

PENALTY FOR REMOVING THIS CARD

BUILDING PERMIT INSPECTION PROCEDURES Please call 874-8703 or 874-8693 (ONLY) or email: buildinginspections@portlandmaine.gov

With the issuance of this permit, the owner, builder or their designee is required to provide adequate notice to the city of Portland Inspections Services for the following inspections. Appointments must be requested 48 to 72 hours in advance of the required inspection. The inspection date will need to be confirmed by this office.

- Please read the conditions of approval that is attached to this permit!! Contact this office if you have any questions.
- Permits expire in 6 months. If the project is not started or ceases for 6 months.
- If the inspection requirements are not followed as stated below additional fees may be incurred due to the issuance of a "Stop Work Order" and subsequent release to continue.

Required Inspections:

- 1. Footings/Setbacks prior to pouring concrete
- 2. Foundation/Rebar
- 3. Foundation/Backfill
- 4. Close In Elec/Plmb/Frame prior to insulate or gyp
- 5. Final Inspection

The project cannot move to the next phase prior to the required inspection and approval to continue, REGARDLESS OF THE NOTICE OF CIRCUMSTANCES.

IF THE PERMIT REQUIRES A CERTIFICATE OF OCCUPANCY, IT MUST BE PAID FOR AND ISSUED TO THE OWNER OR DESIGNEE BEFORE THE SPACE MAY BE OCCUPIED.



Strengthening a Remarkable City, Building a Community for Life . www.portlandmaine.gov

Director of Planning and Urban Development Penny St. Louis

Job ID: 2011-10-2574-ALTCOMM

Located At: <u>116 BISHOP ST</u>

CBL: 293- C-016-001

Conditions of Approval:

Zoning

- 1. This permit is being approved on the basis of plans submitted. Any deviations shall require a separate approval before starting that work.
- 2. It is understood that the building has been moved forward so that it will be within the I-M zone area on the property and not within the R-3 zone.
- 3. Separate permits are required for any new signage.

DRC

11-9-11

See Planning Approval Letter for Conditions of Approval.

Building

- 1. Application approval based upon information provided by applicant. Any deviation from approved plans requires separate review and approval prior to work.
- 2. Ventilation of this space is required per ASRAE 62.2 or 62.1, 2007 edition.
- 3. Separate permits are required for any electrical, plumbing, sprinkler, fire alarm, HVAC systems, heating appliances, including pellet/wood stoves, commercial hood exhaust systems and fuel tanks. Separate plans may need to be submitted for approval as a part of this process.
- 4. An inspection of the installation of the steel and concrete and structural bracing shall be conducted by a licensed engineer and a letter with his/her certification shall be submitted to this office stating compliance with the approved plans by the final inspection or CO.
- 5. Special inspection reports shall be submitted to this office on a periodic basis. A final special inspection report must be submitted prior to issuance of a certificate of occupancy. This report must demonstrate any deficiencies and corrective measures that were taken.
- 6. Equipment shall be installed in compliance with the manufacturer's specifications and the UL listing.

Fire .

All construction shall comply with City Code Chapter 10.

This permit is being approved on the basis of the plans submitted. Any deviation from the plans would require amendments and approval.

As-built documents shall be submitted in pdf to the Building Inspections Office upon completion of job.

The Fire alarm and Sprinkler systems shall be reviewed by a licensed contractor[s] for code compliance. Compliance letters are required.

The fire alarm system shall comply with the City of Portland Standard for Signaling Systems for the Protection of Life and Property. All fire alarm installation and servicing companies shall have a Certificate of Fitness from the Fire Department.

All fire alarm records required by NFPA 72 should be stored in an approved cabinet located at the FACP labeled "FIRE ALARM RECORDS".

Records cabinet, FACP, annunciator(s), and pull stations shall be keyed alike.

Any cutting and welding done will require a Hot Work Permit from Fire Department.

Walls in structure are to be labeled according to fire resistance rating. IE; 1 hr. / 2 hr. / smoke proof.

A single source supplier should be used for all through penetrations.

Install shall comply with all manufacture's specifications.

City of Portland, Maine - Building or Use Permit Application

389 Congress Street, 04101 Tel: (207) 874-8703, FAX: (207) 8716

Job No:	Date Applied:		CBL:				
2011-1 9-25 74-ALTCOMM	10/25/2011		293- C-016-001				
Location of Construction: 116 BISHOP ST	Owner Name: CENTRAL MAINE POV	WER	Owner Address: 83 EDISON DRIVE	Phone: 626-9557			
Business Name: CMP Electrical substation	Contractor Name: Matrix Service Indu Contractors, Inc.	strial	trial Contractor Address: 1510 Chester Pike Suite 500 – Eddystone, PA 19022				
Lessee/Buyer's Name:	Phone:		Permit Type: BLDG - Building	Zone: I-M with R-3 in rear			
Past Use: Electrical substation for CMP utility	Proposed Use: Same: Electrical sub to erect new control x 24'		Cost of Work: \$95,000.00 Fire Dept:	Mondeliar	CEO District: Inspection: Use Group: Type: 55		
Proposed Project Description Electrical Substation Expansion	:		Signature: Copp Pedestrian Activi		11 / 10/11 11 / 10/11 .D.)	FBC 2009 Signagury	
Permit Taken By: Gayle				Zoning Appr	oval		
 This permit application d Applicant(s) from meetin Federal Rules. Building Permits do not i septic or electrial work. Building permits are voic within six (6) months of False informatin may inv permit and stop all work. 	ag applicable State and include plumbing, I if work is not started the date of issuance. alidate a building	Shorelan Wetland Flood Zo Subdivis Site Plan Mai Mai	is one sion	Zoning Appea Variance Miscellaneous Conditional Us Interpretation Approved Denied W Date:	e Not in D Does not Requires Approved		

I hereby certify that I am the owner of record of the named property, or that the proposed work is authorized by the owner of record and that I have been authorized by the owner to make this application as his authorized agent and I agree to conform to all applicable laws of this jurisdiction. In addition, if a permit for work described in the application is issued, I certify that the code official's authorized representative shall have the authority to enter all areas covered by such permit at any reasonable hour to enforce the provision of the code(s) applicable to such permit.

SIGNATURE OF APPLICANT	ADDRESS	DATE	PHONE

Statement of Special Inspections

Project: BISHOP STREET SUBSTATION

Location: PORTLAND ME

CONTRAL MAINE POWER Owner:

Design Professional in Responsible Charge:

This Statement of Special Inspections is submitted as a condition for permit issuance in accordance with the Special Inspection and Structural Testing requirements of the Building Code. It includes a schedule of Special Inspection services applicable to this project as well as the name of the Special Inspection Coordinator and the identity of other approved agencies to be retained for conducting these inspections and tests. This Statement of Special Inspections encompass the following disciplines:

Mechanical/Electrical/Plumbing

Architectural

Other:

The Special Inspection Coordinator shall keep records of all inspections and shall furnish inspection reports to Discovered the Building Official and the Registered Design Professional in Responsible Charge, discrepancies shall be brought to the immediate attention of the Contractor for correction. If such discrepancies are not corrected, the discrepancies shall be brought to the attention of the Building Official and the Registered Design Professional in Responsible Charge. The Special Inspection program does not relieve the Contractor of his or her responsibilities.

Interim reports shall be submitted to the Building Official and the Registered Design Professional in Responsible Charge.

A Final Report of Special Inspections documenting completion of all required Special Inspections, testing and correction of any discrepancies noted in the inspections shall be submitted prior to issuance of a Certificate of Use and Occupancy.

Job site safety and means and methods of construction are solely the responsibility of the Contractor.

Interim Report Frequency: AT Anoral INSTALLATION

or per attached schedule.

10 4/2

Prepared by:

THOMAS W. HARDING	P.E	-	COMAL W
(type or print name)			No 11405
Thomach Atarohim 1.c	7.	- 30 - 11	A CONTRACTOR
Signature		Date	Design Professional Seal
Owner's Authorization:		Building Official's Acco	eptance:
Signature	Date	Signature	Date
CASE Form 101 •	Statement of S	Special Inspections • ©	CASE 2004

Cold-Formed Steel Framing

Page 1 of 1

Item	Agency # (Qualif.)	Scope
1 Member Sizes		
2. Material Thickness		
3. Material Properties		
4. Mechanical Connections		
5 Madiaa	_	
5. Welding		
6. Framing Details		
7. Trusses		
3. Permanent Truss Bracing		
9. Other	TI TI	ne inspector's duties include verification of
Building Anchor Installation		nchor type and dimensions; concrete type and ompressive strength; predrilled hole dimen- ions and cleanliness; drill bit compliance ith ANSIB212.15-1994; anchor spacings, edge
	LL_	istances and embedment and anchor installation

distances and embedment and anchor installation in accordance with Parkline's installation instructions.

CASE Form 101 • Statement of Special Inspections • @CASE 2004

Statement of Special Inspections

Project: **Bishop Street Substation Control House Building Foundation**

Location: 116 Bishop Street Portland, ME

Owner: **Central Maine Power**

Design Professional in Responsible Charge: Andrew J. Williams, P.E.

This Statement of Special Inspections is submitted as a condition for permit issuance in accordance with the Special Inspection and Structural Testing requirements of the Building Code. It includes a schedule of Special Inspection services applicable to this project as well as the name of the Special Inspection Coordinator and the identity of other approved agencies to be retained for conducting these inspections and tests. This Statement of Special Inspections encompass the following disciplines:

Structural

Mechanical/Electrical/Plumbing

Architectural

Other:

The Special Inspection Coordinator shall keep records of all inspections and shall furnish inspection reports to the Building Official and the Registered Design Professional in Responsible Charge. Discovered discrepancies shall be brought to the immediate attention of the Contractor for correction. If such discrepancies are not corrected, the discrepancies shall be brought to the attention of the Building Official and the Registered Design Professional in Responsible Charge. The Special Inspection program does not relieve the Contractor of his or her responsibilities.

Interim reports shall be submitted to the Building Official and the Registered Design Professional in Responsible Charge.

A Final Report of Special Inspections documenting completion of all required Special Inspections, testing and correction of any discrepancies noted in the inspections shall be submitted prior to issuance of a Certificate of Use and Occupancy.

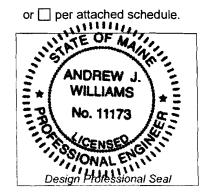
Job site safety and means and methods of construction are solely the responsibility of the Contractor.

Interim Report Frequency: Monthly

Prepared by:

Andrew J. Wi	llíam, P.E.	
(type or print name	3)	

Owner's Authorization:



Building Official's Acceptance:

11/28/2011

Date

Signature		Date	Signature	 	Date
	CASE Form 101 •	Statement of	Special Inspections	©CASE 2004	

Cast-in-Place Concrete

ltem	Agency # (Qualif.)	Scope
1. Mix Design	4	Review concrete batch tickets and verify compliance with approved mix design. Verify that water added at the site does not exceed that allowed by the mix design ALL
	1	Review mix designs ALL
2. Material Review	1, 2	Review all material submittals ALL
3. Reinforcement Installation	1, 2	Inspect size, spacing, cover, positioning and grade of reinforcing steel. Verify that reinforcing bars are free of form oil or other deleterious materials. Inspect bar laps and mechanical splices. Verify that bars are adequately tied and supported on chairs or bolsters - ALL
4. Post-Tensioning Operations		
	N/A	
5. Welding of Reinforcing	-	
	N/A	
6. Anchor Rods	1, 2	Inspect size, positioning and embedment of anchor rods. Inspect concrete placement and consolidation around anchors ALL
7. Concrete Placement	1, 2, 4	Inspect placement of concrete. Verify that concrete conveyance and depositing avoids segregation or contamination. Verify that concrete is properly consolidated ALL
8. Sampling and Testing of Concrete	4	Test concrete compressive strength (ASTM C31 & C39), slump (ASTM C143), air-content (ASTM C231 or C173) and temperature (ASTM C1064). SAMPLE AS DESCRIBED IN SPEC SECTION 03 30 10
9. Curing and Protection	1. 2	Inspect curing, cold weather protection and hot weather protection procedures. CONTROL HOUSE FLOOR SLAB
10. Other:		

Nicholas Adams - CMP Bishop Street Substation - Building Permit Application Support Drawings

From: To:	"McKernan, Scott (Augusta,ME-US)" <smckernan@trcsolutions.com> "Nicholas Adams (NADAMS@portlandmaine.gov)" <nadams@portlandmaine.gov></nadams@portlandmaine.gov></smckernan@trcsolutions.com>
Date:	11/29/2011 12:01 PM
Subject:	CMP Bishop Street Substation - Building Permit Application Support Drawings
CC:	"Libby, Dave (SNC Lavalin-T&D)" <david.libby@cmpco.com></david.libby@cmpco.com>
Attachments:	520-4-1.PDF; 520-4-2.PDF; 520-4-3.PDF; Parkline Erection Dwg Pkg.pdf

Mr. Adams,

As we discussed just now, attached are the stamped drawings to support the building permit application for the new control enclosure.

You should find (in pdf format):

- Foundation Plan & Details
- Floor Plan
- Exterior Elevations
- Manufacturer's (Parkline) Erection Drawing Package

I will forward the Statement of Special Inspections to you via email as soon as I receive it. I expect it later this afternoon.

If there is anything additional that you should require, please let me know. Thank you very much for your help.

V/R,

Scott McKernan Project Manager



14 Gabriel Drive, Augusta, ME 04330 T: 207.620.3859 | F: 207.621.8226 | C: 207.215.5517

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Construction and the American States and American States and American

Marge Schmuckal - 116 Bishop Street - CMP electrical substattion

From:Marge SchmuckalTo:Barbara Barhydt ; Philip DiPierroDate:11/8/2011 11:54 AMSubject:116 Bishop Street - CMP electrical substattion

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We have a permit application for this project - please let us know when we can issue the permit/ Marge



Strengthening a Remarkable City, Building a Community for Life . www.portlandmaine.gov

:00

Planning & Urban Development Department Gregory A. Mitchell, Acting Director

Planning Division Alexander Jaegerman, Director

CNOV 1 5 2011

November 9, 2011

Central Maine Power Company Attention: Gerry Mirabile 83 Edison Drive Augusta, ME 04336 TRC Engineers Attention: Mark Christopher 14 Gabriel Drive Augusta, ME 04330

Project Name:	CMP Substation Expansion	Project ID:	2011-313
Address:	116 Bishop Street	CBL:	293-C-16
Applicant:	Central Maine Power Company		
Planner:	Shukria Wiar		

DEF

Dear Mr. Mirabile:

On October 6, 2011, the Planning Authority approved with conditions a Level I site plan for Central Maine Power Company for an expansion of the substation yard by 5,000 sq ft and the addition of electrical components, such as breakers, distribution line, transformer, and control house, at 116 Bishop Street. The decision is based upon the plans and application as submitted by Central Maine Power Company and prepared by TRC Engineers with a revision date of 10.27.2011. The proposal was reviewed for conformance with the standards of Portland's site plan ordinance. Since the approval letter dated 10.11.2011, the original condition #3 has been revised as the following:

A vehicular access easement or sufficient executed access agreement between CMP and the adjacent property owned by Deering Lodge Building Corporation, securing rights to improve and utilize the portion of the access drive to the CMP site that is shown on the adjacent property shall be submitted for Planning Authority and Corporation Counsel review and approval and upon city approval the easement or agreement shall be recorded at the Cumberland County Registry of Deeds, prior to the issuance of a certificate of occupancy.

The following original conditions of approval have been met:

- 1. The applicant shall contribute \$1,680.00 as an urban impaired stream mitigation fee in lieu of on-site stormwater mitigation measures; and
- 2. The applicant shall revise the final site plan to show the installation of a bituminous sidewalk along the frontage of the Central Maine Power Company Substation that abuts Bishop Street. The sidewalk shall comply with the City of Portland Technical Standard; and
- 3. The final site plan shall show the zone line that crosses the property.

The approval is based on the submitted site plan. If you need to make any modifications to the approved site plan, you must submit a revised site plan for staff review and approval.

City Hall, 389 Congress Street . Portland, ME 04101-3509 . Ph (207) 874-8719 . Fx 756-8258 . TTY 874-8936

STANDARD CONDITIONS OF APPROVAL

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Please note the following standard conditions of approval and requirements for all approved site plans:

1. <u>Develop Site According to Plan</u> The site shall be developed and maintained as depicted on the site plan and in the written submission of the applicant. Modification of any approved site plan or alteration of a parcel which was the subject of site plan approval after May 20, 1974, shall require the prior approval of a revised site plan by the Planning Board or Planning Authority pursuant to the terms of Chapter 14, Land Use, of the Portland City Code.

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- 2. <u>Separate Building Permits Are Required</u> This approval does not constitute approval of building plans, which must be reviewed and approved by the City of Portland's Inspection Division.
- 3. <u>Site Plan Expiration</u> The site plan approval will be deemed to have expired unless work has commenced within one (1) year of the approval <u>or</u> within a time period up to three (3) years from the approval date as agreed upon in writing by the City and the applicant. Requests to extend approvals must be received before the one (1) year expiration date.
- 4. <u>Performance Guarantee and Inspection Fees</u> A performance guarantee covering the site improvements, inspection fee payment of 2.0% of the guarantee amount and seven (7) final sets of plans must be submitted to and approved by the Planning Division and Public Services Department prior to the release of a building permit, street opening permit or certificate of occupancy for site plans. If you need to make any modifications to the approved plans, you must submit a revised site plan application for staff review and approval.
- 5. <u>Defect Guarantee</u> A defect guarantee, consisting of 10% of the performance guarantee, must be posted before the performance guarantee will be released.
- 6. <u>Preconstruction Meeting</u> Prior to the release of a building permit or site construction, a preconstruction meeting shall be held at the project site. This meeting will be held with the contractor, Development Review Coordinator, Public Service's representative and owner to review the construction schedule and critical aspects of the site work. At that time, the Development Review Coordinator will confirm that the contractor is working from the approved site plan. The site/building contractor shall provide three (3) copies of a detailed construction schedule to the attending City representatives. It shall be the contractor's responsibility to arrange a mutually agreeable time for the pre-construction meeting.
- Department of Public Services Permits If work will occur within the public right-of-way such as utilities, curb, sidewalk and driveway construction, a street opening permit(s) is required for your site. Please contact Carol Merritt at 874-8300, ext. 8828. (Only excavators licensed by the City of Portland are eligible.)
- 8. <u>As-Built Final Plans</u> Final sets of as-built plans shall be submitted digitally to the Planning Division, on a CD or DVD, in AutoCAD format (*,dwg), release AutoCAD 2005 or greater.

The Development Review Coordinator must be notified five (5) working days prior to the date required for final site inspection. The Development Review Coordinator can be reached at the Planning Division at 874-8632. All site plan requirements must be completed and approved by the Development Review Coordinator prior to issuance of a Certificate of Occupancy. <u>Please</u> schedule any property closing with these requirements in mind.

If there are any questions, please contact Shukria Wiar at (207) 756-8083 or via <u>shukriaw@portlandmaine.gov</u> Sincerely,

Alexander Jaegerman (33)

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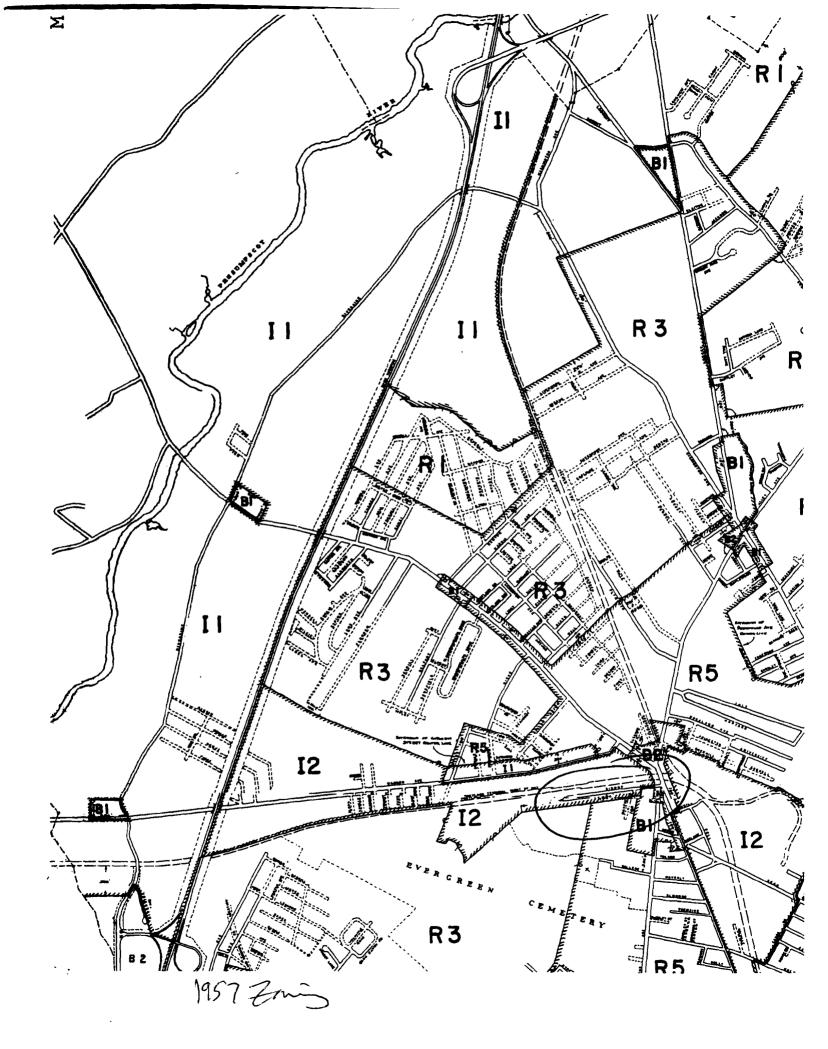
Alexander Jaegerman Planning Division Director

Attachments: 1. Performance Guarantee Packet

Electronic Distribution:

Penny St. Louis, Director of Planning and Urban Development Department Alexander Jaegerman, Planning Division Director Barbara Barhydt, Development Review Services Mgr, Planning Shukria Wiar, Planner Philip DiPierro, Development Review Coordinator, Planning Marge Schmuckal, Zoning Administrator, Inspections Division Tammy Munson, Inspection Division Director, Lannie Dobson, Administration, Inspections Division Michael Bobinsky, Director, Public Services Katherine Earley, Engineering Services Mgr., Public Services Bill Clark, Project Engineer, Public Services David Margolis-Pineo, Deputy City Engineer, Public Services Jane Ward, Administration, Public Services Capt. Chris Pirone, Fire Department Jeff Tarling, City Arborist, Public Services Thomas Errico, P.E., T.Y. Lin Associates David Senus, P.E., Woodard & Curran Assessor's Office **Approval Letter File**

Applicant: CMP Date: 8/2/11 Address: 116 BishopSt C-B-L: 293-C-16 Needs Zone line on Date place Zone Locution - I-MuR-3 CRPAndin Yord Interior of corner lot -Not Needed Proposed UserWork - SubStation Expansion - New Control House Servage Disposal - Cfu ol Front Yard - if fot for each 1 of haught (14.75'min) 70'+ indrented iscaled of Rear Yard. That for CACHT of the often trapto 35' & howtsresden tral Eare- it does side Yard - 1' for each 1' bhaught (Abuts I - moniside) (14.75') 40' scaled # Projections - 9/21/11 plans Show The 16' × 24' bldg moved forward toward The Windsh of Los - Ghell No Forme time on The MAP Height - 14.75' Scaled Lot Area - 35, 119 Det Coverage Impervious Surface 756 MAX 22085 = 61,03% mper Area per Family - NA Off-street Parking purchased propurties behind The 100 × 100' Loading Bays -Site Plan - 2011 - 313 Shoreland Zoning/Stream Protection - N/A in 1967 - Indues Flood Plains - PAnel 7- Zone Y



City of Portland, Maine Code of Ordinances Sec 14-50

Land Use Chapter 14 Rev. 2-21-01

by measurement of the distance indicated on the maps from the normal high water line of the water body or the upland edge of wetland vegetation. Where such measurement is not the same as the location of the boundary on the Shoreland Zoning Maps, the measurement shall control, unless the Shoreland Zoning Map indicates that the zone boundary shall follow an existing property line. Piots ~ 1967 High (Code 1968, § 602.20.A; Ord. No. 15-92, § 4, 6-15-92)

Sec. 14-51. Extension of zone lines.

Where a zone boundary line divides a lot in single or joint we ownership of record at the time such line is established, the $\tau \mathcal{H}$ provisions of this article for the less restricted portion of such lot shall extend not more than thirty (30) feet into the more restricted portion, provided that the lot has at least twenty (20) feet of street frontage in the less restricted zone when taken together with adjacent premises which are under the same or equivalent ownership or control. If such boundary line divides a business or industrial zone from a residence zone, no frontage on a street other than the principal business street in the less restricted zone may be taken into consideration in connection with the right herein granted. This section shall not apply to differing dimensional requirements, including height, within a zoning district.

(Code 1968, § 602.20.B; Ord. No. 35-89, 6-28-89)

Sec. 14-52. Conformity required.

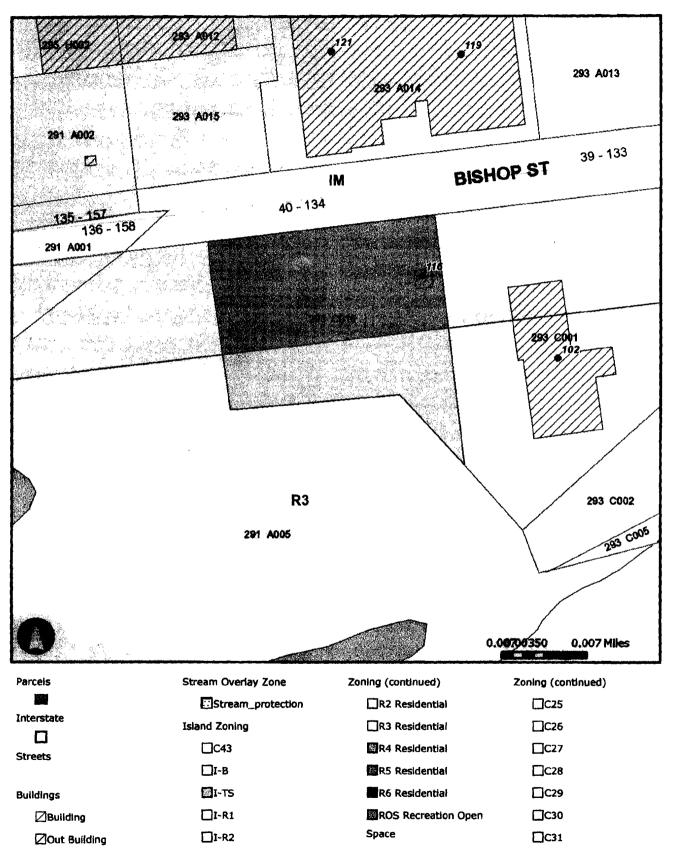
No building or structure shall be erected, altered, enlarged, rebuilt, moved or used, and no premises shall be used unless in conformity with the provisions of this article. (Code 1968, § 602.1.D)

Sec. 14-53. Minimum requirements established.

In interpreting and applying the provisions of this article, they shall be held to be minimum requirements for the promotion of health, safety, convenience and welfare of the citizens of the city; for reducing the danger from fires; and for improving the city.

(Code 1968, § 602.1.E)

Мар



16 Bishop

293-C-

Application for a Level 1-Site Alteration Development Permit

Central Maine Power Company Bishop Street Substation Expansion Portland, Maine

Prepared for:

Central Maine Power Company 83 Edison Drive Augusta, ME 04336

AUG - 3 2011

Prepared by:

TRC Companies, Inc. 14 Gabriel Drive Augusta, ME 04330

July 2011







14 Gabriel Drive Augusta, ME 04330

207.620.3800 PHONE 207.621.8226 FAX

www.TRCsolutions.com

July 29, 2011

Barbara Barhydt Development Review Services Manager Planning Division 389 Congress Street 4th Floor Portland, ME 04101

DI P.T. OF BUILDING INSPECTION CITY OF POBTLAND, ME AUG - 3 2011

Re: Level 1 Site Alteration Permit Application for the Central Maine Power Company (CMP) Bishop Street Substation Expansion, Portland, Maine

Dear Barbara:

Enclosed is the Site Alteration application for the CMP Bishop Street Substation that we discussed back in late May. The substation expansion is important to improving electrical transmission and distribution service to that portion of Portland and neighboring Westbrook. The proposed work includes expanding the substation yard to include an additional 4,575 square-feet of impervious surface, adding specific electrical components, and adding a control house. I will be preparing a building permit application for the control house for submission within the next week or two.

Thanks for your advice and guidance with the project and I hope the application provides all the information the City staff needs to have for review. If there is anything I need to add or if there are any questions please call me at your earliest convenience.

Sincerel

Mark W. Christopher, MS, CWB Environmental Scientist

Cc: CMP, TRC, File 182847 Enclosures



July 27, 2011

•:

RE: Central Maine Power Company Bishop Street Substation Expansion Project

To Whom It May Concern:

Central Maine Power Company hereby authorizes TRC Solutions, Inc., including but not limited to Mark W. Christopher, to act as its agent for purposes of permitting the Bishop Street Substation improvement project.

Please call me at 626-9557 or email me at <u>gerry.mirabile@cmpco.com</u> with any questions. Thank you.

Sincerely,

Mabele Jerry

Gerry J. Mirabile Lead Analyst - Compliance

83 Edison Drive: Augusta, ME 04336 Telephone 207.623.3521



S:\Compliance\Shared\Environmental\Projects\Substations\Bishop Street SS Agent Authorization Letter doc

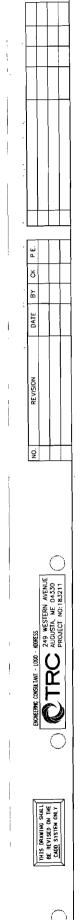
Central Maine Power Company Bishop Street Substation Expansion Portland, Maine

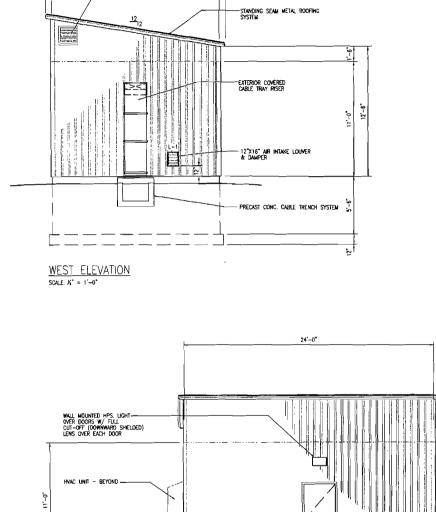
PROJECT SUMMARY

Central Maine Power Company (CMP) is expanding the existing Bishop Street 34.5 kV substation and installing several new electrical components and a control house. The substation is located at 116 Bishop Street (tax map 293-C-16) on a 0.82 acre parcel. The substation and proposed expansion area is within an area zoned as Industrial use and the site is surrounded by industrial and commercial uses. The substation expansion involves expanding the west fence line boundary 30 feet to the west and the south fence line boundary 24 feet to the south. The total area of new impervious expansion is approximately 4,575 square-feet. Outside the fence line the site will be stabilized with pervious materials such as riprap. New components that will be installed include adding two 34.5 kV breakers, adding a fourth distribution circuit into the existing switchgear, and replacing existing transformer T1 with a new transformer. The breakers and transformer are all supported by new concrete slab foundations. A control house will be constructed within the southeast corner to the expanded portion of the substation yard. The control house contains the monitoring and protection and control components of the substation. It is largely a prefabricated steel building 16 feet by 24 feet on a concrete slab foundation.

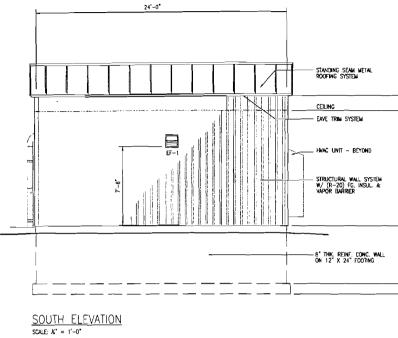
The project components will improve service and reliability to residents and businesses that are served by the distribution circuits that originate from this substation. These areas largely include the west side of Portland including industrial, commercial, and residential areas, and many parts of Westbrook, which are largely residential. Expansion of the substation yard is necessary to provide the area for the control house, access for low-bed trailer trucks to bring in the new transformer, improve the grounding grid, and create room for possible future expansion. The entire site expansion will require approximately 1,000 cubic yards of fill including crush rock, gravel, and riprap.

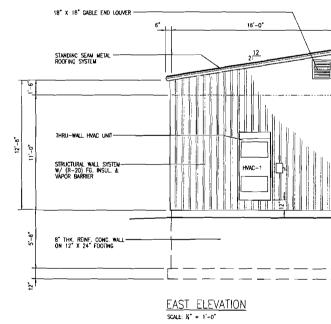
12-14-11 DWM ED 484-614-9328 Footnes OK 12-16-11 DWM ED Walls OK No back Sill inspection needed



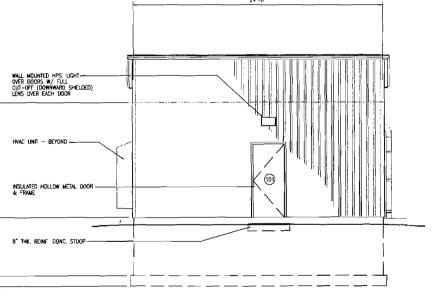


16'-0"





			LAST SCALE:)		'-0~					REFERENCE DRAWINGS 520-3-11 STE FLAN 520-4-1 CONTROL HOUSE FOUNDATION 520-4-2 CONTROL HOUSE FLOOR PL 520-5-4 SH 1 520-5-4 SH 2 CONTROL HOUSE LAYOUT 520-5-4 SH 2	AN	
	NO.	REVISION	DATE	BY	СК	P.E.	P. E. No.	Professional Engineer Seal	DESIGNED TRC/SDT	CONTROL	HOUSE	
his document and any attachments are considered:					-	+		OF MA	DRAWN TRC/SDT	EXTERIOR EL	EVATIONS	
USINESS CONFIDENTIAL ROTECTED CRITICAL INFRASTRUCTURE INFORMATION	\vdash			+	1-	+	<u> </u>	ANDREW	CHECKED TRC/AJW	BISHOP S	T. S/S	
REFERENCE DRAWINGS								* ANDREW J. WILLIAMS	APPROVED	PORTLAND	м	IAINE
	\vdash			<u> </u>	_			Will Louis No. 11173	REVIEWED	CENTRAL MAINE POWER COMPANY	520-4-3	
	-	IFC ISSUE FOR CONST 2011	10/21/11	TRC	TRC	WLA	11173	10/21/11		CENTRAL MAINE DATE: 05/25/2011 POWER SCALE: AS NOTED	REV 0	



- 18"X18" GABLE END LOUMER

6"

NORTH ELEVATION scale: X" = 1'-0"

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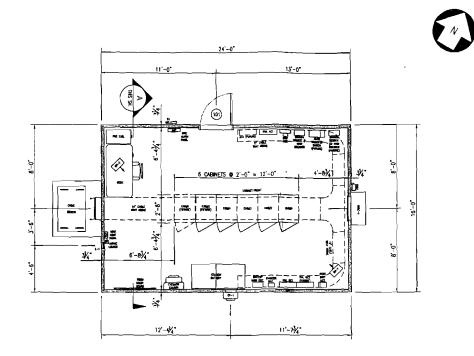




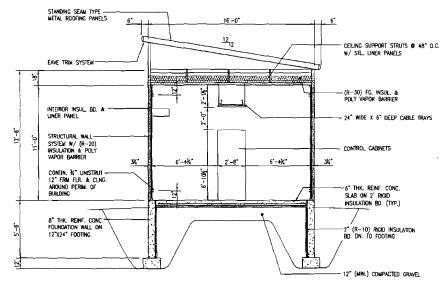
	┌┤	UNIT	HEAT	ER SCHEDULE			
_	Ц	MARK		WFR & MODEL NO.		KW.	DPTIONS
		UH-1	1	OMARK (MUHO3-21		3.0	208/240v / : ph ELECT., INTEGRAL THERMOST DISC SWITCH & CLNG./WALL MNTG, BRACKET
		UH-2	1	owark #WUH03-21		3.0	208v240v / t ph ELECT., INTEGRAL THERMOST. DISC. SMITCH & CLNG./WALL MNTG. BRACKET
		<u> </u>					
		HVAC	UNIT	SCHEDULE			
		MARK	QUANTITY	MFR & MODEL NO		COOLING BTU/HR	OPTIONS
		HWAC-1	1	LIEBERT #ET0187RPEAT		18,000	230v / 1 ph Elect., ECONOMIZER, Skw Elect. Heat & INT. GRILLES
		L	<u> </u>	<u> </u>			
			1	FAN SCHEDULE			
	4	MARK	QUANTITY	MFR & MODEL NO		CFM	Options wall collar, backdraft damper, weather
		EF-1	<u> </u>	GREENHECK DIRECT DR SE1-8-424-G		80	HOLD W/ BIRD SCREEN & DISCOMMECT SWITCH
+	+	L		<u> </u>			
	+		KE LO	UVER SCHEDU	LE		
	+-	MARK	QUANTITY		FREE	NOMINAL SIZE	OPTIONS
		L-1	1	RUSKIN FELME110		12 °W × 16'	HILL ENISH 120 VAC MOTOR OPER DAVIOER
	(83211)						
VESTERN AVEN	PROJECT NO.183211						
VESTERN AVENUE							
VESTERN AVENU STA, ME 04330							
249 WESTERN AVEN							
VESTERN AVENUE							
VESTERN AVENU							
VESTERN AVENUE							
AN WESTERN AVENUE AUGUSTA, ME 04330							
TRC 249 WESTERN ANENUE							
VESTERN AVENU STA, ME 04330							

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FLOOR PLAN	
SCALE: X [*] = 1'-0"	



A BUILDING SECTION Bes SH SCALE: K" = 1'-0"

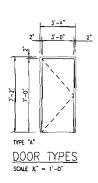
	NO.	REVISION	DATE	BY	СК	P. sime	E. P.	. Е. No.	Professional Engineer Seal	DESIGNED TRC/SDT	CONTROL	HOUSE
This document and any attachments are considered:	-	<u> </u>		<u> </u>		_	-+-		TE OF MA	DRAWN TRC/SDT	FLOOR	PLAN
BUSINESS CONFIDENTIAL PROTECTED CRITICAL INFRASTRUCTURE INFORMATION	┢	<u> </u>		-		+	+	-	ANDREW	CHECKED TRC/AJW	BISHOP S	ST. S/S
REFERENCE DRAWINGS							T		* (WILLIAMS)*	APPROVED	PORTLAND	MAINE
	1	ļ			<u> </u>	┣-	+	_	To the local sector	REVIEWED	CENTRAL MAINE POWER COMPANY SYSTEM ENGINEERING	520-4-2
	0	IFC ISSUE FOR CONST 2011	10/21/11	TRC	TRC	AJV	N 11	173	1-10/21/11	<u> </u>	CENTRAL MAINE DATE: 05/26/2011 POWER SCALE: AS NDTED	REV 0

DOOR SCHEDULE

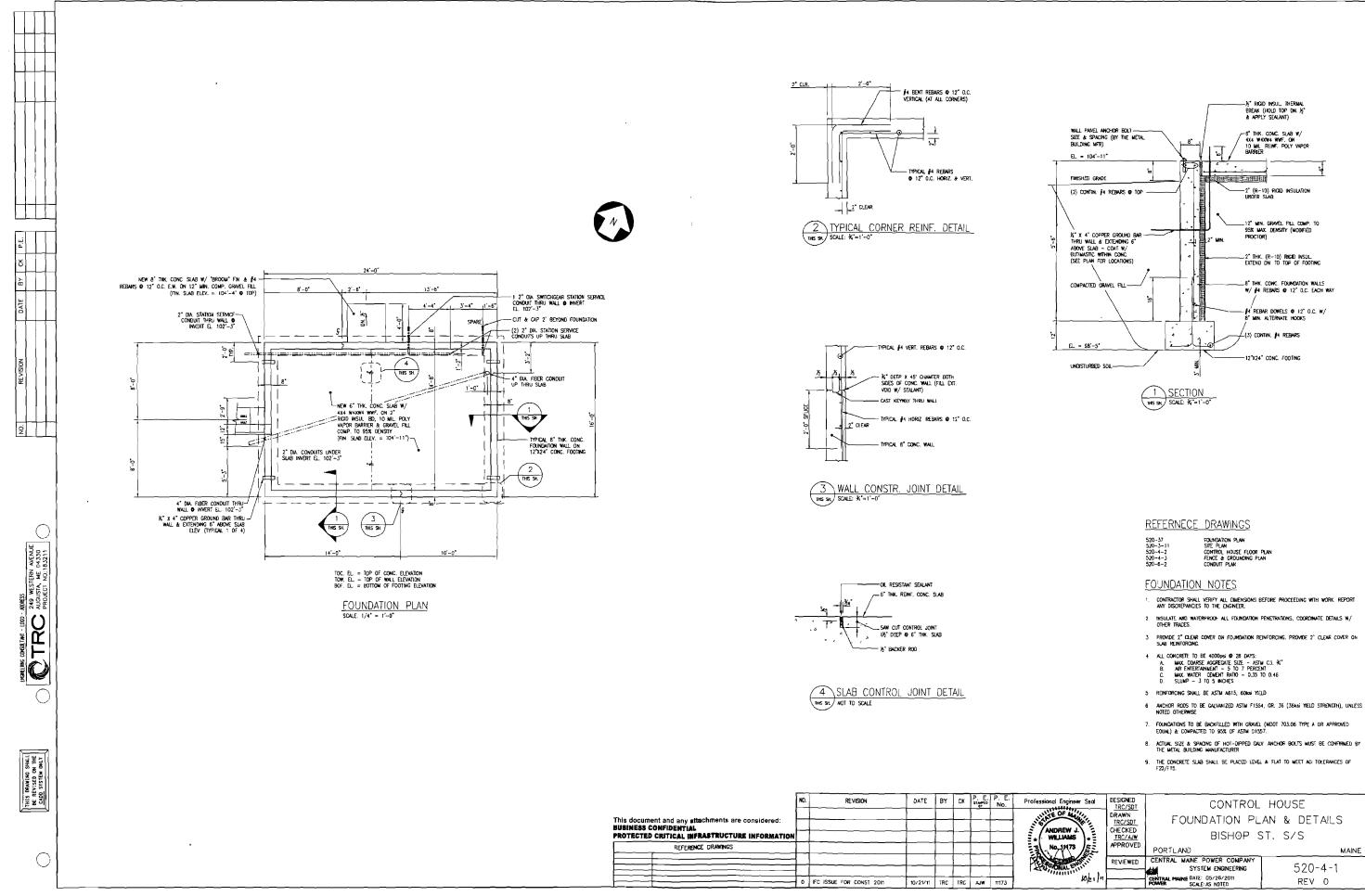
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3'-0" x 7'-0" x 1¥

MATERIAL	TYPE	HARDWARE	CLOSER	WTHR. STRIP'G	REMARKS
NSUL. HOLLOW WETAL	^	PANIC BAR & PULL PLATE W/ ELECT. STRIKE & LOCKSET	TES	YES	ALUMINUM THRESHOLD W/ THERMAL BREAK



		REFERENCE 520-3-11 520-4-1 520-5-4 520-5-4 520-5-4 520-5-4 520-5-2 NOTEC	DRAWINGS Site plan control house foundation plan & details control house externor elevations control house earout control house elevations control house elevations	
		NOTES 1. Equipment shown for actual equipm	Is for general layout purposes only, see owg \$20- ient layout	-5-4 SH 1
Geal	DESIGNED TRC/SDT		CONTROL HOUSE	
Manual States	DRAWN TRC/SDT CHECKED TRC/AJW APPROVED		FLOOR PLAN BISHOP ST. S/S	
		PORTLAND	POWER COMPANY	MAINE



REW J.	CHECKED TRC/AJW APPROVED	BISHOP	ST. S/S
1173 JEE		PORTLAND	MAINE
ALL FURTH	REVIEWED	CENTRAL MAINE POWER COMPANY SYSTEM ENGINEERING	520-4-1
WAL FITT		CENTRAL MAINE DATE: 05/26/2011	520 + 1
יין ו בן סע		POWER SCALE: AS NOTED	REV 0