Form # P 04 DISPLAY THIS (CARD ON PRINCIPAL FRONTAGE OF WORK
Please Read Application And Notes, If Any,	FULDING INSPECTION
Attached	PERIVIP
This is to certify that <u>CITY_OF_PORTLAN</u>	ID /City Portland Public Works Const tion
has permission toConstruct a building f	for the series and a dling niversal tes JUL 2 3 2007
AT 910 RIVERSIDE ST	3 57_ A 0010 0 1
provided that the person or per- of the provisions of the Statute the construction, maintenance this department.	es of ine and of the Organices of the City of Portland regulating
Apply to Public Works for street line and grade if nature of work requires such information.	Nficationfinspectionmustergn and ween permition procuedA certificate of occupancy must bebre thisIding or or t thereasled or convision osed-in.IHJR NOTHEQUIRED.
OTHER REQUIRED APPROVALS Fire Dept Health Dept Appeal Board Other Department Name	Dijector - Building & Inspection Services
	PENALTY FOR REMOVING THIS CARD ℓ

N.

City of Portland, Maine - Bu	uilding or Use l	Permit .	Applicatior	l Pern	uit No:	Issue Date:		CBL:	
389 Congress Street, 04101 Tel	: (207) 874-8703	, Fax: (2	07) 874-871	5	07-0520			357 A0	01001
Location of Construction: Owner Name:			Owner A	Address:			Phone:		
910 RIVERSIDE ST	CITY OF POR	RTLAND		389 C	ONGRESS S	ST			
Business Name:	Contractor Name	:		Contrac	tor Address:			Phone	
	City of Portlan	d Public	Works Const	389 C	ongress Stre	et Portland		20779785	31
Lessee/Buyer's Name	Phone:			Permit [Гуре:				Zone:
				Comr	nercial				1-M
Past Use:	Proposed Use:			Permit	Fee:	Cost of Work:	CE	O District:	Where Blo
RiversideTransfer Station - 360	RiversideTran				\$470.00	\$45,000.	00	5	10
A001, 362 A001, 363 A001	Construct a bu			FIRE D	DEPT:	Appioved	SPECTI	<u> </u>	6
	and handling o	of universa	al wastes			Denied	Jse Group:	51	Type.
						•		2/22	122 V
				See	e Condil	rions	/	RA	
Proposed Project Description:						~	ľ		IST
Construct a building for the storage	e and handling of u	niversal v	wastes	See and trong Signature Creg Creg Signature					
				PEDESTRIAN ACTIVITIES DISTRICT (P.A.D.)					
				Action: Approved Approved w/Conditions Denied					
				Signatu	re:		Da	.te:	
	Applied For:				Zoning	Approval		/	
ldobson 05	/08/2007								
1. This permit application does n	•	Specia	al Zone or Revie	ws	Zoning	g Appeal		Historic Pres	ervation
Applicant(s) from meeting app Federal Rules.	blicable State and	Shor	eland NP		Variance		V	Not in Distric	t or Landmark
2. Building permits do not includ septic or electrical work.	le plumbing,	Wetl	land		Miscellar	eous		Does Not Rec	quire Review
3. Building permits are void if we within six (6) months of the da		Floo	d Zone		Condition	nal Use		Requires Rev	iew
False information may invalidate permit and stop all work.		Subc	livision		Interpreta	tion		Approved	
PERMIT ISSUE		Site	Plan 2 <i>0</i> 05 - 02	46		l		Approved w/	Conditions
	7	Maj 🗌	Minor 🔀 MM	⊐.i⊦	Denied			Denied	\mathcal{A}
JUL 2 3 2007		Date:	with co	1210	Date:		Date:	\sim	
CITY OF PORTLA	ND			(/

CERTIFICATION

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
RESPONSIBLE PERSON IN CHARGE OF WORK, TITLE		DATE	PHONE

City of Portland, Maine - Bu	ilding or Use Permit		Permit No:	Date Applied For:	CBL:
389 Congress Street, 04101 Tel:	U U) 874-8716	07-0520	05/08/2007	357 A001001
Location of Construction:	Owner Name:		Owner Address:		Phone:
910 RIVERSIDE ST	CITY OF PORTLAND		389 CONGRESS S	Т	
Business Name:	Contractor Name:	(Contractor Address:		Phone
	City of Portland Public We	orks Const	389 Congress Stree	et Portland	(207) 797-8531
Lessee/Buyer's Name	Phone:		Permit Type:		
			Commercial		
Proposed Use:		_	Project Description:		
RiversideTransfer Station- Construct handling of universal wastes	PERI	MIT ISSU	ED 7		ng of universal wastes
	Approved with Conditions		Marge Schmucka		
Note:	L CITY C	F PORTL	AND		Ok to Issue: 🗹
1) Separate permits shall be require	ed for any new signage.				
 This permit is being approved o work. 	n the basis of plans submitted.	. Any deviat	ions shall require a	separate approval be	fore starting that
Dept: Building Status:	Approved with Conditions	Reviewer:	Mike Nugent	Approval Da	ite: 07/23/2007
Note:			-		Ok to Issue: 🗹
1) 3) Because the building is being					echnical report
will be important. This will be c	ompleted and documented in f	the final Spec	cial Inspections Rep	port.	
2) 2) On the statement of special ir provide a code justification prio		assigned to S	Summit are crossed	out, The design prot	fessional must
 The Use Group selected by the of occupance, the applicant shal stored and processed in this built into an "H" (high hazard)use group 	l provide an actual use stateme ding, The actual storage canno	ent that detai	ls what what specif	ic materials and thei	r quantity will be
Dept: Fire Status:	Approved with Conditions	Reviewer:	Capt Greg Cass	Approval Da	te: 06/12/2007
Note:					Ok to Issue: 🗹
1) All Federal, State, and local Law	vs apply				
Dept: Fire Status:	Approved	Reviewer:	Cptn Greg Cass	Approval Da	te: 12/01/2005
Note:					Ok to Issue: 🗹
 Request an additional hydrant or On the same side of the road as to 				ıd.	
Dept: DRC Status:	Approved	Reviewer:	Woodard and Cur	ran Approval Da	te: 01/18/2006
Note:					Ok to Issue: 🗹
Dept: Planning Status:	Approved	Reviewer:	Jean Fraser	Approval Da	te: 02/07/2006
Note:					Ok to Issue:
 Details of proposed new University to the issuance of a building permission 	al Waste and Residential Gate nit for the structure(s).	e House build	lings, including ligh		
 That the relocated trail will be control to the applicant undertaking any clear surface. Such works to be composited and the surface of the sur	arance required and construct	er of the new	fence, connecting t with erosion control	o both ends of the ex l mix to provide a sta	tisting trail, with ble walking

Location of Construction:	Owner Name:		Owner Address:	Phone:
910 RIVERSIDE ST	CITY OF PORTLAND		389 CONGRESS ST	
Business Name:	Contractor Name:		Contractor Address:	Phone
	City of Portland Public W	/orks Const	389 Congress Street Portland	(207) 797-8531
Lessee/Buyer's Name	Phone:		Permit Type:	
			Commercial	

3) Applicant to plant at least 20 white pines (or other species as recommended by the City of Portland Arborist) along the inside of the perimeter fence along Riverside Steet, between the existing driveway (gated off) at the southwest of the site and the adjacent property (outside the fence) and to fill gaps in the row of pines along Riverside Steet on the outside of the perimeter fence, the exact locations to be assessed and agreed with the City of Portland Arborist. Such planting to take place before November 1, 2006.

Comments:

5/21/2007-mes: the actual location of Riverside Transfer Station is located under #361-A-2



annie on Donnu

Please call 874-8703 of 874-8693 to schedule your inspections as agreed upon

Permits expire in 6 months, if the project is not started or ceases for 6 months.

The Owner or their designee is required to notify the inspections office for the following inspections and provide adequate notice. Notice must be called in 48-72 hours in advance in order to schedule an inspection:

By initializing at each inspection time, you are agreeing that you understand the inspection procedure and additional fees from a "Stop Work Order" and "Stop Work Order Release" will be incurred if the procedure is not followed as stated below.

A Pre-construction Meeting will take place upon receipt of your building permit.

Footing/Building Location Inspection

Re-Bar Schedule Inspection:

E Foundation Inspection:

Framing/Rough Plumbing/Electrical:

Prior to pouring concrete

Prior to pouring concrete

Prior to placing ANY backfill

Prior to any insulating or drywalling

Final/Certificate of Occupancy:

Prior to any occupancy of the structure or use. NOTE: There is a \$75.00 fee per inspection at this point.

Certificate of Occupancy is not required for certain projects. Your inspector can advise you if your project requires a Certificate of Occupancy. All projects DO require a final inspection

Lif any of the inspections do not occur, the project cannot go on to the next phase, REGARDLESS OF THE NOTICE OR CIRCUMSTANCES.

CERIFICATE OF OCCUPANICES MUST BE ISSUED AND PART FOR BEFORE THE SPACE MAY BE OCCUPIED

Signature of Applicant/Designee

Signature of Inspections Official

Date

OSc

A 001 Building Permit #:

Date: 5/21/07 Applicant: (ity of Part C-B-L: Address: 910 RiverSide CK-LIST AGAINST ZONING ORDINANCE, 36, uct Actual location Date -Zone Location - I-W to universal Waste Proposed Use Work- TO CONStruct A build Servage Disposal - Cty Lot Street Frontage -Front Yard - I'for every 1'ob hargent - 13.5' rag - 120'Scale Rear Yard - I' for every I'd hayht - 13.5'reg - 100't Shon Side Yard - 1' for every I'd hayht - 13.5'reg - 90' Schlaft Projections -13.5' Scaledon Submitted Width of Lot -Height -Loi Area - 11, 891, 880 # - uludes golf Com Se Lot Coverage (Impervious Surface - 7576 -Area per Family - NA Off-street Parking - NA Loading Bays - N yes in Fear - The Aread Th 2005-024(Site Plan -Shoreland Zoning/ Stream Protection Flood Plains. outside - Not NEAV

RECEIVED

JUL 17 2007

City of Portland Planning Division

July 12, 2007

Ms. Jean Fraser Planner Planning Division 4th floor City Hall 389 Congress Street Portland, ME 04101

RE: City of Portland, Maine Supplemental Submission, Site Plan Application Riverside Transfer Station Portland, Maine St.Germain File No.: 2844.1

Dear Ms. Fraser:

St.Germain & Associates, Inc., on behalf of City of Portland Department of Public Works, is pleased to provide the following supplemental submission. The purpose of this submission is to indicate that the lighting installed on the universal waste building at the Riverside Transfer Station will be cut-off lighting in accordance with the city of Portland's Technical Standards and Guidelines Section XV: Site Lighting Standards.

The elevations submitted with the General Building Permit application (in May 2007) showed lighting fixtures that were not labeled as cut-off fixtures. Please let this letter and attached documentation serve as an update of that application. No other changes to the elevations are implied by the attached drawings.

Should you have any questions during the review of the enclosed materials, please contact Troy Moon at (207) 874-8467 or me at (207) 591-7000.

Sincerely, ST.GERMAIN & ASSOCIATES, INC.

Mark S. St.Germain Project Manager

enclosures

cc: Jeannie Bourke, City of Portland Troy Moon, City of Portland Jim Hiltner, CPRC Corp. 846 Main St., Suite 3 Westbrook, Maine 04092 Telephone 207-591-7000 Facsimile 207-591-7329 info@stgermain.com



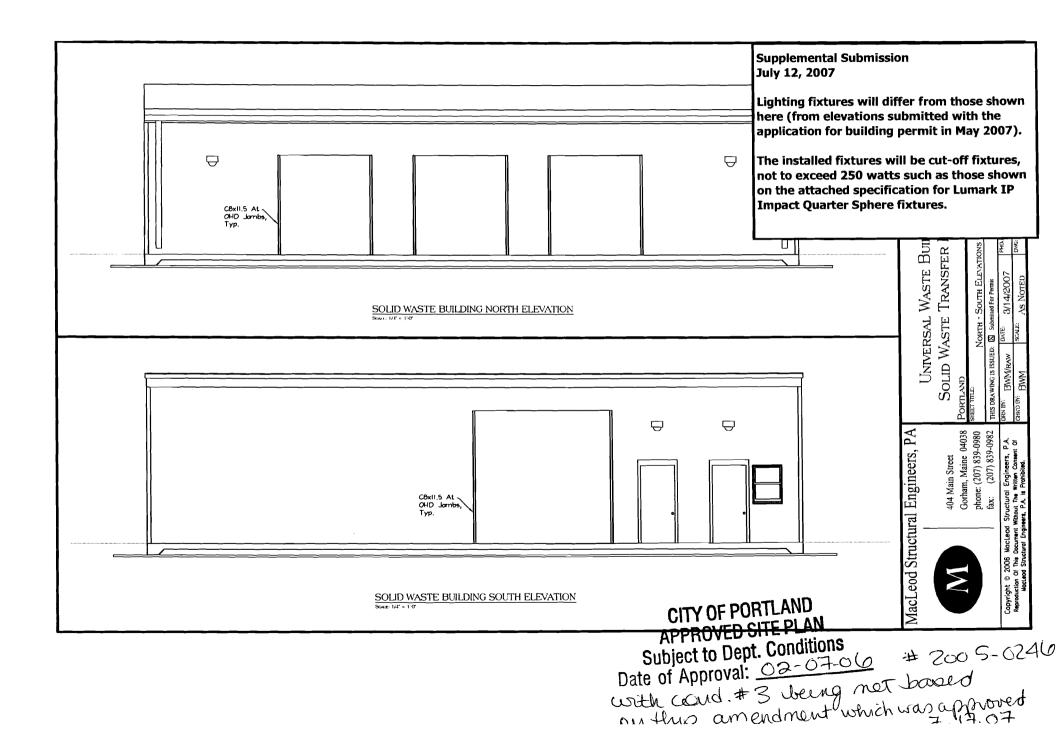
CITY OF PORTLAND APPROVED SITE PLAN

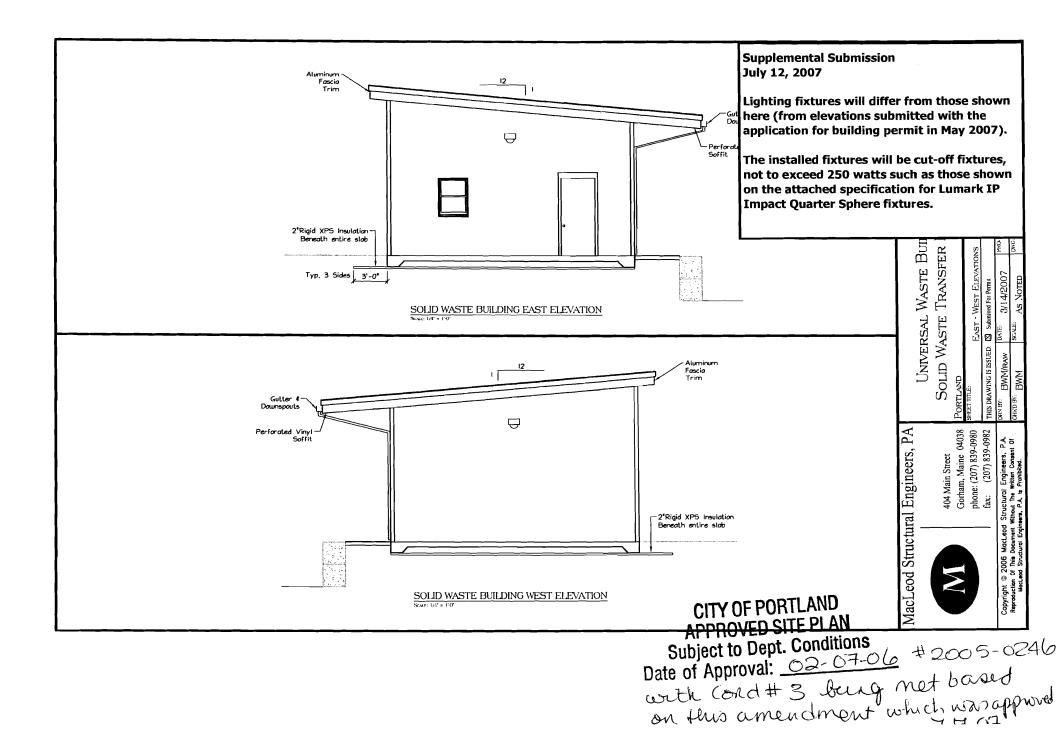
with Cord 3 met based ou this amendment as appl

Subject to Dept. Conditions Date of Approval: <u>62-67</u>

www.stgermain.com

#2005-0246





DESCRIPTION

The IMPACT Quarter Sphere cutoff wall luminaire has a traditional style of spherical form with geometrical symmetry and balance that gives a blended form to complement site design. U.L. listed and CSA Certified for wet locations in down mounting applications and damp location in up mounted applications.

APPLICATION

The IMPACT's rugged die-cast construction, full cutoff classified optics is perfect for light restricted zones surrounding schools, office complexes, apartments, and recreational facilities providing facade and security lighting needs.

CATALOG #:

SPECIFICATION FEATURES

A-Housing

The housing is a two-piece design of die-cast aluminum for precise control of tolerances and repeatability.

B...Mounting

Gasketed and zinc plated rigid steel mounting attachment fits directly to 4" J-Box or wall with "Hook-N-Lock" mechanism for quick installation. Secured with two (2) captive corrosion resistant black oxide coated allen head set screws concealed but accessible from bottom.

C...Optical Modules

All optical modules utilizes high performance 95% reflective sheet. Strong Type II optical module is standard.

D.Baliast

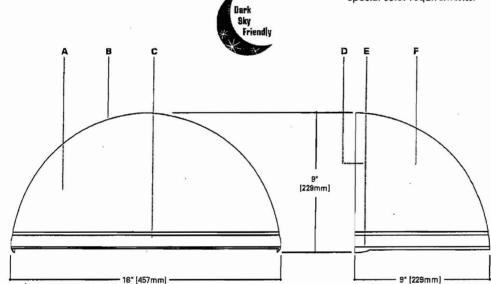
HID luminaires supplied with high power factor ballast with Class H insulation. Minimum starting temperatures are -40°C (-40°F) for HPS and -30°C (-20°F) for MH. Compact Fluorescent luminaires feature program start, high efficient multi-voltage 50/60Hz ballast with -18°C (0°F) minimum starting.

E...Door

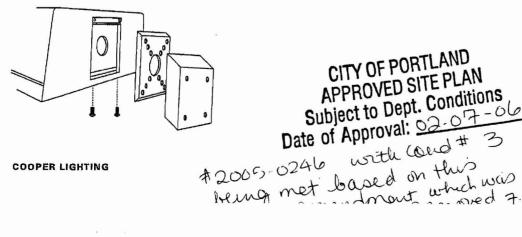
Die-cast door mounted with. 1/8" heat- and impact-resistant clear tempered glass lens, with internal plated steel clips and sealed with EPDM gasketing. Hinged door secured in place via two (2) captive fasteners.

F...Finish

Durable polyester powder coat finish. Standard color is bronze. Optional white, black and silver colors available. Other finish colors available. Consult your Cooper Lighting Representative concerning special color requirements.



HOOK-N-LOCK MOUNTING (Mounting attachment included, J-Box not included,)



COOPER LIGHTING

32W (PLIP32) 42W (PLIP42) 52W (PLIP52) ENERGY DATA 50W MH HPF (72 Watts)

CITY OF PORTLAND

APPROVED SITE PLAN

Subject to Dept. Conditions Date of Approval: <u>22-07-06</u>

CWA Ballast Input Watts 175W MH HPF (210 Watts)

Fiectronic Ballast Input Watts 26W PL HPF (29 Watts) 32W PL HPF (36 Watts) 42W PL HPF (46 Watts) 52W PL HPF (55 Watts)

ADH021645

moved 7.17.07



LUMARK[®]

IP IMPACT QUARTER SPHERE

50-175W High Pressure Sodium Metal Halide

26-52W **Compact Fluorescent**

> WALL MOUNT LUMINAIRE



TECHNICAL DATA 25°C Maximum Ambient Temperature External Supply Wiring 90°C Minimum Down Mounted-Wet Location Up Mounted-Damp Location

IES FILES Metal Halide 175W (MHI_17) High Pressure Sodium 150W (HPI 15)

Compact Fluorescent 26W (PLIP26)

High Reactance Ballast Input Watts 60W HPS HPF (66 Watts)

70W HPS HPF (91 Watts) 70W MH HPF (90 Watts) 100W HPS HPF (130 Watts) 100W MH HPF (128 Watts) 150W HPS HPF (190 Watts) 150W MH HPF (185 Watts)



Planning Division Jean Fraser, Planner 7.17.07

Re: 910 Reversido Smeet Site Plan Review for Universal waste Bldg (part of SP Appl. # 2005-0246-Courd # 3 related). Deaufin that the Stephen Condition relating to this building (recreed + approval of proposed building * its lighting) have been met. The attached revisions should be referenced in your file. an e-mail and UI entry

also confirm. kan Inaser

846 Main St., Suite 3 Westbrook, Maine 04092 Telephone 207-591-7000 Facsimile 207-591-7329 info@stgermain.com

November 3, 2005

Ms. Sarah Hopkins City of Portland Planning Department City Hall, 389 Congress Street Portland, Maine 04101

RE: City of Portland, Maine. Minor Site Plan Application Riverside Transfer Station Portland, Maine



Dear Ms. Hopkins:

St.Germain & Associates, Inc., on behalf of City of Portland Department of Public Works, is pleased to present the following Minor Site Plan application for improvements to the existing Riverside Transfer Station.

As discussed in our recent meeting, the attached plans and narrative describe updates and improvements proposed to increase the operational efficiency of the facility. An application for a minor revision to the State of Maine Department of Environmental Protection (MEDEP) Solid Waste Permit for the facility was submitted in September 2005. A draft permit was issued for review last week and a final permit is expected within two weeks. It is the intent of the new facility operator, Commercial Paving and Recycling Company, to begin initiating the proposed site layout modifications as soon as the approval is granted by the Portland Planning Authority, preferably this fall. It is our understanding that as this is a City application the fees will be waived.

Should you have any questions during the review of the enclosed materials, please contact me at (207) 591-7000.

Sincerely, ST.GERMAIN& ASSOCIATES, INC.

Mark S. St.Germain Project Manager

enclosures:

cc: Troy Moon, City of Portland Jim Hiltner, CPRC

Application for Minor Site Plan Review Approval Improvements to the Riverside Solid Waste Transfer Facility

Project Narrative

Site Description

The City of Portland Riverside Transfer Facility is located on Parcel ID Number 357 A001001, at 910 Riverside Street in the city of Portland. The parcel owned by the city comprises a total area of 273 acres (including the adjacent municipal golf course). The solid waste transfer facility is located within the Industrial Moderate Impact (IM) zone. The site currently operates as the main solid waste transfer facility in the city, accepting residential and commercial quantities of solid waste from Portland and the surrounding area.

Site Plan Modifications

Several minor modifications are proposed to the current facility layout. These are aimed at improving the safety and efficiency of access and egress traffic movements, and operations activities within the site. The changes to the facility layout are described below.

Facility Layout and Traffic Circulation

A new, separate residential drop off and loading area is proposed at the southern side of the facility, adjacent to the main entrance from Riverside Street. This will allow residential traffic to be separated from commercial traffic at the entrance to the facility increasing the safety and efficiency of traffic flow through the site. The residential traffic will pass a new attendants hut at the entrance to the drop off area, where incoming materials can be checked, and directions given as necessary. The new residential drop off area will comprise a universal waste, battery and pressurized container off-loading area and a raised ramp beside a series of segregated materials bins. The bins are to be set back from the access road on the north side to allow unloading vehicles space to maneuver. The access road continues past the bins and loading trailers, to a materials loading area, where residential quantities of loam, mulch etc. can be loaded. Several side-load containers are located at the east end of the raised ramp for collection of recyclable materials. The residential access road then proceeds down a ramp to the residential traffic exit, located at the current main facility entrance on Riverside Street.

Commercial traffic will continue to enter the site at the existing location and proceed to the scale for weighing. The entrance road has been modified to allow sufficient turning radius for trucks to enter the scale directly, rather than passing and backing onto the scale as is the current practice. A commercial traffic loop road then extends around the perimeter of the facility allowing commercial traffic to pass and/or offload at one of several commercial materials acceptance areas between the residential drop off area and the main processing and stockpile area of the facility. Commercial traffic will then proceed in a counter clockwise manner around the perimeter of the facility towards the exit. Materials loading areas are provided off the main loop road to allow loading of processed and export materials while allowing through traffic to pass. Commercial traffic will leave the facility via the scale and a new exit onto Riverside Street at the southwest corner of the facility. The new exit offers improved sight distances in both directions and greatly simplifies the turning movement required to exit the site. The provision of a second exit also removes current conflicts between entering and exiting traffic at the facility.

The northern portion of the facility will house the main materials processing and stockpile areas. Unloaded materials will be segregated, and either processed and stockpiled for future transfer, or transferred directly to loading areas for onward transport and disposal. The internal processing and stockpile area is designed to allow efficient transfer of materials while minimizing conflicts between site operational machinery and external traffic. The stockpiles are configured to create a maximum individual storage area of 15,000 square feet, with minimum 25 foot wide fire access aisles between, as stipulated in the City of Portland correspondence with Maine Department of Environmental Protection dated October 4, 2001.

The facility layout improvements allow unloading, transfer, storage and loading of materials at the site as currently occurs, while minimizing conflicts between residential, commercial and internal site equipment traffic. This will greatly improve safety conditions and operational efficiency at the facility.

One new building, a gatehouse, is proposed at the entrance to the residential drop off area. A second building, for universal waste handling may also be provided at the site, pending State funding.

Building Coverage

There are currently two buildings on site, the vehicle maintenance shed and the office trailer. A new, larger Universal Waste building is proposed to the north of the existing scale and the rear of the existing vehicle maintenance building. A small gatehouse is proposed at the entrance of the residential drop-off area to provide shelter for attending facility staff. Although a stamped boundary survey is not available for the entire parcel, it is evident that the newly proposed buildings will meet the setback requirements of the zoning district. The current City of Portland Land Use Regulations require a minimum side yard setback of one foot for each one foot of building height, up to twenty five feet and a minimum front yard setback of one foot for each one foot of building height, in the IM Zone. The proposed new gatehouse is over 150 feet from the front property line and over 170 feet from the side line. The proposed new Universal Waste building is over 200 feet from the front and side lot lines.

Fire Fighting

Several of the proposed improvements will improve the fire fighting capabilities on the site. The provision of a clear, paved perimeter access road will greatly improve access to the stockpile areas to the rear of the property. Fire access lanes are also provided between the stockpile areas, which have been reduced in size to a maximum area of

Site Plan Modifications City of Portland Riverside Street Transfer Facility St.Germain File No. 2766.1 November 3, 2005 Page 3

15,000 square feet. At a site meeting held on September 2, 2005, The City of Portland Fire Chief expressed concern at the current lack of access to water at the rear of the property. A new fire hydrant will be provided in the wall to the north of the residential drop off area to facilitate access to water for fire fighting purposes. The hydrant will connect to a permanent pipe located under the proposed residential drop off area. The pipe will be kept dry under normal circumstance and will have a second hose fitting at the southern end, adjacent to the existing fire hydrant on the east side of the current facility entrance drive. Should the fire department need water at the rear of the site a hose connection will be made between the existing hydrant and the southern end of the new pipe, allowing water to be drawn from the northern end of the pipe through the hose connection.

A second dry hydrant will be provided at the rear of the site. This outlet will connect to the existing sedimentation pond at the northeast side of the facility, allowing water from the pond to be drawn for fire fighting, if and when necessary.

The provision of additional hydrants will allow improved response times and more efficient fire fighting at the facility.

A new fire training area will be provided on the site for the use of the City of Portland Fire Department. A stabilized pad will be constructed, and a disused cape style residential home will be located on the pad and used for fire training exercises. The exercises will generally comprise filling the structure with smoke and undertaking fire training drills. The fire training area will be accessed via a side driveway off the new commercial exit from the main facility.

The new fire training area and the addition of the new commercial traffic exit will require modifications to the perimeter fencing of the site. This will also enable several sections of damaged fencing to be replaced on the western side of the facility. The updated fence locations are shown on the Site Plan. Fencing materials will be the same as existing, with a six-foot high chain link fence topped with razor wire.

Utilities

The existing utilities connections to the site will be maintained and are considered sufficient for the continued operation of the facility. There is not expected to be any increase in water demand or sewer flow as a result of the proposed improvements.

Storm Water

An extensive storm water analysis was conducted for the site by Sebago Technics in 1994. The proposed modifications to the layout of the facility will not result in a significant change to either the cover conditions on the site, or the existing drainage patterns. It is therefore intended that the major features of the current storm water management system will be retained.

The proposed grading of the facility will direct runoff from the center of the site towards the perimeter in a similar manner to the current configuration. Many of the existing swales, culverts and outlets at the perimeter of the site will remain unaffected by the proposed changes. The existing sedimentation basin at the east side of the site will also remain, although routine maintenance activities, including the removal of accumulated sediments may be required to ensure that the structure continues to function in accordance with the original design parameters.

Two of the existing storm water collection swales will be re-located in order to accommodate the new facility layout. These structures will retain similar contributing drainage areas and are sized to match the existing designs.

It is evident that some of the existing storm water management structures are in need of routine maintenance. An updated storm water system maintenance schedule is included with this submission. Storm water management provisions will also be reflected in an updated Storm Water Pollution Prevention Plan that will be produced for the new State of Maine Multi Sector General Permit for Stormwater Discharges Associated with Industrial Activity.

Construction Plan and Schedule

Construction of the proposed improvements to the facility will commence upon receipt of State and local permit approvals. It is expected that the new residential transfer area and commercial egress from the site will be constructed first, followed by the new loop road and stockpile areas. The improvement work will be phased to ensure that the facility continues to operate affectively throughout the construction period.

List of Permit Federal, State and local Permitting Requirements

The proposed minor modifications to the facility will require a Minor Modification to the MEDEP Solid Waste Permit. An application for this permit was filed with MEDEP in September 2005. A draft approval has been issued and the final permit is expected within two weeks.

The facility is currently covered by the USEPA Multi Sector General Permit for Stormwater Discharge Associated with Industrial Activity (MSGP). Coverage under this permit expires on October 31, 2005 at which time the State of Maine Department of Environmental Management will assume control of the MSGP program. A Notice of Intent to comply with the new 2005 State of Maine MSGP will be submitted to obtain coverage for the facility under the new State of Maine program.

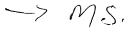
Upon approval of the Site Plan by the City of Portland Planning Authority, building permits will be required for any new structures to be constructed on the property.

CITY OF PORTLAND, MAINE DEVELOPMENT REVIEW APPLICATION PLANNING DEPARTMENT PROCESSING FORM

2005-0246

		Zoning Copy	Application I. D. Number
City of Portland Public Works			11/3/2005
Applicant			Application Date
55 Portland Street, Portland, ME 041	01		Riverside Transfer Station
Applicant's Mailing Address			Project Name/Description
		910 - 910 Riverside Street,	Portland, Maine
Consultant/Agent		Address of Proposed Site	
	gent Fax:	357 A001	
Applicant or Agent Daytime Telephone		Assessor's Reference: Chart-	
Proposed Development (check all that	apply): 🖌 New Building 📋	Building Addition 📋 Change Of Use	Residential Office Retail
📋 Manufacturing 📋 Warehouse/D	Distribution 📋 Parking Lot	Other	r (specify)
2,620 s.f.			IM
Proposed Building square Feet or # of	Units Acrea	ge of Site	Zoning
Check Review Required:			
✓ Site Plan	Subdivision	PAD Review	14-403 Streets Review
(major/minor)	# of lots		
Flood Hazard	Shoreland	HistoricPreservation	DEP Local Certification
FIOU Hazard			
Zoning Conditional Use (ZBA/PB)	Zoning Variance		Other
Fees Paid: Site Pla\$400.	.00 Subdivision	Engineer Review	Date 11/14/2005
		Reviewer MAN	c = 2000
Zoning Approval Status:			co. and
Approved	Approved w/Conditions	Denied V	
	See Attached		
Approval Date	Approval Expiration	Extension to	Additional Sheets
Condition Compliance			
	signature	date	DEPT. OF BUILDING INSPECTION
Performance Guarantee	Required*	Not Required	
* No building permit may be issued unti	il a performance guarantee has t	peen submitted as indicated below	NOV 1 6 2005
Performance Guarantee Accepted			0 1000
	date	amount	Developitation date
Inspection Fee Paid			RECLIVED
	date	amount	
Building Permit Issue			
	date		
Performance Guarantee Reduced			
	date	remaining balance	signature
Temporary Certificate of Occupancy	y	Conditions (See Attached))
	date		expiration date
Final Inspection			
	date	signature	
Certificate Of Occupancy			
_	date		
Performance Guarantee Released			
-	date	signature	
Defect Guarantee Submitted			
	submitted date	amount	expiration date
Defect Guarantee Released			
	date	signature	





Strengthening a Remarkable City. Building a Community for Life - mmn.partiandmaine.com

Planning and Development Department Lee D. Urban, Director

December 28, 2005

Planning Division Alexander Jaegerman, Director

Mark S. St. Germain, Project Manager St. Germain & Associates, Inc. 846 Main Street, Suite 3 Westbrook, ME. 04092

Dear Mr. St. Germain,

Re: Site Plan Review: 910 Riverside Street, Riverside Transfer Station Application 2005-0246

I confirm receipt of the Site Plan Application for the above site, and a copy of the MeDEP Approval (with Conditions) to the Minor Revision of the Solid Waste Order (#S-021417-WH-E-M).

Further to recent e-mails with Andrew Johnson of your office, we have the following comments:

1. Road Access/Circulation

- A. At the entrance to the site, there does not appear to be adequate proposed signage to ensure that vehicles turn to the left and do not proceed up the one way road for the residential transfer station area.
- B. The one way road for the residential transfer station area has a radius of 35 feet. This is not adequate to allow for fire fighting apparatus to maneuver around the corner (see point 4B below).
- C. Otherwise the project is acceptable from a traffic perspective, as the changes are an improvement to the existing traffic access/egress.

2. Stormwater Management

- A. The Review Engineer notes that the applicant has not proposed any significant modifications to the existing cover conditions or drainage patterns; the existing stormwater control plan is therefore adequate.
- B. The Review Engineer has commented that the applicant has proposed the use of a high capacity grate catch basin in the commercial off loading area. The only detail

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provided for catch basins is for the use of a beehive style grate. This style grate is not at grade with the surrounding pavement. It will cause vehicles to have to maneuver around it and will be a problem during snow removal. There is also no indication that the grate has the capacity required to handle the proposed stormwater flows. The grate should be replaced with an at-grade style grate and have the stormwater collection capacity required.

3. Fire Access and Water Supply

- A. The Fire Department has requested an additional hydrant/dry pipe to be installed on the west side of the site for coverage- to be on the same side of the road as the fire training area to allow training without blocking the road.
- B. The Fire Department has stated that they need access to all parts of the site; we would need to be satisfied that the width/turning radii of the loop through the residential transfer station allows fire access/egress to and from all parts of that area.

4. Landscape and Tree Planting

- A. The City Arborist has reviewed the proposals and considers that further planting is needed to strengthen the buffer, replace trees lost as a result of the proposals, and -fulfill requirements of the 1997 approval.
- B. The City Arborist recommends that planting of white pines should take place:
 - 1. Along the inside of the perimeter fence along the Riverside Street frontage
 - 2. Between the existing driveway (gated off) at the southwest of the site and the adjacent property (outside the fence)
 - 3. To fill in gaps the row of pines along Riverside Street on the outside of the perimeter fence
- C. Please submit a separate Landscape Plan for the Riverside Street frontage (to a depth from the roadway of at least 150 feet) that accurately shows the existing trees and proposed tree planting. Lighting and signing proposals could also be included in this plan.

5. Lighting

A. It is difficult to establish from the submitted plans whether any new lighting is proposed. Please clarify as there is a new building and external lighting may well be necessary. If external lighting is proposed, please submit lighting catalog cuts showing the type of lighting proposed and a photometric plan showing the levels of illumination, particularly at the boundary.

Sincerely,

Han France

Jean/Fraser Planner

Ce (Marge Schmuckal, Zoning Administrator)Eric Labelle - City Engineer; Tom Errico - City Traffic Engineer; Dan Goyette - City Development Review Coordinator; Jeff Tarling - City Arborist; Greg Cass - Fire Dept.



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Planning and Development Department Lee D. Urban, Director

Planning Division Alexander Jaegerman, Director

> Troy Moon City of Portland Department of Public Works 55 Portland Street Portland ME 04101

Actual

February 7, 2006

Riverside Transfer Station, 910 Riverside Street, Portland RE: CBL: 357A1; 358A1; 359A1; 360A1; 361A2; 862A1; 363A1; 364A1; 365A1; 366A1; 367A1

Dear Mr. Moon,

On February 7, 2006 the Portland Planning Authority approved updates and improvements to increase the operational efficiency of the existing Transfer Station located on Riverside Street, comprising the creation of a new residential drop-off area with separate access, a new exit onto Riverside Street for commercial traffic, a new perimeter access road and fire access lanes and a new fire training area for the City of Portland Fire Department, as shown on the approved plans with the following conditions:

- A. That the applicant will plant at least 20 white pines (or other species as recommended by the City of Portland Arborist) along the inside of the perimeter fence along Riverside Street, between the existing driveway (gated off) at the southwest of the site and the adjacent property (outside the fence) and to fill in gaps in the row of pines along Riverside Street on the outside of the perimeter fence, the exact locations to be assessed and agreed with the City of Portland Arborist. Such planting to take place before November 1, 2006.
- B. That the relocated trail will be constructed around the perimeter of the new fence, connecting to both ends of the existing trail, with the applicant undertaking any clearance required and constructing the trail with erosion control mix to provide a stable walking surface. Such works to be completed by November 1, 2006.
- C. That the details of the proposed new Universal Waste and Residential Gate House buildings, including lighting, be submitted for approval prior to issuance of a building permit for the structure(s).

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.

Please note the following provisions and requirements for all site plan approvals:

- 1. Where submission drawings are available in electronic form, the applicant shall submit any available electronic Autocad files (*.dwg), release 14 or greater, with seven (7) sets of the final plans.
- 2. A performance guarantee covering the site improvements as well as an inspection fee payment of 2.0% of the guarantee amount and 7 final sets of plans must be submitted to and approved by the Planning Division and Public Works prior to the release of the building permit. If you need to make any modifications to the approved site plan, you must submit a revised site plan for staff review and approval.
- 3. The site plan approval will be deemed to have expired unless work in the development has commenced within one (1) year of the approval or within a time period agreed upon in writing by the City and the applicant. Requests to extend approvals must be received before the expiration date.
- 4. A defect guarantee, consisting of 10% of the performance guarantee, must be posted before the performance guarantee will be released.
- 5. Prior to construction, a pre-construction meeting shall be held at the project site with the contractor, development review coordinator. Public Work's representative and owner to review the construction schedule and critical aspects of the site work. At that time, 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.
- 6. 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.)

The Development Review Coordinator must be notified five (5) working days prior to date required for final site inspection. The Development Review Coordinator can be reached at the Planning Division at 874-8632. <u>Please</u> make allowances for completion of site plan requirements determined to be incomplete or defective during the inspection. This is essential as 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 Jean Fraser, Planner, at 874-8728 or jf@portlandmaine.gov..

Sincerely,

Alexander Jaegerman

Planning Division Director

cc: Lee D. Urban, Planning and Development Department Director Alexander Jaegerman, Planning Division Director Sarah Hopkins, Development Review Services Manager Jean Fraser, Planner Jay Reynolds, Development Review Coordinator

- Marge Schmuckal, Zoning Administrator Inspections Michael Bobinsky, Public Works Director Traffic Division
 Eric Labelle, City Engineer
 Bill Scott, Public Works
 Jeff Tarling, City Arborist
 Penny Littell, Associate Corporation Counsel
 Fire Prevention
 Assessor's Office
 Approval Letter File
- cc. Andrew D. Johnston, PE, CEng, CEnv, MCIWEM Senior Civil Engineer
 St. Germain & Associates Inc.
 846 Main Street, Suite 3
 Westbrook, Maine 04092



846 Main St., Suite 3 Westbrook, Maine 04092 Telephone 207-591-7000 Facsimile 207-591-7329 info@stgermain.com

ST. GERMAIN

May 4, 2007

Ms. Jeanie Bourke City of Portland Building Inspections Division Room 315 389 Congress Street Portland, Maine 04101

RE: City of Portland, Maine. General Building Permit Application Riverside Transfer Station Portland, Maine St.Germain File No.: 2844.1

Dear Ms. Bourke:

St.Germain & Associates, Inc., on behalf of City of Portland Department of Public Works, is pleased to present the following General Building Permit application for a universal waste building at the Riverside Transfer Station. Enclosed please also find a compact disc with all of the contents of this application in pdf format.

It is our understanding that as this is a City application the fees will be waived.

Should you have any questions during the review of the enclosed materials, please contact Troy Moon at (207) 874-8467 or me at (207) 591-7000.

Sincerely, ST.GERMAIN & ASSOCIATES, INC.

Mark S. St.Germain Project Manager

enclosures

cc: Troy Moon, City of Portland Jim Hiltner, CPRC Corp.



General Building Permit Application

If you or the property owner owes real estate or personal property taxes or user charges on any property within the City, payment arrangements must be made before permits of any kind are accepted.

Location/Address of Construction: 910 Riverside St., Portland				
Total Square Footage of Proposed Structure		Square Footage of Lot		
1,276 sf +/-		11,891,880 sf +/- contiguous	incl. golf course property)	
Chart# Block# Lot# Chart# Block# Lot#	Owner:		Telephone:	
357 A 1 360 A 1 358 A 1 361 A 2	City of Por	tland	(207) 874-8300	
359 A 1 362 & 363 & 364 & 365 & 366 & 367-A-1				
Lessee/Buyer's Name (If Applicable)	Applicant na	, 1	Cost Of Work: \$	
	1		- weived	
	55 Portland St		Fee: \$ waived	
	Portland, Main			
	Masta Cartina	the second secon	C of O Fee: \$	
Current legal use (i.e. single family) <u>Universal</u>			~	
If vacant, what was the previous use?				
		ves please name	<u> </u>	
Is property part of a subdivision? <u>No</u> If yes, please name Project description:				
NG AND				
Proposed Specific use: Universal Waste Building Is property part of a subdivision? No If yes, please name				
Contractor's name, address & telephone: Who should we contact when the permit is ready: <u>Troy Moon, Solid Waste Manager</u> Mailing address: 55 Portland Street				
Who should we contact when the permit is ready: Troy Moon, Solid Waste Manager				
Mailing address: Phone: (207) 874-8467				
Portland, ME 04101				
		\sim		

Please submit all of the information outlined in the Commercial Application Checklist. Failure to do so will result in the automatic denial of your permit.

In order to be sure the City fully understands the full scope of the project, the Planning and Development Department may request additional information prior to the issuance of a permit. For further information or to download copies of this form and other applications visit the Inspections Division on-line at <u>www.portlandmaine.gov</u>, or stop by the Inspections Division office, room 315 City Hall or call 874-8703.

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

Signature of applicant:	Date: May 4, 2007
	Date: may 1 2001

1

This is not a permit; you may not commenc	e ANY work until the permit is issued.
---	--

Certificate of De	acion Application
Certificate of De	esign Application
From Designer: Bruce W Mac Lood	PE
Date: 4/22/07	
	uilding
All Contraction Product Character	eet, Portland, Me.
Address of Construction:Kiverside Stre	er, 10/1/amerina
2002 Turture - 1	
2003 International Construction project was designed to the	
	C During cour callers side scion.
Building Code & Year 2003 IBC Use Group Classification	n (s) Storage
Type of Construction I	
Will the Structure have a Fire suppression system in Accordance with h	Section 903.3.1 of the 2003 IRC NO
s the Structure mixed use? <u>Ves</u> If yes, separated or non sep	
upervisory alarm System? <u>NO</u> Geotechnical/Soils report r	
	· · · · · · · · · · · · · · · · · · ·
tructural Design Calculations	Live losd reduction
NOSubmitted for all structural members (106.1 - 106.11)	Roof Sue loads (1603.1.2, 1607.11)
Design Loads on Construction Documents (1603)	<u>42</u> Roof snow loads (1603.7.3, 1608)
niformly distributed floor live loads (7603.11, 1807)	Ground snow load, Pg (1606.2)
Floor Area Use Loads Shown	$\underline{42}$ If $P_g > 10$ psf, flat-roof show load p
	It O If Pg > 10 psf, snow exposure factor, G
	1.0 If Pz > 10 paf, saow load importance factor, r
	$l_1 \bigcirc$ Roof thermal factor, $q(1608.4)$
	M.A. Sloped roof spowload, p(16084)
ind loads (1603.1.4, 1609)	Seismic design category (1516.3)
Design option utilized (1609.1.1, 1609.6)	E.L.F. Basic selsmic force xesisting system (1617.6.2)
95 Basic wind speed (1809.3)	7.0 Response modification coefficient, R, and
1.0 - LiBuilding category and wind imponence Factor, J table 1604,5, 1609.5)	4.5 deflection amplification factor (1617.6.2)
Wind exposure category (1609.4)	Simplified Analysis procedure (1616.6, 1617.5)
100 00 18 Internal pressure coefficient (ASCE 7)	Design base shear (1017.4, 16175.5.1)
21 Ocale Component and cladding pressures (1609.1.1, 1609.6.2.2)	Flood loads (1803.1.6, 1612)
	Flood Hazard area (1612.3)
arth design data (1603.1.5, 1614-1623)	
1 be	Other loads
<u>1</u> Seismir we group ("Category") 235 / O.10 Spectral response coefficients, Dr.& D1 (1615.1)	Concentrated loads (1607.4)
	Perition loads (1607.5)
	Misc. loads (Teble 1607.6, 1607.5.1, 1607.7,
	Muse. 10163 (Table 1607.8, 1607.6, 1607.7, 1607.12, 1607.13, 1610, 1611, 2404

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New Commercial Permit Application Checklist

All of the following information is required and must be submitted. Checking off each item as you prepare your application package will ensure your package is complete and will help to expedite the permitting process.

One (1) complete Set of construction drawings must include:

Note: Construction documents for costs in excess of \$50,000.00 must be prepared by a Design Professional and bear their seal.

- Cross sections w/framing details
- Detail of any new walls or permanent partitions
- Floor plans and elevations
- $N/A \boxminus$ Window and door schedules

E Foundation plans with rebar specifications and required drainage and damp proofing (if applicable)

- N/A 🗉 Detail egress requirements and fire separations
 - Insulation R-factors of walls, ceilings, floors and U-factors of windows as per the IEEC 2003
 - Complete the Accessibility Certificate and The Certificate of Design
 - A statement of special inspections as required per the IBC 2003
- N/A E Complete electrical and plumbing layout.

N/A
Mechanical drawings for any specialized equipment such as furnaces, chimneys, gas equipment, HVAC equipment (air handling) or other types of work that may require special review.

- Reduced plans or electronic files in PDF format are required if originals are larger than 11" x 17".
- N/NG Per State Fire Marshall, all new bathrooms must be ADA compliant.

Separate permits are required for internal & external plumbing, HVAC and electrical installations.

Nine (9) copies of the minor (< 10,000 sf) or major (> 10,000 sf) site plan application is required that includes:

- A stamped boundary survey to scale showing north arrow, zoning district and setbacks to a scale of ≥ 1 " = 20' on paper ≥ 11 " x 17"
- The shape and dimension of the lot, footprint of the proposed structure and the distance from the actual property lines. Photocopies of the plat or hand draw footprints not to scale will not be accepted.
- Location and dimensions of parking areas and driveways, street spaces and building frontage
- Finish floor or sill elevation (based on mean sea level datum)
- Location and size of both existing utilities in the street and the proposed utilities serving the building
- Existing and proposed grade contours
- Silt fence (erosion control) locations

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Fire Department requirements.

The following shall be submitted on a separate sheet: SEE ATTACHMENT 5

- □ Name, address and phone number of applicant and the project architect.
- □ Proposed use of structure (NFPA and IBC classification)
- □ Square footage of proposed structure (total and per story)
- □ Existing and proposed fire protection of structure.
- □ Separate plans shall be submitted for
 - a) Suppression system
 - b) Detection System (separate permit is required)
- □ A separate Life Safety Plan must include:
 - a) Fire resistance ratings of all means of egress
 - b) Travel distance from most remote point to exit discharge
 - c) Location of any required fire extinguishers
 - d) Location of emergency lighting
 - e) Location of exit signs
 - f) NFPA 101 code summary
- \Box Elevators shall be sized to fit an 80" x 24" stretcher.

For questions on Fire Department requirements call the Fire Prevention Officer at (207) 874-8405.

Please submit all of the information outlined in this application checklist. If the application is incomplete, the application may be refused.

In order to be sure the City fully understands the full scope of the project, the Planning and Development Department may request additional information prior to the issuance of a permit. For further information or to download copies of this form and other applications visit the Inspections Division on-line at <u>www.portlandmaine.gov</u>, or stop by the Inspections Division office, room 315 City Hall or call 874-8703.

Permit Fee: \$30.00 for the first \$1000.00 construction cost, \$10.00 per additional \$1000.00 cost

This is not a Permit; you may not commence any work until the Permit is issued.

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Accessibility Building Code Certificate

Designer:

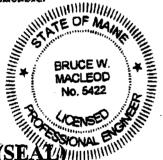
Address of Project:

Nature of Project:

Bruce W Macheod, PE Piverside Street, Portland, Me Universal Waste Transfer Building

3

The technical submissions covering the proposed construction work as described above have been designed in compliance with applicable referenced standards found in the Maine Human Rights Law and Federal Americans with Disability Act. Residential Buildings with 4 units or more must conform to the Federal Fair Housing Accessibility Standards. Please provide proof of compliance if applicable.



Signature:	Bureh Mar A. PB
Title:	President
Finn:	Muchand Structural Engineers, Pra
Address:	404 Main Street
	Gorham, Me.
Phone:	207-839-0780

For more information or to download this form and other permit applications visit the Inspections Division on our website at www.portlandmaine.gov

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Certificate of Design

Date:

From:

Bruce (N. Mac Level, PE

These plans and / or specifications covering construction work on:

The Universal Waste BUILDING at the Solid Waste Transfer Facility Portland, Me.

Have been designed and drawn up by the undersigned, a Maine registered Architect / Engineer according to the 2003 International Building Code and local amendments.

TE OF MA	
HACLEOD +	Signature: Blucal, Martine PE
TONED ANI	Title: <u>Preident</u>
(SEAL)	Firm: Moclead Structure/Engineers, PA
	Address: 404 Main St
	Gorham, Me 04038
	Phone: 207-839-0980

.

5

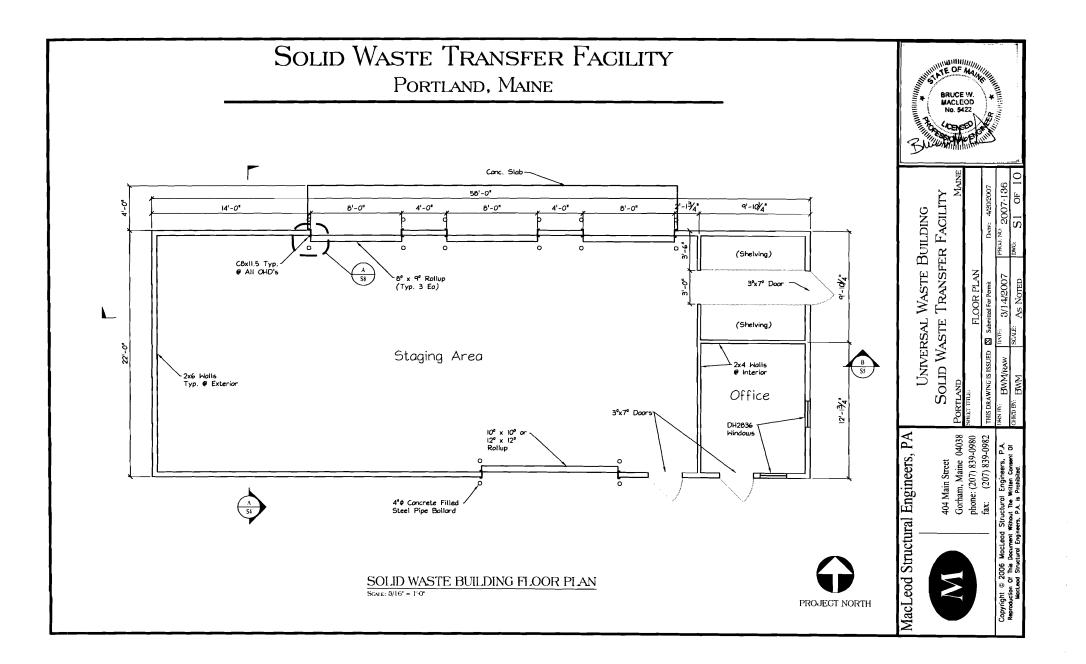
For more information or to download this form and other permit applications visit the Inspections Division on our website at www.portlandmaiue.gov

Building Inspections Division - 389 Congress Street - Portland, Mains 04101 - (207) 874-8703 - FACSIMILB (207) 874-8716 - TTY (207) 874-8936

ATTACHMENT 1

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Construction Drawings



GENERAL NOTES:

- 1. STRUCTURAL DRAWINGS SHALL BE USED IN CONJUNCTION WITH JOB SPECIFICATIONS AND ARCHITECTURAL, MECHANICAL, ELECTRICAL, PLUMBING, AND SITE DRAWINGS. CONSULT THESE DRAWINGS FOR LOCATIONS AND DIMENSIONS OF OPENINGS, CHASES, INSERTS, REGLETS, SLEEVES, DEPRESSIONS, AND OTHER DETAILS NOT SHOWN ON THE STRUCTURAL DRAWINGS.
- 2. ALL DIMENSIONS AND CONDITIONS MUST BE VERIFIED IN THE FIELD. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER BEFORE PROCEEDING WITH THE AFFECTED PART OF THE WORK.
- 3. THE STRUCTURE IS DESIGNED TO BE SELF SUPPORTING AND STABLE AFTER THE BUILDING IS COMPLETE. IT IS THE CONTRACTOR'S SOLE RESPONSIBILITY TO DETERMINE ERECTION PROCEDURES AND SEQUENCE TO ENSURE SAFETY OF THE STRUCTURE AND PERSONNEL DURING ERECTION. THIS INCLUDES THE ADDITION OF THE NECESSARY SHORING, SHEETING, TEMPORARY BRACING, GUYS OR TIEDOWNS. SUCH MATERIAL SHALL REMAIN THE PROPERTY OF THE CONTRACTOR AFTER COMPLETION OF THE PROJECT.
- 4. ALL APPLICABLE FEDERAL, STATE, AND MUNICIPAL REGULATIONS SHALL BE FOLLOWED, INCLUDING THE FEDERAL DEPARTMENT OF LABOR OCCUPATIONAL SAFETY AND HEALTH ACT.
- 5. IT IS THE OWNER'S SOLE RESPONSIBILITY TO EMPLOY ONE OR MORE SPECIAL INSPECTORS (IF REQUIRED) TO PROVIDE INSPECTIONS IN COMPLIANCE WITH ALL APPLICABLE REQUIREMENTS OF IBC 2003.

FOUNDATION NOTES:

- FOUNDATION DESIGNED BASED ON RECOMMENDATIONS BY THE GEOTECHNICAL ENGINEER. REFER TO THEIR REPORT FOR ADDITIONAL INFORMATION. DUE TO THE PRESENCE OF FILL SOILS BENEATH THE FOUNDATION, LONG TERM DIFFERENTIAL SETTLEMENT OF THE FOUNDATION MAY OCCUR, REQUIRING PERIODIC MAINTENANCE/REPLACEMENT OF THE CONCRETE SLAB.
- 2. DESIGN OF EXTERIOR FOUNDATIONS IS BASED ON A FROST DEPTH OF 4'-6" BELOW FINISHED GRADE.
- 3. NO HORIZONTAL JOINT WILL BE PERMITTED IN THE WALLS UNLESS NOTED OTHERWISE.
- 4. FOUNDATION CONTRACTOR SHALL SET COLUMN ANCHOR RODS AND LEVELING PLATES, INCLUDING GROUTING, AS PER THE STRUCTURAL STEEL CONTRACTOR'S DRAWINGS.

- 5. EXCAVATING AND BACK FILLING AT NEW FOUNDATION WALLS SHALL BE DONE SUCH THAT SYMMETRICAL LOADING SHALL BE MAINTAINED ON BOTH SIDES. WHERE DESIGN CONDITIONS REQUIRE DIFFERENT BACK FILL HEIGHTS, WALLS SHALL BE FIRMLY SHORED IN POSITION, AND SHORES SHALL REMAIN UNTIL FLOORS ARE PLACED AND PROPERLY SET, TO PROVIDE FULL SUPPORT.
- 6. CONTRACTOR SHALL BE RESPONSIBLE FOR DESIGN, INSTALLATION, AND FINAL CLEARANCE OF ANY NEEDLING, SHORING, OR BRACING OF EXISTING STRUCTURES.
- 7. VAPOR BARRIER BENEATH SLAB SHALL BE "STEGO WRAP" OR APPROVED EQUAL. POLYETHYLENE <u>"IS NOT"</u> AN ALTERNATE PRODUCT.

STRUCTURAL DESIGN CRITERIA:

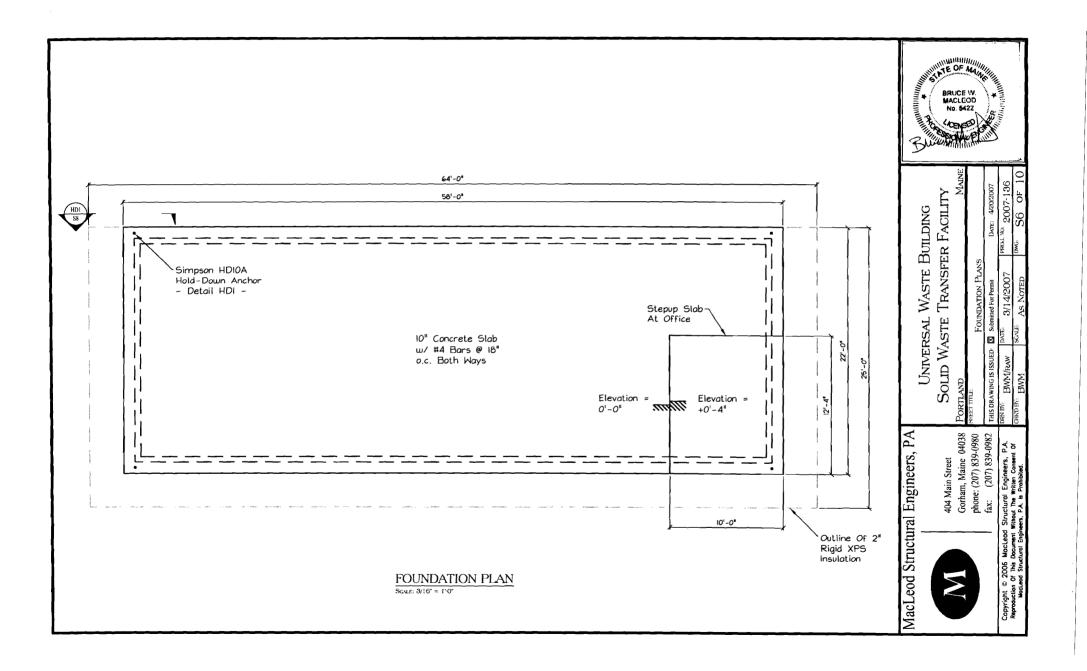
1. E	BUILDING CODE: IBC 2003 I	NTER	NATIONAL BUIL	DING CC	DE			
2. C	DESIGN WIND LOADS - MAIN M DESIGN WIND SPEED BUILDING USE IMPORTANCE BUILDING EXPOSURE CATEGO	FACT		NG SYST	EM: = 95 = 1.0 = C	MPH		
3. C	DESIGN WIND LOADS - COMPO EXPOSURE CATEGORY = C	NENT	S AND CLADDI	NG:				
4. 5	SNOW: GROUND SNOW LOAD IMPORTANCE FACTOR FLAT ROOF SNOW LC	2, 1			= 60 = 1.0 = 42			▼
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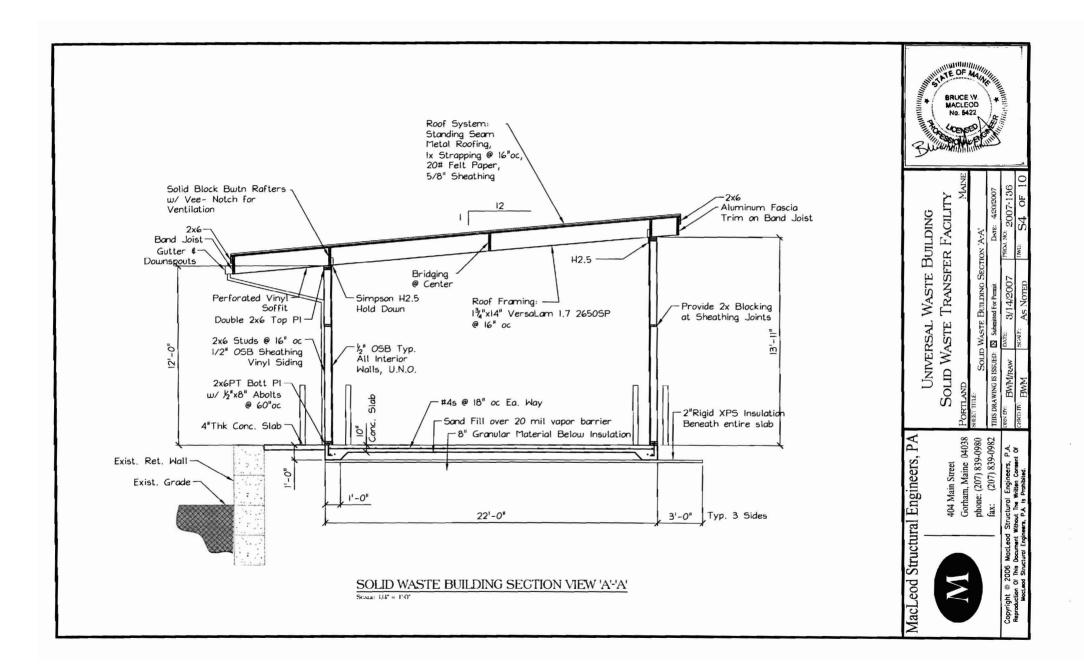
SEISMIC RESISTING SYSTEM = LIGHT FRAMED WALLS WITH SHEAR PANELS

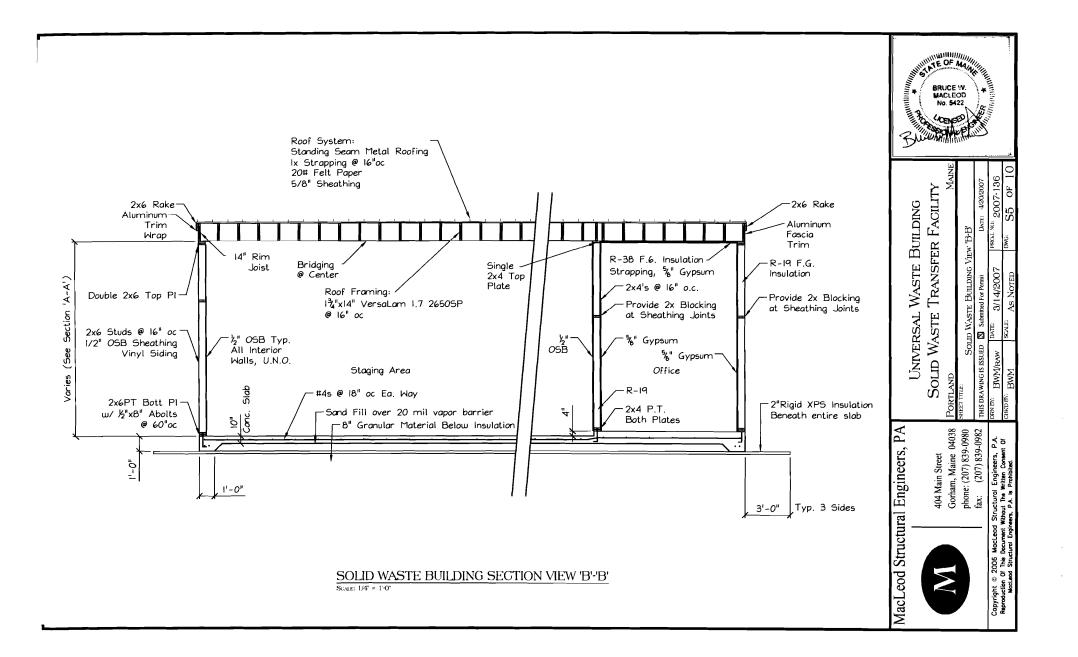
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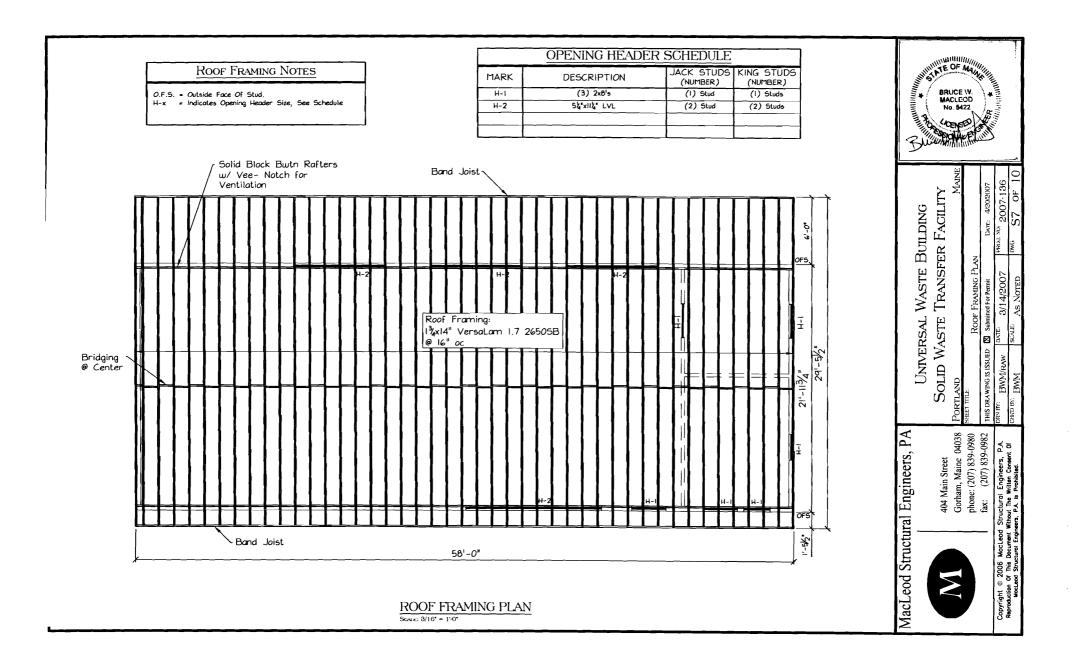
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	Universal Waste Building Solid Waste Transfer Facility	R FACILITY	MAINE		DATE: 4/20/2007	PROJ. NO: 2007-136	DWG S9 OF 10
		ASTE TRANSFE	Portland	GENERAL NOTES	fax: (207) 839-0982 THIS DRAWING IS ISSUED: 🛛 Submitted For Permit	DATE: 3/14/2007	SCME: AS NOTED
		Solud W		SHEET TITLE:		3	CHIND BY: BWM
MacLeod Structural Engineers, PA		404 Main Street	Gorham, Maine 04038	phone: (207) 839-0980	l fax: (207) 839-0982		reproduction of time upcurrent without the written uptaent of MotLeod Structural Engineers, P.A. Is Prahibited.
MacLeo						Copyright (Moclu

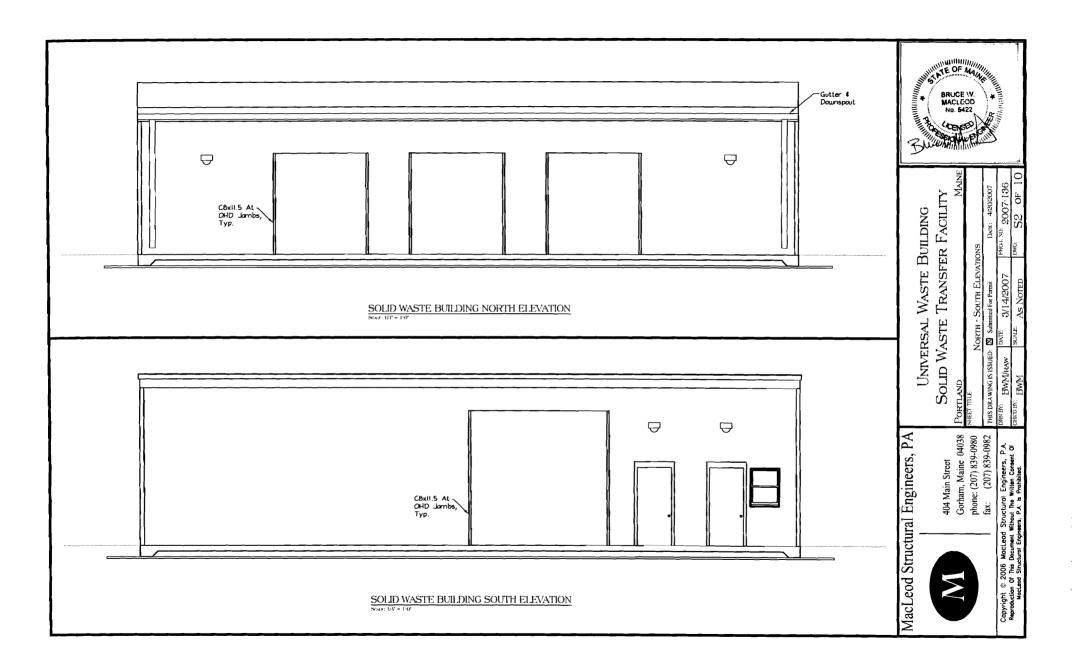
 CONCRETE NOTES: 1. ALL CONCRETE WORK SHALL CONFORM TO ACI-318. 2. ALL CONCRETE EXCEPT INTERIOR AND EXTERIOR SLABS ON GROUND SHALL BE 3000 PSI AT 28 DAYS AND A MAXIMUM SLUMP OF 4". ALL INTERIOR AND EXTERIOR SLABS ON GROUND SHALL BE 4000 PSI AT 28 DAYS AND A MAXIMUM SLUMP OF 4". MAXIMUM SIZE AGGREGATE SHALL BE ¼" (WALL/FOOTINGS) AND 1½" (SLABS ON GROUND). 3. CONCRETE TO REMAIN EXPOSED TO MEATHER SHALL BE AIR ENTRAINED. NO AIR ENTRAINENT IN INTERIOR CONCRETE SLABS. 4. CONCRETE SHALL NOT BE PLACED IN WATER OR ON FROZEN GROUND. 5. REINFORCING BARS SHALL CONFORM TO ASTM AGIS GRADE 60. DEFORMED BARS SHALL BE DETAILED AND FABRICATED IN ACCORDANCE TO ACI-315 LATEST EDITION, AND PLACED IN ACCORDANCE TO ACI-315 LATEST EDITION, AND PLACED IN ACCORDANCE WITH ACI-318. 6. SPLICES OF REINFORCING BARS SHALL BE IN ACCORDANCE WITH ACI-318. 7. ANCHOR RODS SHALL CONFORM TO ASTM FI554-36. 8. HOOKS NOT DIMENSIONED SHALL BE ACI STANDARD HOOKS. 9. CONCRETE COVER OVER REINFORCEMENT SHALL BE AS FOLLOWS: CONCRETE ENFOSED TO EARTH OR WEATHER = 3" CONCRETE NOT EXPOSED TO EARTH OR WEATHER = 3" CO	 PROVIDE GALVANIZED METAL TIES EQUAL TO SIMPSON H2.5 HURRICANE TIES BETWEEN ROOF RAFTERS OR TRUSSES AND SUPPORTING WALL MEMBERS, UNLESS SHOWN OTHERNISE. PROVIDE GALVANIZED METAL CONNECTORS EQUAL TO SIMPSON TC26 TRUSS CONNECTOR BETWEEN ALL ROOF SCISSOR TRUSSES AND SUPPORTING WALL MEMBERS, UNLESS SHOWN OTHERNISE. PROVIDE PRESSURE TREATED LUMBER FOR ALL LUMBER IN CONTACT WITH MASONRY OR CONCRETE. ROOF SHEATHING: 5/8' APA RATED SHEATHING, SPAN RATING 32/6 (TRUSSES), 24/12 (JOISTS). INSTALL SHEETS WITH FACE GRAIN DIRECTION PERPENDICULAR TO SUPPORTING MEMBERS. ALL NAILS, SPIKES, BOLTS ETC. FASTENING MEMBERS TO PRESSURE TREATED LUMBER SHALL BE EITHER STAINLESS STEEL OR HEAVY GALVANIZED. 	Dd Structural Engineers, PA 404 Main Street Gorham, Maine 04038 PPORTLAND Bhone: (207) 833-0980 fax: (207) 833-0982 INE DRAND GENERAL WASTE BUILDING SOLID WASTE TRANSFER FAGILITT Gorham, Maine 04038 PPORTLAND GENERAL NOTES THIS REVEND GENERAL NOTES THIS REVEND GENERAL NOTES	Copyright © 2006 MocLead Structural Engineers, P.A. ^{DAR BY} My/(RAW ^{DAVE} 3/14/2007 ^{PR0.4, K0,} 2007-136 "2011,10,111,111,111,111,111,111,111,111,
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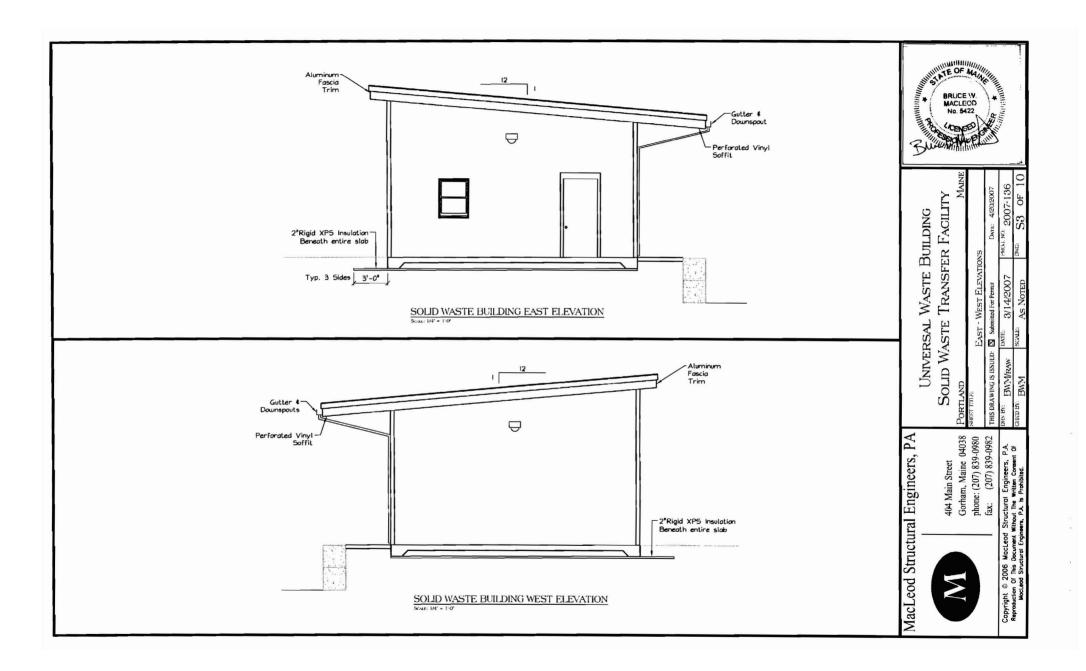


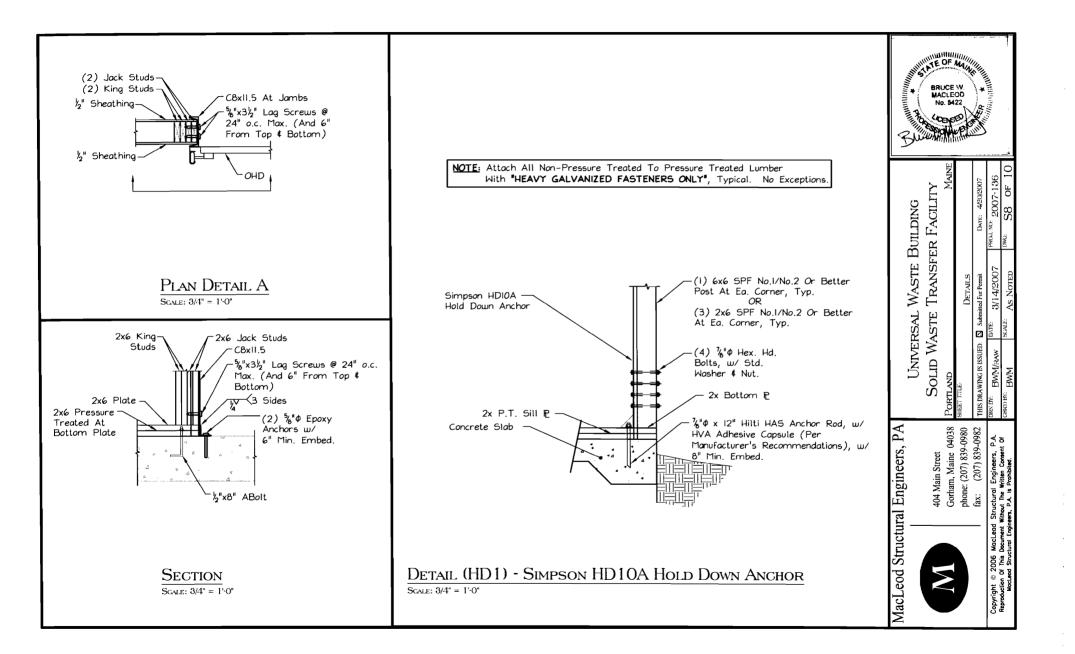












ATTACHMENT 2

-

Statement of Special Inspections

Project: **Riverside Transfer Station**

Location: Riverside St., Portland, Maine

Owner: City of Portland

Design Professional in Responsible Charge: Bruce W. MacLeod, P.E. MacLeod Structural Engineers

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:

> X Structural X Architectural

Mechanical/Electrical/Plumbing 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: Months

Prepared by:

(type or print name)

anature

Owner's Authorization:

or per attached schedule.



Building Official's Acceptance:

Signature

5/4/0 Date

Signature

Date

Schedule of Inspection and Testing Agencies

This Statement of Special Inspections / Quality Assurance Plan includes the following building systems:

7

	Soils and Foundations		Spray Fire Resistant Material
\boxtimes	Cast-in-Place Concrete	\mathbf{X}	Wood Construction
	Precast Concrete		Exterior Insulation and Finish System
	Masonry		Mechanical & Electrical Systems
	Structural Steel	\mathbf{X}	Architectural Systems
	Cold-Formed Steel Framing		Special Cases

Special Inspection Agencies	Firm	Address, Telephone, e-mail
1. Special Inspection Coordinator Brace W. NacLevel	Mocheod Structural Engineers, PA (MSE)	404 Main St. Gorhan Mar 839-0130
2. Inspector Grand Copplicate Summit Geotechimical Englocats	Summit	640 Main 64 Lewiston, Mis Mis-6007
3. Inspector		
4. Testing Agency Summit		
5. Testing Agency		
6. Other		

Note: The inspectors and testing agencies shall be engaged by the Owner or the Owner's Agent, and not by the Contractor or Subcontractor whose work is to be inspected or tested. Any conflict of interest must be disclosed to the Building Official, prior to commencing work.

Quality Assurance for Seismic Resistance

Seismic Design Category

Quality Assurance Plan Required (Y/N) N/A

Description of seismic force resisting system and designated seismic systems:

Page

of 7

Light Franced walls w/ Sheer walls.

Quality Assurance for Wind Requirements

Basic Wind Speed (3 second gust)95Wind Exposure CategoryCQuality Assurance Plan Required (Y/N)N/R

Description of wind force resisting system and designated wind resisting components:

wood Roof diaphiran, wood stear walls

Statement of Responsibility

Each contractor responsible for the construction or fabrication of a system or component designated above must submit a Statement of Responsibility.

Qualifications of Inspectors and Testing Technicians

The qualifications of all personnel performing Special Inspection and testing activities are subject to the approval of the Building Official. The credentials of all Inspectors and testing technicians shall be provided if requested.

Key for Minimum Qualifications of Inspection Agents:

When the Registered Design Professional in Responsible Charge deems it appropriate that the individual performing a stipulated test or inspection have a specific certification or license as indicated below, such designation shall appear below the *Agency Number* on the Schedule.

PE/SE	Structural Engineer – a licensed SE or PE specializing in the design of building structures
PE/GE	Geotechnical Engineer – a licensed PE specializing in soil mechanics and foundations
EIT	Engineer-In-Training – a graduate engineer who has passed the Fundamentals of
	Engineering examination

American Concrete Institute (ACI) Certification

ACI-CFTT	Concrete Field Testing Technician – Grade 1
ACI-CCI	Concrete Construction Inspector
ACI-LTT	Laboratory Testing Technician – Grade 1&2
ACI-STT	Strength Testing Technician

American Welding Society (AWS) Certification

AWS-CWI Certified Welding Inspector AWS/AISC-SSI Certified Structural Steel Inspector

American Society of Non-Destructive Testing (ASNT) Certification

ASNT Non-Destructive Testing Technician – Level II or III.

International Code Council (ICC) Certification

ICC-SMSI	Structural Masonry Special Inspector
ICC-SWSI	Structural Steel and Welding Special Inspector
ICC-SFSI	Spray-Applied Fireproofing Special Inspector
ICC-PCSI	Prestressed Concrete Special Inspector
ICC-RCSI	Reinforced Concrete Special Inspector

National Institute for Certification in Engineering Technologies (NICET)

NICET-CT	Concrete Technician – Levels I, II, III & IV
NICET-ST	Soils Technician - Levels I, II, III & IV
NICET-GET	Geotechnical Engineering Technician - Levels I, II, III & IV

Exterior Design Institute (EDI) Certification

EDI-EIFS EIFS Third Party Inspector

Other

Soils and Foundations

Page 5 of 7

Item	Agency # (Qualif.)	Scope
1. Shallow Foundations	PE/GE GE	Inspect soils below footings for adequate bearing capacity and consistency with geotechnical report. Inspect removal of unsuitable material and preparation of subgrade prior to placement of controlled fill
2. Controlled Structural Fill	PE/GE GE	Perform sieve tests (ASTM D422 & D1140) and modified Proctor tests (ASTM D1557) of each source of fill material. Inspect placement, lift thickness and compaction of controlled fill. Test density of each lift of fill by nuclear methods (ASTM D2922) Verify extent and slope of fill placement.
3. Deep Foundations	PE/GE	Inspect and log pile driving operations. Record pile driving resistance and verify compliance with driving criteria. Inspect piles for damage from driving and plumbness. Verify pile size, length and accessories. Inspect installation of drilled pier foundations. Verify pier diameter, bell diameter, lengths, embedment into bedrock and suitability of end bearing strata.
 Load Testing 4. Load Testing 4. Other: 		

Cast-in-Place Concrete

Cast-in-Place Concrete		Page 6 of 7
Item	Agency # (Qualif.)	Scope
1. Mix Design	ACI-CCI ICC-RCSI	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.
2. Material Certification		
3. Reinforcement Installation	ACI-CCI ICC-RCSI	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
4. Post-Tensioning Operations	ICC-PCSI	Inspect placement, stressing, grouting and protection of post- tensioning tendons. Verify that tendons are correctly positioned, supported, tied and wrapped. Record tendon elongations.
5. Welding of Reinforcing	AWS-CWI	Visually inspect all reinforcing steel welds. Verify weldability of reinforcing steel. Inspect preheating of steel when required.
6. Anchor Rods		Inspect size, positioning and embedment of anchor rods. Inspect concrete placement and consolidation around anchors.
7. Concrete Placement	ACI-CCI ICC-RCSI	Inspect placement of concrete. Verify that concrete conveyance and depositing avoids segregation or contamination. Verify that concrete is properly consolidated.
8. Sampling and Testing of Concrete	ACI-CFTT ACI-STT	Test concrete compressive strength (ASTM C31 & C39), slump (ASTM C143), air-content (ASTM C231 or C173) and temperature (ASTM C1064).
9. Curing and Protection	ACI-CCI ICC-RCSI	Inspect curing, cold weather protection and hot weather protection procedures.
10. Other:		

Wood Construction

Item Agency #		Scope	
item	(Qualif.)	Scope	
 Fabricator Certification/ Quality Control Procedures Fabricator Exempt 		Inspect shop fabrication and quality control procedures for wood truss plant.	
nia			
2. Material Grading			
3. Connections			
M>E			
4. Framing and Details			
N SE			
5. Diaphragms and Shearwalls $M \leq \in$		Inspect size, configuration, blocking and fastening of shearwalls and diaphragms. Verify panel grade and thickness.	
6. Prefabricated Wood Trusses N/A		Inspect the fabrication of wood trusses.	
7. Permanent Truss Bracing			
8. Other:			

Page (7) of ?

ATTACHMENT 3

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Site Plan Application

846 Main St., Suite 3 Westbrook, Maine 04092 Telephone 207-591-7000 Facsimile 207-591-7329 info@stgermain.com

November 3, 2005

Ms. Sarah Hopkins City of Portland Planning Department City Hall, 389 Congress Street Portland, Maine 04101

RE: City of Portland, Maine. Minor Site Plan Application Riverside Transfer Station Portland, Maine



Dear Ms. Hopkins:

St.Germain & Associates, Inc., on behalf of City of Portland Department of Public Works, is pleased to present the following Minor Site Plan application for improvements to the existing Riverside Transfer Station.

As discussed in our recent meeting, the attached plans and narrative describe updates and improvements proposed to increase the operational efficiency of the facility. An application for a minor revision to the State of Maine Department of Environmental Protection (MEDEP) Solid Waste Permit for the facility was submitted in September 2005. A draft permit was issued for review last week and a final permit is expected within two weeks. It is the intent of the new facility operator, Commercial Paving and Recycling Company, to begin initiating the proposed site layout modifications as soon as the approval is granted by the Portland Planning Authority, preferably this fall. It is our understanding that as this is a City application the fees will be waived.

Should you have any questions during the review of the enclosed materials, please contact me at (207) 591-7000.

Sincerely, ST.GERMAIN& ASSOCIATES, INC.

Mark S. St.Germain Project Manager

enclosures:

cc: Troy Moon, City of Portland Jim Hiltner, CPRC

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Application for Minor Site Plan Review Approval Improvements to the Riverside Solid Waste Transfer Facility

Project Narrative

Site Description

. . . .

The City of Portland Riverside Transfer Facility is located on Parcel ID Number 357 A001001, at 910 Riverside Street in the city of Portland. The parcel owned by the city comprises a total area of 273 acres (including the adjacent municipal golf course). The solid waste transfer facility is located within the Industrial Moderate Impact (IM) zone. The site currently operates as the main solid waste transfer facility in the city, accepting residential and commercial quantities of solid waste from Portland and the surrounding area.

Site Plan Modifications

Several minor modifications are proposed to the current facility layout. These are aimed at improving the safety and efficiency of access and egress traffic movements, and operations activities within the site. The changes to the facility layout are described below.

Facility Layout and Traffic Circulation

A new, separate residential drop off and loading area is proposed at the southern side of the facility, adjacent to the main entrance from Riverside Street. This will allow residential traffic to be separated from commercial traffic at the entrance to the facility increasing the safety and efficiency of traffic flow through the site. The residential traffic will pass a new attendants hut at the entrance to the drop off area, where incoming materials can be checked, and directions given as necessary. The new residential drop off area will comprise a universal waste, battery and pressurized container off-loading area and a raised ramp beside a series of segregated materials bins. The bins are to be set back from the access road on the north side to allow unloading vehicles space to maneuver. The access road continues past the bins and loading trailers, to a materials loading area, where residential quantities of loam, mulch etc. can be loaded. Several side-load containers are located at the east end of the raised ramp for collection of recyclable materials. The residential access road then proceeds down a ramp to the residential traffic exit, located at the current main facility entrance on Riverside Street.

Commercial traffic will continue to enter the site at the existing location and proceed to the scale for weighing. The entrance road has been modified to allow sufficient turning radius for trucks to enter the scale directly, rather than passing and backing onto the scale as is the current practice. A commercial traffic loop road then extends around the perimeter of the facility allowing commercial traffic to pass and/or offload at one of several commercial materials acceptance areas between the residential drop off area and the main processing and stockpile area of the facility. Commercial traffic will then proceed in a counter clockwise manner around the perimeter of the facility towards the exit. Materials loading areas are provided off the main loop road to allow loading of processed and export materials while allowing through traffic to pass. Commercial

Site Plan Modifications City of Portland Riverside Street Transfer Facility St.Germain File No. 2766.1 November 3, 2005 Page 2

traffic will leave the facility via the scale and a new exit onto Riverside Street at the southwest corner of the facility. The new exit offers improved sight distances in both directions and greatly simplifies the turning movement required to exit the site. The provision of a second exit also removes current conflicts between entering and exiting traffic at the facility.

The northern portion of the facility will house the main materials processing and stockpile areas. Unloaded materials will be segregated, and either processed and stockpiled for future transfer, or transferred directly to loading areas for onward transport and disposal. The internal processing and stockpile area is designed to allow efficient transfer of materials while minimizing conflicts between site operational machinery and external traffic. The stockpiles are configured to create a maximum individual storage area of 15,000 square feet, with minimum 25 foot wide fire access aisles between, as stipulated in the City of Portland correspondence with Maine Department of Environmental Protection dated October 4, 2001.

The facility layout improvements allow unloading, transfer, storage and loading of materials at the site as currently occurs, while minimizing conflicts between residential, commercial and internal site equipment traffic. This will greatly improve safety conditions and operational efficiency at the facility.

One new building, a gatehouse, is proposed at the entrance to the residential drop off area. A second building, for universal waste handling may also be provided at the site, pending State funding.

Building Coverage

There are currently two buildings on site, the vehicle maintenance shed and the office trailer. A new, larger Universal Waste building is proposed to the north of the existing scale and the rear of the existing vehicle maintenance building. A small gatehouse is proposed at the entrance of the residential drop-off area to provide shelter for attending facility staff. Although a stamped boundary survey is not available for the entire parcel, it is evident that the newly proposed buildings will meet the setback requirements of the zoning district. The current City of Portland Land Use Regulations require a minimum side yard setback of one foot for each one foot of building height, up to twenty five feet and a minimum front yard setback of one foot for each one foot of building height, in the IM Zone. The proposed new gatehouse is over 150 feet from the front property line and over 170 feet from the side line. The proposed new Universal Waste building is over 200 feet from the front and side lot lines.

Fire Fighting

Several of the proposed improvements will improve the fire fighting capabilities on the site. The provision of a clear, paved perimeter access road will greatly improve access to the stockpile areas to the rear of the property. Fire access lanes are also provided between the stockpile areas, which have been reduced in size to a maximum area of

Site Plan Modifications City of Portland Riverside Street Transfer Facility St.Germain File No. 2766.1 November 3, 2005 Page 3

15,000 square feet. At a site meeting held on September 2, 2005, The City of Portland Fire Chief expressed concern at the current lack of access to water at the rear of the property. A new fire hydrant will be provided in the wall to the north of the residential drop off area to facilitate access to water for fire fighting purposes. The hydrant will connect to a permanent pipe located under the proposed residential drop off area. The pipe will be kept dry under normal circumstance and will have a second hose fitting at the southern end, adjacent to the existing fire hydrant on the east side of the current facility entrance drive. Should the fire department need water at the rear of the site a hose connection will be made between the existing hydrant and the southern end of the new pipe, allowing water to be drawn from the northern end of the pipe through the hose connection.

A second dry hydrant will be provided at the rear of the site. This outlet will connect to the existing sedimentation pond at the northeast side of the facility, allowing water from the pond to be drawn for fire fighting, if and when necessary.

The provision of additional hydrants will allow improved response times and more efficient fire fighting at the facility.

A new fire training area will be provided on the site for the use of the City of Portland Fire Department. A stabilized pad will be constructed, and a disused cape style residential home will be located on the pad and used for fire training exercises. The exercises will generally comprise filling the structure with smoke and undertaking fire training drills. The fire training area will be accessed via a side driveway off the new commercial exit from the main facility.

The new fire training area and the addition of the new commercial traffic exit will require modifications to the perimeter fencing of the site. This will also enable several sections of damaged fencing to be replaced on the western side of the facility. The updated fence locations are shown on the Site Plan. Fencing materials will be the same as existing, with a six-foot high chain link fence topped with razor wire.

Utilities

The existing utilities connections to the site will be maintained and are considered sufficient for the continued operation of the facility. There is not expected to be any increase in water demand or sewer flow as a result of the proposed improvements.

Storm Water

An extensive storm water analysis was conducted for the site by Sebago Technics in 1994. The proposed modifications to the layout of the facility will not result in a significant change to either the cover conditions on the site, or the existing drainage patterns. It is therefore intended that the major features of the current storm water management system will be retained.

Site Plan Modifications City of Portland Riverside Street Transfer Facility St.Germain File No. 2766.1 November 3, 2005 Page 4

The proposed grading of the facility will direct runoff from the center of the site towards the perimeter in a similar manner to the current configuration. Many of the existing swales, culverts and outlets at the perimeter of the site will remain unaffected by the proposed changes. The existing sedimentation basin at the east side of the site will also remain, although routine maintenance activities, including the removal of accumulated sediments may be required to ensure that the structure continues to function in accordance with the original design parameters.

Two of the existing storm water collection swales will be re-located in order to accommodate the new facility layout. These structures will retain similar contributing drainage areas and are sized to match the existing designs.

It is evident that some of the existing storm water management structures are in need of routine maintenance. An updated storm water system maintenance schedule is included with this submission. Storm water management provisions will also be reflected in an updated Storm Water Pollution Prevention Plan that will be produced for the new State of Maine Multi Sector General Permit for Stormwater Discharges Associated with Industrial Activity.

Construction Plan and Schedule

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Construction of the proposed improvements to the facility will commence upon receipt of State and local permit approvals. It is expected that the new residential transfer area and commercial egress from the site will be constructed first, followed by the new loop road and stockpile areas. The improvement work will be phased to ensure that the facility continues to operate affectively throughout the construction period.

List of Permit Federal, State and local Permitting Requirements

The proposed minor modifications to the facility will require a Minor Modification to the MEDEP Solid Waste Permit. An application for this permit was filed with MEDEP in September 2005. A draft approval has been issued and the final permit is expected within two weeks.

The facility is currently covered by the USEPA Multi Sector General Permit for Stormwater Discharge Associated with Industrial Activity (MSGP). Coverage under this permit expires on October 31, 2005 at which time the State of Maine Department of Environmental Management will assume control of the MSGP program. A Notice of Intent to comply with the new 2005 State of Maine MSGP will be submitted to obtain coverage for the facility under the new State of Maine program.

Upon approval of the Site Plan by the City of Portland Planning Authority, building permits will be required for any new structures to be constructed on the property.



City of Portland Site Plan Application

If you or the property owner owes real estate taxes, personal property taxes or user charges on any property within the City, payment arrangements must be made before permit applications can be received by the Inspections Division.

Address of Proposed Development: 910 Riverside St., Portland		Zone: IM	
Total Square Footage of Proposed Structure:		Square Footage of Lot:	
		11,891,880 sf +/- contiguous (in	cl. golf course property)
2,620 sf +/-			
Tax Assessor's Chart, Block & Lot:	Property ow	ner's mailing address:	Telephone #:
Chart# Block# Lot# 357 A 1 360 A 1	City of Portlan	d	(207) 874-8300
358 A 1 361 A 2	389 Congress		
359 A 1 362 & 363 & 364 & 365 & 366 & 367-A-1	Portland, Main	e 04101	
Consultant/Agent, mailing address, phone # &		name, mailing address,	Project name:
contact person: Mark St.Germain	-	/Fax#/Pager#:	Diverside Transfer Station
St.Germain & Associates, Inc.	City of Portlan		Riverside Transfer Station
846 Main St., Suite 3	55 Portland St		
Westbrook, ME 04092 (207) 591-7000	Portland, Main	ie u4101 	
Fee For Service Deposit (all applications)	<u>n la (\$20</u>	00.00) المعانية معا	
Proposed Development (check all that apply) ✓ New BuildingBuilding AdditionChange of UseResidentialOfficeRetailManufacturingWarehouse/DistributionParking lot		able	
Minor Site Plan Review			
✓ Less than 10,000 sq. ft. (\$400.00)			
After-the-fact Review (\$1,000.00 + applicable appl	ication fee)		
Plan Amendments			
Planning Staff Review (\$250.00)			
Planning Board Review (\$500.00)		\sim Please see ne	xt page ~

Who billing will be sent to: (Company, Contact Person, Address, Phone #)

Submittals shall include (9) separate folded packets of the following:

- a. copy of application
- b. cover letter stating the nature of the project
- c. site plan containing the information found in the attached sample plans checklist
- d. 1 set of 11 x 17 plans

Amendment to Plans: Amendment applications should include 6 separate packets of the above (a, b, & c) ALL PLANS MUST BE FOLDED NEATLY AND IN PACKET FORM

Section 14-522 of the Zoning Ordinance outlines the process which is available on our web site: portlandmaine.gov

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

Signature of applicant:	Date: 11/7/05
Troy Moon 2 8467	

This application is for site review ONLY; a building Permit application and associated fees will be required prior to construction.



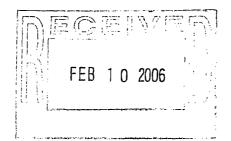


Strengthening a Remarkable City, Building a Community for Life * www.portlandmaine.gov

Hanning and Development Department .ee D. Urban, Director

Hanning Division Nexander Jaegerman, Director

Troy Moon



February 7, 2006

City of Portland Department of Public Works 55 Portland Street Portland ME 04101

RE: Riverside Transfer Station, 910 Riverside Street, Portland

CBL: 357A1; 358A1; 359A1; 360A1; 361A2; 362A1; 363A1; 364A1; 365A1; 366A1; 367A1

Dear Mr. Moon,

On February 7, 2006 the Portland Planning Authority approved updates and improvements to increase the operational efficiency of the existing Transfer Station located on Riverside Street, comprising the creation of a new residential drop-off area with separate access, a new exit onto Riverside Street for commercial traffic, a new perimeter access road and fire access lanes and a new fire training area for the City of Portland Fire Department, as shown on the approved plans with the following conditions:

- A. That the applicant will plant at least 20 white pines (or other species as recommended by the City of Portland Arborist) along the inside of the perimeter fence along Riverside Street, between the existing driveway (gated off) at the southwest of the site and the adjacent property (outside the fence) and to fill in gaps in the row of pines along Riverside Street on the outside of the perimeter fence, the exact locations to be assessed and agreed with the City of Portland Arborist. Such planting to take place before November 1, 2006.
- B. That the relocated trail will be constructed around the perimeter of the new fence, connecting to both ends of the existing trail, with the applicant undertaking any clearance required and constructing the trail with erosion control mix to provide a stable walking surface. Such works to be completed by November 1, 2006.
- C. That the details of the proposed new Universal Waste and Residential Gate House buildings, including lighting, be submitted for approval prior to issuance of a building permit for the structure(s).

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.

Please note the following provisions and requirements for all site plan approvals:

389 Congress Street • Portland, Maine 04101 • Ph (207) 874-8721 or 874-8719 • Fx 756-8258 • TTY 874-8936

- 1. Where submission drawings are available in electronic form, the applicant shall submit any available electronic Autocad files (*.dwg), release 14 or greater, with seven (7) sets of the final plans.
- 2. A performance guarantee covering the site improvements as well as an inspection fee payment of 2.0% of the guarantee amount and 7 final sets of plans must be submitted to and approved by the Planning Division and Public Works prior to the release of the building permit. If you need to make any modifications to the approved site plan, you must submit a revised site plan for staff review and approval.
- 3. The site plan approval will be deemed to have expired unless work in the development has commenced within one (1) year of the approval or within a time period agreed upon in writing by the City and the applicant. Requests to extend approvals must be received before the expiration date.
- 4. A defect guarantee, consisting of 10% of the performance guarantee, must be posted before the performance guarantee will be released.
- 5. Prior to construction, a pre-construction meeting shall be held at the project site with the contractor, development review coordinator, Public Work's representative and owner to review the construction schedule and critical aspects of the site work. At that time, 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.
- 6. 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.)

The Development Review Coordinator must be notified five (5) working days prior to date required for final site inspection. The Development Review Coordinator can be reached at the Planning Division at 874-8632. <u>Please</u> make allowances for completion of site plan requirements determined to be incomplete or defective during the inspection. This is essential as 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 Jean Fraser, Planner, at 874-8728 or jf@portlandmaine.gov.

Sincerely,

Alexander Jaegerman

Planning Division Director

cc: Lee D. Urban, Planning and Development Department Director Alexander Jaegerman, Planning Division Director Sarah Hopkins, Development Review Services Manager Jean Fraser, Planner Jay Reynolds, Development Review Coordinator Marge Schmuckal, Zoning Administrator Inspections Michael Bobinsky, Public Works Director Traffic Division Eric Labelle, City Engineer Bill Scott, Public Works Jeff Tarling, City Arborist Penny Littell, Associate Corporation Counsel Fire Prevention Assessor's Office Approval Letter File

cc. Andrew D. Johnston, PE, CEng, CEnv, MCIWEM Senior Civil Engineer
St. Germain & Associates Inc.
846 Main Street, Suite 3
Westbrook, Maine 04092

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ATTACHMENT 4

n 1

Geotechnical Report



ENVIRONMENTAL CONSULTING • GEOTECHNICAL ENGINEERING • CONSTRUCTION MATERIALS TESTING

Geotechnical Report

Proposed Building Riverside Transfer Station Portland, Maine

Prepared for:

St. Germain and Associates, Inc

Prepared by:

Summit Geoengineering Services Project #17183 April 2007

Lewiston:

Bangor:

640 Main Street • Lewiston, ME 04240 Tel: (207) 795 6009 • Fax: (207) 795-6128

8 Harlow St., Suite 4A • Bangor, ME 04401 iel: (207) 262-9040 • Fax: (207) 262-9080

Augusta:

434 Cony Road • Augusta, ME 04330 Tel: (207) 261-8334 • Fax: (207) 626-9094 Portland:

l Industrial Way, Suite 7 • Portland, ME 04103 Tel: (207) 221-6360 • Fax: (207) 221-6146



ENVIRONMENTAL CONSULTING . GEOTECHNICAL ENGINEERING . CONSTRUCTION MATERIALS TESTING

April 10, 2007 Summit #17183

Mark St. Germain St. Germain and Associates, Inc. 846 Main Street, Suite 3 Westbrook, Maine 04092

Reference:

Geotechnical Services Proposed Building, 910 Riverside Transfer Station, Portland, Maine

Dear Mark;

We have completed the geotechnical investigation in connection with the construction of a new building at the Riverside Transfer Station located Portland, Maine. Our scope of services included observing a test pit at the site and preparing this letter summarizing our findings and geotechnical recommendations.

1.0 Project and Site

The project will consist of constructing a new transfer station building with an approximate footprint of 22 by 58 feet located within the Riverside Transfer Station in Portland, Maine. Currently the site is underlain by reclaim soil overlying a thin clay later overlying approximately 80 feet of trash/debris fill as a former dump site. In general, the building location is a relatively flat area. An approximate 6 to 8 foot retaining wall was previously construction adjacent to the proposed building footprint. Summit previously provided geotechnical recommendations for the design and construction of this wall.

Based on our conversations with MacLeod Structural Engineers, we understand the proposed building will be a wood framed structure supported on a reinforced slab-on-grade. We further understand the following:

- Maximum slab loads of 150 psf or less
- Exterior foundation wall loads 700 lb/ft or less
- Building supported by a 12-inch thick reinforced concrete slab-on-grade
- Building is generally considered to an unheated structure
- No proposed underground utilities expect for possible power

Lewiston:

Bangor:

Augusta:

Portland:

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2.0 Exploration

The subsurface conditions were explored by performing one test pit within the vicinity of the proposed building footprint. Test pit TP-1 was performed to a depth of 7 feet using a Volvo EC 210B provided and operated by the facility management. Summit was on site to coordinate and observe the exploration. A log of the test pit is included at the end of this report

3.0 Subsurface Conditions

The soil at the site consisted of 7 feet of bituminous *fill/reclaim*, overlying former bituminous pavement. Explorations below this depth were not made available. In general, we understand the subgrade conditions beneath the former bituminous pavement consist of imported granular fill (1 to 2 feet) overlying stiff to firm silty clay (4 to 5 feet) overlying trash and debris fill (estimated to be up to 80 feet in thickness).

The *fill/reclaim* encountered generally consisted of black to dark brown sand with little gravel and little silt and is visually classified as SM soil in accordance with the Unified Soil Classification System (USCS). The fill/reclaim was generally compact to loose, damp to slightly moist and contained occasional organics and bituminous pavement debris.

Bedrock was not encountered within the test pit exploration. The Bedrock Geologic Map by the Maine Department of Conservation indicates that the bedrock within the site location is part of the Vassalboro Formation (SOv) consisting of calcareous sandstone, interbedded sandstone and impure limestone.

Groundwater seepage was not encountered with the test pit exploration. In general, groundwater is anticipated to reside beneath the exiting fill/reclaim section within the proposed building footprint.

4.0 Evaluation

- -----

The foundation for the proposed building will consist of a structural slab-on-grade at or near the existing grade. Based on the relatively light building loads and minimal site fill required beneath the building footprint, the depth and magnitude of loading imposed by the building and fill is considered to be minimal. We also understand that no underground utilities, expect power, is planned for the building. Due to these conditions, the structure will be somewhat tolerable to higher total and differential settlement levels then conventional building foundations.

The building footprint will be located within a recently filled section overlying trash and debris fill. Composition and existing condition of the trash and debris fill is not fully known. Explorations for the underlying trash and debris fill were not considered feasible for this project. Based on this, it should be noted that the proposed building footprint area as a unit could potentially be subjected to settlement caused by creep/decay of the underlying trash and debris fill over time. The magnitude and time associated for this settlement is considered relatively unknown. In general, differential settlement realized by the structure is anticipated to be tolerable provided the settlement occurs relatively uniform over time.

5.0 Foundation Recommendations

A. General

In general, the foundation soils explored to a depth of 7 feet are suitable to support the proposed foundation as planned. Recommendations for frost protection and set back requirements for retaining wall protection are detailed below. It should be noted that the building footprint area as a complete unit might be subjected to settlement caused by creep/decay of the underlying trash and debris fill over time. Potential damage to the proposed building structure from this condition could result depending on the magnitude of total and differential settlement realized.

B. Foundation Design Recommendations

We recommend that the structural slab be designed using a maximum total contact pressure of 150 psf or less and a subgrade modulus of 100 pci. We further recommend the following:

- The structural slab is constructed at a minimum setback of 4 feet horizontally from the back of the existing retaining wall.
- The structural slab does not exceed a maximum contact pressure of 150 psf or have an exterior line load exceeding 700 lb/ft.
- The structural slab is constructed on a 24-inch thick layer of Structural Backfill.
- The existing ground surface is proof rolled beneath the building footprint prior to placing Structural Backfill. Proof rolling should consist of a minimum of three passes in a north-south direction and then three passes in an east-west direction using a small vibratory roller or large vibratory plate compactor.
- Fill required beneath the structural slab does not exceed 2 feet in thickness.

We recommend that the Structural Backfill be placed along and below the exterior perimeter of a reinforced slab and have a maximum particle size limited to 6 inches and meet the following gradation specifications passing the 3-inch sieve:

STRUCTURAL BACKFILL		
Sieve Size Percent finer		
3 inch	100	
1/4 inch	25 to 70	
No. 40	0 to 30	
No. 200	0 to 5	

Reference: MDOT Specification 703.06, Type C

The Structural Backfill should be placed in 6 to 12-inch lifts and should be compacted to 95 percent of its maximum dry density determined in accordance with ASTM D1557. Any debris and/or organic mater encountered during excavation or subgrade preparation beneath the building footprint should be removed and replaced with compacted Structural Backfill.

C. Frost Protection

The frost penetration depth based on a design air-freezing index of 1,250 degree days for the Portland area is 4 feet. In general, the subgrade soils beneath the proposed building slab will consist of granular material having fair to good permeability. Groundwater within the building slab footprint is anticipated to be below frost depth. Based on this, we recommend that the building slab be constructed on 24-inches of Structural Backfill for a minimum protection of 50% the design air-freezing index.

D. Groundwater Control

Groundwater is anticipated to be below exterior slab depths for the proposed building. Based on this, perimeter underdrains are not strictly necessary. We recommend that exterior grades slope away from the addition to reduce runoff water from infiltrating the Structural Backfill.

6.0 Earthwork Consideration

Based on our field observation, the existing granular fill/reclaim encountered beneath the proposed building at the site will likely contain too high fines content to meet Structural Backfill gradation requirements. It should be removed from beneath the building slab and replaced with Structural Backfill as described above.

Excavations performed near the existing retaining wall should be performed with care to prevent damage to existing geogrid reinforcement. We recommend that a minimum soil cover thickness of 6 inches be maintained at all times between the bottom of excavation and top of geogrid layer.

We recommend that a qualified geotechnical consultant be retained to monitor and test soil materials used during construction. Summit would welcome the opportunity to provide this service.

7.0 Closure

Our recommendations are based on professional judgment and generally accepted principles of geotechnical engineering and project construction information provided by others. Some changes in subsurface conditions from those presented in this report may occur. Should these conditions differ materially or should foundation and earthwork construction or design conditions change from those described in this report, Summit should be notified so that we can re-evaluate our recommendations.

Due to the unknown composition of the trash and debris fill underlying the proposed building, Summit cannot guarantee the long-term performance of the foundation even if the recommendations in this report are followed.

We appreciate the opportunity to serve you during this phase of your project. If there are any questions or additional information is required, please do not hesitate to call.

Sincerely yours, Summit Geoengineering Services,

Craig W. Coolidge, E.I.T. Geotechnical Engineer



William M. Peterlein, P.E. Principal Geotechnical Engineer

TEST PIT LOG

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SUMMIT		ТЕ	ST PIT L	OG	Test Pit #	TP-1
	GEOENGINEERING SERVICES	Project:	Riverside Tra		Project #:	17183
640 Main Street Lewiston, Maine 04240			Proposed Bui Portland, Mai	lding ne	Groundwater: None	: e Encountered
Contractor		Ground Surface		Not Available		/ Lineo uniter eu
Equipment	t: Volvo EC 210B	Reference:	Not Available	e		
Summit St	aff: Craig Coolidge E.I.T.	Date:	3/28/2007	Weather:	Sunny	
Depth	D	ESCRIPTIO	<u></u>			
(ft)	ENGINEERING		GEO	DLOGIC/G		
	Compact to loose, black to dark brown			FILL/RECL	AIM	
1.0	little Gravel and Silt, trace organics and					
2.0	pavement debris, damp to slightly moist	, SM				
2.0						
3.0						
4.0						
5.0						
6.0						
0.0						
7.0						
	End of exploration at 7', top of former pa	avement	7'			
8.0	section					
9.0						
9.0						
10.0						
11.0						
12.0						
13.0						
14.0						
15.0						
16.0						
17.0						
18.0						
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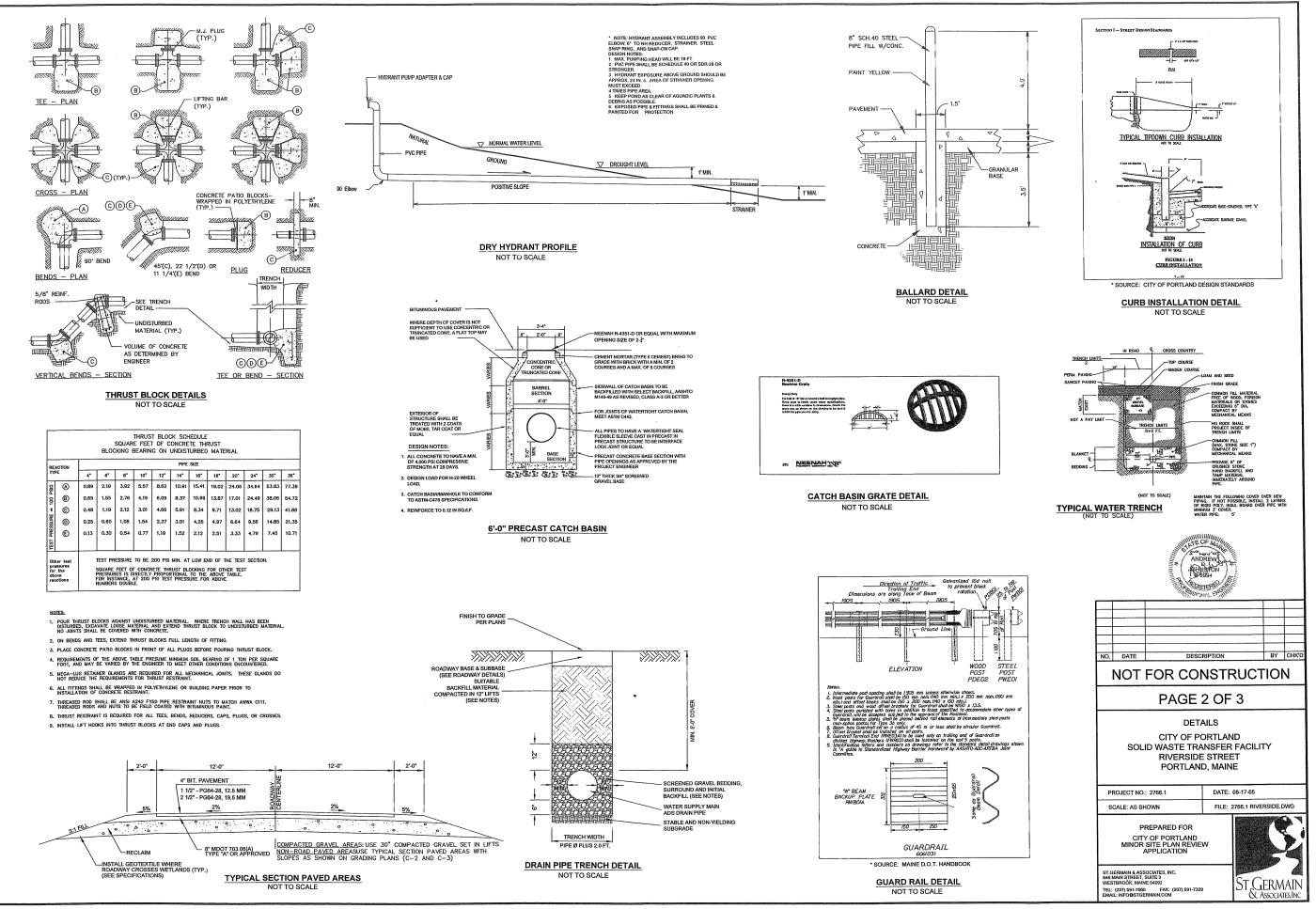
ATTACHMENT 5

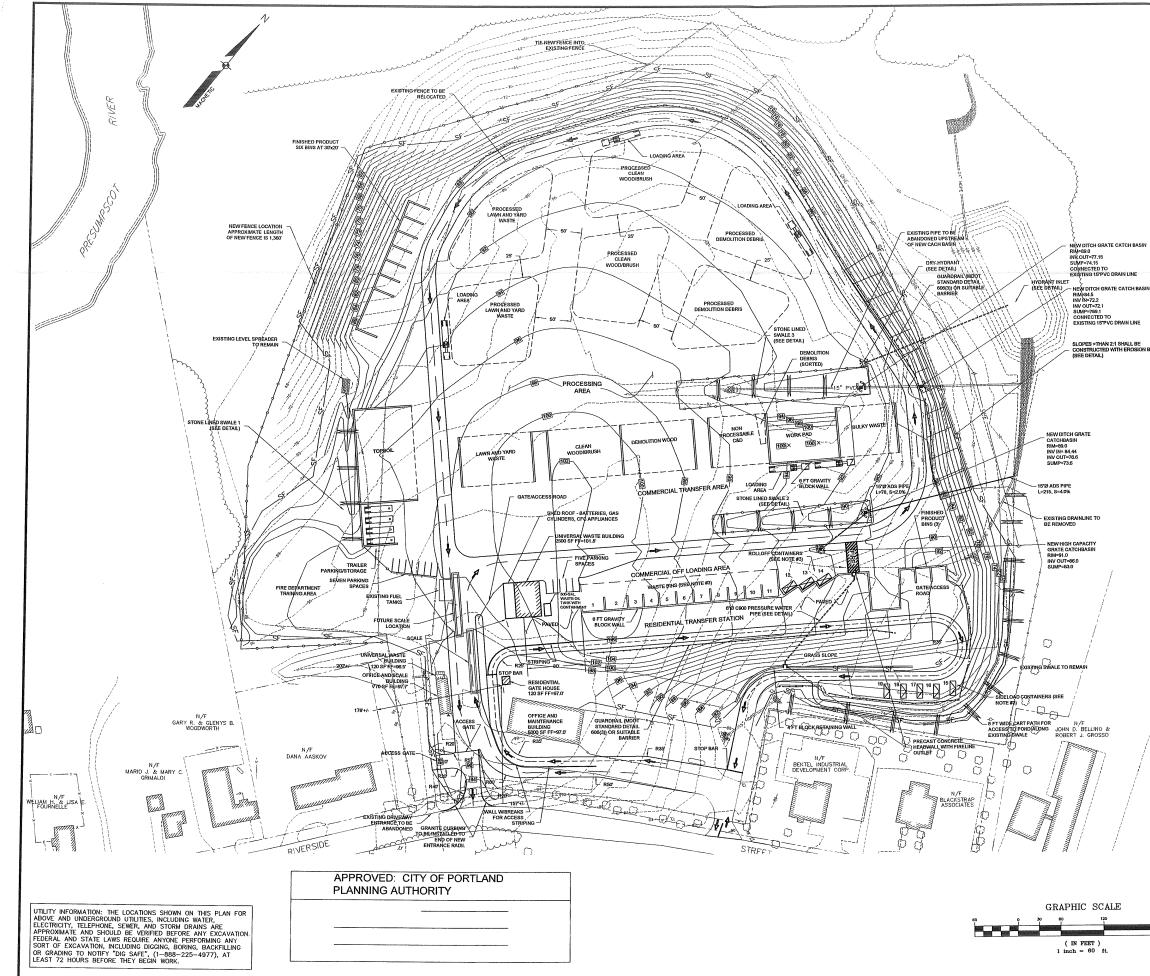
Fire Department Requirements

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Fire Department Requirements General Building Permit Application City of Portland, Maine May 2007 St.Germain File No.: 2844.1

Applicant:	City of Portland, Maine 55 Portland Street, Portland Maine 04101
Location of proposed structure:	910 Riverside Street, Portland
Proposed use of structure:	S (storage)
Square footage of proposed structure:	1,276 <u>+</u>
Existing and proposed fire protection of structure:	Handheld Extinguishers
Separate Plans for: Suppression system: Detection system:	N/A N/A
Life Safety Plan:	N/A
Elevators:	N/A





	EGEND
	LEGEND:
	PROPOSED FEATURES ARE SHOWN BLACK
	DESCRIPTION PROPERTY/ROW
	SIGN EDGE PAVEMENT
	GRAVEL ROAD
	EXISTING CONTOURS PROPOSED CONTOURS
	OVERHEAD ELEC. & TEL
	☆ LIGHT POLE UTILITY POLE HYDRANT
	STOCKADE FENCE TREE
	STOCKPILE LOCATION
	RESIDENTIAL TRAFFIC FLOW
	COMMERCIAL TRAFFIC FLOW
	SF
	CHECK DAM
	NOTES:
	1. BASE INFORMATION, TOPOGRAPHY, FENCE LOCATION, STORMWATER FEATURES, BUILDING LOCATIONS ON SITE AND ABUTTING PROPERTY INFORMATION TAKEN FROM FLAN ENTITLED 'SITE OPERATIONS PLAN OF
	RIVERSIDE STREET RECYCLING FACILITY' BY SEBAGO TECHNICS, DATED
	2. CONTENTS AND DIMENSIONS OF BINS AND STOCKPILE AREAS WILL VARY AS
	APPROPRIATE TO BEST FIT THE OPERATIONAL NEEDS OF THE FACILITY. STORAGE CELLS SHALL BE NO LARGER THAN 15,000 SQUARE FEET EACH, WITH A MAYNUNA NEEDAGE OPERATING PEREMITING 25 FEFT WITH OCCASIONAL
π	A MOOMMON AVEINGE OF LIAMING LIAMING LIAMING AVEING A
	1 30x20 LEAF/YARD WASTE
	2 30x20 CLEAN WOODDRRUSH 3 20x20 DEMO WOOD 4 20x20 NON-PROCESSABLE C+D
	5 20:20 SHINGLES 6 20:20 GLASS AND PORCELAIN 7 20:20 GYPSUM
	8 20x20 BULKY WASTE 9 20x20 INERT FILL 10 20x20 STREET SWEEPINGS
	11 20x20 UNSCREENED LOAM 12 ROLLOFF FERROUS
	14 ROLLOFF (AS NEEDED) 15 SIDELOAD TIRES
	16 SIDELOAD SILVER BULLET 17 SIDELOAD CARDBOARD 18 SIDELOAD (AS NEEDED)
	19 SIDELOAD (AS NEEDED)
	 THE PURPOSE OF THIS PLAN IS TO OBTAIN MINOR SITE PLAN REVIEW APPROVAL FROM THE CITY OF PORTLAND FOR THE PROPOSED MODIFICATIONS TO THIS SITE ONLY.
	5. THE OWNER OF RECORD AND THE APPLICANT IS THE CITY OF PORTLAND CIO TROY MOON, SOLID WASTE MANAGER CITY OF PORTLAND PUBLIC WORKS
	DEPARTMENT, 55 PORTLAND STREET, PORTLAND, MAINE. 6. FLOOR ELEVATIONS AND BUILDING SQUARE FOOTAGE AREAS ARE
	APPROXIMATE. 7. NO FURTHER LANDSCAPING IS PROPOSED FOR THIS SITE. PERIMETER EXISTING
	LANDSCAPING TO REMAIN. 8. CURBING SHALL BE CONSTRUCTED IN ACCORDANCE WITH CITY OF PORTLAND
	TECHNICAL AND DESIGN STANDARDS AND GUIDELINES. 9. A WAIVER IS REQUESTED FOR THE SUBMISSION OF A STANDARD BOUNDARY
	SURVEY.
	10. APPROXIMATE LAND AREA OF THE TRANSFER FACILITY IS 20 ACRES. 11. THE LOCATION OF UNDERGROUND UTILITIES IS UNKNOWN, NO NEW UTILITY
<i>[</i>	CONNECTIONS ARE PROPOSED. 12. ELECTRICAL SERVICE FOR NEW BUILDINGS TO BE DESIGNED BY CENTRAL MAINE
	POWER COMPANY.
//	
/ /	
in the second se	NO. DATE DESCRIPTION BY CHKD
mannin	NOT FOR CONSTRUCTION
Į.	
li l	SHEET 1 OF 3
	SITE PLAN
N/F RICHARD S. WATERS	CITY OF PORTLAND
	SOLID WASTE TRANSFER FACILITY RIVERSIDE STREET
ANDREW	
ANDREW	PROJECT NO.: 2766.1 DATE: 10-19-05 SCALE: 1*=60' FILE: 2766.1 RIVERSIDE.DWG
* youngeron *	SCALE: 1"= 60' FILE: 2766.1 RIVERSIDE.DWG
B COSTER OF	PREPARED FOR
SSIONAL ET	CITY OF PORTLAND MINOR SITE PLAN REVIEW
	APPLICATION
	ST.GERMAIN & ASSOCIATES, INC. 846 MAIN STREET, SUITE 3
	Mestaministrice: suff 3 Westbrook, Maine 64092 TEL: (207) 501-7000 FAX: (207) 591-7329
	EMAIL: INFO@STGERMAIN.COM QL ASSOCIATES, INC

GENERAL NOTES AND SPECIFICATIONS FOR EROSION CONTROL

- 1. THE CONTRACTOR IS RESPONSIBLE FOR STORM WATER CONTROL AND RUNOFF DURING ALL PHASES OF CONSTRUCTION.
- 2. THIS PLAN IS TO BE USED AS A GUIDELINE ONLY. ADDITIONAL EROSION CONTROLS MAY BE DICTATED BY FIELD CONDITIONS
- THE CONTRACTOR IS RESPONSIBLE FOR COMPLYING WITH ALL LOCAL, STATE, AND FEDERAL REGULATIONS.
- 4. CONSTRUCTION SEQUENCE
- CONSTRUCT PERMANENT STORMWATER DITCHES, TEMPORARY DIVERSION S AND PIPING. ERECT HAY BALE DIKES ANDIOR SILT FENCES AS SHOWN ON PRAWINGS AND SA MAY BE REQUIRED IN THE PIELD TO PROTECT FROPERTY, AVATERWAYS, WELLS AND SPRINGS. EXCAVATE AND FILL FOR ROADWAY AND JUILDING STES. A. CONSTRUCT PERMANENT STOR RSION SWALES
- INSTALL HAY BALE FILTERS AT PIPE INLETS.
- C. COMMENCE GRADING. STOCKPILE SOIL SO THAT EROSION IS MINIMIZED EXTRA PRECAUTIONS SHALL BE TAKEN WHEN SOIL IS SATURATED. D. GRADE SITE SO THAT SOIL EROSION CAUSED BY RUNOFF WILL BE MINIMIZED ON STEEP SLOPE RUN DOZER PERPENDICULAR TO SLOPE SO THAT TREADS OF DOZER CHEATE GROOVES TO TEMPORARULY SCARIFY SURFACE AND MINIMIZE RUNOFF VELOCITIES (CAN ALSO BE USED TO ANCHOR MULCH)
- E. TEMPORARY SEED AND MULCH ALL EXPOSED GROUND.
- E. INSTALL EROSION CONTROL BLANKET AS SPECIFIED.
- G. ESTABLISH PERMANENT VEGETATION UPON COMPLETION OF FINAL GRADING IN A GIVEN AREA.
- 5. MATERIALS
- A HAY BALES: SECURELY TIED BALED HAY AT LEAST 14 INCHES BY 18 INCHES BY 30 INCHES LONG.
- B. MULCH MATERIAL: SELECT MULCH MATERIAL FOR EROSION CONTROL THAT WILL BEST MEET THE SITE CONDITIONS FROM THE FOLLOWING: (1) HAY OR STRAW - SHALL BE DRY, FREE OF MOLD AND WEED SEEDS
- C. MULCH ANCHORING: WHEN MULCH MUST BE HELD IN PLACE, ONE OF THE FOLLOWING MULCH ANCHORING MATERIALS SHALL BE USED:
- ASPHALT EMULSION TYPES RS-1, RS-2, MS-2 OR SS-1 IN COMPLIANCE WITH ASTM D977.
- (2) MULCH NETTING (PAPER, TWINE, PLASTIC, OR PLASTIC AND WOOD FIBER). D. FERTILIZER: COMPLETE FERTILIZER 10-20-20 (STANDARD PRODUCT).
- E. LIME: GROUND LIMESTONE CONTAINING NOT LESS THAN 95% TOTAL CARBONATES (CALCIUM OR MAGNESIUM).
- F. TEMPORARY SEED MIXTURE: WHEN IT IS IMPRACTICAL TO ESTABLISH PERMANENT PROTECTIVE VEGETATION ON DISTURBED EARTH BY OCTOBER 15, USE "CONSERVATION MIX" OR THE FOLLOWING SEED MIXTURE:

KIND OF SEED	LBS PER ACRE	
SWITCHGRASS (BLACKWELL OR SHELTER)	4.0	
BIG BLUESTEM (NIAGRA OR KAW)	4.0	
LITTLE BLUESTEM (CAMPER OR BLAZE)	2.0	
SAND LOVEGRASS (NE-27 OR BLAZE)	1.5	
BIRDSFOOT TREFOIL (VIKING)	20	

- INOCULUM SPECIFIC TO BIRDSFOOT TREFOIL MUST BE USED WITH THIS MIXTURE. IF SEEDING BY HAND, A STICKING AGENT SUCH AS MILK OR COL SHALL BE USED TO STICK INOCULUM TO THE SEED. IF SEEDING WITH FOUR (4) TIMES THE REC MOUNT OF INOCULUN
- PERMANENT SEED MIXTURE FOR CLASS B (FIELD) RESTORATION NORMALLY USED FOR ALL SLOPE WORK. THIS SEED SHALL CONFORM TO THE TABLE BELOW UNLESS AMENDED BY THE ENGINEER TO SUIT SPECIAL LOCAL CONDITIONS ENCOUNTERED. THIS SEED SHALL BE FURNISHED ON A PLS PAGIN

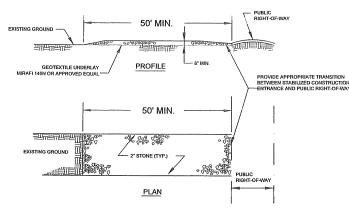
PLS PER ACRE, LBS KIND OF SEED CREEPING RED FESCUE REDTOP TALL FESCUE TOTAL

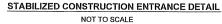
6. SEEDING AND MULCHING

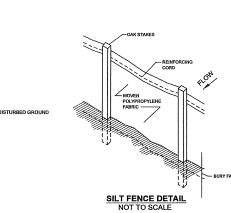
- ALL AREAS WHICH WILL REMAIN OPEN SHALL BE SEEDED AND MULCHED WITHIN FIVE (5) DAYS OF BEING STRIPPED OR BACKFILLED AND GRADED. В.
- THE FOLLOWING PROCEDURES SHALL BE FOLLOWED FOR TEMPORARY SEEDING APPLY LIME AT A RATE OF 75 TO 100 POUNDS PER 1000 SQUARE FEET. INCORPORATE INTO TOP TWO INCHES OF SOIL.
- (2) APPLY FERTILIZER AT A RATE OF 30 POUNDS PER 1000 SQUARE FEET. MIX THOROUGHLY INTO THE TOP TWO INCHES OF SOIL.
- (3) APPLY SEED MIXTURE AT A RATE OF TWO POUNDS PER 1000 SQUARE FEET EVENLY IN TWO INTERSECTING DIRECTIONS. RAKE LIGHTLY.
- (4) APPLY MULCH MATERIAL WITHIN 24 HOURS AFTER SEEDING IN ACCORDANCE WITH THE FOLLOWING:

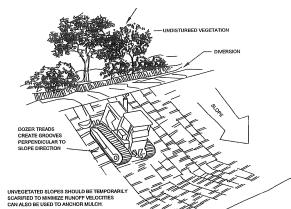
HAY OR STRAW: APPLICATION RATE - 75 TO 100 POUNDS PER 1000 SQUARE FEET. SPREAD BY HAND OR WITH MACHINE. ANCHOR ON SLOPES AND WHERE SUBJECT TO BLOWING OR SLIPPING

- (6) ANCHOR MULCH ON ALL SLOPES EXCEEDING 5% AND OTHER AREAS AS REQUIRED USING ONE OF THE FOLLOWING METHODS:
- (A) ASPHALT EMULSION: APPLY ASPHALT EMULSION AT A RATE OF 3.5 TO 4.5 GALLONS PER 1000 SQUARE FEET. MAY BE BLOWN ON WITH HAY OR STRAWD ON SFRAYED ON AFTER SPREADING HAY OR STRAW. PROPER EQUIPMENT SHALL BE USED TO APPLY EMULSION
- (B) MULCH NETTING: SPREAD OVER LOOSE MULCH AND PIN TO THE SOIL IN ACCORDANCE WITH THE MANUFACTURERS INSTRUCTION TRUCTIONS
- WHEN TEMPORARY SEEDING CANNOT BE ACCOMPLISHED TO HAVE ESTABLISHED OR VISIBLE GROWTH BY OCTOBER 15, THE DISTURBED AREAS SHALL BE COVERED WITH 6 INCHES OF MULCH FOR THE WINTER. C.
- 7. MAINTENANCE OF EROSION CONTROL STRUCTURES
- A HAY BALES SHALL BE REPLACED WHEN THEY BECOME CLOGGED WITH SOIL PARTICLES OR AS DIRECTED BY THE ENGINEER OR OWNER.
- B. WHEN THE SEDIMENT ACCUMULATION REACHES A DEPTH OF 12 INCHES BEHIND THE SILT FENCE OR CHECK DAMS, IT SHALL BE DISPOSED OF. REPAIR FENCE, EROSION CONTROLS AND CHECK DAMS AS NECESSARY.
- C. REPAIR ALL DAMAGES CAUSED BY SOIL EROSION OR CONSTRUCTION EQUIPMENT AT OR BEFORE THE END OF EACH WORKING DAY.
- INSPECT, MAINTAIN AND/OR REPAIR ALL EROSION AND SEDIMENTATION CONTROLS EACH WEEK DURING DRY PERIODS. INSPECT, MAINTAIN AND REPAIR ALL EROSION AND SEDIMENTATION CONTROLS AFTER EACH PRECIPITATION EVENT OF G. I INCHES OR MORE.

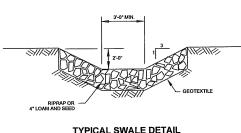








BANK STABILIZATION DETAIL NOT TO SCALE



ONGITUDIA CHANNEL SLOPE (FT/FT) 0.020 0.030 0.040 0.050 0.080 0.100 0.120 0.150 LENGTH A-B (FT/FT) LENGTH FLOW ALL Y TSING A BEECHTEINEN NOTE: THE LENGTH IS SUCH THAT POINTS A AND B ARE OF EQUAL ELEVATIO

HAY BALE/SILT FENCE BARRIER

NOT TO SCALE

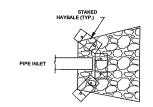
SILT FENCE W/POSTS (SEE SILT FENCE DETAIL)

FLOW

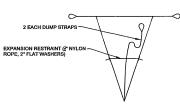
EMBED HAYBALES 6" MIN

HAY BALE W/STAKE

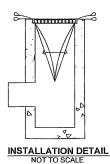
CHECK DAMS NOT TO SCALE

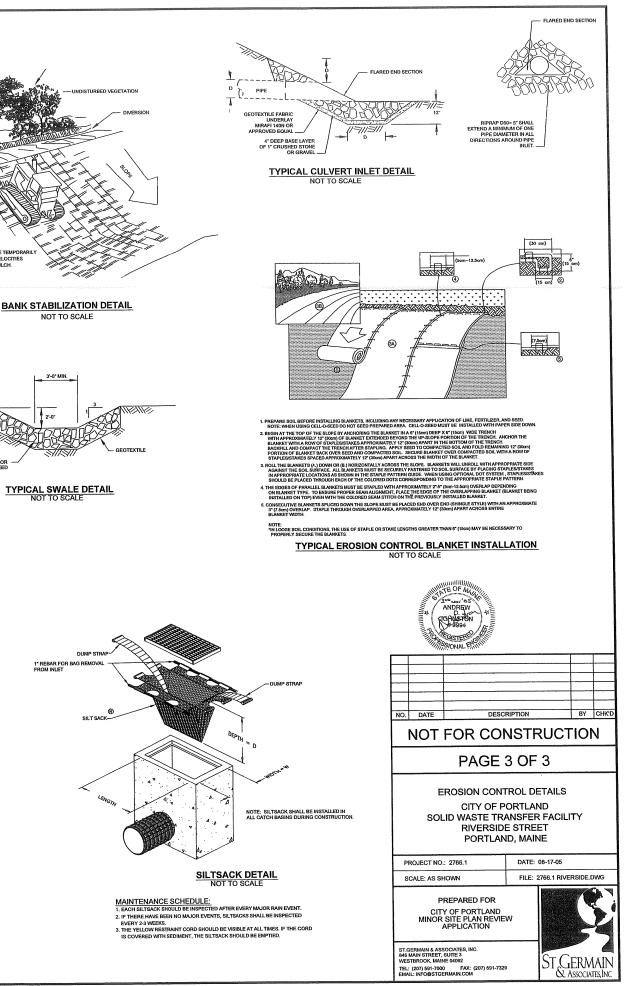


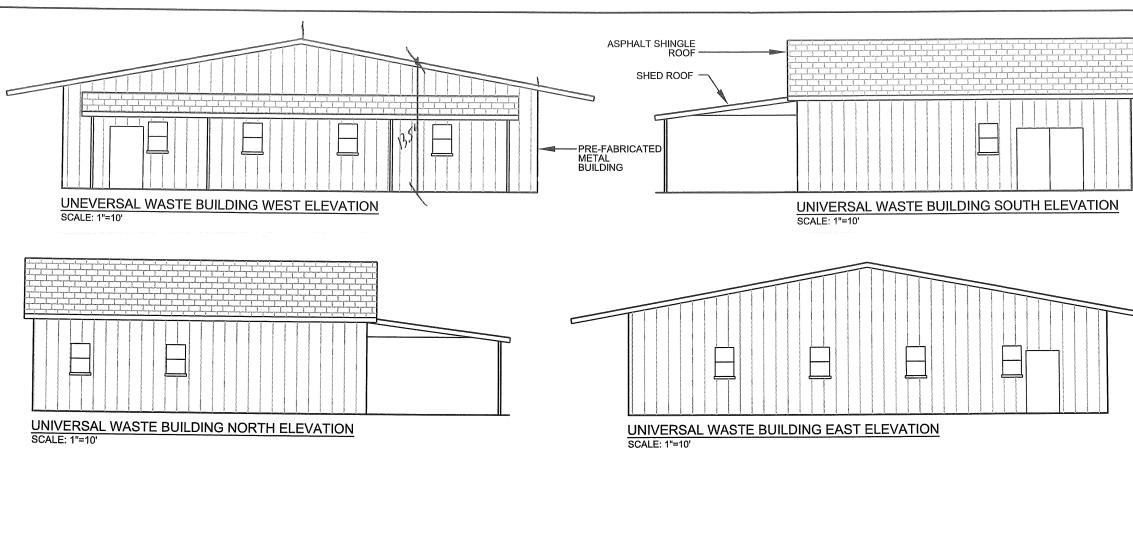
HAYBALE INLET PROTECTION NOT TO SCALE

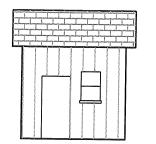


BAG DETAIL





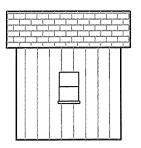




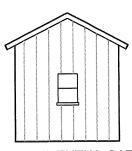
RESIDENTIAL GATE HOUSE SOUTH ELEVATION SCALE: 1"=10'



RESIDENTIAL GATE HOUSE WEST ELEVATION SCALE: 1"=10'

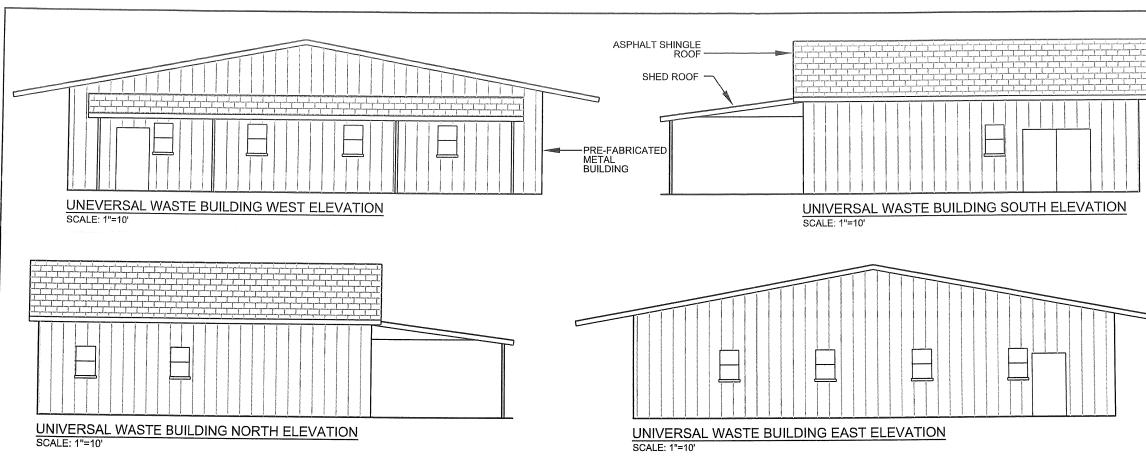


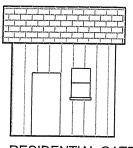
RESIDENTIAL GATE HOUSE NORTH ELEVATION SCALE: 1"=10'



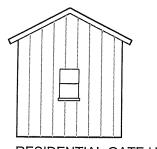
RESIDENTIAL GATE HOUSE EAST ELEVATION SCALE: 1"=10'

	4 pt-	
NOTES:	VATIONS.	
2. EXACT FOOTPRINT AND LOC, SUBJECT TO CHANGE.	ATIONS OF OPENINGS	
SKETCH OF BUILDING ELEVATIONS SOLID WASTE TRANSFER FACILITY RIVERSIDE ROAD PORTLAND, MAINE		
PREPARED FOR CITY OF PORTLAND MINOR SITE PLAN REVIEW APPLICATION PROJECT: 2766.1 DATE: 09/16/05 SCALE: AS NOTED FILE: 2766.1 BLDG ST.GERMAIN & ASSOCIATES, INC	ST. GERMAIN	
 846 MAIN STREET, SUITE 3 WESTBROOK, MAINE 04092 TEL: (207) 591-7000 FAX: (207) 591-7329 EMAIL: INFO@STGERMAIN.COM	ST. GERMAIN & Associates.Inc.	

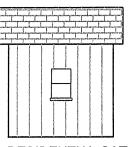




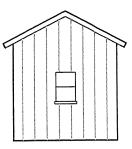
RESIDENTIAL GATE HOUSE SOUTH ELEVATION SCALE: 1"=10'



RESIDENTIAL GATE HOUSE WEST ELEVATION SCALE: 1"=10'



RESIDENTIAL GATE HOUSE NORTH ELEVATION SCALE: 1"=10'



RESIDENTIAL GATE HOUSE EAST ELEVATION SCALE: 1"=10'

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	NOTES: 1. CONCEPTUAL BUILDING ELEN 2. EXACT FOOTPRINT AND LOC/ SUBJECT TO CHANGE.	
	SKETCH OF BUILDING EL	EVATIONS
	SOLID WASTE TRANSFE RIVERSIDE RO PORTLAND, MA	ER FACILITY AD
	PREPARED FOR CITY OF PORTLAND MINOR SITE PLAN REVIEW APPLICATION	
	PROJECT: 2766.1 DATE: 09/16/05 SCALE: AS NOTED FILE: 2766.1 BLDG ST.GERMAIN & ASSOCIATES, INC. 846 MAIN STREET, SUITE 3 WESTBROOK, MAINE 04092 TEL: (207) 591-7020 FLL: (207) 591-7020 FAX: (207) 591-7329 EMAIL: INFO@STGERMAIN.COM	ST. GERMAIN & Associates, Inc.

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