SERVICES
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# Estimated Project Cost

The total estimated cost of the BHBLWD#2 connection to the SCWA is as follows:

Metering/Chlorination/Booster Pump Station and Connection to SCWA Water Main		\$471,000
Land Acquisition (1)		\$0
	CONSTRUCTION (2)	\$471,000
	CONSTRUCTION CONTINGENCY (10%)	\$46,600
	ENGINEERING	\$68,400
ESTIMATED PROJECT COST		\$586,000
ESTIMATED PROJECT COST WITH CAPITAL CONTRIBUTION BY CPWA (3)		\$400,000

(1) Easement from County at no cost.

(2) Construction Cost Estimate in Exhibit B.

(3) The BHBLWD#2 is negotiating with the CPWA for a capital cost contribution for the construction of the facility since it will be used as a connection to CPWA system. For budget purposes their contribution is assumed to be one third of the total project cost less the price of the pumps, or about \$186,000.

The cost to the BHBLWD#2 for the connection, when bonded over 20 years at 3.25%, is estimated to be \$27,646 per year.



Water Use BHBLWD#2

YEAR

2007	335,000 gpd
2008	321,000 gpd
2009	293,000 gpd

3 YEAR DAILY AVERAGE 316,000 gpd

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TYPICAL WATER USE: 200 gpd/customer

1,905 customers x 200 gpd: 381,000 gpd



Average Water Use Year - 316,000 Gpd  
 Purchased Water Cost Per Year  
 For  
 BHBLWD#2

<u>SOURCE</u>	T/Glenville	316,000 gpd	
Glenville Ad Valorem Charge			\$174,909
Glenville Water @ \$2.35/1,000 gal x 316,000 gal/day x 365 days			\$271,049
			Total \$445,958

<u>SOURCE</u>	T/Glenville	100,000 gpd	
	SCWA	216,000 gpd	
Glenville Ad Valorem Charge			\$174,909
Glenville Water @ \$2.35/1,000/gal x 100,000 gal/day x 365 days			\$ 85,775
SCWA Water @ \$2.05/1,000/gal x 216,000 gal/day x 365 days			\$161,622
Amortized Capital Cost of SCWA Connection			\$ 27,646
			Total \$449,952

<u>SOURCE</u>	SCWA	316,000 gpd	
SCWA Water @ \$2.05/1,000 gal x 316,000 gal/day x 365 days			\$236,447 /year
Amortized Capital Cost of SCWA Connection			\$ 27,646
			Total \$264,093



Breakeven Water Use Year - 352,475 Gpd  
 Purchased Water Cost Per Year  
 For  
 BHBLWD#2

<u>SOURCE</u>	T/Glenville	352,475 gpd	
	Glenville Ad Valorem Charge		\$174,909
	Glenville Water @ \$2.35/1,000 gal x 352,475 gal/day x 365 days		\$302,335
		Total	<hr/> \$477,244

<u>SOURCE</u>	T/Glenville	100,000 gpd	
	SCWA	252,475 gpd	
	Glenville Ad Valorem Charge		\$174,909
	Glenville Water @ \$2.35/1,000/gal x 100,000 gal/day x 365 days		\$ 85,775
	SCWA Water @ \$2.05/1,000/gal x 252,475 gal/day x 365 days		\$188,914
	Amortized Capital Cost of SCWA Connection		\$ 27,646
			<hr/> \$477,244



# Sample Building Styles









