

R. W. Gillespie & Associates, Inc.

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 10, 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

1001 Westbrook Street

Portland, Maine 04102

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

Date(s) Performed:

May 25, 26, 27, 28, 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:

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
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 Shaun Winner: swinner@tcco.com
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 Geoff Mitchell: gemitchell@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: 5/25/2010
 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:

Test No.	Location	Elevation	ASTM D6938 Dry Density (pcf)	ASTM D6938 Water Content (%)	Percent of Max. (%)	Lab. No.
1	10' N of DMH OA-35 over drain line	TOP +1'	105.8	3	95	11194
2	20' N of DMH OA-35 over drain line	TOP +1'	106.0	4	96	11194
3	30' N of DMH OA-35 over drain line	TOP +1'	114.2	4	100+*	11194
4	30' N of DMH OA-35 over drain line	TOP +2'	106.4	4	96	11194

Remarks: *Material tested at location #3 may have been mixed with on-site sand fill. Compaction sufficient.

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
 TOP = Top of Pipe

Checked by: 

Portland International
Jetport
4021 Northeast Street
Portland, Maine 04122

Gensler

DESI ASSOCIATES, INC.
ARCHITECTS

PORTLAND INTERNATIONAL JETPORT
TERMINAL EXPANSION PROJECT
PROJECT NO. 557-14
DATE: 5/25/2010
TECHNOLOGIST: MJK

NO.	DATE	BY	DESCRIPTION
1	05/25/10	MJK	ISSUED FOR PERMIT
2	05/25/10	MJK	ISSUED FOR PERMIT
3	05/25/10	MJK	ISSUED FOR PERMIT
4	05/25/10	MJK	ISSUED FOR PERMIT
5	05/25/10	MJK	ISSUED FOR PERMIT
6	05/25/10	MJK	ISSUED FOR PERMIT
7	05/25/10	MJK	ISSUED FOR PERMIT
8	05/25/10	MJK	ISSUED FOR PERMIT
9	05/25/10	MJK	ISSUED FOR PERMIT
10	05/25/10	MJK	ISSUED FOR PERMIT
11	05/25/10	MJK	ISSUED FOR PERMIT
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15	05/25/10	MJK	ISSUED FOR PERMIT
16	05/25/10	MJK	ISSUED FOR PERMIT
17	05/25/10	MJK	ISSUED FOR PERMIT
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19	05/25/10	MJK	ISSUED FOR PERMIT
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21	05/25/10	MJK	ISSUED FOR PERMIT
22	05/25/10	MJK	ISSUED FOR PERMIT
23	05/25/10	MJK	ISSUED FOR PERMIT
24	05/25/10	MJK	ISSUED FOR PERMIT
25	05/25/10	MJK	ISSUED FOR PERMIT
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29	05/25/10	MJK	ISSUED FOR PERMIT
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34	05/25/10	MJK	ISSUED FOR PERMIT
35	05/25/10	MJK	ISSUED FOR PERMIT
36	05/25/10	MJK	ISSUED FOR PERMIT
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44	05/25/10	MJK	ISSUED FOR PERMIT
45	05/25/10	MJK	ISSUED FOR PERMIT
46	05/25/10	MJK	ISSUED FOR PERMIT
47	05/25/10	MJK	ISSUED FOR PERMIT
48	05/25/10	MJK	ISSUED FOR PERMIT
49	05/25/10	MJK	ISSUED FOR PERMIT
50	05/25/10	MJK	ISSUED FOR PERMIT

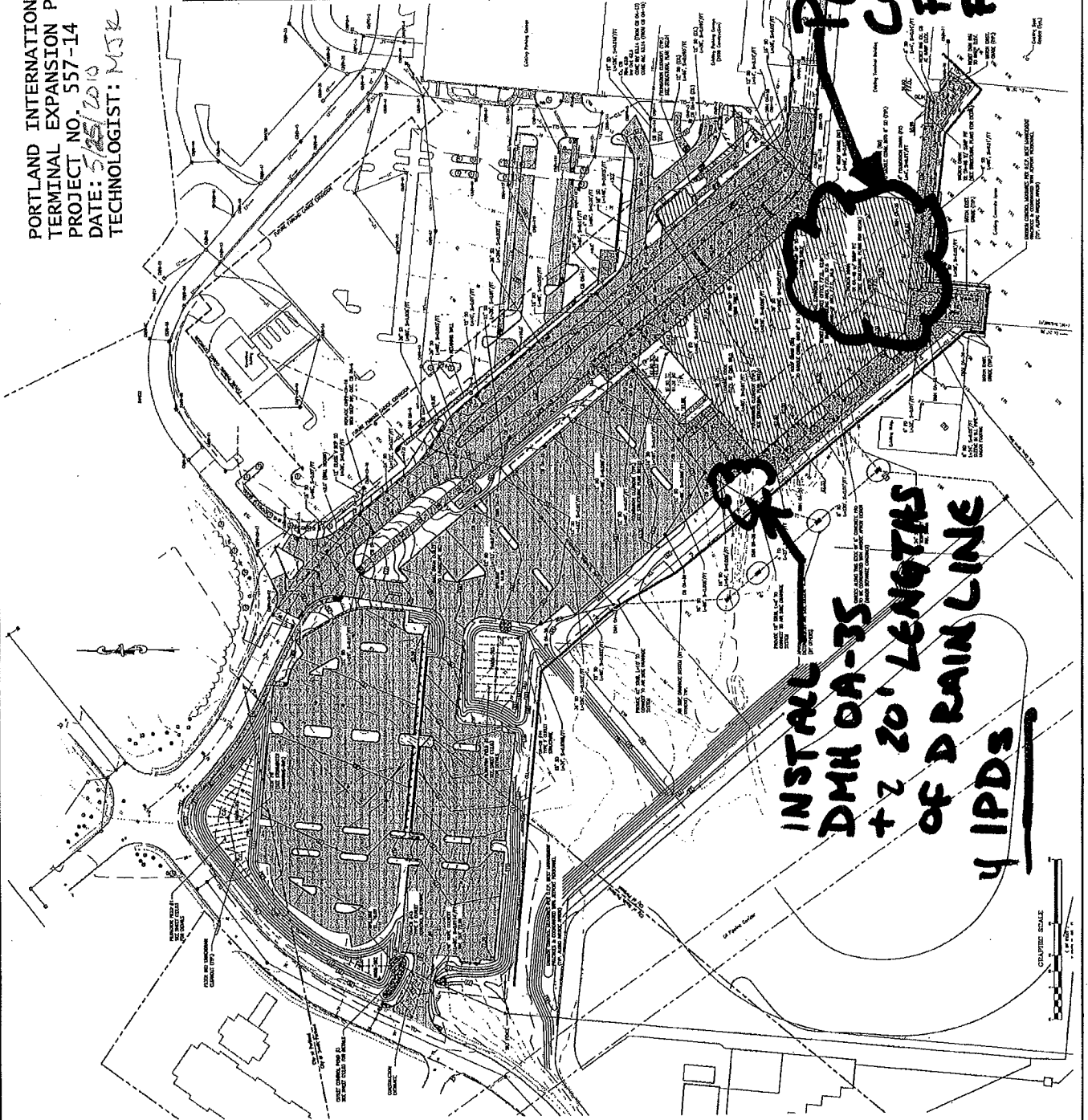
GENERAL NOTES

1. SEE GENERAL NOTES TO SHEET 557-14 FOR ALL NOTES.
2. SEE GENERAL NOTES TO SHEET 557-14 FOR ALL NOTES.
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10. SEE GENERAL NOTES TO SHEET 557-14 FOR ALL NOTES.

16 CYL. MADE

**INSTALL
DMH DA-35
+ 2 20' LENGTHS
OF DRAIN LINE
4 IPDS**

**PLACING
CONC. +
FORMING
FOOTINGS**



C02.02

GRAPHIC SCALE
1" = 100'

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 TERMINAL ENHANCEMENT AT THE PORTLAND INTERNATIONAL JETPORT
 PORTLAND, MAINE
 RWG&A PROJECT NO. 557-14

Client: City of Portland
 Test Date: 5/26/2010
 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:

Test No.	Location	Elevation	ASTM D6938 Dry Density (pcf)	ASTM D6938 Water Content (%)	Percent of Max. (%)	Lab. No.
1	105' S of CB #40 - Over drain line	FG -3'	107.7	3	97	11194

Remarks: Material tested on Test #3 may have been mixed with on-site sand fill. Compaction sufficient.

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
 TOP = Top of Pipe

Checked by: *Matthew J. Goff*

Portland International Jetport
1001 Westbrook Street
Portland, Maine 04102

Gensler
WEST ASSOCIATES, INC.
ENGINEERS ARCHITECTS SURVEYORS CONTRACTORS PLANNERS

2200 Spring St.
Portland, ME 04106
Tel: 207.775.1500
Fax: 207.775.1501
Internet: 207.775.1507

SHEET NOTES

Local Abbreviations, Symbols

Symbol	Meaning
1	Excavation
2	Concrete
3	Reinforcing Steel
4	Asphalt Concrete
5	Gravel
6	Earth
7	Water
8	Existing Structure
9	Proposed Structure
10	Proposed Excavation
11	Proposed Retention Wall
12	Proposed Foundation
13	Proposed Paving
14	Proposed Grading
15	Proposed Elevation
16	Proposed Slope
17	Proposed Spot Elevation
18	Proposed Elevation
19	Proposed Elevation
20	Proposed Elevation
21	Proposed Elevation
22	Proposed Elevation
23	Proposed Elevation
24	Proposed Elevation
25	Proposed Elevation
26	Proposed Elevation
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49	Proposed Elevation
50	Proposed Elevation

GENERAL NOTES

- ALL DIMENSIONS UNLESS OTHERWISE SPECIFIED ARE IN FEET AND INCHES.
- CONCRETE SHALL BE 4000 PSI STRENGTH WITH 4% CHLORIDE FREE STEEL REINFORCEMENT.
- ASPHALT CONCRETE SHALL BE 1.5 INCHES THICK WITH 1.5 INCHES MAXIMUM SIZE AGGREGATE.
- GRAVEL SHALL BE 1.5 INCHES THICK WITH 1.5 INCHES MAXIMUM SIZE AGGREGATE.
- EXISTING UTILITIES SHALL BE MAINTAINED UNLESS OTHERWISE SPECIFIED.
- PROPOSED UTILITIES SHALL BE INSTALLED AS SHOWN.
- SEE ADDITIONAL PLANS FOR CONCRETE JOINTS, REINFORCEMENT AND OTHER DETAILS.
- ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE CITY OF PORTLAND SPECIFICATIONS AND STANDARDS.

TRAFFIC REGULATORY SIGNS

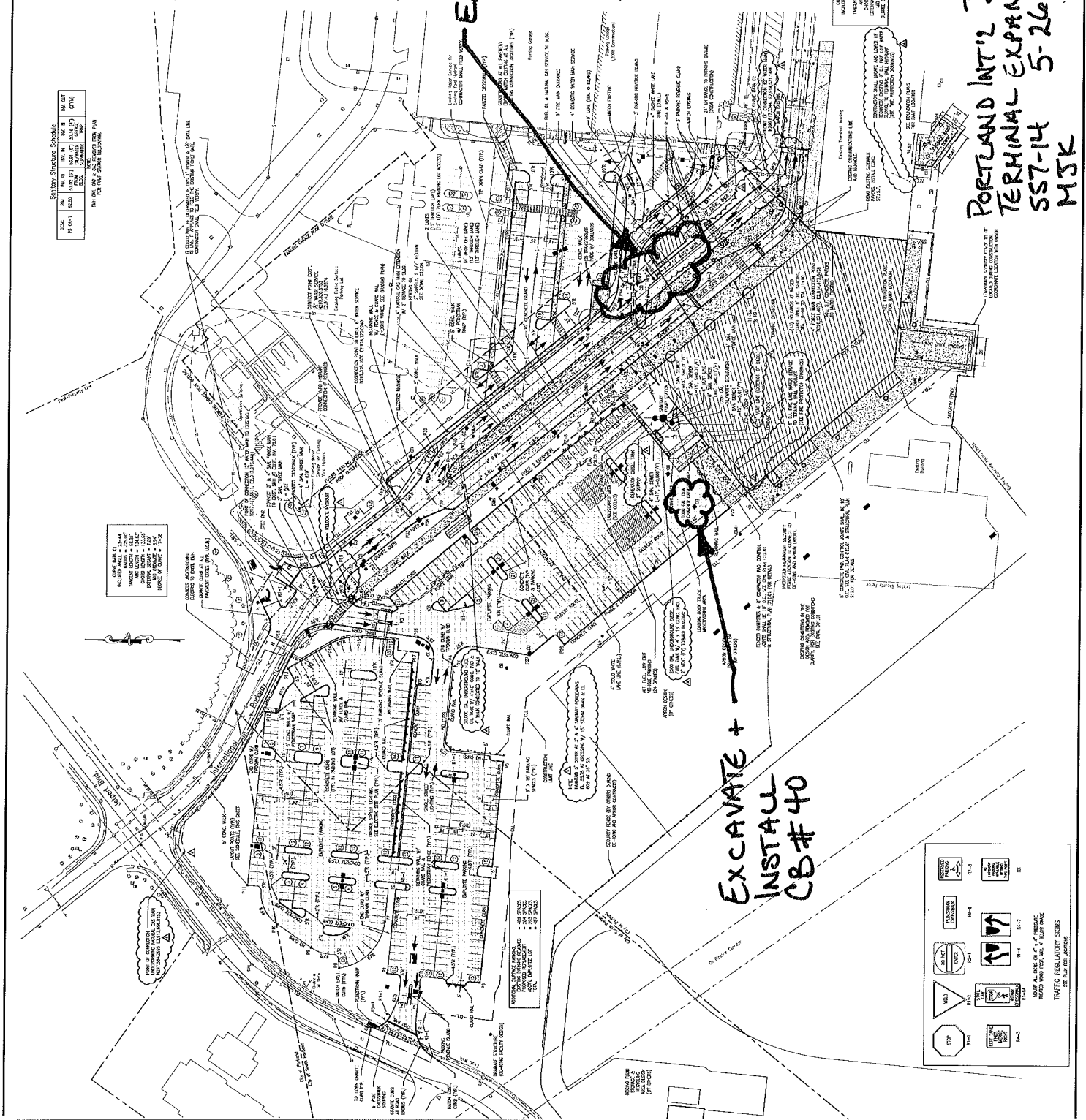
Symbol	Description
1	STOP
2	YIELD
3	NO LEFT TURN
4	NO RIGHT TURN
5	ONE WAY
6	NO PARKING
7	NO STOPPING
8	NO TRUCKS
9	NO TRUCKS OVER 10,000 LBS
10	NO TRUCKS OVER 10,000 LBS AND 16 FEET HIGH
11	NO TRUCKS OVER 10,000 LBS AND 16 FEET HIGH AND 8 FEET WIDE
12	NO TRUCKS OVER 10,000 LBS AND 16 FEET HIGH AND 8 FEET WIDE AND 12 FEET LONG
13	NO TRUCKS OVER 10,000 LBS AND 16 FEET HIGH AND 8 FEET WIDE AND 12 FEET LONG AND 8 FEET HIGH
14	NO TRUCKS OVER 10,000 LBS AND 16 FEET HIGH AND 8 FEET WIDE AND 12 FEET LONG AND 8 FEET HIGH AND 8 FEET WIDE
15	NO TRUCKS OVER 10,000 LBS AND 16 FEET HIGH AND 8 FEET WIDE AND 12 FEET LONG AND 8 FEET HIGH AND 8 FEET WIDE AND 8 FEET HIGH
16	NO TRUCKS OVER 10,000 LBS AND 16 FEET HIGH AND 8 FEET WIDE AND 12 FEET LONG AND 8 FEET HIGH AND 8 FEET WIDE AND 8 FEET HIGH AND 8 FEET WIDE
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C02.01

**PORTLAND INT'L JETPORT
TERMINAL EXPANSION
SS7-14 5-26-2010
MSK**

EXCAVATION

**EXCAVATE +
INSTALL
CB # 40**

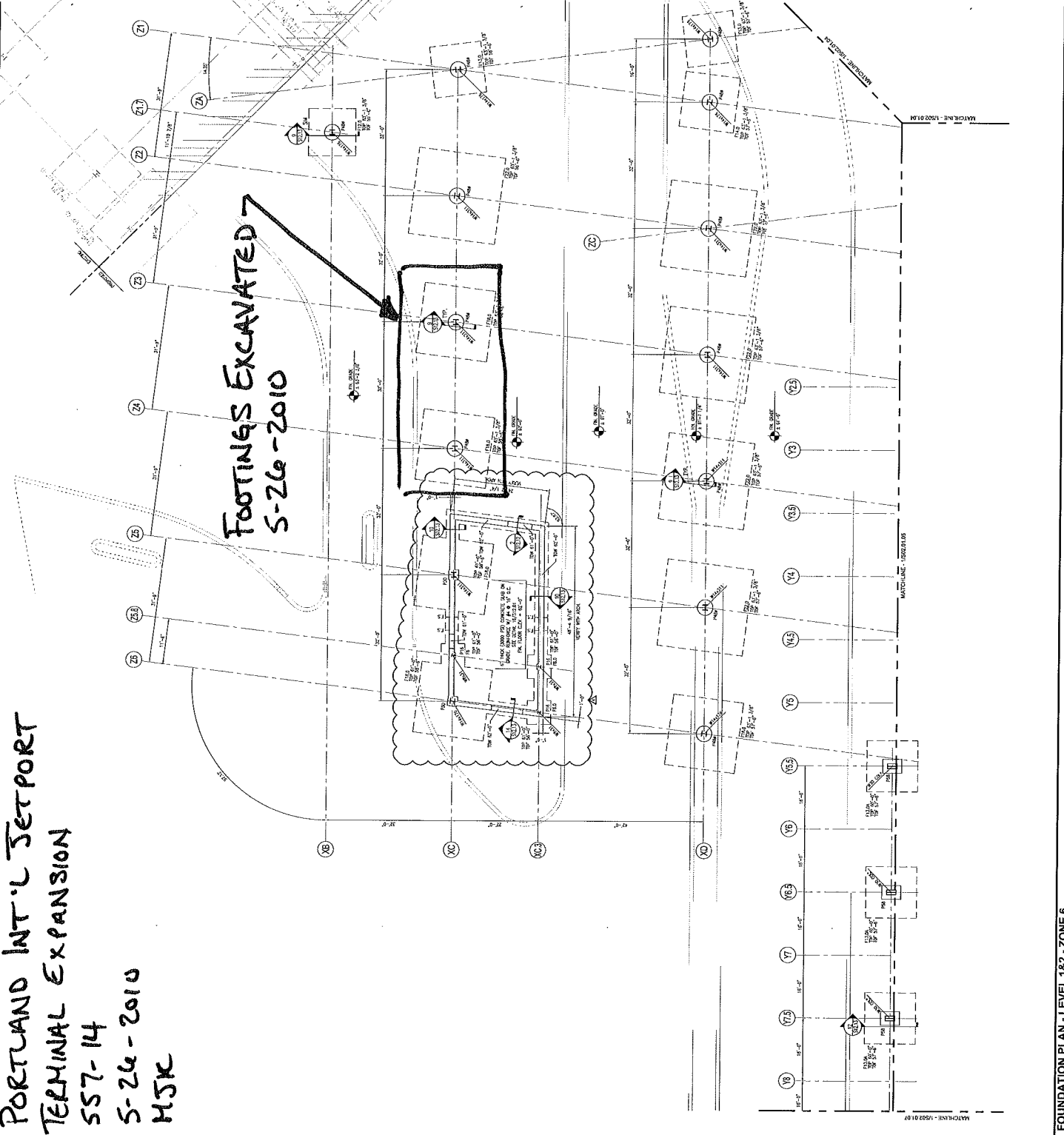


PORTLAND INT'L JETPORT
 TERMINAL EXPANSION
 S57-14
 S-26-2010
 HSK

Portland International
 Jetport
 1001 Westbrook Street
 Portland, Maine 04102

Gensler
west ASSOCIATES, INC.
 engineers, architects, interior designers, construction managers

SHEET NOTES
 1. VERIFY EXISTING CONDITIONS AND RECORD AS SHOWN ON SHEET S57-14.
 2. VERIFY ALL DIMENSIONS AND LOCATIONS OF EXISTING FOUNDATION WALLS AND FOOTINGS.
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GENERAL NOTES
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 10. VERIFY ALL DIMENSIONS AND LOCATIONS OF EXISTING FOUNDATION WALLS AND FOOTINGS.

KEY PLAN

Scale: 1/8" = 1'-0"
S02.01.06
 FOUNDATION PLAN - LEVEL 1&2 - ZONE 6

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: 5/27/2010
 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
11151	3" Minus Type D Material	133.0	7.3

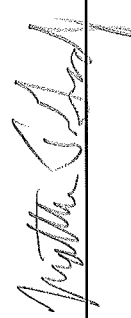
Report Issue Date:

Test No.	Location	Elevation	ASTM D6938 Dry Density (pcf)	ASTM D6938 Water Content (%)	Percent of Max. (%)	Lab. No.
1	15' South of CB #40 above drain line	FG -2'	106.1	3	96	11194
2	15' North of CB #40 above drain line	FG -2'	105.6	2	95	11194
3	Northwest side of footing @ XD/Z6	TOF -1'	128.4	4	97	11151
4	Southwestside of footing @ XD/Z5	TOF -1'	126.9	7	95	11151
5	XD/ half way between Z4 and Z5	TOF -1'	129.3	7	97	11151
6	XD/ half way between Z5 and Z6	TOF -1'	127.6	5	96	11151
7	XD/ half way between Z3 and Z4	TOF -1'	131.6	5	99	11151
8	XD/ half way between Z2 and Z3	TOF -1'	135.8	5	100+	11151
9	XD/ half way between Z4 and Z5	TOF	126.2	4	95	11151
10	XD/ half way between Z5 and Z6	TOF	127.1	4	96	11151
11	15' North of CB OA-34 above drain line	FG -1'	105.7	3	95	11194
12	Northwest side of footing @ XD/Z6	TOF	129.2	4	97	11151

Remarks:

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
 TOP = Top of Pipe
 TOF = Top of Footing

Checked by: 

SUMMARY OF IN-PLACE DENSITIES - ASTM D6938
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PORTLAND, MAINE
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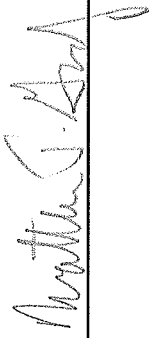
Report Issue Date:

Test No.	Location	Elevation	ASTM D6938 Dry Density (pcf)	ASTM D6938 Water Content (%)	Percent of Max. (%)	Lab. No.
13	Southeast side of footing @ XD/Z2	TOF -1'	127.1	3	96	11151
14	XD/ halfway between Z3 and Z4	TOF	128.3	4	97	11151
15	Southwest side of footing @ XD/Z5	TOF +1'	127.6	4	96	11151
16	Northwest side of footing @ XD/Z6	TOF +1'	128.3	4	97	11151
17	25' North of CB OA-34 above drain line	FG -1'	126.0	2	95	11194

Remarks:

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Checked by: 

PORTLAND INTERNATIONAL JETPORT
TERMINAL EXPANSION PROJECT
PROJECT NO. 557-14
DATE: 5/27/2010
TECHNOLOGIST: MSK

Excavation Schedule Schedule

NO.	DESCRIPTION	DATE	STATUS
1	Excavate for concrete footings	05/27/10	Completed
2	Excavate for concrete footings	05/27/10	Completed
3	Excavate for concrete footings	05/27/10	Completed
4	Excavate for concrete footings	05/27/10	Completed
5	Excavate for concrete footings	05/27/10	Completed
6	Excavate for concrete footings	05/27/10	Completed
7	Excavate for concrete footings	05/27/10	Completed
8	Excavate for concrete footings	05/27/10	Completed
9	Excavate for concrete footings	05/27/10	Completed
10	Excavate for concrete footings	05/27/10	Completed
11	Excavate for concrete footings	05/27/10	Completed
12	Excavate for concrete footings	05/27/10	Completed
13	Excavate for concrete footings	05/27/10	Completed
14	Excavate for concrete footings	05/27/10	Completed
15	Excavate for concrete footings	05/27/10	Completed
16	Excavate for concrete footings	05/27/10	Completed
17	Excavate for concrete footings	05/27/10	Completed
18	Excavate for concrete footings	05/27/10	Completed
19	Excavate for concrete footings	05/27/10	Completed
20	Excavate for concrete footings	05/27/10	Completed
21	Excavate for concrete footings	05/27/10	Completed
22	Excavate for concrete footings	05/27/10	Completed
23	Excavate for concrete footings	05/27/10	Completed
24	Excavate for concrete footings	05/27/10	Completed
25	Excavate for concrete footings	05/27/10	Completed
26	Excavate for concrete footings	05/27/10	Completed
27	Excavate for concrete footings	05/27/10	Completed
28	Excavate for concrete footings	05/27/10	Completed
29	Excavate for concrete footings	05/27/10	Completed
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31	Excavate for concrete footings	05/27/10	Completed
32	Excavate for concrete footings	05/27/10	Completed
33	Excavate for concrete footings	05/27/10	Completed
34	Excavate for concrete footings	05/27/10	Completed
35	Excavate for concrete footings	05/27/10	Completed
36	Excavate for concrete footings	05/27/10	Completed
37	Excavate for concrete footings	05/27/10	Completed
38	Excavate for concrete footings	05/27/10	Completed
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44	Excavate for concrete footings	05/27/10	Completed
45	Excavate for concrete footings	05/27/10	Completed
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47	Excavate for concrete footings	05/27/10	Completed
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49	Excavate for concrete footings	05/27/10	Completed
50	Excavate for concrete footings	05/27/10	Completed

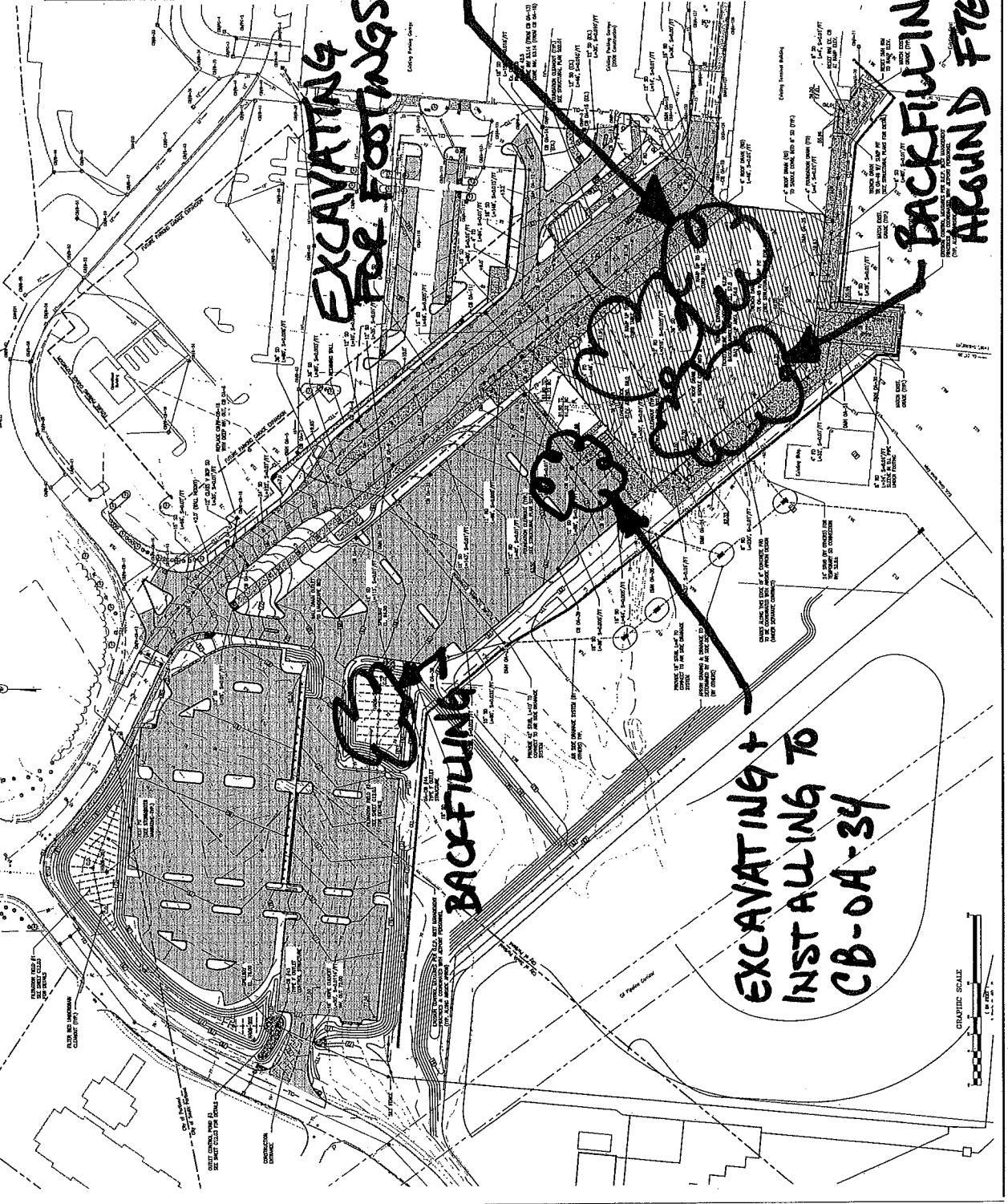
CONC. PLACED

GENERAL NOTES

1. EXCAVATION SHALL BE TO THE FINISHED GRADE UNLESS OTHERWISE NOTED.
2. EXCAVATION SHALL BE TO THE FINISHED GRADE UNLESS OTHERWISE NOTED.
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19. EXCAVATION SHALL BE TO THE FINISHED GRADE UNLESS OTHERWISE NOTED.
20. EXCAVATION SHALL BE TO THE FINISHED GRADE UNLESS OTHERWISE NOTED.

DATE: 05/27/10
DRAWN BY: MSK
CHECKED BY: MSK
PROJECT NO. 557-14
SHEET NO. 10 OF 10
SCALE: AS SHOWN
CONTRACT NO. 557-14
SHEET TITLE: EXCAVATION & BACKFILLING PLAN

C02.02



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 TERMINAL ENHANCEMENT AT THE PORTLAND INTERNATIONAL AIRPORT
 PORTLAND, MAINE
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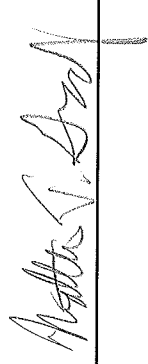
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1	10' from CB #40 Toward CB OA-39 Over drain line	FG -1'	104.9	2	95	11194
2	30' from CB #40 Toward CB OA-39 Over drain line	FG -1'	106.5	4	96	11194
3	50' from CB #40 Toward CB OA-39 Over drain line	FG -1'	107.6	3	97	11194
4	XD/ halfway between Z3 & Z4	TOF	126.9	4	96	11151
5	XD/Z5 East side	ToF +1'	128.3	4	97	11151
6	XD/Z4 East side	ToF +1'	128.6	4	97	11151
7	XD/Z2 Southwest corner	TOF	126.7	3	95	11151
8	XD/North corner @ Z3	TOF +1'	132.5	4	100	11151
9	XD/ halfway between Z2 & Z3	TOF	128.3	4	97	11151
10	XD/Z2 East side	TOF	125.8	4	95	11151
11	North side of CB OA-39	Top of MH -1'	105.4	3	95	11194
12	North side of CB OA-39	Top of MH	105.5	2	95	11194

Remarks:

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
 TOP = Top of Pipe
 TOF = Top of Footing

Checked by:



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

Client: City of Portland
 Test Date: 5/28/2010
 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
11151	3" Minus Type D Material	133.0	7.3

Report Issue Date:

Test No.	Location	Elevation	ASTM D6938 Dry Density (pcf)	ASTM D6938 Water Content (%)	Percent of Max. (%)	Lab. No.
13	XD/Z2 East corner	TOF +1'	126.9	3	96	11151
14	XD/Z2 West corner	TOF +1'	126.4	4	95	11151

Remarks:

- FG = Finish Grade
- FF = Finish Floor
- FGFB = 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
- TOP = Top of Pipe
- TOF = Top of Footing

Checked by: 

Portland International
Jetport
1001 Westbrook Street
Portland, Maine 04102

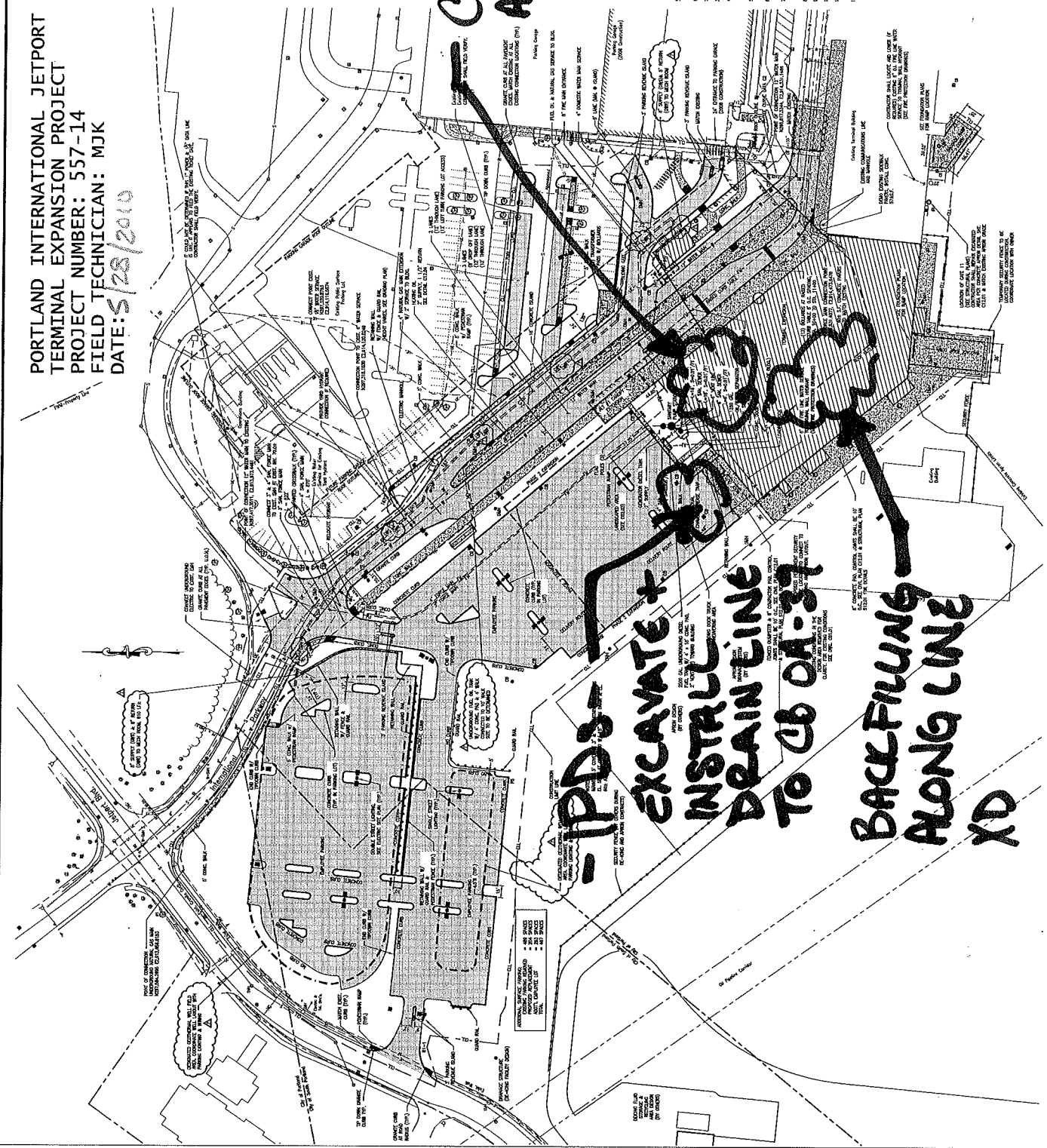
Gensler
nest ASSOCIATES, INC.
engineer-architect-landscape-urban-planner

2001 Main Street
Suite 100
Portland, ME 04102
Phone: 603.763.2200
Fax: 603.763.2200

SHEET NOTES

PORTLAND INTERNATIONAL JETPORT
TERMINAL EXPANSION PROJECT
PROJECT NUMBER: 557-14
FIELD TECHNICIAN: MJK
DATE: 5/28/2010

**CONC. PLACED
AS FININGS**



GENERAL NOTES

- SCOPE DELINEATION AND GENERAL WORK SCHEDULES
1. SEE CONSTRUCTION FOR CURB, GRASS AND SCHEDULED DRAINAGE.
 2. SEE DETAILS FOR FINISH GRADE TO BE CONCRETE IN ORDER TO RECEIVE CURB, SEE CB OA-37 FOR DETAILS.
 3. SEE DETAILS FOR FINISH GRADE TO BE CONCRETE IN ORDER TO RECEIVE CURB, SEE CB OA-37 FOR DETAILS.
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Project Number: 557-14
Sheet Number: C02.01.GTDWG
Scale: 1" = 40'
Date: 5/28/2010
Author: MJK
Checked: [Signature]
Approved: [Signature]