



S.W. COLE ENGINEERING, INC.

TEST PIT LOGS

PROJECT/CLIENT: FORE RIVER SUBSTATION / LOUIS BERGER GROUP
LOCATION: WEST COMMERCIAL STREET, PORTLAND MAINE

PROJECT NO. 04-0058

TEST PIT TP-3

DATE: 6/9/2004 SURFACE ELEVATION: 23.5' +/- LOCATION: SEE SHEET 1

SAMPLE NO.	DEPTH (FT)	STRATUM DESCRIPTION	TEST RESULTS
	0.2'	BAMBOO AND SUMAC WITH ORGANICS	
	2.5'	BROWN GRAVELLY SILTY SAND (FILL)	
	5.0'	FRACTURED BEDROCK WITH SAND (FILL)	
	8.0'	BROWN TO ORANGE SILTY SAND WITH SEAMS OF GRAY SILTY SAND AND SEAMS OF GRAY SILTY CLAY	
COMPLETION DEPTH: 8.0'		NOTES: NO SEEPAGE, NO CAVING	

TEST PIT TP-4

DATE: 6/9/2004 SURFACE ELEVATION: 23.5' +/- LOCATION: SEE SHEET 1

SAMPLE NO.	DEPTH (FT)	STRATUM DESCRIPTION	TEST RESULTS
	0.2'	BAMBOO AND SUMAC WITH ORGANICS	
	2.0'	BORWN SILTY SAND SOME GRAVEL WITH BRICKS (FILL)	
	4.0'	FRACTURED BEDROCK WITH SAND (FILL)	
	7.0'	BROWN SILTY SAND TRACE GRAVEL	
	8.0'	BROWN TO ORANGE SILTY SAND WITH GRAY SILTY SAND SEAMS AND GRAY SILTY CLAY SEAMS	
		BOTTOM OF EXPLORATION AT 8.0'	
COMPLETION DEPTH: 8.0'		NOTES: NO SEEPAGE, NO CAVING	



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PROJECT NO. 04-0058

TEST PIT TP-5

DATE: 6/9/2004 SURFACE ELEVATION: 34' +/- LOCATION: SEE SHEET 1

SAMPLE NO.	DEPTH (FT)	STRATUM DESCRIPTION	TEST RESULTS
	0.3'	BAMBOO AND SUMAC WITH ORGANICS	
		BROWN GRAVELLY SILTY SAND (FILL)	
	7.0'		
	8.0'	BROWN SAND SOME GRAVEL TRACE SILT	
		BOTTOM OF EXCAVATION AT 8.0'	

COMPLETION DEPTH: 8.0'

NOTES: NO SEEPAGE, NO CAVING

TEST PIT TP-6

DATE: 6/9/2004 SURFACE ELEVATION: 19' +/- LOCATION: SEE SHEET 1

SAMPLE NO.	DEPTH (FT)	STRATUM DESCRIPTION	TEST RESULTS
	0.4'	BROWN SANDY TOPSOIL WITH ORGANICS	
		BROWN SILTY SAND SOME GRAVEL (FILL)	
	4.0'		
	4.5'	OLIVE SILTY CLAY	
		GRAY SILTY CLAY	
	9.0'	BOTTOM OF EXPLORATION AT 9.0'	

COMPLETION DEPTH: 9.0'

NOTES: NO SEEPAGE, NO CAVING

NOTE: A RELIC BRIDGE SLAB CONSISTING OF ASPHALT OVERLYING REINFORCED CONCRETE (8" +/-) WAS ENCOUNTERED AT STAKED TEST PIT LOCATION, LOGGED INFORMATION IS FROM A TEST PIT OFFSET 10' TO THE SOUTH



S.W. COLE ENGINEERING, INC.

TEST PIT LOGS

PROJECT/CLIENT: FORE RIVER SUBSTATION / LOUIS BERGER GROUP

LOCATION: WEST COMMERCIAL STREET, PORTLAND MAINE

PROJECT NO. 04-0058

TEST PIT TP-7

DATE: 6/9/2004 SURFACE ELEVATION: 18.5' +/- LOCATION: SEE SHEET 1

SAMPLE NO.	DEPTH (FT)	STRATUM DESCRIPTION		TEST RESULTS
		DEPTH (FT)	DESCRIPTION	
	0.3'		BROWN SANDY TOPSOIL WITH ORGANICS	
	1.0'		BROWN SILTY SAND SOME GRAVEL (FILL)	
			BROWN SILTY SAND WITH IRON STAINING	
	6.0'		BOTTOM OF EXPLORATION AT 6.0'	

COMPLETION DEPTH: 6.0' NOTES: MILD SEEPAGE BELOW 4'
MILD CAVING BELOW 4'

TEST PIT TP-8

DATE: 6/9/2004 SURFACE ELEVATION: 18' +/- LOCATION: SEE SHEET 1

SAMPLE NO.	DEPTH (FT)	STRATUM DESCRIPTION		TEST RESULTS
		DEPTH (FT)	DESCRIPTION	
	0.5'		BROWN SANDY TOPSOIL WITH ORGANICS	
	3.5'		BROWN SILTY SAND SOME GRAVEL TRACE CLAY (FILL)	
	6.0'		OLIVE SILTY CLAY WITH FREQUENT SAND SEAMS	
			GRAY SAND AND SILT	
	9.5'		BOTTOM OF EXPLORATION AT 9.5'	

COMPLETION DEPTH: 9.5' NOTES: MILD SEEPAGE FROM 3.5'
NO CAVING

KEY TO THE NOTES & SYMBOLS

Test Boring and Test Pit Explorations

All stratification lines represent the approximate boundary between soil types and the transition may be gradual.

Key to Symbols Used:

W	-	water content, percent (dry weight basis)
q _u	-	unconfined compressive strength, kips/sq. ft. - based on laboratory unconfined compressive test
S _v	-	field vane shear strength, kips/sq. ft.
L _v	-	lab vane shear strength, kips/sq. ft.
q _p	-	unconfined compressive strength, kips/sq. ft. based on pocket penetrometer test
O	-	organic content, percent (dry weight basis)
W _L	-	liquid limit - Atterberg test
W _P	-	plastic limit - Atterberg test
WOH	-	advance by weight of hammer
WOM	-	advance by weight of man
WOR	-	advance by weight of rods
HYD	-	advance by force of hydraulic piston on drill
RQD	-	Rock Quality Designator - an index of the quality of a rock mass. RQD is computed from recovered core samples.
γ _T	-	total soil weight
γ _B	-	buoyant soil weight

Description of Proportions:

0 to 5% TRACE
5 to 12% SOME
12 to 35% "Y"
35+% AND

REFUSAL: Test Boring Explorations - Refusal depth indicates that depth at which, in the drill foreman's opinion, sufficient resistance to the advance of the casing, auger, probe rod or sampler was encountered to render further advance impossible or impracticable by the procedures and equipment being used.

REFUSAL: Test Pit Explorations - Refusal depth indicates that depth at which sufficient resistance to the advance of the backhoe bucket was encountered to render further advance impossible or impracticable by the procedures and equipment being used.

Although refusal may indicate the encountering of the bedrock surface, it may indicate the striking of large cobbles, boulders, very dense or cemented soil, or other buried natural or man-made objects or it may indicate the encountering of a harder zone after penetrating a considerable depth through a weathered or disintegrated zone of the bedrock.

PROJECT

FORE RIVER 6/5

COMP. BY

RCS

CHK BY

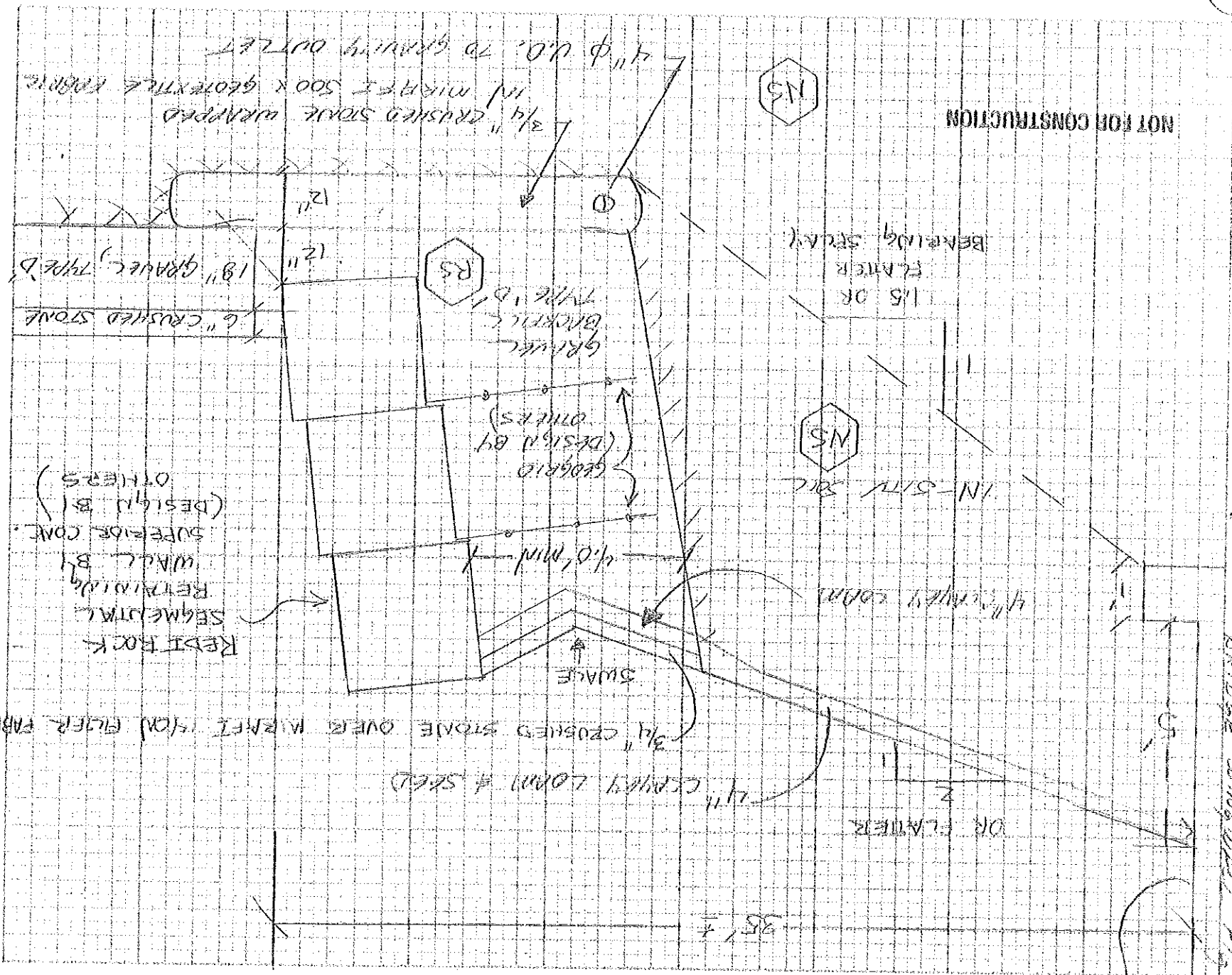
[Signature]

JOB NO.

24-0058

DATE

6.23.04



BRACE/SHORE/UNDERPIN BRIDGE AND/OR ADJACENT STRUCTURES

NOT FOR CONSTRUCTION

BRIDGE UNDERPINNING



Central Maine Power

September 27, 2004

Mr. Michael Nugent
Inspection Services Manager
City of Portland, Maine
City Hall, 389 Congress Street
Portland, ME 04101-3503

09/29
MSD
No permit
Don't permit
Hold

RE: CMP New Fore River Substation, West Commercial Street
Supplemental Information for Pending Building Permit Application

Dear Mr. Nugent:

During our telephone conversation of September 17th, you requested several additional items related to Central Maine Power Company's (CMP's) pending building permit application for its new Fore River Substation, to be located on West Commercial Street in Portland. Based on that conversation, a follow-up meeting was held with you, CMP Project Manager Mike Seavey and Cianbro's Phil Dube on Tuesday, September 21st. Mr. Seavey hand-delivered the following requested items during that meeting:

1. Two sets (one full-size, one 11" x 17") of "Released for Construction" drawings, including Foundation Details drawing #956-3-5, Sheet 1, stamped and signed by a Professional Engineer (P.E.).
2. Geotechnical report for the Fore River Substation site, by S. W. Cole Engineering, Inc. (Gray, Maine), dated September 2, 2004, and signed and stamped by a P.E.
3. Technical Specifications Section 02368, Steel H-Section Piles.

Other items you requested are a Statement of Special Inspections for the civil construction, and a complete set of CMP's Technical Specifications. Attached is a bound volume containing:

1. Statement of Special Inspections for civil construction, compiled by The Louis Berger Group (Manchester, New Hampshire).
2. CMP Technical Specifications.
3. CMP Working Rules for Contractors

The final item you requested is the Statement of Special Inspections for the control house and 12 kV switchgear. This information, being compiled by Central Electric Manufacturing Company (Fulton, Missouri), will be available by the end of October, and will be forwarded to you at that time.

It is our understanding that, with this submittal, you will issue a Building Permit for the civil work associated with this project. CMP and Cianbro wish to begin civil construction on Tuesday, September 28th, and therefore request that you expedite this Building Permit issuance.

\\go3\shared\EnviroSvc\Environmental\Projects\T&D\Substations\Fore River Substation, Portland\Building\Permit\SupplementalInfo\CoverLetter.doc
An equal opportunity employer

83 Edison Drive | Augusta, ME 04336
tel (207) 623-3521

www.cmpco.com

326 Commercial



An Energy East Company

Fore River S/S, Building Permit Supplemental Info
September 27, 2004
Page 2

When the control house/switchgear information is received and reviewed, it is our understanding that you will then issue a Building Permit for the remaining substation work.

Please call me at 626-9557 if you have any questions regarding the attached information. Thank you for your attention to this.

Sincerely,



Gerry J. Mirabile
Lead Analyst – Compliance

Attachments

cc: MD Seavey, CMP Project Manager



THE Louis Berger Group, INC.

1001 Elm Street, Suite 300, Manchester, New Hampshire 03101
Tel 603 644-5200 Fax 603 644-5220 www.louisberger.com

Sept. 24, 2004

STATEMENT OF SPECIAL INSPECTIONS

PROJECT NAME & LOCATION:

Central Maine Power
Fore River Substation
328 West Commercial Street
Portland, ME 04102

**PERMIT APPLICANT:
APPLICANT'S ADDRESS:**

Central Maine Power
53 Anthony Avenue
Augusta, ME 04330

STRUCTURAL ENGINEER OF RECORD:

The Louis Berger Group, Inc.
1001 Elm Street, Suite 300
Manchester, NH 03101

CONTRACTOR:

Cianbro Corporation
366 West Commercial Street
Portland, ME 04102

This statement of Special Inspections is submitted in accordance with Section 1705.0 of the 1999 BOCA National Building Code. It includes a listing of special inspections applicable to this project, as well as the name of the Special Inspector, and the names of other agencies intended to be retained for conducting these inspections.

The Special Inspector shall keep records of all inspections listed herein, and shall furnish inspection reports to the Registered Design Professional of Record. All discrepancies shall be brought to the immediate attention of the Contractor for correction. If the discrepancies are not corrected, the discrepancies shall be brought to the attention of the Registered Design Professional of Record. Interim reports shall be submitted to the Registered Design Professional of Record monthly, unless more frequent submissions are requested.

Job site safety is solely the responsibility of the Contractor, Materials and activities to be inspected are not to include the Contractor's equipment and methods used to erect or install the materials listed.

Prepared By: Jeff Cicerello, P.E.


SIGNATURE

DATE: 9/26/04

Applicant's Authorization

SIGNATURE Michael Seavey DATE: 9-27-04



THE Louis Berger Group, INC.

1001 Elm Street, Suite 300, Manchester, New Hampshire 03101
Tel 603 644-5200 Fax 603 644-5220 www.louisberger.com

Sept. 24, 2004

LIST OF AGENTS

PROJECT:

Central Maine Power
Fore River Substation
328 West Commercial Street
Portland, ME 04102

STRUCTURAL ENGINEER OF RECORD:

The Louis Berger Group, Inc.
1001 Elm Street, Suite 300
Manchester, NH 03101

Following is the List of Agents selected for performance of Special Inspections for this project:

FIRM

1. Special Inspector
The Louis Berger Group, Inc.
Larry Roberts, P.E.
2. Testing Laboratory
S.W. Cole
Pile Inspection & monitoring
Concrete Testing & Compaction Testing
Additional testing as required
3. Dynamic Pile Monitoring
GRL Engineers, Inc.
4535 Renaissance Parkway
Cleveland, OH 44128

SCHEDULE OF SPECIAL INSPECTION SERVICES

PROJECT: Fore River Substation

MATERIAL/ACTIVITY	ITEM	SERVICE	Y/N	EXTENT (All, Sample, Other, None)	COMMENTS	AGENT #	DATE COMPLETED	REV#
1705.3 STEEL CONSTRUCTION	1.00							
Steel Fabrication		In-Plant Review	N		AISC Certified			
		Part A - Fabrication procedures	N		AISC Certified			
		Part B - Procedures Implementation	N		AISC Certified			
		Review material certificates of compliance (Bolts, nuts, washers, structural steel, and weld filler material)	N			1		
Steel Erection		Review Connections	N					
		Review welder certification	N			1		
		Review primary steel connections	N			1		
		Shear Connections	N			1		
		Bracing Connections	N			1		
		Review welded column splices	N			1		
		Review secondary steel connections	N			1		
		Steel deck	N			1		
		Lintels	N			1		
		Review Details/Steel Frame	N			1		
Steel Joist Fabrication		In-Plant Review	N		SJI Certified			
		Part A - Fabrication procedures	N		SJI Certified			
		Part B - Procedures implementation	N		SJI Certified			
		Review conformance to Part A	N					
		Review material certificates of compliance (Bolts, nuts, washers, structural steel, and weld filler material)	N			1		
Steel Joist Erection		Review Connections	N					
		Review welder certification	N			1		
		Review joist bearing connections	N			1		
		Review joist bearing length	N			1		
		Review joist bridging	N			1		

All Steel Construction Special Inspections have been completed in accordance with BOCA Section 1705.3 Special Inspector:

Date:

APPLICABLE TO THIS PROJECT

SCHEDULE OF SPECIAL INSPECTION SERVICES

PROJECT: Fore River Substation

APPLICABLE TO THIS PROJECT

MATERIAL/ACTIVITY	ITEM	SERVICE	Y/N	EXTENT (All, Sample, Other, None)	COMMENTS	AGENT #	DATE COMPLETED	REV#
1705.4 CONCRETE CONSTRUCTION	2.00							
Concrete Materials			Y	All		1		
			Y	All		1		
			Y	All		1		
			Y	All		1		
			Y	All		1		
			Y	All		1		
			Y	All		1		
			Y	Sample		1		
Concrete Operations			Y	All		1,2		
			Y	All		1,2		
			Y	All		1,2		
			Y	All		1,2		
			Y	All		1,2		
			Y	All		1,2		
			Y	All		1,2		
			Y	All		1,2		

All Concrete Construction Special Inspections have been completed in accordance with BOCA Section 1705.4 Special Inspector:

Date:

SCHEDULE OF SPECIAL INSPECTION SERVICES

PROJECT: Fore River Substation

MATERIAL/ACTIVITY	ITEM	SERVICE	Y/N	EXTENT (All, Sample, Other, None)	COMMENTS	AGENT #	DATE COMPLETED	REV#
1705.5 MASONRY CONSTRUCTION	3.00							
Materials	Review materials certification		Y	All			1	
	Masonry units		Y	All				
	Reinforcing steel		Y	All				
	Review grout materials and mix design		Y	All			1	
	Review mortar materials and mix design		Y	All			1	
	Review strength determination		Y	All				
	Unit strength method		Y	All				
	Review unit strengths and grout, mortar mixes		Y	All			2	
	Prism strength method		Y	Sample			2	
	Review pre-construction test results.		Y					
	Field tests during construction		Y					
	Grout testing		Y	All			2	
	Determine compressive strength		Y	All				
	Mortar testing		Y	All			2	
	Field test compressive strength		Y	All				
	ASTM C780 (Req'd only if property reqs of ASTM C270 are used)		Y	All				
	Review mortar mix proportions and mixing (ACI 530.1.2.3,2.5)		Y	All			1,2	
	Review grout mix proportions and mixing (ACI 530.1.4.2.2)		Y	All			1,2	
	Review general installation of mortar, grout, masonry units. (ACI 530.1.2.3,3.3,4.3.3)		Y	All			1	
	Review installation of horiz, vert and joint reinforcing (incl. Location, sizes, splices, and positioning devices) (ACI 530, Ch. 8)		Y	All			1	
Review installation of anchorage devices (ACI 530.4.2, 5.14)		Y	All			1		
Review installation of lintels		Y	All			1		

APPLICABLE TO THIS PROJECT

General Masonry Work

All Masonry Construction Special Inspections have been completed in accordance with BOCA Section 1705.5 Special Inspector: _____ Date: _____

SCHEDULE OF SPECIAL INSPECTION SERVICES									
PROJECT: Fore River Substation									
APPLICABLE TO THIS PROJECT									
MATERIAL/ACTIVITY	ITEM	SERVICE	Y/N	EXTENT (All, Sample, Other, None)	COMMENTS	AGENT #	DATE COMPLETED	REV#	
1705.6 WOOD CONSTRUCTION	4.00		N						
Solid Sawn Materials			N						
Solid Sawn Timber Erection			N			1			
		Review wood species and grade	N						
		Review Wood Connections	N						
		Bolted Connections	N			1			
		Connection fittings	N						
All Wood Construction Special Inspections have been completed in accordance with BOCA Section 1705.6									
Special Inspector:									
Date:									

SCHEDULE OF SPECIAL INSPECTION SERVICES									
PROJECT: Fore River Substation									
APPLICABLE TO THIS PROJECT									
MATERIAL/ACTIVITY	ITEM	SERVICE	Y/N	EXTENT (All, Sample, Other, None)	COMMENTS	AGENT #	DATE COMPLETED	REV#	
1705.7 PREPARED FILL	5.00		Y						
		Site Preparation	Y						
		Check material and lift thickness	Y						
		Check in-place density	Y			1,2			
All Prepared Fill Special Inspections have been completed in accordance with BOCA Section 1705.7									
Special Inspector:									
Date:									

SCHEDULE OF SPECIAL INSPECTION SERVICES									
PROJECT: Fore River Substation									
APPLICABLE TO THIS PROJECT									
MATERIAL/ACTIVITY	ITEM	SERVICE	Y/N	EXTENT (All, Sample, Other, None)	COMMENTS	AGENT #	DATE COMPLETED	REV#	
1705.14 SPECIAL CASES	6.00		N						
Light gauge Metal Framing - Materials			N						
		In-plant Review	N						
		Part A - Fabrication procedures	N						
		Part B - Procedures implementation	N						
		Review conformance to Part A	N		AISI Certified	1			
		Review material certificates of compliance	N						
		(Screws, Bolts, nuts, washers)	N						
		Stud & Track Section and Gauge	N						
		Shear Wall Construction	N						
		Stud Bridging and Location	N						
		Build-up Light Gauge Member	N						
		Construction	N						
		Light Gauge Wall Opening Construction	N						
		Connections @ Stud Walls & Openings	N						
All Special Case Construction Special Inspections have been completed in accordance with BOCA Section 1705.12									
Special Inspector:									
Date:									

TECHNICAL SPECIFICATIONS

SECTION 01000

GENERAL REQUIREMENTS

TEMPORARY UTILITIES & CONSTRUCTION

PART 1 GENERAL

1.01 DESCRIPTION OF WORK

- A. Summary of work.
- B. Site conditions and representation.
- C. Contract drawings.
- D. Permits.
- E. Work layout.
- F. Schedule
- G. Submittals
- H. Construction force.
- I. Construction facilities and temporary controls.
- J. Clean-up.
- K. Safety.
- L. Measurement and Payment

1.02 SUMMARY OF WORK

- A. The Contractor shall furnish all labor, materials, equipment, supervision, supplies, and other facilities, except as specifically noted in the Specifications and shall perform all work necessary or proper for or incidental to the construction of the substation yard, access areas, electrical equipment foundations, and other items specified herein. The Contractor shall perform the work in strict accordance with the applicable sections of the attached Specifications which form a part of this Contract, and to the satisfaction and approval of the Owner, and shall perform all other obligations and assume all liability imposed upon it by the Contract and Specifications.

B. The Fore River Substation site is located on West Commercial St. in Portland, Maine.

1.03 SITE CONDITIONS AND REPRESENTATION

A. It shall be the sole responsibility of the Contractor to satisfy himself as to the nature of the work to be done, the general and local conditions, particularly those bearing upon transportation, disposal, handling and storage of materials, availability of labor, water, electrical power, roads, and uncertainties of weather, or similar physical conditions of the site, the condition of the ground, the character of equipment and facilities needed preliminary to and during the prosecution of the work, and all other matters which can in any way affect the work or cost thereof. It shall further be the sole responsibility of the Contractor to satisfy himself, as necessary, and assume all risk with respect to the character, quality, and quantity of any and all surface and subsurface materials, including ground water, to be encountered. Any failure of the Contractor to acquaint himself with the available information will not relieve him from responsibility for estimating properly the difficulty or cost of successfully performing the work.

1.04 CONTRACT DRAWINGS

A. The following drawings are included and made part of these Specifications: (See Appendix A)

<u>Drawing No.</u>	<u>Title</u>	<u>Rev. No.</u>
956-3-1	Standard Boundary Survey	
956-3-3 Sh.1	Site Plan - Existing Conditions/Demo Plan	
956-3-3 Sh.2	Site Plan - General Location Plan	
956-3-3 Sh.3	Site Plan - Drainage, Grading, & Erosion Control Plan	
956-3-3 Sh.4	Site Plan - 115kV Line Profile	
956-3-3 Sh.5	Site Plan - Detail Sheet	
956-3-3 Sh.6	Site Plan - Detail Sheet	
956-3-3 Sh.7	Site Plan - 115kV Detail	
956-3-3 Sh.8	Site Plan - Manhole Detail	
956-3-3 Sh.9	Site Plan - Retaining Wall Detail	
956-3-4	Foundation Plan	
956-3-5 Sh.1	Foundation Details - Pile Location Plan	
956-3-5 Sh.2	Foundation Details - Reinforcing	
956-3-5 Sh.3	Foundation Details - Miscellaneous	
956-3-5 Sh.4	Foundation Details - Embedded Grounding Location Plan	
956-3-5 Sh.5	Foundation Details - Embedded Conduit Location Plan	
956-6-1	Fence & Grounding Plan	
956-6-2	Conduit Plan	

B. S/S Standard Sheets (See Appendix B)

<u>Drawing No.</u>	<u>Title</u>
I-C-1 Sh.1	Fencing – Post Detail Gate & Corner Posts
I-C-1 Sh.2	Fencing – Post Detail Line Posts
I-C-2	Fencing – Material & Structural Details
I-C-4	Fencing – Concrete Gate Threshold
I-E-1	Grounding – Grid Connectors
I-E-7 Sh.1	Fence Grounding – Gate Post Detail
I-E-7 Sh.2	Fence Grounding – Gate/Post Connection Detail
I-E-7 Sh.3	Fence Grounding – Corner Post Detail
I-E-7 Sh.4	Fence Grounding – End Post Detail
I-E-7 Sh.5	Fence Grounding – Intermediate Post Detail
I-E-8	Grounding – Ground Rod & Equipment Detail

- C. As Built Records. Contractor shall keep records of its work as installed; including any changes or adjustments made from the Contract Documents. Contractor shall transcribe all such records on to a record set of drawings as the work progresses. Contractor shall furnish a final record drawing set at the completion of its work.

1.05 PERMITS

- A. Permits required for disposing of surplus topsoil, excavated material, hauling, dewatering, and the like shall be obtained by the Contractor.
- B. The Contractor shall obtain all required Dig Safe tickets for the duration of the contract.

1.06 WORK LAYOUT

- A. The Owner will provide initial baselines as shown on the Drawings.
- B. The Contractor, immediately upon entering the project site for purposes of beginning work, shall locate all general reference points and take action as is necessary to prevent their destruction, lay out his own work and be responsible for all lines, elevations and measurements of foundations grading, centerlines and other work executed by him under the contract.
- C. The Contractor shall exercise proper precautions to verify figures and meet tolerances as shown on the Drawings or specified herein before laying out the work. The Contractor will be held responsible for any errors resulting from his failure to exercise such precaution.

1.07 SCHEDULE

Within seven (7) days after award of Contract, the Contractor shall prepare and submit to the Owner for approval, a schedule covering starting and completion dates for salient features and principal construction operations involved in its performance.

1.08 SUBMITTALS

A. Submittal of technical information including, but not limited to, catalog cuts, manufacturer's installation instructions and warranty data shall be submitted to the Owner for review before installation. The following list indicates minimum submittal requirements. The Owner may request additional data for materials, equipment and products used in the prosecution of the work:

1. Subgrade fill
2. Gravel fill
3. Sand
4. Crushed stone, stone topping
5. Concrete repair material
6. Concrete
7. Reinforcing steel
8. Piping
9. Grass seed
10. Curing compound
11. Concrete waterproofing
12. Fencing and Gates
13. Filter Fabric, Geotextiles
14. Catch Basins, Manholes and Covers

1.09 CONSTRUCTION FORCE

A. The Contractor shall provide and maintain, in full operation at all times during the performance of the Contract, a sufficient crew of laborers, mechanics and foremen to prosecute the work efficiently.

1.10 CONSTRUCTION FACILITIES AND TEMPORARY CONTROLS

A. Pumping and Drainage

1. Surface or subsurface water shall not be permitted to accumulate in excavations nor under structures. Should such conditions develop, the water shall be controlled and suitably disposed of by means of temporary pumps, piping, drainage lines and ditches or other means as approved by the Owner. Pumped water shall not be discharged onto gravel fill.

B. Water

1. The Contractor shall be responsible for providing and maintaining at his own expense an adequate supply of water for his use, for construction and domestic consumption, and for the use of other subcontractors. The Contractor shall install and maintain necessary supply connections and piping at locations approved by the Owner and local authorities.
2. Before final acceptance, all temporary connections and piping installed by the Contractor shall be removed in a manner satisfactory to the Owner.

C. Sanitary Facilities

1. The Contractor shall provide and maintain in sanitary condition, facilities adequate for the needs of his personnel, subcontractors, and the Owner.
2. Facilities shall comply with applicable building and sanitation ordinances, laws, and codes.

D. Telephone

1. Contractor shall make arrangements for his own telephone services during construction.

E. Electrical Service

1. Contractor is responsible for electrical service at the site.

F. Offices

1. Contractor is responsible for his own office facility on site.
2. Space is allocated on the property for one office trailer.

G. Storage

1. Contractor may use material storage space on the property. Anchor bolts, precast concrete cable trench sections, grounding materials and all other items and materials furnished by the Owner shall be stored by the Contractor at the job site and it shall be his responsibility for storage and safekeeping. Any shortages or damage of supplied material shall be replaced by the Contractor at no cost to the Owner.

1.11 CLEAN-UP