



**NY Power
Authority**

STRATEGIC SUPPLY MANAGEMENT NORTH COUNTRY PROCUREMENT OPPORTUNITY EVENT

MAY 2, 2019

Agenda

1. Welcome – Joseph Kessler, EVP & Chief Operating Officer
2. Safety Topic – Timothy Burley – Construction Manager
3. Introduction – William Knowles - SSM Sr. Director Category Management
4. Presentations –
Ana Stachowiak – Project Manager
 - ✓ Moses Adirondack Smart Path Reliability Project
 - ✓ North Country Energy Storage Project

15 MIN BREAK

Timothy Burley – Construction Manager

- ✓ Joint Works Alcoa Power Works Project
- ✓ Elevated Water Tank Project
- ✓ Facilities For Office of Parks Project
- ✓ Underground Feeder for Long Sault Dam (LSD) Project

Agenda

5. Doing Business with NYPA

Vicki Daniels – Manager, Supplier Diversity

- Expressing interest as a Subcontractor/Supplier

Lunch

Afternoon networking

SAFETY MOMENT

Safety Moment

SAFETY MOMENT

NYPA OVERVIEW

NYPA was created by the Power Authority Act in 1931 and today provides low-cost electricity to New York businesses and individuals as well as energy services.



Our Mission

Power the economic growth and competitiveness of New York State by providing customers with low-cost, clean, reliable power and the innovative energy infrastructure and services they value.

Looking ahead, we will help bring about the flexible, distributed, consumer-driven energy system of the future by investing in the things that customers truly value. NYPA will lead this transformation in concert with our customers.

Strategic Priorities

- ❖ **Customer Success.** NYPA will make customer success our success.
- ❖ **Cost Leadership.** NYPA will continue to manage the risk of electricity price volatility for our customers by ensuring that they enjoy the best value energy bill.
- ❖ **Innovation.** NYPA will lead the State in accelerating and innovating new technologies and business models that help create value for NYPA and for our customers.

Key Statistics

NYPA set an ambitious goal to become the first digital utility as part of our Vision 2020 Strategic Plan, and will continue to provide innovative energy services to New York State customers for the next decade and beyond.

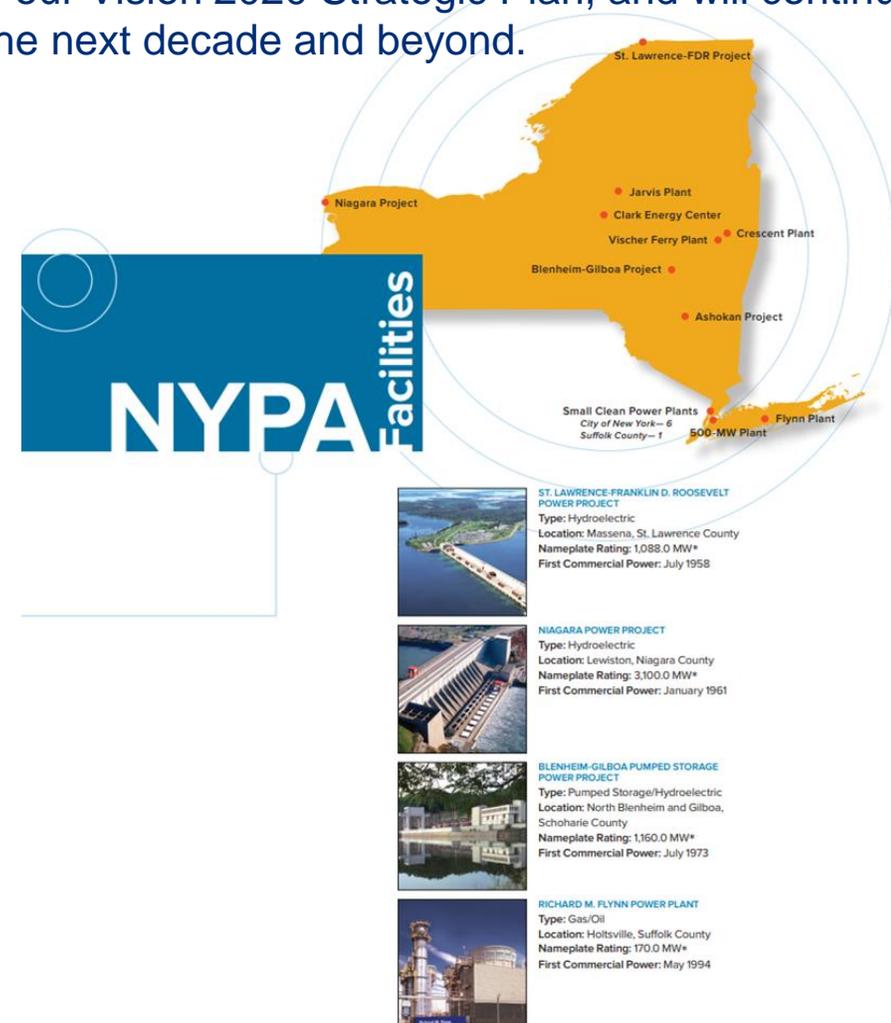
□ Key lines of business

- Power: 16 generating facilities and more than 1,400 circuit-miles of transmission lines
- Customer Energy Services: \$150M+ energy efficiency projects managed each year, and growing
- Innovative Energy Services: New York Energy Manager, EVOlve, others

□ Operating revenue: \$2.57B1

□ Operations & maintenance costs: \$680M1

- Includes capital projects
- Generally the spend that SSM manages



1. Source: 2017 Financial Report posted to NYPA.gov

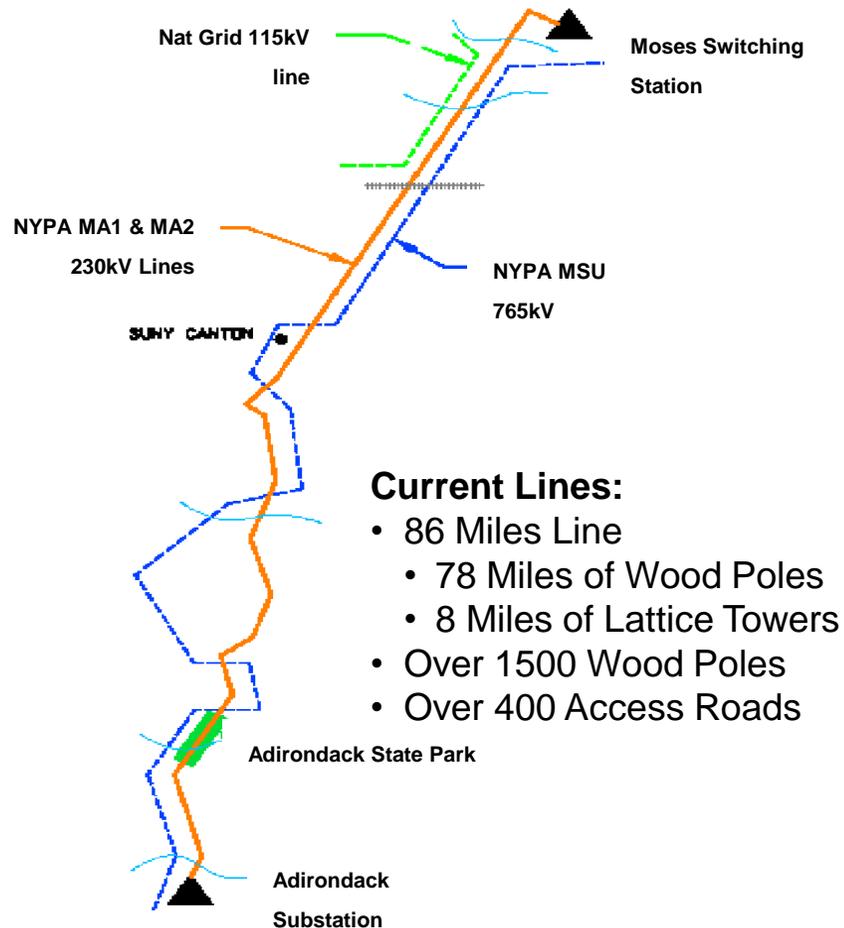


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**MOSES-ADIRONDACK SMART PATH RELIABILITY PROJECT
LOCAL SUBCONTRACTORS OPPORTUNITIES
NORTH COUNTRY PROCUREMENT FORUM**

MAY 2, 2019

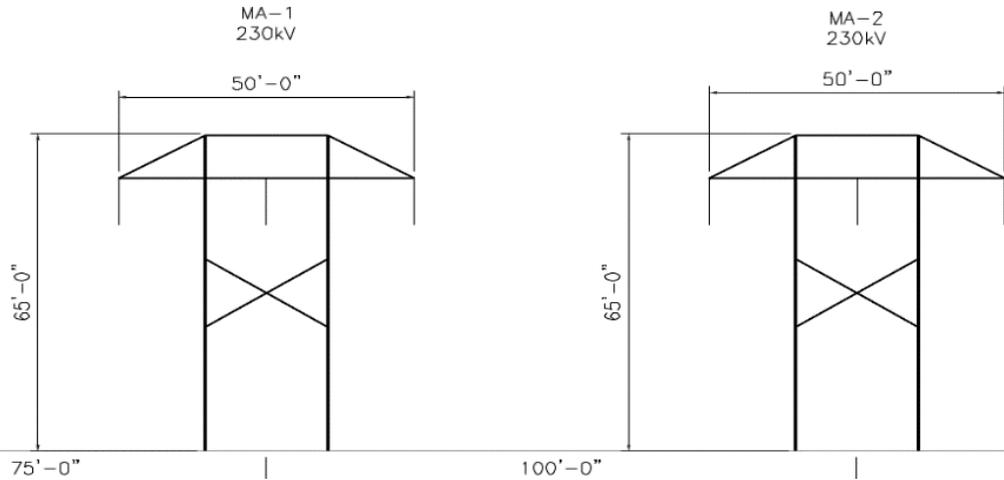
PROJECT SCOPE



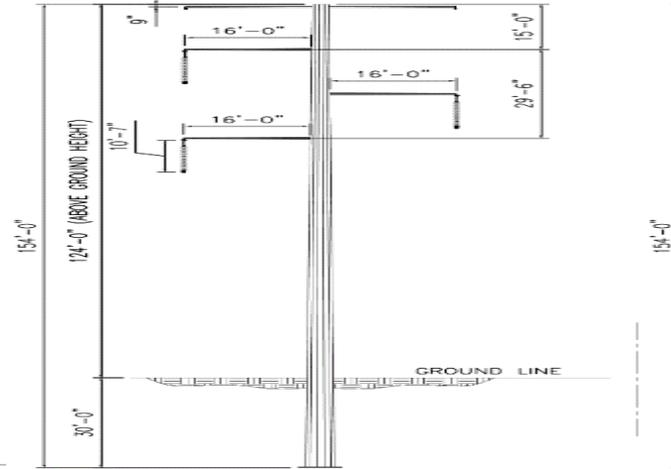
WORK OVERVIEW

- Installation of OPGW only, from Moses Switching Station (8 miles)
- Remove, Salvage and Dispose of the 78 miles of Existing H-Frame Wood Structures
- Furnish & Install Permanent & Temporary Access Roads, Working Pads and other Civil Structures.
- Clearing Around SUNY Canton
- Furnish & Install Structure Foundations
- Install 78 miles MA1 & MA2 with Steel Monopoles
- Install 2 Circuits of 2- 795 ACSR/phase, 2-OPGW, Restore ROW
- Materials Management and Construction from 3 Strategically Located Yards
- Install OPGW on Last Two (2) Spans into Adirondack Substation

Existing Structures



Planned Structures



Planned Services and Materials

During Construction



- Meet safety goals
- Construct per environmental certificates and permits
- Line perform as intended - replace the existing 230kV lines
- Meet or exceed the scheduled in-service dates
- Execute the project at the agreed pricing
- Maintain one existing line in service until the other line is finished
- Except for planned outages, no impact on transmission operations
- Minimize rework due to construction quality issues
- Safe and event-free construction, commissioning and energization

- ❑ **Licensing and Permit** – Underway
- ❑ **Engineering and Design** – Underway... Issue for Construction in the Next 60 Days
- ❑ **Environmental Management and Construction Planning (EMCP)** – Under development and submittal in the next 60 days.
- ❑ **Construction Contractors** – Short listed to 3 Contractors (KHMA, Michels and PAR)
- ❑ **Steel Poles** – Selected a manufacturer and currently working on the final designs.
- ❑ **Other Key Materials and Services** – Contracting or bidding currently underway for:
 - Conductors
 - Insulators
 - Line Hardware
 - Materials Management Services
 - Wood Poles Disposal

In addition to subcontracting goals for MBE(10%), WBE(15%) and SDVOB(6%), the selected Prime Contractors are expected to identify, develop and utilize local subcontractors through a number of programs such as:

- ❑ **Subcontractors Management Programs** – Business plans and processes for managing subcontractors of key work areas, e.g. helicopter services, foundation drilling, matting, etc.
- ❑ **Development and Mentoring Plan** – Commitment, strategies and plans to outreach, develop and grow MWBE, SDVOB and others subcontractors.
- ❑ **Success Stories** – Success stories and leverageable examples, highlighting the Prime Contractor’s initiatives that are in place used to develop and mentor subcontractors.
- ❑ **Local Subcontracting Development and Hiring** – Listing of current subcontractors in NYS and the Bidder’s overall plan for hiring, developing, and mentoring local subcontractors or workforce.
- ❑ **Business Continuity Plan** – Alternative “back up” subcontractors to keep the project running in the event of a disaster affecting the subcontractors.

A sample listing of the services available for subcontracting opportunities:

SERVICES :

VIDEOGRAPHY DURING CONSTRUCTION

SECURITY SERVICES

FUEL DELIVERY

MATERIALS MANAGEMENT AND LOGISTICS

SAFETY SUPPLIES

SILT FENCING INSTALLATION

TRENCHING

LAND RESTORATION

LODGING / HOTELS

LANDSCAPING

ELECTRICAL SUBCONTRACTORS

TRAFFIC CONTROL

FLAGGING

ROAD BUILDING

TREE REMOVAL

TEMP LABOR

COMMUNITY OUTREACH

FOOD SERVICES

MATERIALS TESTING

A sample listing of the materials and supply subcontracting opportunities

MATERIALS AND SUPPLY

CONCRETE MATERIALS SUPPLY

GRAVEL MATERIALS SUPPLY

EQUIPMENT RENTAL

PORTABLE RESTROOM FACILITIES

HARDWARE SUPPLY

ELECTRICAL MATERIAL SUPPLY

FUELS SUPPLY

GRAVEL SUPPLY

CONCRETE SUPPLY

MATTING SUPPLY

OFFICE TRAILER SUPPLY



**NY Power
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**NORTH COUNTRY ENERGY STORAGE PROJECT
LOCAL SUBCONTRACTORS OPPORTUNITIES
NORTH COUNTRY PROCUREMENT FORUM**

MAY 2, 2019

On March 8th, the Authority issued a public RFP, soliciting proposals from bidders with capabilities and experience in the design/ engineering, procurement, site and access road preparation, construction/ installation, interconnection, testing and commissioning of a **lithium-ion BESS** to be installed adjacent to the Authority's Willis Substation. The project's objectives are to:

- ❑ Support NYS Energy Storage Goal of 3,000 MW by 2030
- ❑ Improve Market Efficiency and Support Renewables, Hence the Selection of North Country
- ❑ Leverage the Latest Battery Technologies and Capabilities (20 MW / 20 MWh Lithium-Ion Battery Storage System)
- ❑ Participate in Frequency Regulation and Energy Markets

Given this is NYPA's first utility-scale Battery Storage Project, NYPA will own and operate, setting the stage for future and similar projects.



(Illustration Purpose Only)

A Typical of a 20-MW, Lithium-Ion Battery Energy Storage System

Subcontracting Services (installation support services opportunities) include but are not limited to :

- ❑ 115kV AC Circuit Breaker and Associated Disconnect and Grounding Switches, Supporting Steel Structures and Concrete Foundations.
- ❑ 115kV/Medium Voltage Power Transformer.
- ❑ MV AC Circuit Breaker and Associated Disconnect and Grounding Switches.
- ❑ MV Metal-Clad Switchgear System to Connect the BESS Component Packages.
- ❑ Station Service/ Control House/ Security

Subcontracting Services (installation support services opportunities) include but are not limited to:



- ❑ 115kV AC Circuit Breaker and Associated Disconnect and Ground Switches, Supporting Steel Structures and Concrete Foundations, Integrated into the Existing Willis 115kV Switchyard
- ❑ 115kV AC Metering Devices, CTs and PTs, and all Associated Enclosures, Steel Structures and Concrete Foundations
- ❑ 115kV AC Cable System in Duct Bank Connecting the Willis 115kV Switchyard with the Project Substation



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**JOINT WORKS ALCOA POWER HOUSE
LOCAL SUBCONTRACTORS OPPORTUNITIES
NORTH COUNTRY PROCUREMENT FORUM**

MAY 2, 2019



Anticipate in future requesting proposals for dam safety improvements. The project's objectives are to:

- ❑ Stabilize the existing Old ALCOA Powerhouse's Role as dam for next 50 years.
- ❑ Increase safety and limit risks with encapsulation of old dam superstructure

Old Alcoa Powerhouse



A sample listing of the services and materials subcontracting opportunities

SERVICES :

VIDEOGRAPHY DURING

CONSTRUCTION

SECURITY SERVICES

FUEL DELIVERY

MATERIALS MANAGEMENT AND

LOGISTICS

SAFETY SUPPLIERS

SILT FENCING

LANDSCAPING

CONCRETE DEMOLITION

TRAFFIC CONTROL

FLAGGING

ACCESS ROAD BUILDING

GENERAL CONSTRUCTION

LABOR/EQUIPMENT

LAND RESTORATION

TRENCHING

A sample listing of the services and materials subcontracting opportunities

MATERIALS AND SUPPLY

CONCRETE MATERIALS SUPPLY

FUELS SUPPLY

GRAVEL MATERIALS SUPPLY

EQUIPMENT RENTAL

LODGING / HOTELS

MATERIALS TESTING

FOOD SERVICES

GRAVEL SUPPLY

EQUIPMENT RENTAL

CONCRETE SUPPLY

PORTABLE RESTROOM FACILITIES

OFFICE TRAILER SUPPLY

HARDWARE SUPPLY



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**ELEVATED WATER TANK
LOCAL SUBCONTRACTORS OPPORTUNITIES
NORTH COUNTRY PROCUREMENT FORUM**

MAY 2, 2019

Anticipate in future requesting proposals for construction of a composite elevated water tank and demolition of existing.

The project involves specialty elevated water tank manufacture and elements of work associated with typical public water supply improvements.

Includes a small amount of Water Distribution Piping & supporting infrastructure needs in form of extension of communications & electrical power to meet needs of water system elements located in the base of the water tank.

A sample listing of the services and materials subcontracting opportunities

SERVICES :

FUEL DELIVERY

SILT FENCING

TRENCHING/EXCAVATION

CONCRETE FOUNDATION

SITE RESTORATION

LODGING / HOTELS

FOOD SERVICES

FINISH GRADING

CONCRETE DEMOLITION

STEEL TANK DEMOLITION

STONE ACCESS ROAD BUILDING/PARKING
AREA

GENERAL CONSTRUCTION

LABOR/EQUIPMENT

A sample listing of the services and materials subcontracting opportunities

MATERIALS AND SUPPLY

CONCRETE MATERIALS SUPPLY

GRAVEL MATERIALS SUPPLY

EQUIPMENT RENTAL

PORTABLE RESTROOM FACILITIES

HARDWARE SUPPLY

FUELS SUPPLY

EQUIPMENT RENTAL

MATERIALS TESTING

OFFICE TRAILER SUPPLY

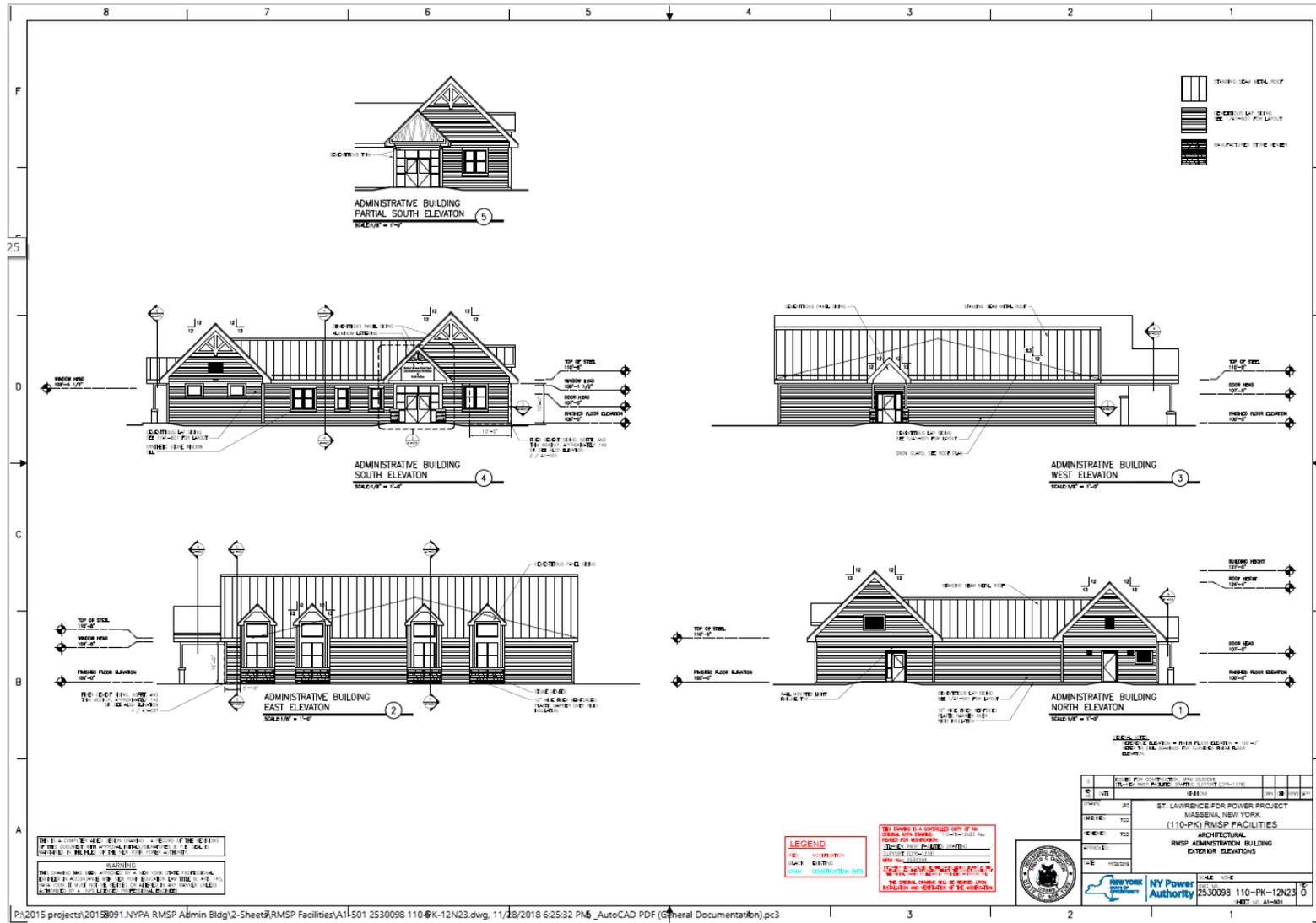
POTABLE WATERMAIN AND APPURTENANCES



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**FACILITIES FOR OFFICE OF PARKS
LOCAL SUBCONTRACTORS OPPORTUNITIES
NORTH COUNTRY PROCUREMENT FORUM**

MAY 2, 2019



In award stage. The project includes two buildings. A Maintenance Garage & Administration Building. Total Square Footage approximately 13,000 Sq.ft combined.

General Construction Scope includes following:

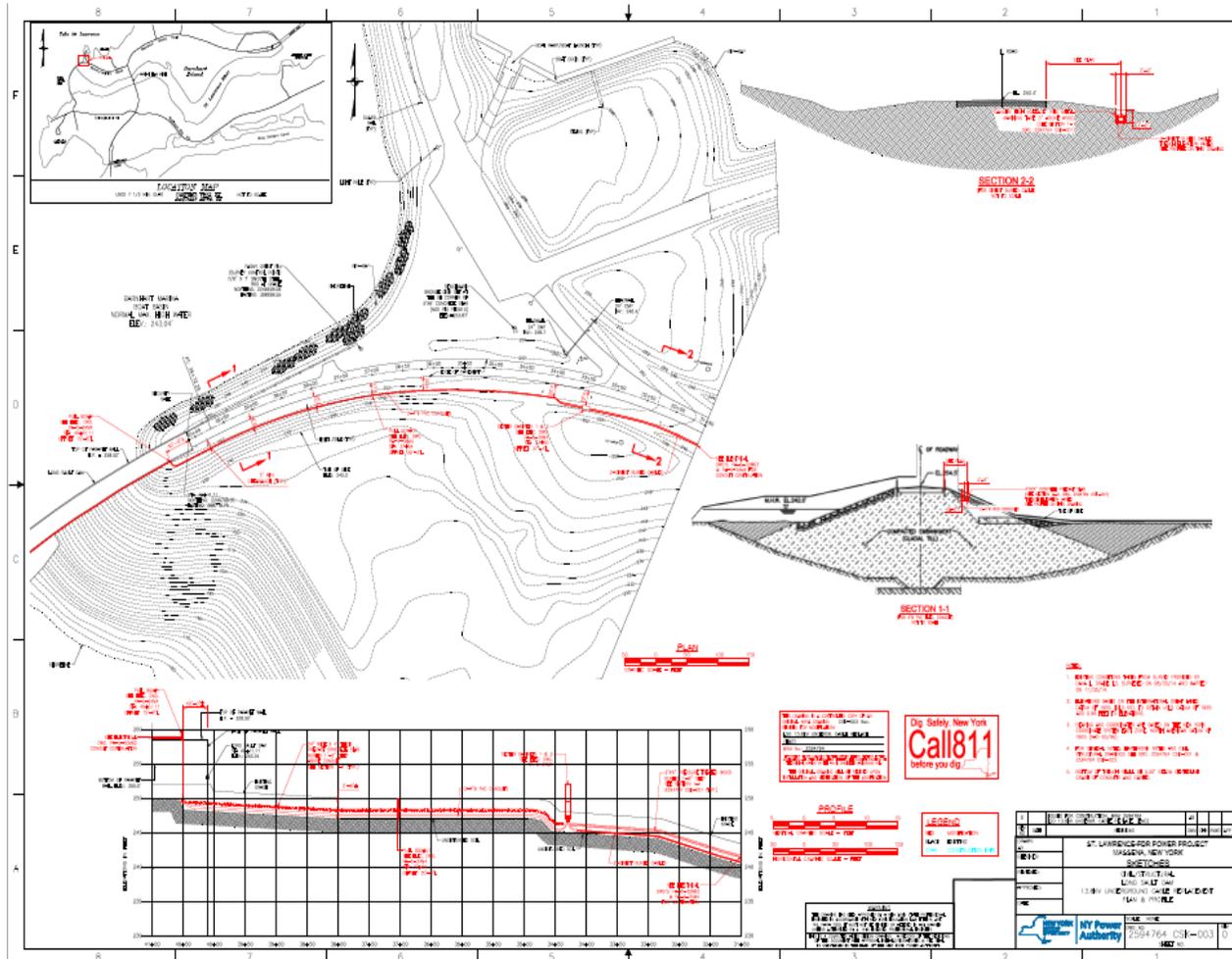
- Site/Civil
- Building General Construction
- HVAC
- Plumbing
- Electrical
- Communications



**NY Power
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**13.8KV UNDERGROUND FEEDER
for
LONG SAULT DAM(LSD)
LOCAL SUBCONTRACTORS OPPORTUNITIES
NORTH COUNTRY PROCUREMENT FORUM**

MAY 2, 2019



The Long Sault Dam has two 13.8 KV electrical feeds. The original North side feed was replaced as emergent work and design efforts are underway planning for replacement of the south feed.

Construction Scope includes following:

- ❑ Replacement of buried 13.8KV electrical cable.
- ❑ Scope is mixture of civil(primarily trenching and small foundations for cabinet) and electrical.

Long Sault Dam Feeder

A sample listing of the services and materials subcontracting opportunities

SERVICES :

FUEL DELIVERY

SILT FENCING

TRENCHING

LAND RESTORATION

LANDSCAPING

ELECTRICAL PRIME w CIVIL SUBCONTRACTOR

TRAFFIC CONTROL

FLAGGING

MATERIALS AND SUPPLY

CONCRETE MATERIALS SUPPLY

GRAVEL MATERIALS SUPPLY

EQUIPMENT RENTAL

PORTABLE RESTROOM FACILITIES

HARDWARE SUPPLY

ELECTRICAL MATERIAL SUPPLY

FUELS SUPPLY

MATERIALS TESTING