

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:      | 20 Sept 2010   | Project No.: | 557-14 |
| Attention: | Mr. Cuyler Feagles (cmf@portlandmaine.gov)   |              |        |
| Re:        | In-Place Density Testing<br>Terminal Enhancement, Portland Int. Jetport<br>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:

August 30 - September 3, 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  
 Mike Fusco: mfusco@tcco.com  
 Shaun Winner: swinner@tcco.com  
 Elizabeth O'Toole: eotoole@tcco.com  
 TMM@portlandmaine.gove  
 ldobson@portlandmaine.gov  
 bcybulski@tcco.com  
 rdixon@tcco.com  
 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

|         |                  |                           |                             |
|---------|------------------|---------------------------|-----------------------------|
| Lab No. | Soil Description | ASTM D1557<br>Max Density | ASTM D1557<br>Opt. Moisture |
| 11175   | Type D Gravel    | 129.8                     | 8.4                         |

Client: City of Portland  
 Test Date: 8/30/2010  
 Technician: MJK  
 Gauge Model/Serial Number: L 500

Report Issue Date: **SEP 3 0 2010**

| Test No. | Location                  | Elevation | ASTM D6938<br>Dry Density<br>(pcf) | ASTM D6938<br>Water Content<br>(%) | Percent of Max.<br>(%) | Lab. No. |
|----------|---------------------------|-----------|------------------------------------|------------------------------------|------------------------|----------|
| 1        | XL/ Inside Y8             | TOW -3.5' | 123.4                              | 4                                  | 95                     | 11175    |
| 2        | Dock Lever Pit/ Inside Y8 | TOW -3.5' | 122.9                              | 3                                  | 95                     | 11175    |

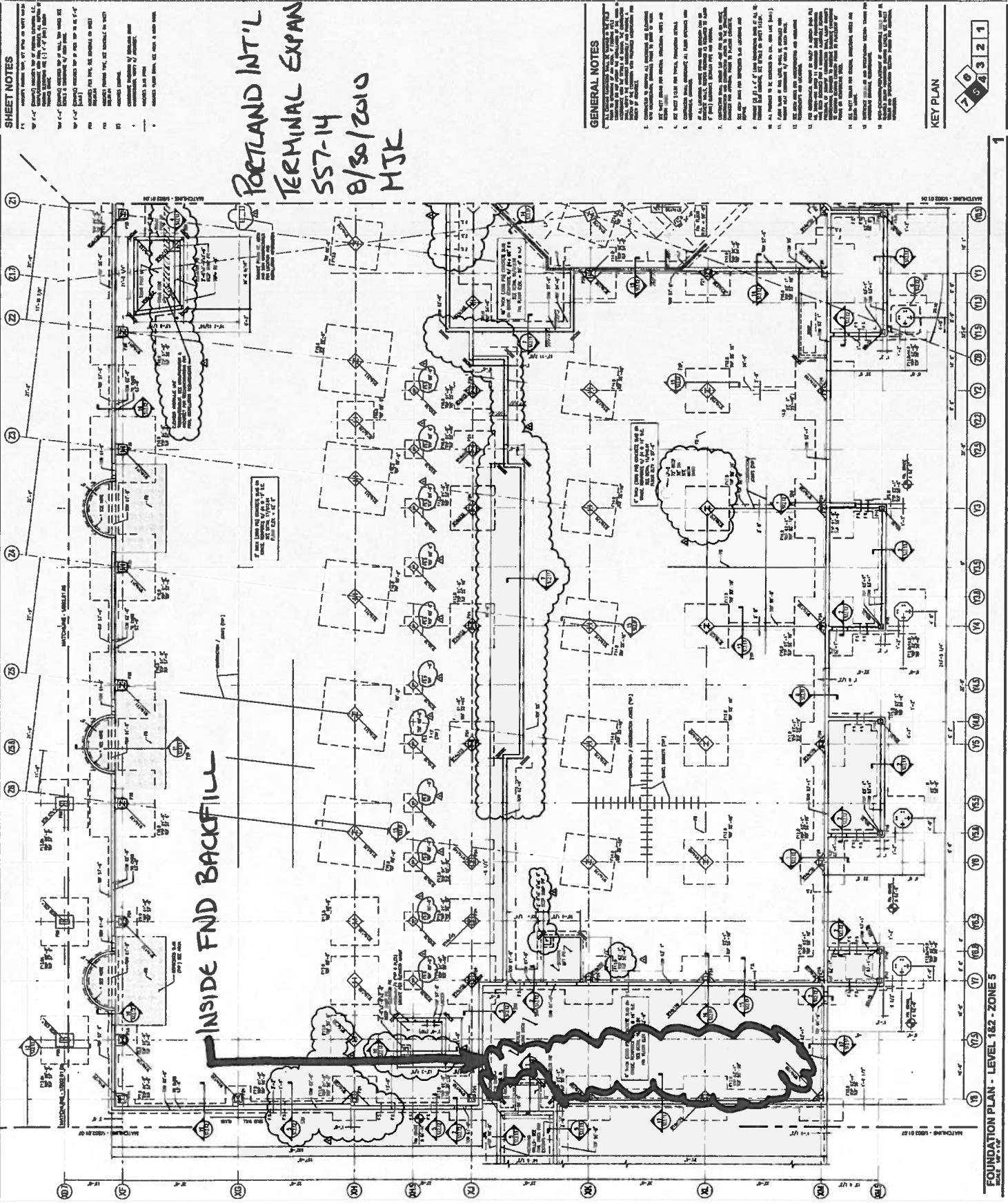
Remarks:

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  
 BOW = Bottom of Wall  
 BOF = Bottom of Footing  
 SG = Subgrade

Checked by: *Arthur J. Goff*

1PD



**SHEET NOTES**

1. REFER TO SHEET 1001 FOR THE REST OF THE SHEET.
2. ALL DIMENSIONS ARE IN FEET AND INCHES UNLESS OTHERWISE NOTED.
3. ALL DIMENSIONS ARE TO FACE UNLESS OTHERWISE NOTED.
4. ALL DIMENSIONS ARE TO CENTERLINE UNLESS OTHERWISE NOTED.
5. ALL DIMENSIONS ARE TO CENTERLINE UNLESS OTHERWISE NOTED.
6. ALL DIMENSIONS ARE TO CENTERLINE UNLESS OTHERWISE NOTED.
7. ALL DIMENSIONS ARE TO CENTERLINE UNLESS OTHERWISE NOTED.
8. ALL DIMENSIONS ARE TO CENTERLINE UNLESS OTHERWISE NOTED.
9. ALL DIMENSIONS ARE TO CENTERLINE UNLESS OTHERWISE NOTED.
10. ALL DIMENSIONS ARE TO CENTERLINE UNLESS OTHERWISE NOTED.
11. ALL DIMENSIONS ARE TO CENTERLINE UNLESS OTHERWISE NOTED.
12. ALL DIMENSIONS ARE TO CENTERLINE UNLESS OTHERWISE NOTED.
13. ALL DIMENSIONS ARE TO CENTERLINE UNLESS OTHERWISE NOTED.
14. ALL DIMENSIONS ARE TO CENTERLINE UNLESS OTHERWISE NOTED.
15. ALL DIMENSIONS ARE TO CENTERLINE UNLESS OTHERWISE NOTED.
16. ALL DIMENSIONS ARE TO CENTERLINE UNLESS OTHERWISE NOTED.
17. ALL DIMENSIONS ARE TO CENTERLINE UNLESS OTHERWISE NOTED.
18. ALL DIMENSIONS ARE TO CENTERLINE UNLESS OTHERWISE NOTED.
19. ALL DIMENSIONS ARE TO CENTERLINE UNLESS OTHERWISE NOTED.
20. ALL DIMENSIONS ARE TO CENTERLINE UNLESS OTHERWISE NOTED.
21. ALL DIMENSIONS ARE TO CENTERLINE UNLESS OTHERWISE NOTED.
22. ALL DIMENSIONS ARE TO CENTERLINE UNLESS OTHERWISE NOTED.
23. ALL DIMENSIONS ARE TO CENTERLINE UNLESS OTHERWISE NOTED.
24. ALL DIMENSIONS ARE TO CENTERLINE UNLESS OTHERWISE NOTED.

PORTLAND INT'L SETPOINT  
 TERMINAL EXPANSION  
 SS7-14  
 8/30/2010  
 HJK

Portland International  
 Jetport  
 1001 Westwood Street  
 Portland, Maine 04102

Gensler  
 Gensler Associates, Inc.  
 1000 Broadway  
 New York, NY 10018  
 Phone: 212.512.2000  
 Fax: 212.512.2001

**GENERAL NOTES**

1. ALL DIMENSIONS ARE IN FEET AND INCHES UNLESS OTHERWISE NOTED.
2. ALL DIMENSIONS ARE TO FACE UNLESS OTHERWISE NOTED.
3. ALL DIMENSIONS ARE TO CENTERLINE UNLESS OTHERWISE NOTED.
4. ALL DIMENSIONS ARE TO CENTERLINE UNLESS OTHERWISE NOTED.
5. ALL DIMENSIONS ARE TO CENTERLINE UNLESS OTHERWISE NOTED.
6. ALL DIMENSIONS ARE TO CENTERLINE UNLESS OTHERWISE NOTED.
7. ALL DIMENSIONS ARE TO CENTERLINE UNLESS OTHERWISE NOTED.
8. ALL DIMENSIONS ARE TO CENTERLINE UNLESS OTHERWISE NOTED.
9. ALL DIMENSIONS ARE TO CENTERLINE UNLESS OTHERWISE NOTED.
10. ALL DIMENSIONS ARE TO CENTERLINE UNLESS OTHERWISE NOTED.
11. ALL DIMENSIONS ARE TO CENTERLINE UNLESS OTHERWISE NOTED.
12. ALL DIMENSIONS ARE TO CENTERLINE UNLESS OTHERWISE NOTED.
13. ALL DIMENSIONS ARE TO CENTERLINE UNLESS OTHERWISE NOTED.
14. ALL DIMENSIONS ARE TO CENTERLINE UNLESS OTHERWISE NOTED.
15. ALL DIMENSIONS ARE TO CENTERLINE UNLESS OTHERWISE NOTED.
16. ALL DIMENSIONS ARE TO CENTERLINE UNLESS OTHERWISE NOTED.
17. ALL DIMENSIONS ARE TO CENTERLINE UNLESS OTHERWISE NOTED.
18. ALL DIMENSIONS ARE TO CENTERLINE UNLESS OTHERWISE NOTED.
19. ALL DIMENSIONS ARE TO CENTERLINE UNLESS OTHERWISE NOTED.
20. ALL DIMENSIONS ARE TO CENTERLINE UNLESS OTHERWISE NOTED.
21. ALL DIMENSIONS ARE TO CENTERLINE UNLESS OTHERWISE NOTED.
22. ALL DIMENSIONS ARE TO CENTERLINE UNLESS OTHERWISE NOTED.
23. ALL DIMENSIONS ARE TO CENTERLINE UNLESS OTHERWISE NOTED.
24. ALL DIMENSIONS ARE TO CENTERLINE UNLESS OTHERWISE NOTED.

**KEY PLAN**

1001 WESTWOOD STREET  
 PORTLAND, MAINE 04102  
 TEL: 212.512.2000  
 FAX: 212.512.2001

Scale: 1/4" = 1'-0"

S02.01.05

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: 8/31/2010  
 Technician: MJK  
 Gauge Model/Serial Number: L 500

| Lab No. | Soil Description   | ASTM D1557<br>Max Density | ASTM D1557<br>Opt. Moisture |
|---------|--------------------|---------------------------|-----------------------------|
| 11194   | Poorly Graded Sand | 111.0                     | 11.4                        |

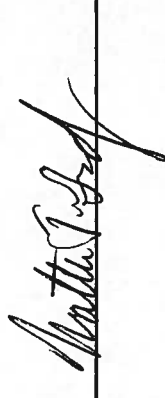
Report Issue Date: **SEP 3 0 2010**

| Test No. | Location                               | Elevation | ASTM D6938<br>Dry Density<br>(pcf) | ASTM D6938<br>Water Content<br>(%) | Percent of Max.<br>(%) | Lab. No. |
|----------|--|-----------|------------------------------------|------------------------------------|------------------------|----------|
| 1        | West side of Oil Trap                  | 59.00     | 109.2                              | 3                                  | 98                     | 11194    |
| 2        | 6" Fire line at bend under parking lot | FG -4'    | 101.9                              | 3                                  | 92                     | 11194    |

Remarks: All tests showing less than 95% compaction are located at least 3' below finished grade under paved areas and only require 92% compaction

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  
 BOW = Bottom of Wall  
 BOF = Bottom of Footing  
 SG = Subgrade

Checked by: 

IPDs

SHEET NOTES

**Local Conditions** Consider the following conditions in the design of the project:

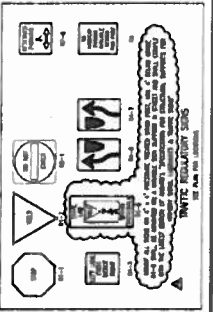
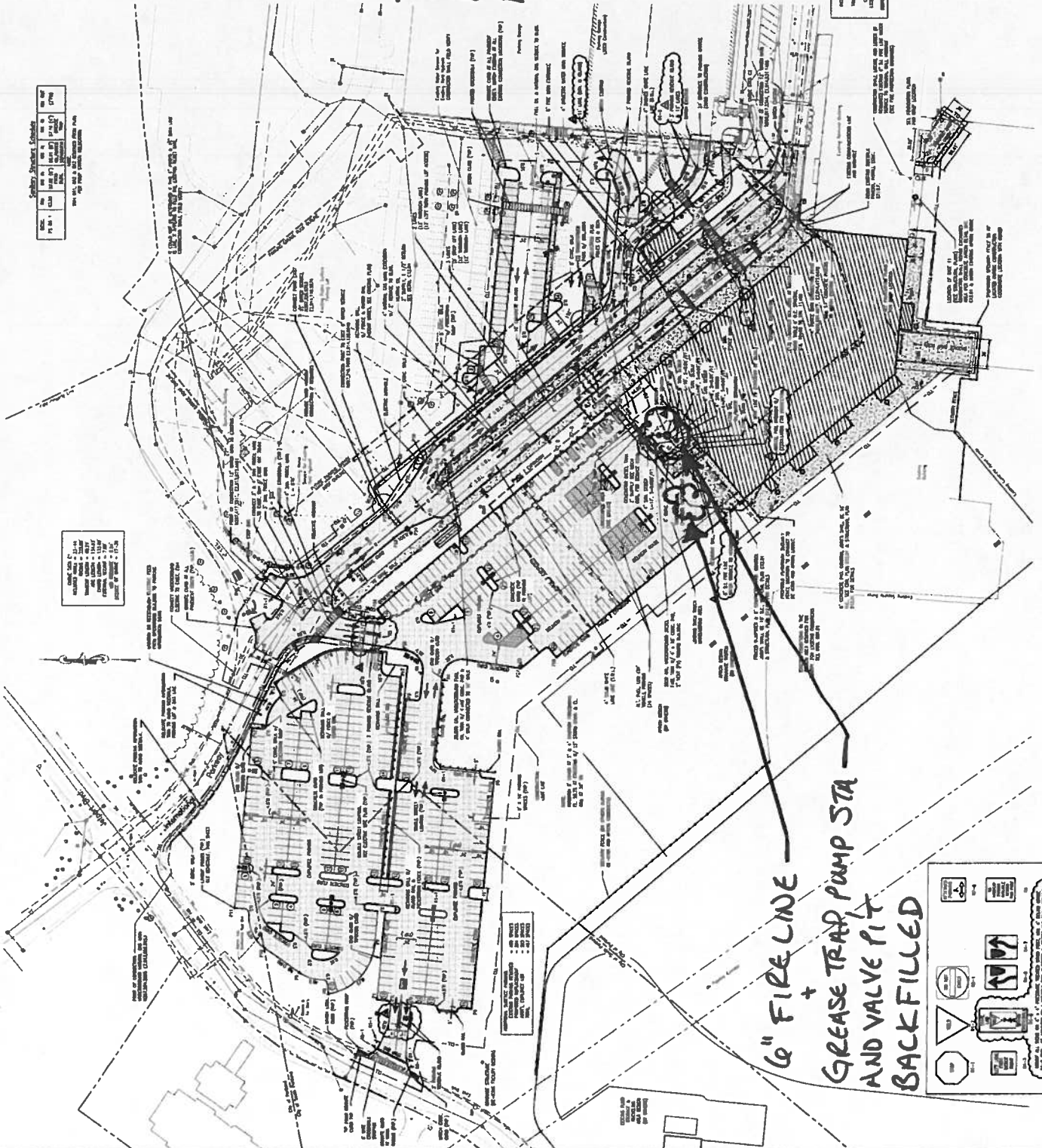
|                      |                       |                           |                               |
|----------------------|-----------------------|---------------------------|-------------------------------|
| 1. SOILS             | 2. FOUNDATIONS        | 3. CLIMATE                | 4. SEISMICITY                 |
| 5. VEGETATION        | 6. ADJACENT BUILDINGS | 7. UTILITIES              | 8. SURFACE WATER              |
| 9. GROUNDWATER       | 10. AIR QUALITY       | 11. NOISE                 | 12. HISTORIC PRESERVATION     |
| 13. PUBLIC UTILITIES | 14. TRAFFIC           | 15. ACCESSIBILITY         | 16. ENVIRONMENTAL REGULATIONS |
| 17. ZONING           | 18. LAND USE          | 19. COMMUNITY DEVELOPMENT | 20. OTHER                     |

**Utility Schedule**

|          |          |        |              |             |
|----------|----------|--------|--------------|-------------|
| NO. 1    | NO. 2    | NO. 3  | NO. 4        | NO. 5       |
| 1. WATER | 2. SEWER | 3. GAS | 4. TELEPHONE | 5. CABLE TV |

**Legend**

|             |             |                     |
|-------------|-------------|---------------------|
| 1. EXISTING | 2. NEW      | 3. PROPOSED         |
| 4. REMOVED  | 5. AS SHOWN | 6. TO BE DETERMINED |



**6" FIRELINE  
+  
GREASE TRAP PUMP STA  
AND VALVE PIT  
BACK FILLED**

GENERAL NOTES

1. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE LATEST EDITIONS OF THE INTERNATIONAL BUILDING CODE (IBC) AND THE NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) CODES.
2. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE LATEST EDITIONS OF THE INTERNATIONAL MECHANICAL HANDBOOK (IMH) AND THE NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) CODES.
3. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE LATEST EDITIONS OF THE INTERNATIONAL ELECTRICAL HANDBOOK (IEH) AND THE NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) CODES.
4. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE LATEST EDITIONS OF THE INTERNATIONAL PIPELINES HANDBOOK (IPH) AND THE NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) CODES.
5. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE LATEST EDITIONS OF THE INTERNATIONAL ROADS AND HIGHWAYS HANDBOOK (IRH) AND THE NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) CODES.
6. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE LATEST EDITIONS OF THE INTERNATIONAL TRANSPORTATION HANDBOOK (ITH) AND THE NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) CODES.
7. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE LATEST EDITIONS OF THE INTERNATIONAL AIRPORTS HANDBOOK (IAH) AND THE NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) CODES.



C02.01

**Portland International  
Jetport**  
1001 Westbrook Street  
Portland, Maine 04112

**Gensler**  
**nest ASSOCIATES, INC.**  
ARCHITECTS • ENGINEERS • PLANNERS • CONSULTANTS

**PORTLAND INT'L JETPORT  
TERMINAL EXPANSION**  
557-14  
8/31/2010  
MSK

**REVISIONS**

|     |         |                      |
|-----|---------|----------------------|
| NO. | DATE    | DESCRIPTION          |
| 1   | 8/31/10 | ISSUE FOR PERMITTING |
| 2   | 8/31/10 | ISSUE FOR PERMITTING |
| 3   | 8/31/10 | ISSUE FOR PERMITTING |
| 4   | 8/31/10 | ISSUE FOR PERMITTING |
| 5   | 8/31/10 | ISSUE FOR PERMITTING |
| 6   | 8/31/10 | ISSUE FOR PERMITTING |
| 7   | 8/31/10 | ISSUE FOR PERMITTING |
| 8   | 8/31/10 | ISSUE FOR PERMITTING |
| 9   | 8/31/10 | ISSUE FOR PERMITTING |
| 10  | 8/31/10 | ISSUE FOR PERMITTING |



**MEINER STATE BOARD OF PROFESSIONAL ENGINEERS AND SURVEYORS**  
REGISTERED PROFESSIONAL ENGINEER  
STATE OF MAINE  
NO. 12345  
DATE: 8/31/2010

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: September 1, 2010  
 Technician: Erik Cohenour  
 Gauge Model/Serial Number: L500  
**SEP 3 0 2010**  
 Report Issue Date:

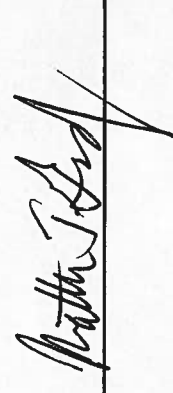
| Lab No. | Soil Description   | ASTM D1557<br>Max Density | ASTM D1557<br>Opt. Moisture |
|---------|--------------------|---------------------------|-----------------------------|
| 11194   | Poorly graded sand | 111.0                     | 11                          |
| 11175   | Type D gravel      | 129.8                     | 8                           |

| Test No. | Location         | Elevation | ASTM D6938<br>Dry Density<br>(pcf) | ASTM D6938<br>Water Content<br>(%) | Percent of Max.<br>(%) | Lab.<br>No. |
|----------|------------------|-----------|------------------------------------|------------------------------------|------------------------|-------------|
| 1        | Waterline trench | 2nd lift  | 104.0                              | 3                                  | 94                     | 11194       |
| 2        | Waterline trench | 1st lift  | 99.7                               | 4                                  | 90*                    | 11194       |
| 3        | Retest of 2      | 1st lift  | 102.7                              | 4                                  | 93                     | 11194       |
| 4        | Pier in road     | 2nd lift  | 129.8                              | 4                                  | 100                    | 11175       |
| 5        | Pier in road     | 1st lift  | 126.8                              | 3                                  | 98                     | 11175       |
| 9        | Pier in road     | Top       | 123.1                              | 4                                  | 95                     | 11175       |

Remarks: \* test failed to meet the minimum 92% of Maximum Density.

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

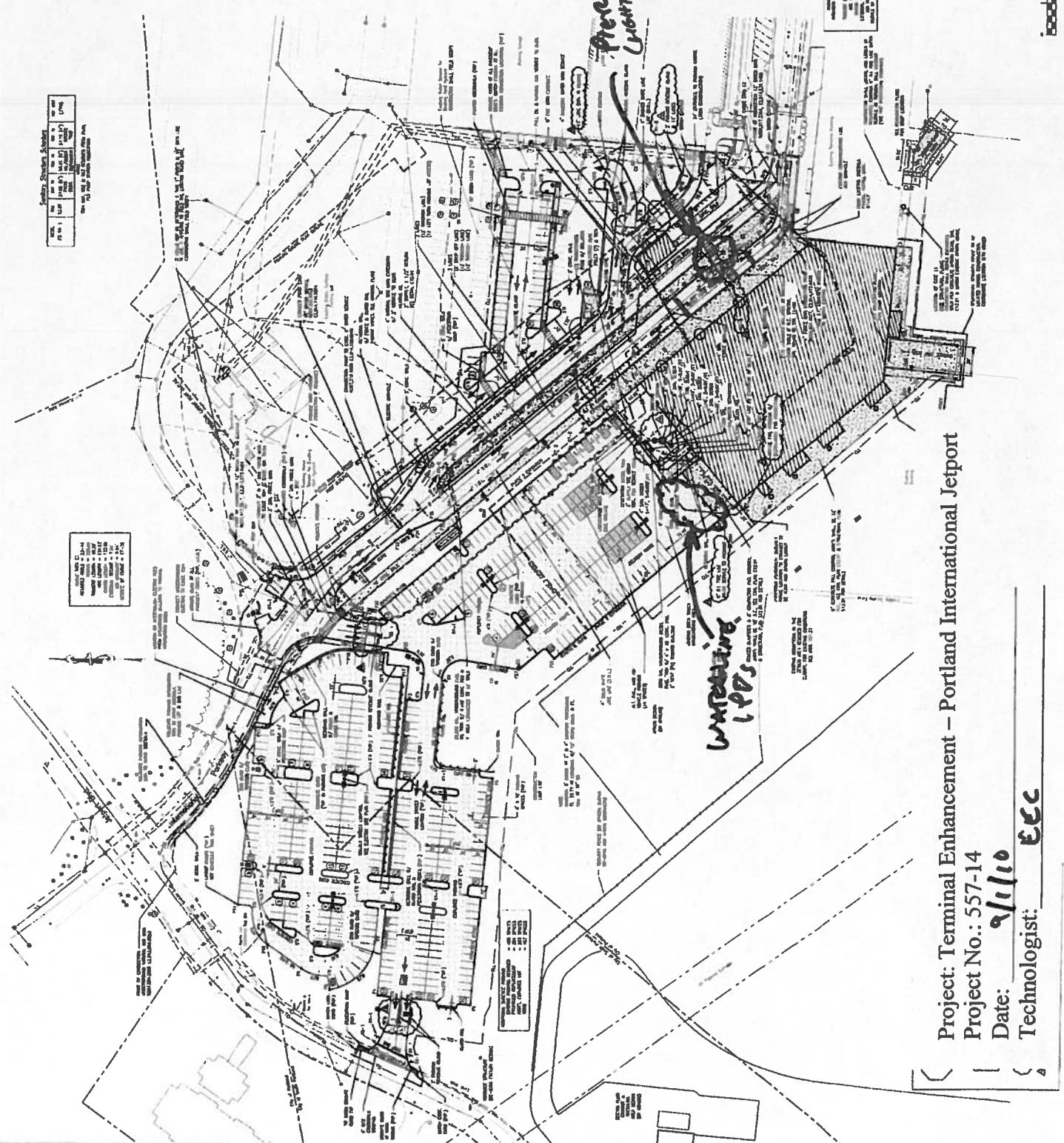
Checked by: 



**SHEET NOTES**

**Legend - Symbols - Schedule**

|   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |     |
|---|---|---|---|---|---|---|---|---|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|-----|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 | 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 | 49 | 50 | 51 | 52 | 53 | 54 | 55 | 56 | 57 | 58 | 59 | 60 | 61 | 62 | 63 | 64 | 65 | 66 | 67 | 68 | 69 | 70 | 71 | 72 | 73 | 74 | 75 | 76 | 77 | 78 | 79 | 80 | 81 | 82 | 83 | 84 | 85 | 86 | 87 | 88 | 89 | 90 | 91 | 92 | 93 | 94 | 95 | 96 | 97 | 98 | 99 | 100 |
|---|---|---|---|---|---|---|---|---|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|-----|



Project: Terminal Enhancement - Portland International Jetport  
 Project No.: 557-14  
 Date: 9/1/10  
 Technologist: ECC



**Portland International Jetport**  
 1001 Westowne Street  
 Portland, Maine 04112

**Gensler**  
 1000 Massachusetts Avenue  
 Boston, MA 02115  
 Phone: 617.452.5000  
 Fax: 617.452.5001  
 www.gensler.com

**mest ASSOCIATES, INC.**  
 1000 Broadway  
 Portland, ME 04102  
 Phone: 603.761.1000  
 Fax: 603.761.1001  
 www.mest.com

**GENERAL NOTES**

1. ALL DIMENSIONS UNLESS OTHERWISE NOTED ARE IN FEET AND INCHES.
2. ALL DIMENSIONS SHALL BE TO THE CENTERLINE UNLESS OTHERWISE NOTED.
3. ALL DIMENSIONS SHALL BE TO THE FACE UNLESS OTHERWISE NOTED.
4. ALL DIMENSIONS SHALL BE TO THE CENTERLINE UNLESS OTHERWISE NOTED.
5. ALL DIMENSIONS SHALL BE TO THE FACE UNLESS OTHERWISE NOTED.
6. ALL DIMENSIONS SHALL BE TO THE CENTERLINE UNLESS OTHERWISE NOTED.
7. ALL DIMENSIONS SHALL BE TO THE FACE UNLESS OTHERWISE NOTED.
8. ALL DIMENSIONS SHALL BE TO THE CENTERLINE UNLESS OTHERWISE NOTED.
9. ALL DIMENSIONS SHALL BE TO THE FACE UNLESS OTHERWISE NOTED.
10. ALL DIMENSIONS SHALL BE TO THE CENTERLINE UNLESS OTHERWISE NOTED.



Scale: 1" = 10'-0"  
 Date: 9/1/10  
 Project: 557-14  
 Sheet: C02.01

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: 9/2/2010  
 Technician: MJK  
 Gauge Model/Serial Number: L 500

| Lab No. | Soil Description   | ASTM D1557<br>Max Density | ASTM D1557<br>Opt. Moisture |
|---------|--------------------|---------------------------|-----------------------------|
| 11194   | Poorly Graded Sand | 111.0                     | 11.4                        |


Report Issue Date: **SEP 3 0 2010**

| Test No. | Location             | Elevation | ASTM D6938<br>Dry Density<br>(pcf) | ASTM D6938<br>Water Content<br>(%) | Percent of Max.<br>(%) | Lab. No. |
|----------|----------------------|-----------|------------------------------------|------------------------------------|------------------------|----------|
| 1        | Loading Dock - Y7/XM | TOW -5'   | 111.4                              | 3                                  | 100                    | 11194    |
| 2        | Loading Dock - Y7/XK | TOW -5'   | 106.4                              | 3                                  | 96                     | 11194    |

Remarks:

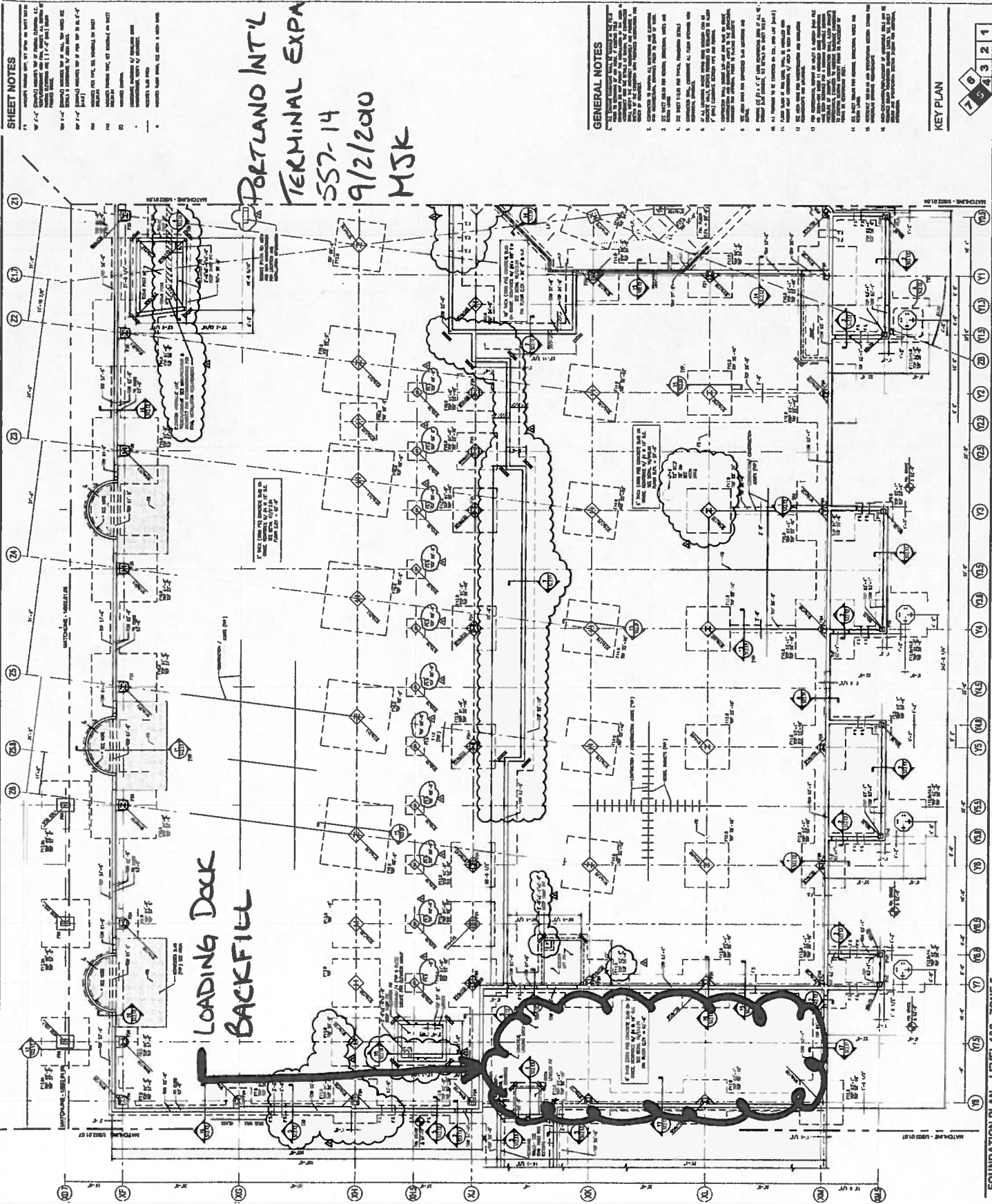
FG = Finish Grade  
 FF = Finish Floor  
 FGB = Finish Grade of Base  
 FGSB = Finish Grade of Subbase  
 FGSG = Finish Grade of Subgrade

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

Checked by: 



IPD



LOADING DOCK  
BACKFILL

PORTLAND INT'L  
TERMINAL EXPANSION  
557-14  
9/2/200  
MSK

**SHEET NOTES**

1. ALL DIMENSIONS ARE IN FEET AND INCHES UNLESS OTHERWISE NOTED.
2. ALL DIMENSIONS ARE TO FACE UNLESS OTHERWISE NOTED.
3. ALL DIMENSIONS ARE TO CENTERLINE UNLESS OTHERWISE NOTED.
4. ALL DIMENSIONS ARE TO SURFACE UNLESS OTHERWISE NOTED.
5. ALL DIMENSIONS ARE TO CENTERLINE OF COLUMN UNLESS OTHERWISE NOTED.
6. ALL DIMENSIONS ARE TO CENTERLINE OF BEAM UNLESS OTHERWISE NOTED.
7. ALL DIMENSIONS ARE TO CENTERLINE OF WALL UNLESS OTHERWISE NOTED.
8. ALL DIMENSIONS ARE TO CENTERLINE OF SLAB UNLESS OTHERWISE NOTED.
9. ALL DIMENSIONS ARE TO CENTERLINE OF FOOTING UNLESS OTHERWISE NOTED.
10. ALL DIMENSIONS ARE TO CENTERLINE OF PILE UNLESS OTHERWISE NOTED.
11. ALL DIMENSIONS ARE TO CENTERLINE OF BRACE UNLESS OTHERWISE NOTED.
12. ALL DIMENSIONS ARE TO CENTERLINE OF RIGID END PLATE UNLESS OTHERWISE NOTED.
13. ALL DIMENSIONS ARE TO CENTERLINE OF END PLATE UNLESS OTHERWISE NOTED.
14. ALL DIMENSIONS ARE TO CENTERLINE OF END PLATE UNLESS OTHERWISE NOTED.
15. ALL DIMENSIONS ARE TO CENTERLINE OF END PLATE UNLESS OTHERWISE NOTED.
16. ALL DIMENSIONS ARE TO CENTERLINE OF END PLATE UNLESS OTHERWISE NOTED.
17. ALL DIMENSIONS ARE TO CENTERLINE OF END PLATE UNLESS OTHERWISE NOTED.
18. ALL DIMENSIONS ARE TO CENTERLINE OF END PLATE UNLESS OTHERWISE NOTED.
19. ALL DIMENSIONS ARE TO CENTERLINE OF END PLATE UNLESS OTHERWISE NOTED.
20. ALL DIMENSIONS ARE TO CENTERLINE OF END PLATE UNLESS OTHERWISE NOTED.
21. ALL DIMENSIONS ARE TO CENTERLINE OF END PLATE UNLESS OTHERWISE NOTED.
22. ALL DIMENSIONS ARE TO CENTERLINE OF END PLATE UNLESS OTHERWISE NOTED.
23. ALL DIMENSIONS ARE TO CENTERLINE OF END PLATE UNLESS OTHERWISE NOTED.
24. ALL DIMENSIONS ARE TO CENTERLINE OF END PLATE UNLESS OTHERWISE NOTED.

**Portland International Jetport**  
1001 Westmore Street  
Portland, Maine 04102

**Gensler**  
**best ASSOCIATES, INC.**  
ARCHITECTS - INTERIORS - PLANNING - CONSULTANTS - ENGINEERS

**GENERAL NOTES**

1. ALL DIMENSIONS ARE IN FEET AND INCHES UNLESS OTHERWISE NOTED.
2. ALL DIMENSIONS ARE TO FACE UNLESS OTHERWISE NOTED.
3. ALL DIMENSIONS ARE TO CENTERLINE UNLESS OTHERWISE NOTED.
4. ALL DIMENSIONS ARE TO SURFACE UNLESS OTHERWISE NOTED.
5. ALL DIMENSIONS ARE TO CENTERLINE OF COLUMN UNLESS OTHERWISE NOTED.
6. ALL DIMENSIONS ARE TO CENTERLINE OF BEAM UNLESS OTHERWISE NOTED.
7. ALL DIMENSIONS ARE TO CENTERLINE OF WALL UNLESS OTHERWISE NOTED.
8. ALL DIMENSIONS ARE TO CENTERLINE OF SLAB UNLESS OTHERWISE NOTED.
9. ALL DIMENSIONS ARE TO CENTERLINE OF FOOTING UNLESS OTHERWISE NOTED.
10. ALL DIMENSIONS ARE TO CENTERLINE OF PILE UNLESS OTHERWISE NOTED.
11. ALL DIMENSIONS ARE TO CENTERLINE OF BRACE UNLESS OTHERWISE NOTED.
12. ALL DIMENSIONS ARE TO CENTERLINE OF RIGID END PLATE UNLESS OTHERWISE NOTED.
13. ALL DIMENSIONS ARE TO CENTERLINE OF END PLATE UNLESS OTHERWISE NOTED.
14. ALL DIMENSIONS ARE TO CENTERLINE OF END PLATE UNLESS OTHERWISE NOTED.
15. ALL DIMENSIONS ARE TO CENTERLINE OF END PLATE UNLESS OTHERWISE NOTED.
16. ALL DIMENSIONS ARE TO CENTERLINE OF END PLATE UNLESS OTHERWISE NOTED.
17. ALL DIMENSIONS ARE TO CENTERLINE OF END PLATE UNLESS OTHERWISE NOTED.
18. ALL DIMENSIONS ARE TO CENTERLINE OF END PLATE UNLESS OTHERWISE NOTED.
19. ALL DIMENSIONS ARE TO CENTERLINE OF END PLATE UNLESS OTHERWISE NOTED.
20. ALL DIMENSIONS ARE TO CENTERLINE OF END PLATE UNLESS OTHERWISE NOTED.
21. ALL DIMENSIONS ARE TO CENTERLINE OF END PLATE UNLESS OTHERWISE NOTED.
22. ALL DIMENSIONS ARE TO CENTERLINE OF END PLATE UNLESS OTHERWISE NOTED.
23. ALL DIMENSIONS ARE TO CENTERLINE OF END PLATE UNLESS OTHERWISE NOTED.
24. ALL DIMENSIONS ARE TO CENTERLINE OF END PLATE UNLESS OTHERWISE NOTED.

**KEY PLAN**

1 2 3 4

**FOUNDATION PLAN - LEVEL 182 - ZONE 5**

**S02.01.05**



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: September 2, 2010  
 Technician: Erik Cohenour  
 Gauge Model/Serial Number: L500

**SEP 3 0 2010**

Report Issue Date:

| Lab No. | Soil Description   | ASTM D1557<br>Max Density | ASTM D1557<br>Opt. Moisture |
|---------|--------------------|---------------------------|-----------------------------|
| 11194   | Poorly graded sand | 111.0                     | 11                          |

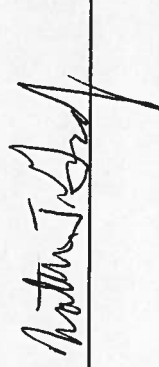
| Test No. | Location   | Elevation | ASTM D6938<br>Dry Density<br>(pcf) | ASTM D6938<br>Water Content<br>(%) | Percent of Max.<br>(%) | Lab.<br>No. |
|----------|------------|-----------|------------------------------------|------------------------------------|------------------------|-------------|
| 1        | Waterline  | 1st lift  | 102.9                              | 3                                  | 93                     | 11194       |
| 2        | Waterline  | 2nd lift  | 105.6                              | 3                                  | 95                     | 11194       |
| 3        | Geothermal | 2nd lift  | 107.4                              | 3                                  | 97                     | 11194       |
| 4        | Geothermal | 1st lift  | 103.7                              | 3                                  | 94                     | 11194       |
| 5        | Geothermal | 2nd lift  | 106.2                              | 3                                  | 96                     | 11194       |
| 6        | Waterline  | 1st lift  | 113.2                              | 2                                  | 100+                   | 11194       |

Remarks: 92% of maximum density required.

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

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<br>Max Density | ASTM D1557<br>Opt. Moisture |
|---------|--------------------|---------------------------|-----------------------------|
| 11175   | Type D Gravel      | 129.8                     | 8.4                         |
| 11152   | Type A Gravel      | 131.8                     | 8.0                         |
| 11194   | Poorly Graded Sand | 111.0                     | 11.4                        |

Client: City of Portland  
 Test Date: 9/3/2010  
 Technician: MJK  
 Gauge Model/Serial Number: L 500

Report Issue Date: **SEP 30 2010**

| Test No. | Location                   | Elevation | ASTM D6938<br>Dry Density<br>(pcf) | ASTM D6938<br>Water Content<br>(%) | Percent of Max.<br>(%) | Lab. No. |
|----------|----------------------------|-----------|------------------------------------|------------------------------------|------------------------|----------|
| 1        | Geothermal trench          | SG -3'    | 105.9                              | 4                                  | 96                     | 11194    |
| 2        | Geothermal trench          | SG -2'    | 106.1                              | 3                                  | 96                     | 11194    |
| 3        | Tower Crane Base - SW side | TOF -3'   | 125.3                              | 5                                  | 97                     | 11175    |
| 4        | Tower Crane Base - NE side | TOF -3'   | 123.8                              | 4                                  | 95                     | 11175    |
| 5        | Geothermal trench          | FG -4.5'  | 105.6                              | 3                                  | 95                     | 11194    |
| 6        | Geothermal trench          | FG -3.5'  | 106.9                              | 2                                  | 96                     | 11194    |
| 7        | Tower Crane Base - NW side | TOF -1'   | 125.1                              | 3                                  | 96                     | 11175    |
| 8        | Tower Crane Base - SE side | TOF -1'   | 124.3                              | 3                                  | 96                     | 11175    |
| 9        | Tower Crane Base - NE side | TOF       | 124.2                              | 3                                  | 96                     | 11175    |
| 10       | Dock Lever Pit/Inside Y8   | FG        | 123.5                              | 3                                  | 95                     | 11175    |
| 11       | Loading Dock - Y7/XL -5'   | FG        | 122.7                              | 3                                  | 95                     | 11175    |
| 12       | XM/Inside Y8               | FG        | 125.1                              | 3                                  | 96                     | 11175    |
| 13       | Parking Lot - See Sketch   | FG        | 128.4                              | 4                                  | 97                     | 11152    |
| 14       | Parking Lot - See Sketch   | FG        | 128.7                              | 4                                  | 98                     | 11152    |
| 15       | Parking Lot - See Sketch   | FG        | 127.6                              | 4                                  | 97                     | 11152    |
| 16       | Parking Lot - See Sketch   | FG        | 125.3                              | 3                                  | 95                     | 11152    |

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  
 BOW = Bottom of Wall  
 BOF = Bottom of Footing  
 SG = Subgrade

Checked by: 

R. W. Gillespie Associates, Inc.  
 Corporate Office 86 Industrial Park Road, Ste. 4, Saco, ME 04072  
 Branch Office 200 International Drive, Ste. 170, Portsmouth, NH 03801

1FD

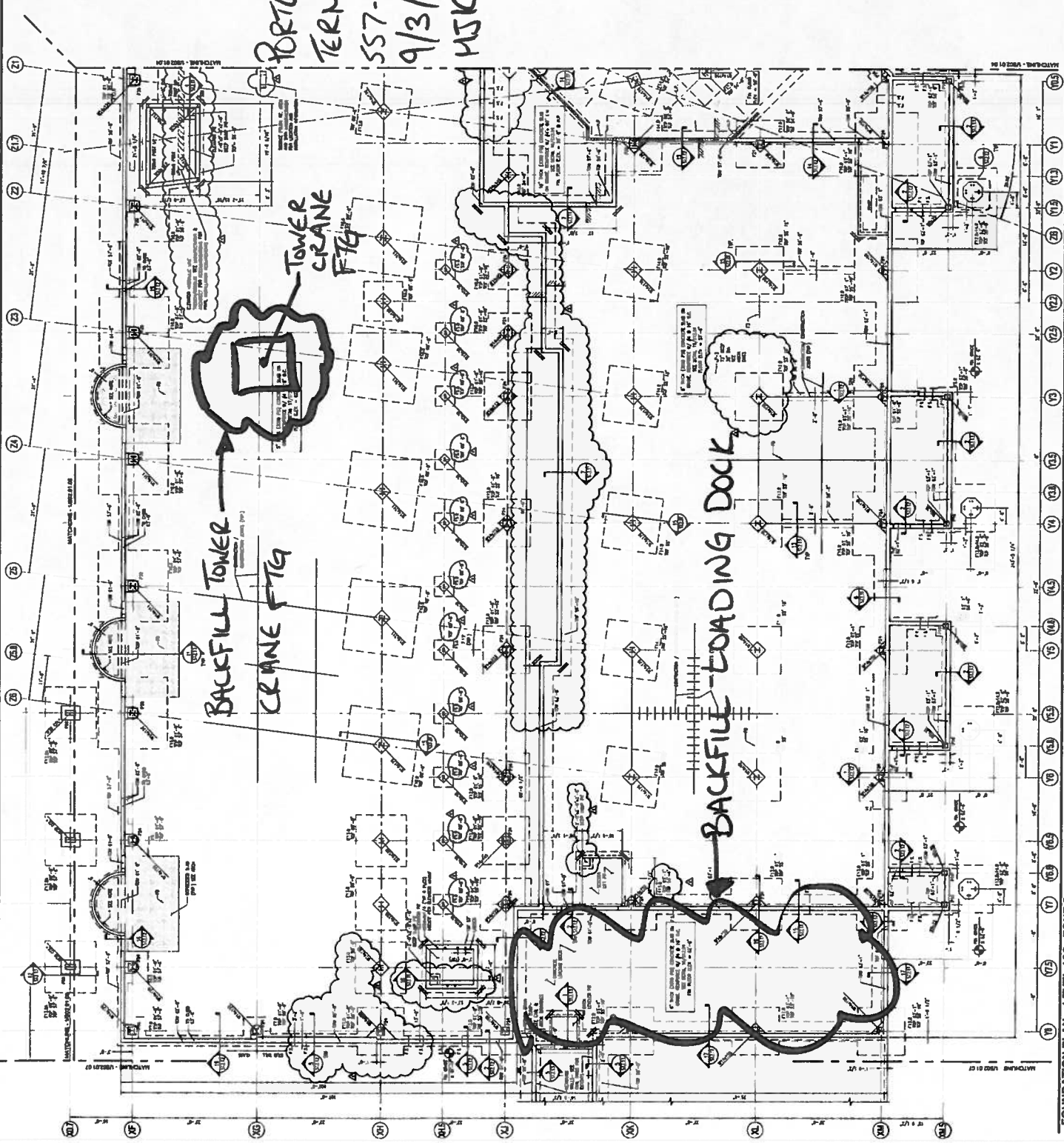
**SHEET NOTES**

1. REFER TO SHEET 1001 FOR THE PORTLAND INT'L AIRPORT
2. REFER TO SHEET 1002 FOR THE PORTLAND INT'L AIRPORT
3. REFER TO SHEET 1003 FOR THE PORTLAND INT'L AIRPORT
4. REFER TO SHEET 1004 FOR THE PORTLAND INT'L AIRPORT
5. REFER TO SHEET 1005 FOR THE PORTLAND INT'L AIRPORT
6. REFER TO SHEET 1006 FOR THE PORTLAND INT'L AIRPORT
7. REFER TO SHEET 1007 FOR THE PORTLAND INT'L AIRPORT
8. REFER TO SHEET 1008 FOR THE PORTLAND INT'L AIRPORT
9. REFER TO SHEET 1009 FOR THE PORTLAND INT'L AIRPORT
10. REFER TO SHEET 1010 FOR THE PORTLAND INT'L AIRPORT

**Portland International Jetport**  
 1001 Westbank Street  
 Portland, Maine 04102

**Gensler**  
**DBS ASSOCIATES, INC.**  
 ENGINEERS ARCHITECTS INTERIORS

**PORTLAND INT'L AIRPORT  
 TERMINAL EXPANSION**  
 557-14  
 9/3/2010  
 HSK



**GENERAL NOTES**

1. ALL FOUNDATIONS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE PORTLAND INTERNATIONAL AIRPORT FOUNDATION SPECIFICATIONS.
2. FOUNDATIONS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE PORTLAND INTERNATIONAL AIRPORT FOUNDATION SPECIFICATIONS.
3. FOUNDATIONS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE PORTLAND INTERNATIONAL AIRPORT FOUNDATION SPECIFICATIONS.
4. FOUNDATIONS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE PORTLAND INTERNATIONAL AIRPORT FOUNDATION SPECIFICATIONS.
5. FOUNDATIONS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE PORTLAND INTERNATIONAL AIRPORT FOUNDATION SPECIFICATIONS.
6. FOUNDATIONS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE PORTLAND INTERNATIONAL AIRPORT FOUNDATION SPECIFICATIONS.
7. FOUNDATIONS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE PORTLAND INTERNATIONAL AIRPORT FOUNDATION SPECIFICATIONS.
8. FOUNDATIONS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE PORTLAND INTERNATIONAL AIRPORT FOUNDATION SPECIFICATIONS.
9. FOUNDATIONS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE PORTLAND INTERNATIONAL AIRPORT FOUNDATION SPECIFICATIONS.
10. FOUNDATIONS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE PORTLAND INTERNATIONAL AIRPORT FOUNDATION SPECIFICATIONS.
11. FOUNDATIONS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE PORTLAND INTERNATIONAL AIRPORT FOUNDATION SPECIFICATIONS.
12. FOUNDATIONS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE PORTLAND INTERNATIONAL AIRPORT FOUNDATION SPECIFICATIONS.
13. FOUNDATIONS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE PORTLAND INTERNATIONAL AIRPORT FOUNDATION SPECIFICATIONS.
14. FOUNDATIONS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE PORTLAND INTERNATIONAL AIRPORT FOUNDATION SPECIFICATIONS.
15. FOUNDATIONS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE PORTLAND INTERNATIONAL AIRPORT FOUNDATION SPECIFICATIONS.
16. FOUNDATIONS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE PORTLAND INTERNATIONAL AIRPORT FOUNDATION SPECIFICATIONS.
17. FOUNDATIONS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE PORTLAND INTERNATIONAL AIRPORT FOUNDATION SPECIFICATIONS.
18. FOUNDATIONS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE PORTLAND INTERNATIONAL AIRPORT FOUNDATION SPECIFICATIONS.
19. FOUNDATIONS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE PORTLAND INTERNATIONAL AIRPORT FOUNDATION SPECIFICATIONS.
20. FOUNDATIONS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE PORTLAND INTERNATIONAL AIRPORT FOUNDATION SPECIFICATIONS.
21. FOUNDATIONS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE PORTLAND INTERNATIONAL AIRPORT FOUNDATION SPECIFICATIONS.

**KEY PLAN**

MATCHLINE - WEST 01'

**FOUNDATION PLAN - LEVEL 1&2 - ZONE 5**

1  
2  
3  
4

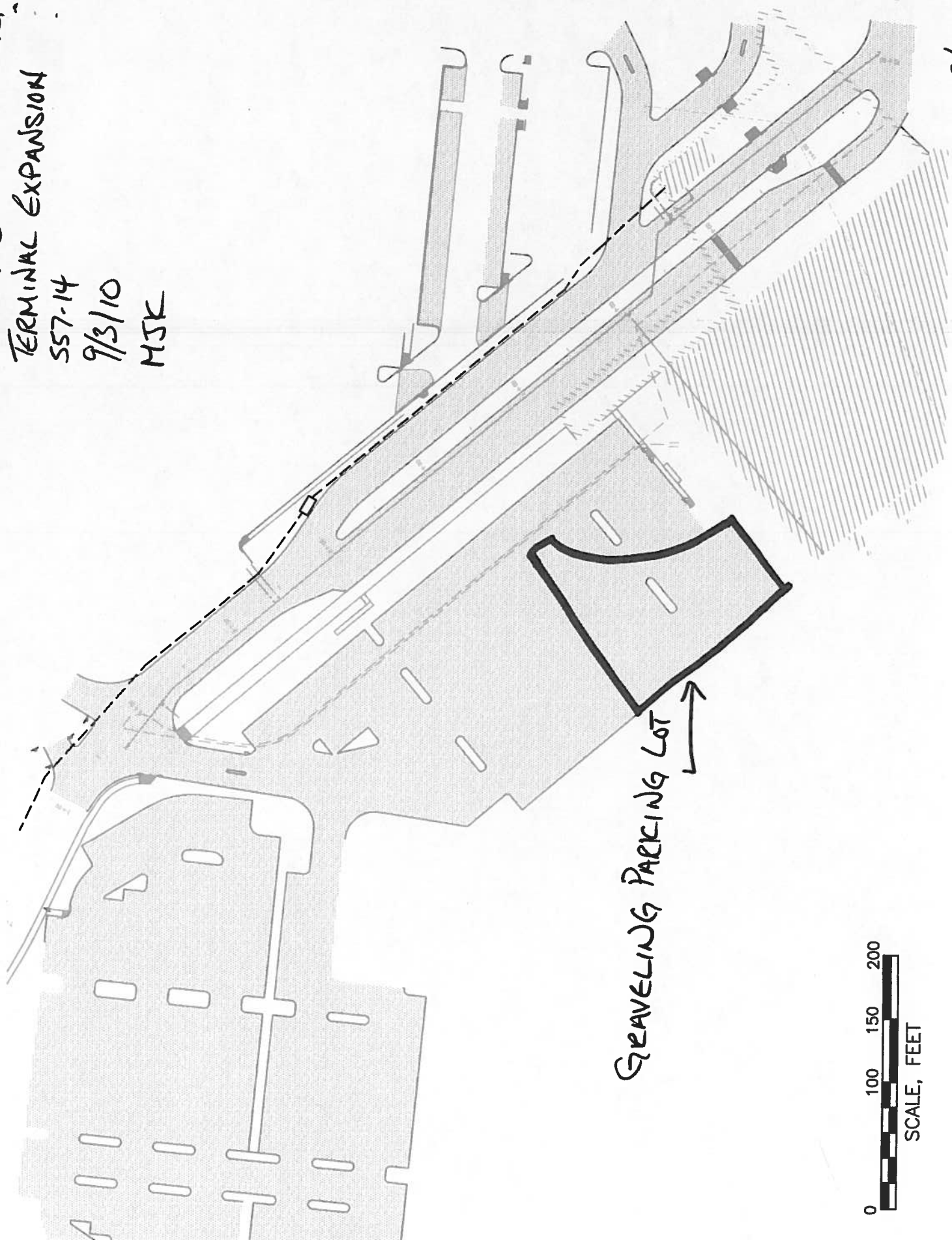
**S02.01.05**

1/2





PORTLAND INT'L AIRPORT  
TERMINAL EXPANSION  
557-14  
9/3/10  
MSK



GRAVELING PARKING LOT

