

# Station 3 11kV and 34kV Relocation Project

MPESC 1/22/07

# Overview

- Old Beebee Station at High Falls
- Also an 11kV hub for the downtown system
- Tear down some structures at Beebee Station site
- Prepare site for new station to be developed – St 137
- Build new duct bank on Mill St
- Re-route 22 circuits into new station (See Single Line)
- Re-route 2 circuits to station 23
- Install new 11kV and 34kV equipment
- Install state-of-the-art relay and communications
- Abandon T&D equipment in the old station

# Outside Scope

- Demolition, removal and if necessary, site remediation of any buildings and land located in flats area of Beebee Station
- Future 115kV projects currently being evaluated
- Future Hydro projects at High Falls

# Benefits

- Upgrades current electrical equipment
- Improves downtown network reliability
- Improves worker and public safety
- Complements NY State and RG&E Green Initiative
- Moves all electric equipment from Beebee
- Removes need for buildings at Beebee.

# Cost Estimates

- Original AE – \$xx.xM
- Scope Increased
- Revised Cost Estimates - \$xx.xM

# Project Approach

- Develop high-level solution ✓
- Re-validate estimated costs ✓
- Develop RFP (in progress)
- Contract engineering, major equipment procurement, construction in 2 phases
- Award contract
- Manage project
- Switch over to new station
- Abandon old station

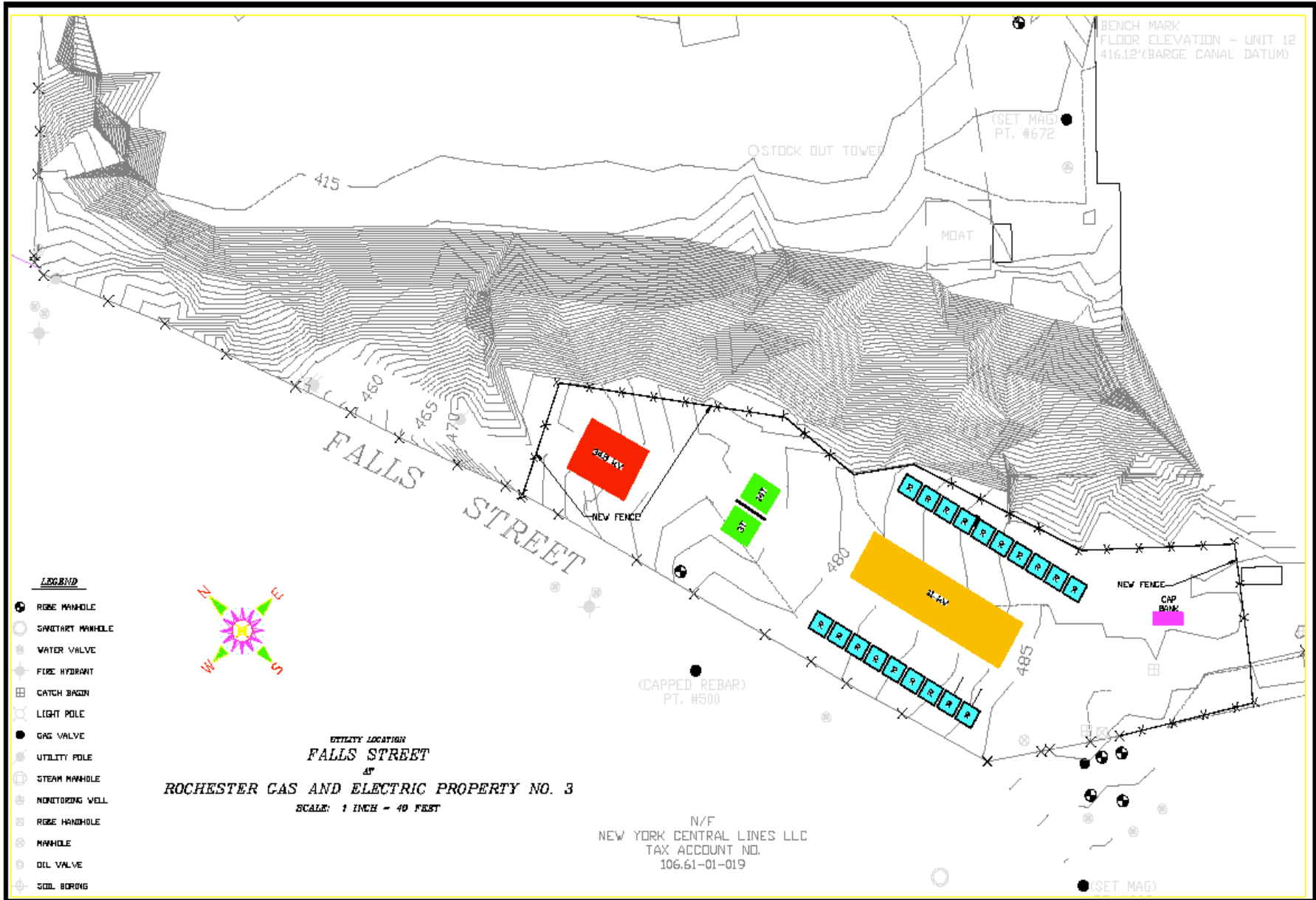
# Site Overview

Enter: <http://maps.google.com/maps>

Enter: 296 Mill St Rochester, NY

Press: Satellite Button

Zoom in/out using tool on left



# Demolition and Site Preparation

# New Site – 296 Mill St



# Remove Office Building



# Remove North Boiler Stack



# Remove Coal Handling Equipment



# Remove Coal Handling Equipment



# Remove Coal Handling Equipment



# Electric Equipment Replacement

# Replace Old 11kV Gear



# Replace Old 11kV Gear



# Replace Old 11kV Gear



# Build New Substation #137



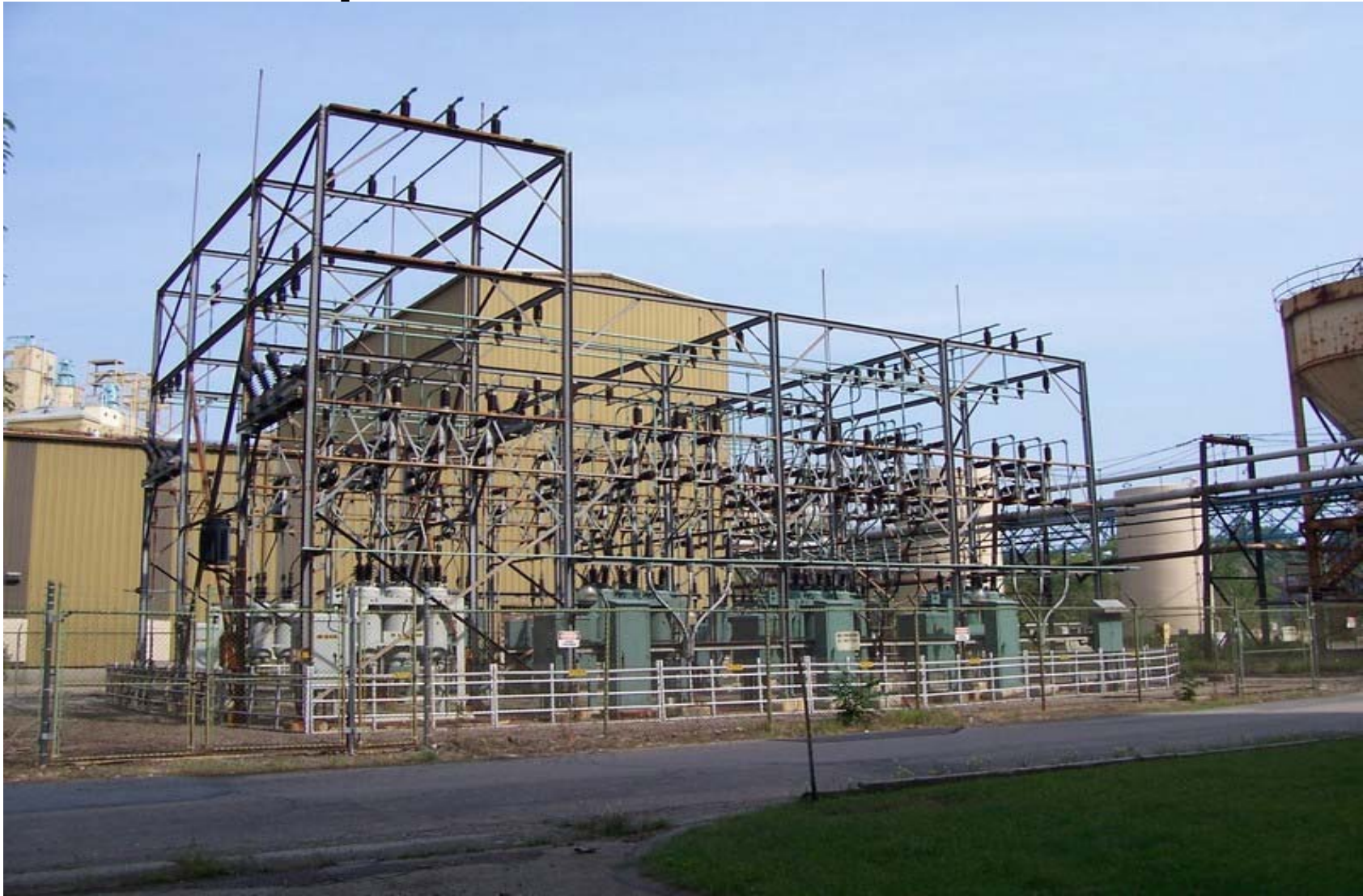
# Install New 11kV Gear



# Install New 11kV Gear



# Replace Old 34kV Gear



# Replace Old 34kV Gear



# Replace Old 34kV Gear



# Replace Old 34kV Gear



# Install New 34kV Gear



# Install New 34kV Gear



# Working Equipment Staying in Flats

# #13 Generator



# #13 Generator Diesel Tanks



# Project Timeline

No Group

Show Arial 8 **B** *I* U All Tasks

		Task Name	Duration	Start	Finish	Predecessors	Resource Names
1		<b>Station 137</b>	<b>645 days</b>	<b>Tue 1/9/07</b>	<b>Mon 6/29/09</b>		
2		Perform clean-up of existing station and make safe	60 days	Tue 1/9/07	Mon 4/2/07		Fingado
3		Obtain Executive Steering Committee Approval to proceed	1 day	Mon 1/22/07	Mon 1/22/07		Rohr
4		Have kick-off meeting with Rochester officials	1 day	Thu 1/25/07	Thu 1/25/07		Rohr
5		Develop and submit RFP to engineering bidders	45 days	Thu 1/18/07	Wed 3/21/07		Rohr
6		Review engineering RFP	10 days	Thu 3/22/07	Wed 4/4/07	5	Contractor
7		Have pre-bid meetings with engineering firms	1 day	Thu 4/5/07	Thu 4/5/07	6	Sperduto,Engineering Contractor
8		Prepare bids for RG&E review	20 days	Fri 4/6/07	Thu 5/3/07	7	Engineering Contractor
9		Review bids and award contract(s) to engineering firm	10 days	Fri 5/4/07	Thu 5/17/07	8	Sperduto
10		Obtain necessary permits	360 days	Tue 1/9/07	Mon 5/26/08		Fingado
11		Demolish existing structures	90 days	Tue 1/9/07	Mon 5/14/07	10SS	Fingado
12		Clear and grade site for construction	30 days	Tue 5/15/07	Mon 6/25/07	11	Fingado
13		Develop civil engineering design	150 days	Fri 5/4/07	Thu 11/29/07	8	Engineering Contractor
14		Develop electrical engineering design	150 days	Fri 5/4/07	Thu 11/29/07	8	Engineering Contractor
15		Order long lead-time equipment	180 days	Fri 11/30/07	Thu 8/7/08	14	Engineering Contractor
16		Develop communications and relay engineering design	150 days	Fri 5/4/07	Thu 11/29/07	8	Engineering Contractor
17		Develop construction bid package and construction plan	150 days	Fri 5/4/07	Thu 11/29/07	8	Engineering Contractor
18		Develop testing and certification plan	120 days	Fri 5/4/07	Thu 10/18/07	8	Engineering Contractor
19		Submit RFP to construction bidders	1 day	Fri 11/30/07	Fri 11/30/07	17	Rohr
20		Review construction RFP	20 days	Mon 12/3/07	Fri 12/28/07	19	Construction Contractor
21		Have pre-bid meeting with construction firms	1 day	Mon 12/31/07	Mon 12/31/07	20	Frank
22		Prepare bids for RG&E review	20 days	Tue 1/1/08	Mon 1/28/08	21	Construction Contractor
23		Review bids and award contract(s) to construction firm	10 days	Tue 1/29/08	Mon 2/11/08	22	Frank
24		Complete Civil Work	120 days	Tue 2/12/08	Mon 7/28/08	23	Construction Contractor
25		Complete Electrical Substation and Cable Work	120 days	Tue 7/29/08	Mon 1/12/09	24	Construction Contractor
26		Complete Communications and Relay Work	120 days	Tue 7/29/08	Mon 1/12/09	24	Construction Contractor
27		Test and Certify	60 days	Tue 1/13/09	Mon 4/6/09	26	Construction Contractor
28		Wrap-Up	60 days	Tue 4/7/09	Mon 6/29/09	27	Rohr

# Questions

