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86 Industrial Park Road, Suite 4, Saco, ME 04072 207-286-8008  
200 Int'l Drive, Suite 170, Portsmouth, NH 03801 603-427-0244

LETTER OF TRANSMITTAL

Date:	June 4, 2010	Project No.:	557-14
Attention:	Mr. Cuyler Feagles (cmf@portlandmaine.gov)		
Re:	In-Place Density Testing Terminal Enhancement, Portland Int. Jetport Portland, Maine		

City of Portland, Portland Int. Jetport

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1001 Westbrook Street

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Portland, Maine 04102

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We are sending you attached In-Place Density Test Results.

Date(s) Performed:

May 17, 18, 20, 2010

Test (s) Performed

In-Place Density Testing - Nuclear Method ASTM D6938

- Meets Specification
- Selected Tests Do Not Meet Specification - Noted with an \*

Note: Materials descriptions and maximum laboratory dry density values were transmitted under separate cover and are referenced in the attached summaries by the material number.

Remarks:

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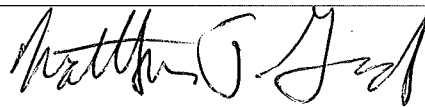
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Copy To: Roy Williams: rsw@portlandmaine.gov  
 Jim Stanislaski: jim\_stanislaski@gensler.com  
 Cliff Takara: clifford\_takara@gensler.com  
 Lacey Fogg: Lacey.Fogg@amec.com  
 Mike Fusco: mfusco@tcco.com  
 Shaun Winner: swinner@tcco.com  
 Phil Coleman: pcoleman@tcco.com  
 Elizabeth O'Toole: eotoole@tcco.com

Signed:



SUMMARY OF IN-PLACE DENSITIES - ASTM D6938  
 TERMINAL ENHANCEMENT AT THE PORTLAND INTERNATIONAL JETPORT  
 PORTLAND, MAINE  
 RWG&A PROJECT NO. 557-14

Client: City of Portland  
 Test Date: 5/17/2010  
 Technician: MJK  
 Gauge Model/Serial Number: L 500

Lab No.	Soil Description	ASTM D1557 Max Density	ASTM D1557 Opt. Moisture
11194	Poorly Graded Sand	111.0	11.4

Report Issue Date: **JUN 0 4 2010**

Test No.	Location	Elevation	ASTM D6938 Dry Density (pcf)	ASTM D6938 Water Content (%)	Percent of Max. (%)	Lab. No.
1	North Side of Catch Basin OA-CB #38	FG -6'	104.1	4	94	11194
2	North Side of Catch Basin OA-CB #38	FG -5'	103.3	5	93	11194
3	30 yds from SMH-24	FG -5'	104.5	7	94	11194
4	20 yds from SMH-24	FG -5'	104.9	6	95	11194
5	10 yds from SMH-24	FG -5'	106.1	6	96	11194
6	30 yds from SMH-24	FG -3'	102.9	6	93	11194
7	20 yds from SMH-24	FG -3'	106.9	6	96	11194
8	10 yds from SMH-24	FG -3'	106.6	5	96	11194
9	30 yds from SMH-24	FG -1'	105.1	6	95	11194
10	20 yds from SMH-24	FG -1'	105.1	7	95	11194
11	10 yds from SMH-24	FG -1'	108.9	5	98	11194

Remarks: Tests 1 and 2 performed on catch basin backfill (OA-CB #38). The remaining tests were taken on force main backfill performed after 5 f.m. Lifts placed in 2' thicknesses over force main per Mark Nicklin, GSG. Roadway to be box cut at later date.

FG = Finish Grade  
 FF = Finish Floor  
 FGB = Finish Grade of Base  
 FGSB = Finish Grade of Subbase  
 FGSG = Finish Grade of Subgrade

TOW = Top of Foundation Wall  
 BOF = Bottom of Footing  
 SG = Subgrade

Checked by:





SUMMARY OF IN-PLACE DENSITIES - ASTM D6938  
 TERMINAL ENHANCEMENT AT THE PORTLAND INTERNATIONAL JETPORT  
 PORTLAND, MAINE  
 RWG&A PROJECT NO. 557-14

Lab No.	Soil Description	ASTM D1557 Max Density	ASTM D1557 Opt. Moisture
11194	Poorly Graded Sand	111.0	11.4

Client: City of Portland  
 Test Date: 5/18/2010  
 Technician: MJK  
 Gauge Model/Serial Number: L 500

Report Issue Date: JUN 0 4 2010

Test No.	Location	Elevation	ASTM D6938 Dry Density (pcf)	ASTM D6938 Water Content (%)	Percent of Max. (%)	Lab. No.
1	5' south of OA-CB #44	FG -1'	103.6	3	93	11194
2	105 yds north of tie in to existing force main	FG -4'	106.3	5	96	11194
3	90 yds north of tie in to existing force main	FG -5'	102.9	5	93	11194
4	80 yds north of tie in to existing force main	FG -6'	108.7	5	98	11194
5	70 yds north of tie in to existing force main	FG -6'	109.0	5	98	11194
6	105 yds north of tie in to existing force main	FG -3'	105.3	3	95	11194
7	90 yds north of tie in to existing force main	FG -4'	104.7	3	94	11194
8	80 yds north of tie in to existing force main	FG -5'	106.6	4	96	11194
9	70 yds north of tie in to existing force main	FG -5'	109.8	3	99	11194
10	105 yds north of tie in to existing force main	FG -2'	108.0	4	97	11194
11	90 yds north of tie in to existing force main	FG -3'	104.8	7	95	11194
12	80 yds north of tie in to existing force main	FG -4'	105.6	5	95	11194

Remarks: Force Main Backfill

FG = Finish Grade  
 FF = Finish Floor  
 FGB = Finish Grade of Base  
 FGSB = Finish Grade of Subbase  
 FGSG = Finish Grade of Subgrade

TOW = Top of Foundation Wall  
 BOF = Bottom of Footing  
 SG = Subgrade

Checked by:



Portland International  
Jetport  
1501 Washington Street  
Portland, Maine 04102

Gensler  
Gensler Associates, Inc.  
1000 Massachusetts Avenue  
Boston, MA 02118

DATE	BY	REVISION
05/18/2010	MJK	ISSUED FOR PERMIT
05/18/2010	MJK	REVISED PER COMMENTS
05/18/2010	MJK	REVISED PER COMMENTS
05/18/2010	MJK	REVISED PER COMMENTS
05/18/2010	MJK	REVISED PER COMMENTS
05/18/2010	MJK	REVISED PER COMMENTS
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05/18/2010	MJK	REVISED PER COMMENTS
05/18/2010	MJK	REVISED PER COMMENTS

Professional Seal  
 State of Maine  
 License No. 10000  
 Date of Issue: 05/18/2010  
 Date of Expiration: 05/18/2011  
 Project Name: PORTLAND INTERNATIONAL JETPORT  
 SHEET NO. C02.01

**SHEET NOTES**

1. ALL WORK SHALL BE IN ACCORDANCE WITH THE LATEST EDITIONS OF THE MAINE ENGINEERING CODES AND THE MAINE CONSTRUCTION CODES.

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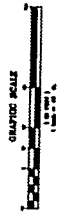
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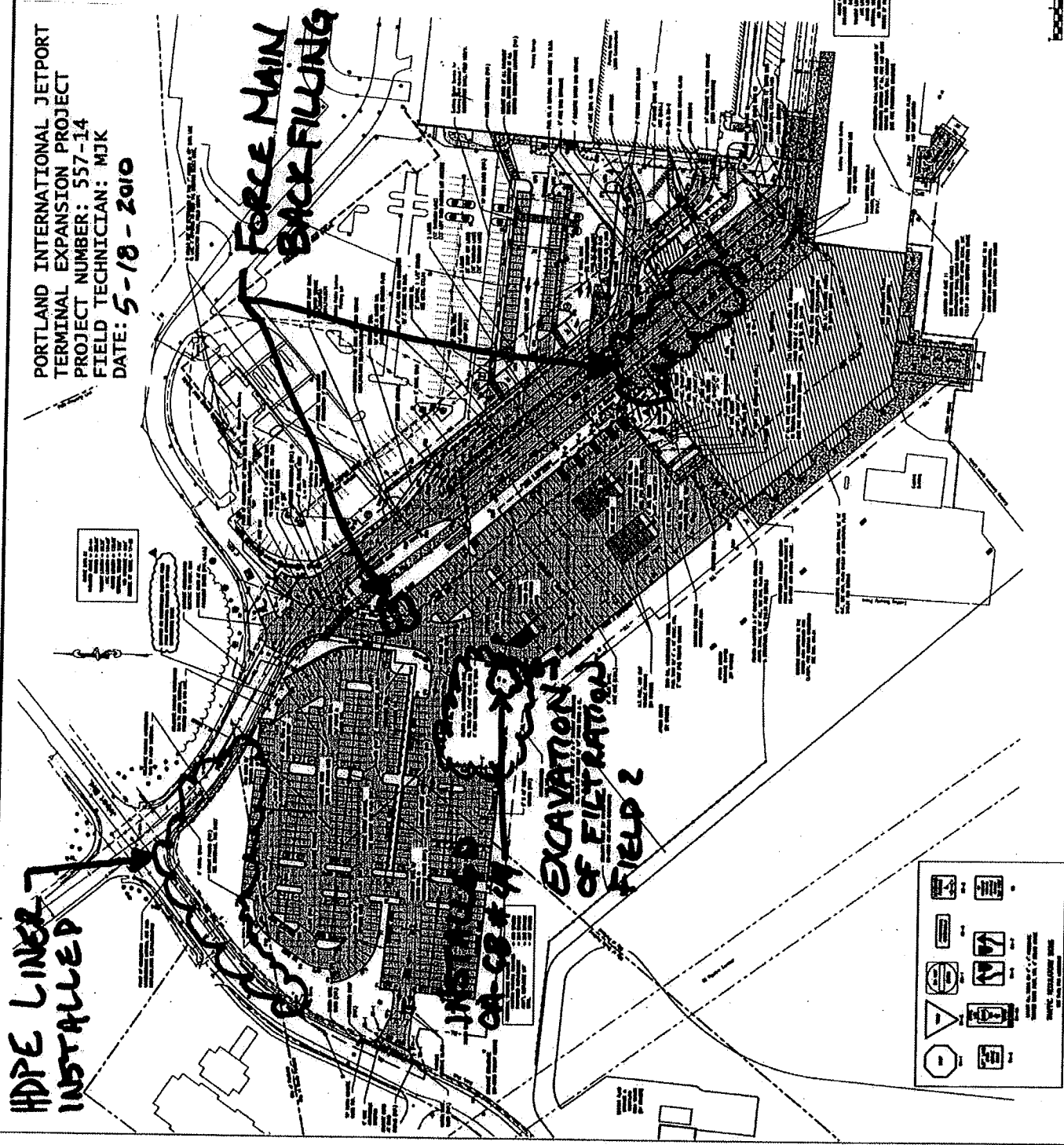
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PORTLAND INTERNATIONAL JETPORT  
 TERMINAL EXPANSION PROJECT  
 PROJECT NUMBER: 557-14  
 FIELD TECHNICIAN: MJK  
 DATE: 5-18-2010



Legend for symbols used in the plan:

- Symbol 1: [Symbol]
- Symbol 2: [Symbol]
- Symbol 3: [Symbol]
- Symbol 4: [Symbol]
- Symbol 5: [Symbol]
- Symbol 6: [Symbol]
- Symbol 7: [Symbol]
- Symbol 8: [Symbol]
- Symbol 9: [Symbol]
- Symbol 10: [Symbol]

Legend for symbols used in the plan.

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Lab No.	Soil Description	ASTM D1557 Max Density	ASTM D1557 Opt. Moisture
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Client: City of Portland  
 Test Date: 5/20/2010  
 Technician: MJK  
 Gauge Model/Serial Number: L 500

Report Issue Date: **JUN 0 4 2010**

Test No.	Location	Elevation	ASTM D6938 Dry Density (pcf)	ASTM D6938 Water Content (%)	Percent of Max. (%)	Lab. No.
1	60 yds north of existing tie in	FG -5'	105.1	5	95	11194
2	35 yds north of existing tie in	FG -5'	104.7	5	94	11194
3	60 yds north of existing tie in	FG -4'	102.9	7	93	11194
4	35 yds north of existing tie in	FG -4'	109.7	4	99	11194
5	60 yds north of existing tie in	FG -3'	107.2	5	97	11194
6	35 yds north of existing tie in	FG -3'	107.8	4	97	11194
7	60 yds north of existing tie in	FG -2'	107.5	4	97	11194
8	35 yds north of existing tie in	FG -2'	107.3	4	97	11194
9	15 yds north of existing tie in	FG -4'	106.9	3	96	11194
10	15 yds north of existing tie in	FG -2'	106.4	3	96	11194

Remarks: Lifts placed in 2' thicknesses over force main tie in per Mark Nicklin, GSG. (Tests 9 & 10) Roadway to be box cut at later date.

FG = Finish Grade  
 FF = Finish Floor  
 FGB = Finish Grade of Base  
 FGSB = Finish Grade of Subbase  
 FGSG = Finish Grade of Subgrade

TOW = Top of Foundation Wall  
 BOF = Bottom of Footing  
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Checked by: 