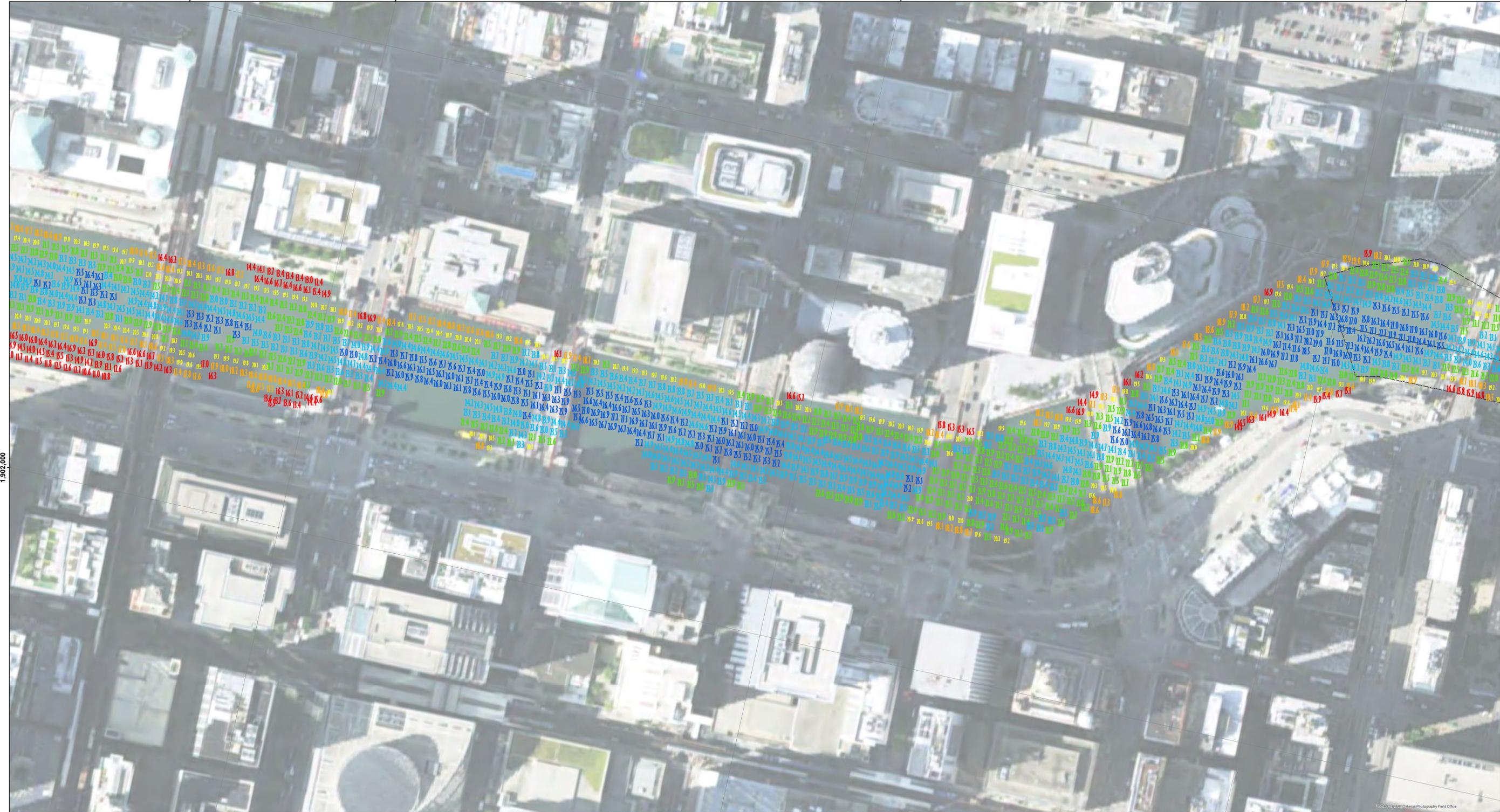


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1,175,000

1,176,000

1,177,000



1,902,000

1,903,000

1,902,000

1,175,000

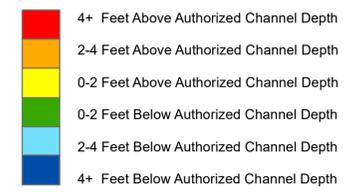
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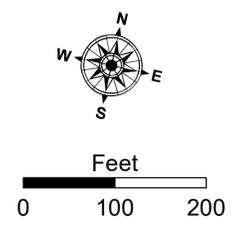


**LEGEND**

|                                  |                     |                         |
|----------------------------------|---------------------|-------------------------|
| --- Federal Navigation Channel   | ▭ Cable Area        | ■ Shoaling Area         |
| — Federal Navigation Center Line | ▭ Placement Area    | ● Shoalest Sounding**   |
| ..... Cable Submarine            | ▭ Anchorage Area    | ⊥ Beacon, General       |
| --- Cable Overhead               | ⊗ Obstruction Point | ◆ Red Navigation Buoy   |
| — Contour Line                   | ⚓ Wrecks-Submerged  | ◆ Green Navigation Buoy |



UNLESS OTHERWISE NOTED PROJECT DEPTH IS:  
 21.0' RIVER TO TURNING BASIN  
 9.0' UPPER RIVER  
 DEPTH BELOW LOW WATER DATUM (LWD)



**NOTES:**

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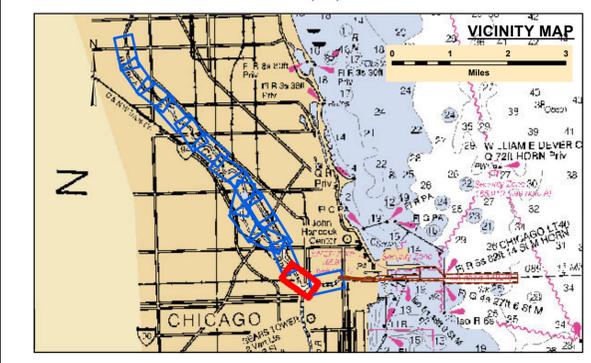
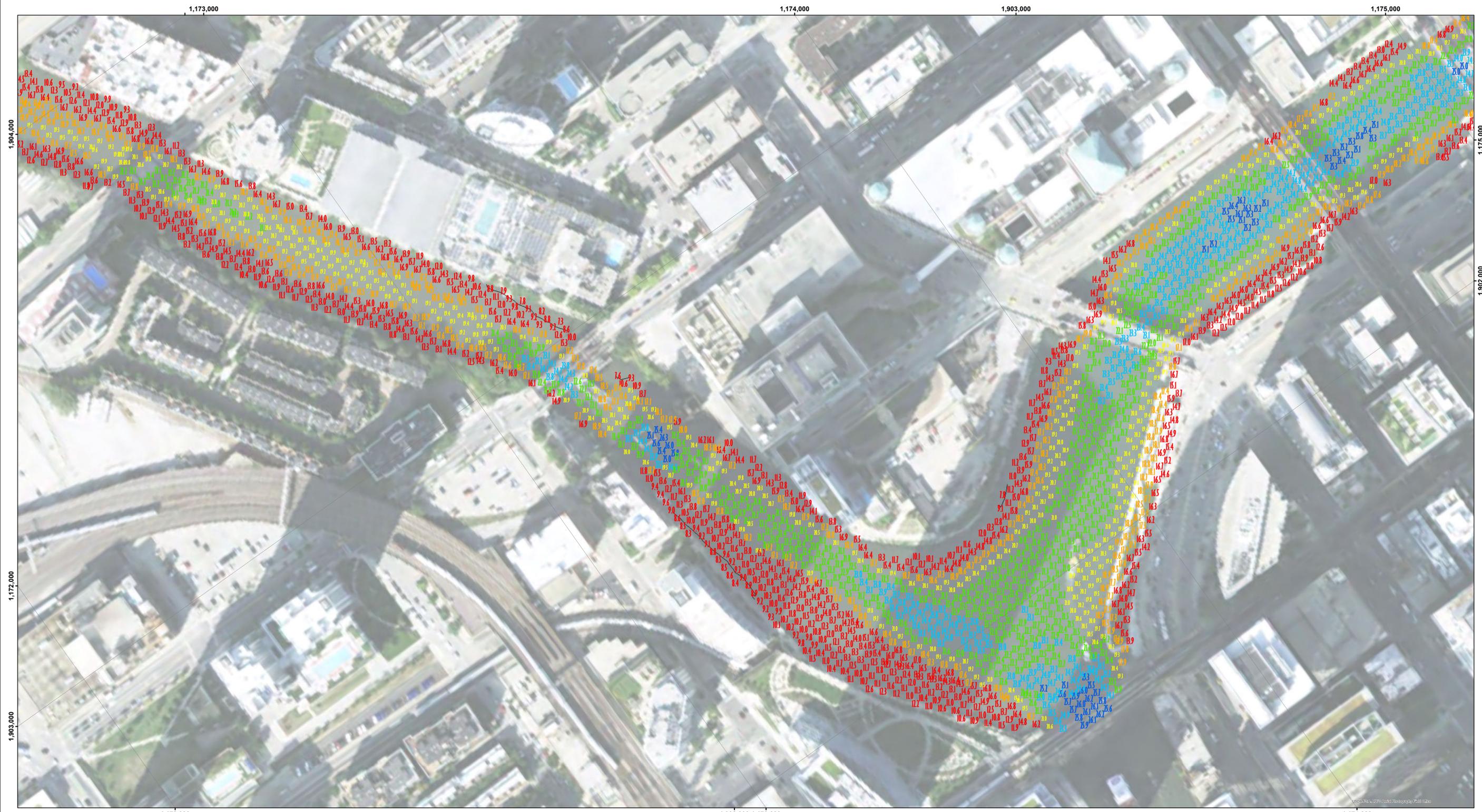
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|   |  |
|---|--|
| <b>U.S. ARMY ENGINEERS<br/>CORPS OF ENGINEERS<br/>CHICAGO, ILLINOIS</b> | Surveyed by:<br>American Surveying & Engineering, P.C. |
|   | Mapping:<br>JD Ennis, Chicago District                 |
| <b>CHICAGO RIVER</b><br>LC_11_CHR_20140404_CS_20                        | Reviewed by:<br>Phil Horstman, Chicago District        |
|   | Date:<br>04 April 2014                                 |

**CHICAGO RIVER**  
 LC\_11\_CHR\_20140404\_CS\_20  
 04 April 2014

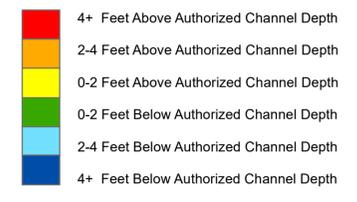
**Sheet Reference Number**  
 1 of 16

Revision Number:  
 3.14-2017031

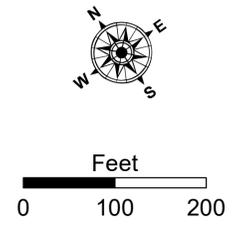


**LEGEND**

|                                  |                     |                         |
|----------------------------------|---------------------|-------------------------|
| --- Federal Navigation Channel   | ▨ Cable Area        | ■ Shoaling Area         |
| — Federal Navigation Center Line | ▭ Placement Area    | ● Shoalest Sounding**   |
| ..... Cable Submarine            | ⊠ Anchorage Area    | ⊥ Beacon, General       |
| --- Cable Overhead               | ⊗ Obstruction Point | ◆ Red Navigation Buoy   |
| — Contour Line                   | ⚓ Wrecks-Submerged  | ◆ Green Navigation Buoy |



UNLESS OTHERWISE NOTED PROJECT DEPTH IS:  
 21.0' RIVER TO TURNING BASIN  
 9.0' UPPER RIVER  
 DEPTH BELOW LOW WATER DATUM (LWD)



**NOTES:**  
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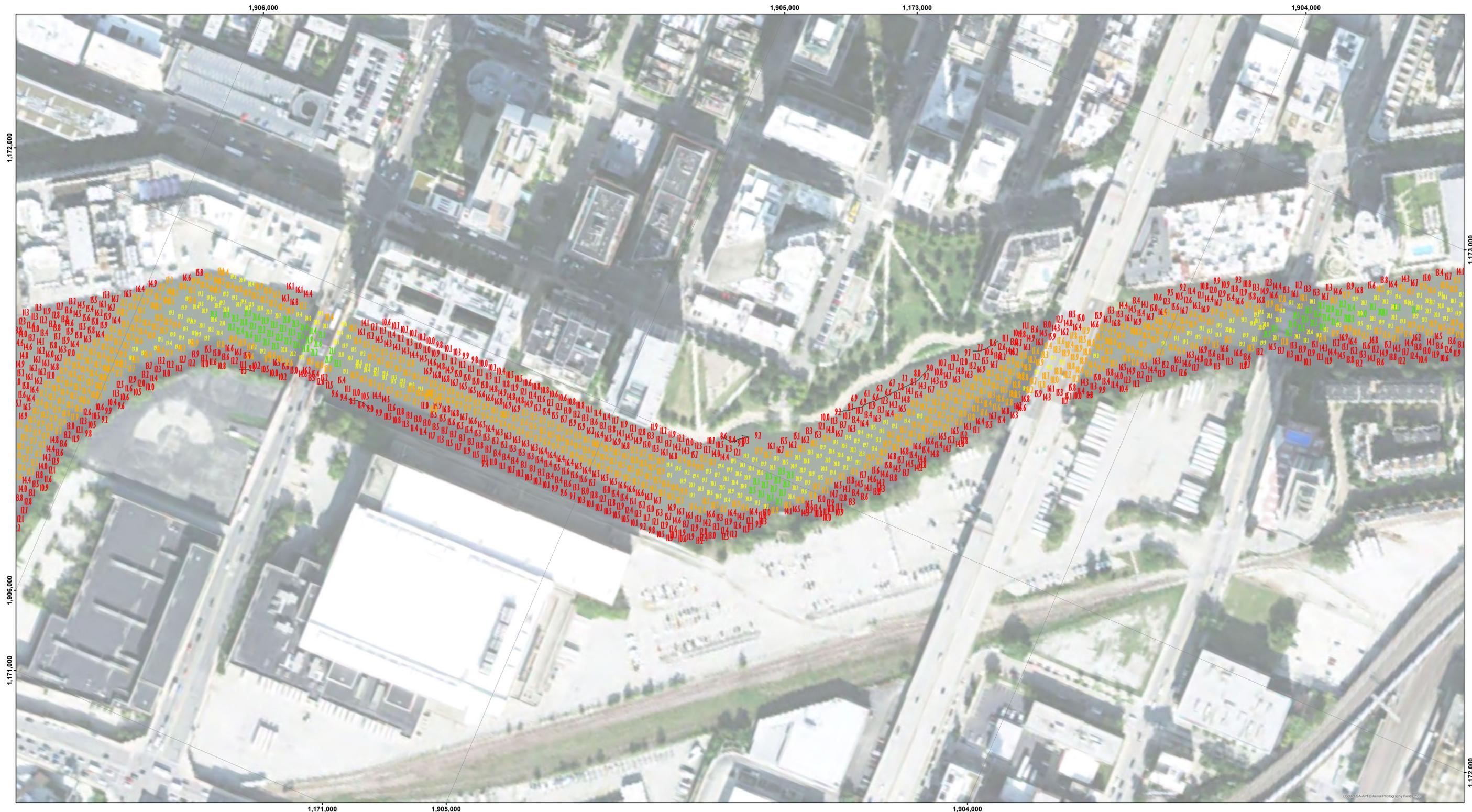


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|   |   |
|---|---|
| <b>U.S. ARMY ENGINEERS<br/>CORPS OF ENGINEERS<br/>CHICAGO, ILLINOIS</b> | Surveyed by:<br>American Surveying & Engineering, P.C.  |
|   | Mapping:<br>JD Ennis, Chicago District                  |
|   | Reviewed by:<br>Phil Horstman, Chicago District         |
|   | File:<br>C:\hydro\prod\mxd\LC_11_CHR_20140404_CS_20.mxd |

**CHICAGO RIVER**  
 LC\_11\_CHR\_20140404\_CS\_20  
 04 April 2014

**Sheet  
Reference  
Number**  
 2 of 16

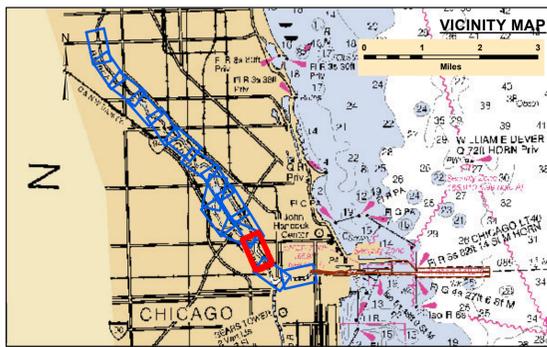


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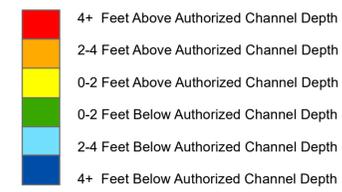
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| Surveyed by:<br>American Surveying & Engineering, P.C.     |
| Mapping:<br>JD Ennis, Chicago District                     |
| Reviewed by:<br>Phil Horstman, Chicago District            |
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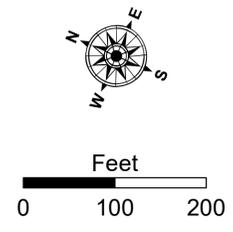
**CHICAGO RIVER**  
LC\_11\_CHR\_20140404\_CS\_20  
04 April 2014



| LEGEND                           |                     |                         |
|----------------------------------|---------------------|-------------------------|
| --- Federal Navigation Channel   | ▭ Cable Area        | ■ Shoaling Area         |
| — Federal Navigation Center Line | ▭ Placement Area    | ● Shoalest Sounding**   |
| ..... Cable Submarine            | ▭ Anchorage Area    | ⊥ Beacon, General       |
| --- Cable Overhead               | ⊗ Obstruction Point | ◆ Red Navigation Buoy   |
| — Contour Line                   | ⚓ Wrecks-Submerged  | ◆ Green Navigation Buoy |

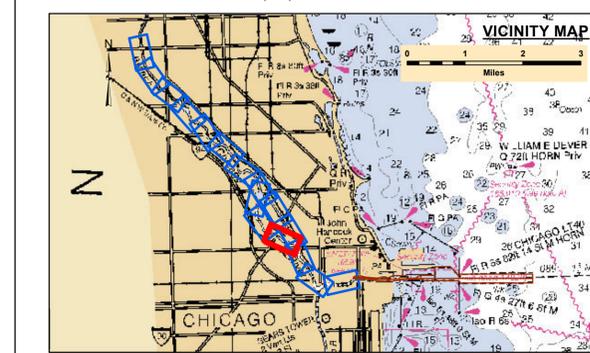


UNLESS OTHERWISE NOTED PROJECT DEPTH IS:  
21.0' RIVER TO TURNING BASIN  
9.0' UPPER RIVER  
DEPTH BELOW LOW WATER DATUM (LWD)



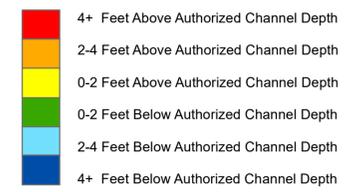
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Sheet Reference Number  
**3 of 16**  
Revision Number:  
3.14-2017031

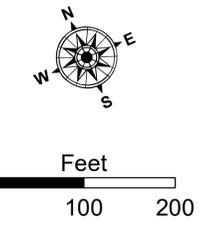


**LEGEND**

|                                  |                     |                         |
|----------------------------------|---------------------|-------------------------|
| --- Federal Navigation Channel   | ▭ Cable Area        | ■ Shoaling Area         |
| — Federal Navigation Center Line | ▭ Placement Area    | ● Shoalest Sounding**   |
| ..... Cable Submarine            | ▭ Anchorage Area    | ⊥ Beacon, General       |
| --- Cable Overhead               | ⊗ Obstruction Point | ◆ Red Navigation Buoy   |
| — Contour Line                   | ⚓ Wrecks-Submerged  | ◆ Green Navigation Buoy |



UNLESS OTHERWISE NOTED PROJECT DEPTH IS:  
 21.0' RIVER TO TURNING BASIN  
 9.0' UPPER RIVER  
 DEPTH BELOW LOW WATER DATUM (LWD)



**NOTES:**

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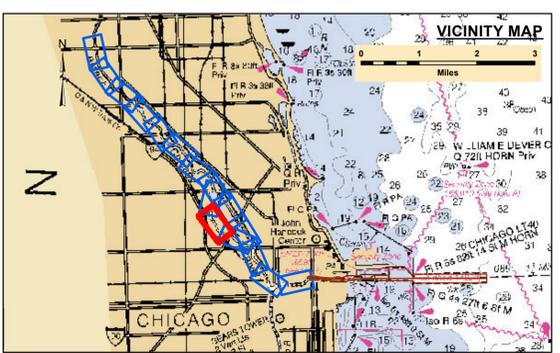
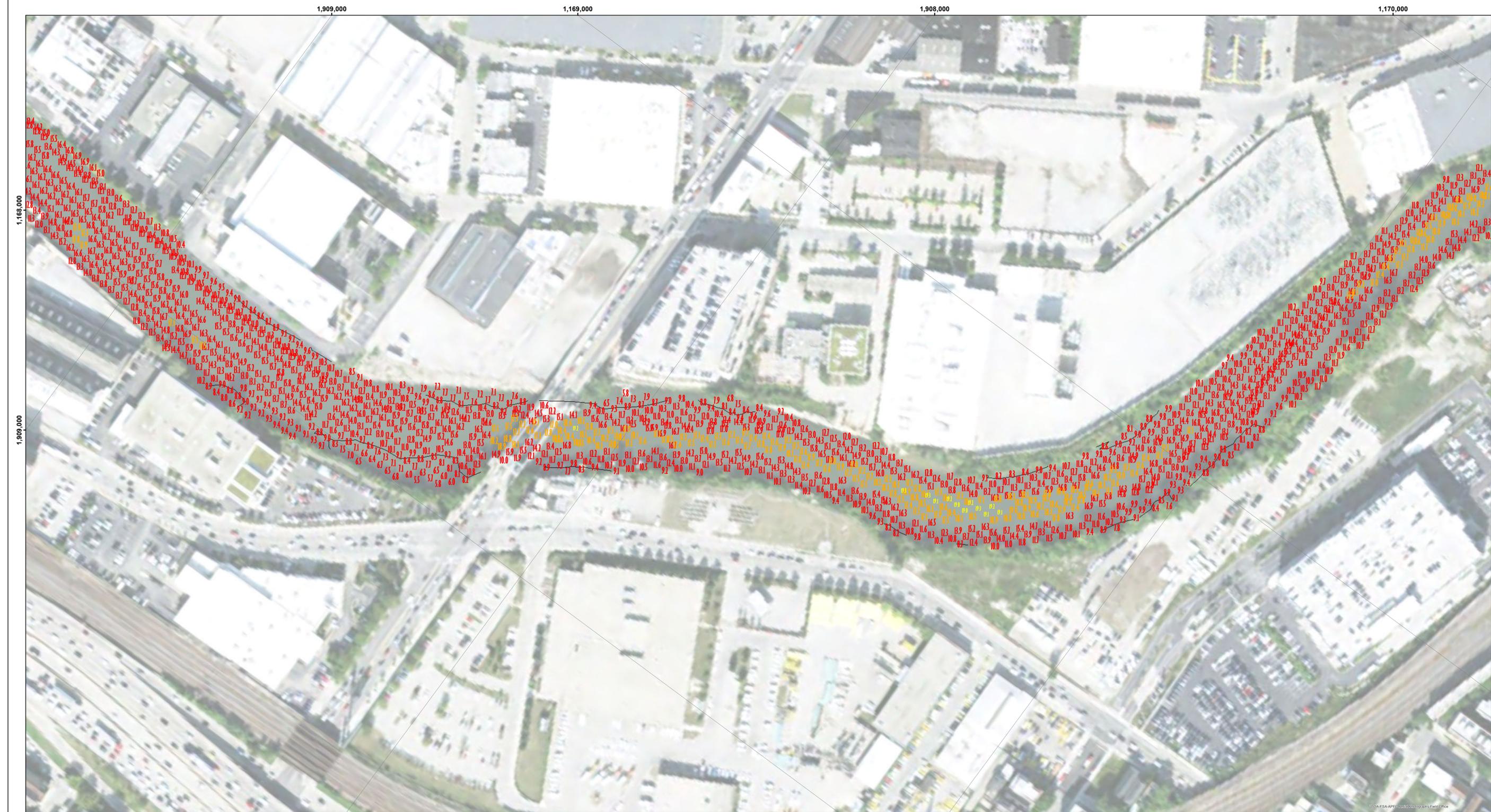
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|---|---|
| <b>U.S. ARMY ENGINEERS<br/>CORPS OF ENGINEERS<br/>CHICAGO, ILLINOIS</b> | Surveyed by:<br>American Surveying & Engineering, P.C.      |
|   | Mapping:<br>JD Ennis, Chicago District                      |
|   | Reviewed by:<br>Phil Horstman, Chicago District             |
|   | Path:<br>G:\hydro\projects\KDC\LC_11_CHR_20140404_CS_20.mxd |

**CHICAGO RIVER**

**LC\_11\_CHR\_20140404\_CS\_20**

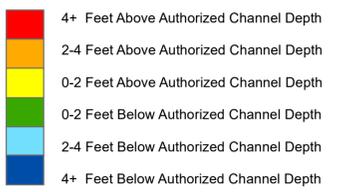
**04 April 2014**

**Sheet  
Reference  
Number  
4 of 16**

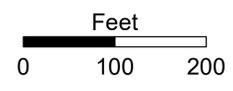


**LEGEND**

|                                  |                     |                         |
|----------------------------------|---------------------|-------------------------|
| --- Federal Navigation Channel   | ▭ Cable Area        | ■ Shoaling Area         |
| — Federal Navigation Center Line | ▭ Placement Area    | ● Shoalest Sounding**   |
| ..... Cable Submarine            | ▭ Anchorage Area    | ⊥ Beacon, General       |
| --- Cable Overhead               | ⊗ Obstruction Point | ◆ Red Navigation Buoy   |
| — Contour Line                   | ⚓ Wrecks-Submerged  | ◆ Green Navigation Buoy |



UNLESS OTHERWISE NOTED PROJECT DEPTH IS:  
 21.0' RIVER TO TURNING BASIN  
 9.0' UPPER RIVER  
 DEPTH BELOW LOW WATER DATUM (LWD)



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|   |
|---|
| Surveyed by:<br>American Surveying & Engineering, P.C.      |
| Mapping:<br>JD Ennis, Chicago District                      |
| Reviewed by:<br>Phil Horstman, Chicago District             |
| Path:<br>G:\hydro\projects\KDC\LC_11_CHR_20140404_CS_20.mxd |

**CHICAGO RIVER**

**LC\_11\_CHR\_20140404\_CS\_20**

**04 April 2014**

**Sheet Reference Number**

**5 of 16**



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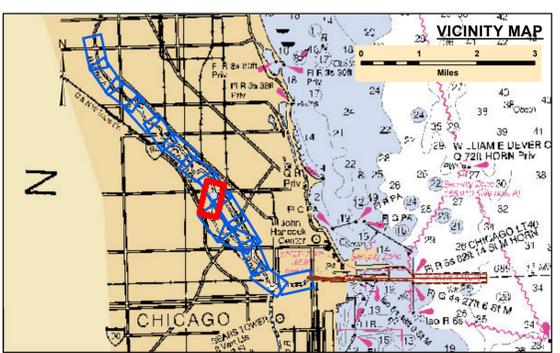
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| Surveyed by:<br>American Surveying & Engineering, P.C. |  |
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| Date:<br>04 April 2014                                 |  |

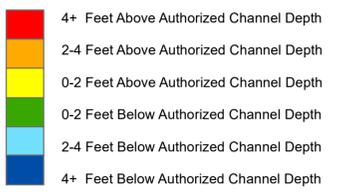
**CHICAGO RIVER**  
LC\_11\_CHR\_20140404\_CS\_20  
04 April 2014

**Sheet Reference Number**  
6 of 16

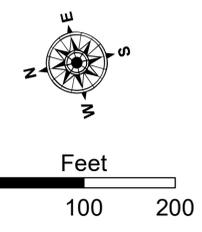
Revision Number:  
3.14-2017031



| LEGEND                           |                     |                         |
|----------------------------------|---------------------|-------------------------|
| --- Federal Navigation Channel   | ▭ Cable Area        | ■ Shoaling Area         |
| — Federal Navigation Center Line | ▭ Placement Area    | ● Shoalest Sounding**   |
| ..... Cable Submarine            | ▭ Anchorage Area    | ⊥ Beacon, General       |
| --- Cable Overhead               | ⊗ Obstruction Point | ◆ Red Navigation Buoy   |
| — Contour Line                   | ⚓ Wrecks-Submerged  | ◆ Green Navigation Buoy |



UNLESS OTHERWISE NOTED PROJECT DEPTH IS:  
21.0' RIVER TO TURNING BASIN  
9.0' UPPER RIVER  
DEPTH BELOW LOW WATER DATUM (LWD)



**NOTES:**

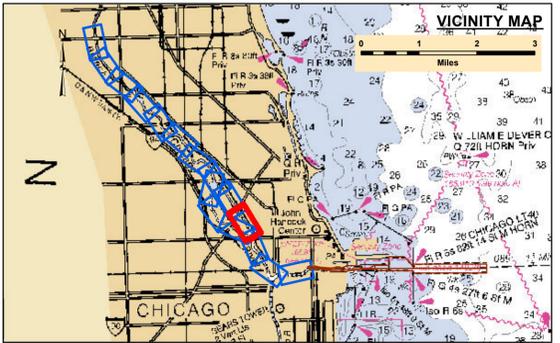
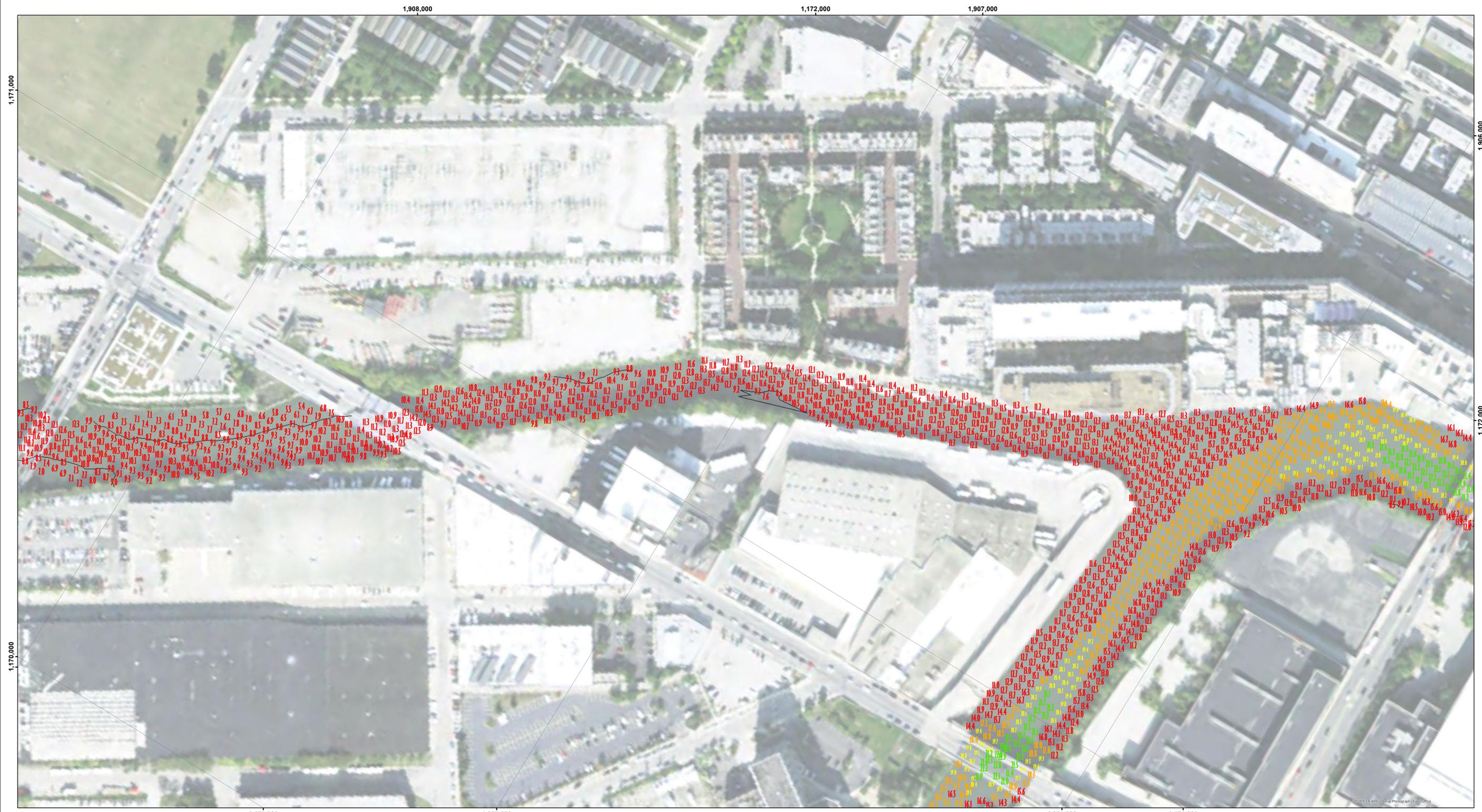
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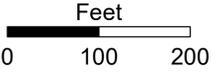


**LEGEND**

|                                  |                     |                         |
|----------------------------------|---------------------|-------------------------|
| --- Federal Navigation Channel   | ▭ Cable Area        | ■ Shoaling Area         |
| — Federal Navigation Center Line | ▭ Placement Area    | ● Shoalest Sounding**   |
| ..... Cable Submarine            | ▭ Anchorage Area    | ⊥ Beacon, General       |
| --- Cable Overhead               | ⊗ Obstruction Point | ◆ Red Navigation Buoy   |
| — Contour Line                   | ✈ Wrecks-Submerged  | ◆ Green Navigation Buoy |

- 4+ Feet Above Authorized Channel Depth
- 2-4 Feet Above Authorized Channel Depth
- 0-2 Feet Above Authorized Channel Depth
- 0-2 Feet Below Authorized Channel Depth
- 2-4 Feet Below Authorized Channel Depth
- 4+ Feet Below Authorized Channel Depth

UNLESS OTHERWISE NOTED PROJECT DEPTH IS:  
 21.0' RIVER TO TURNING BASIN  
 9.0' UPPER RIVER  
 DEPTH BELOW LOW WATER DATUM (LWD)



**NOTES:**

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GRID COORDINATES ARE BASED ON THE ILLINOIS STATE PLANE COORDINATE SYSTEM, TRANSVERSE MERCATOR PROJECTION, ILLINOIS EAST (1201), NORTH AMERICAN DATUM 1983 (NAD83). ALL COORDINATES SHOWN ARE IN U.S. SURVEY FEET.

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| Surveyed by:<br>American Surveying & Engineering, P.C.      |
| Mapping:<br>JD Ennis, Chicago District                      |
| Reviewed by:<br>Phil Horstman, Chicago District             |
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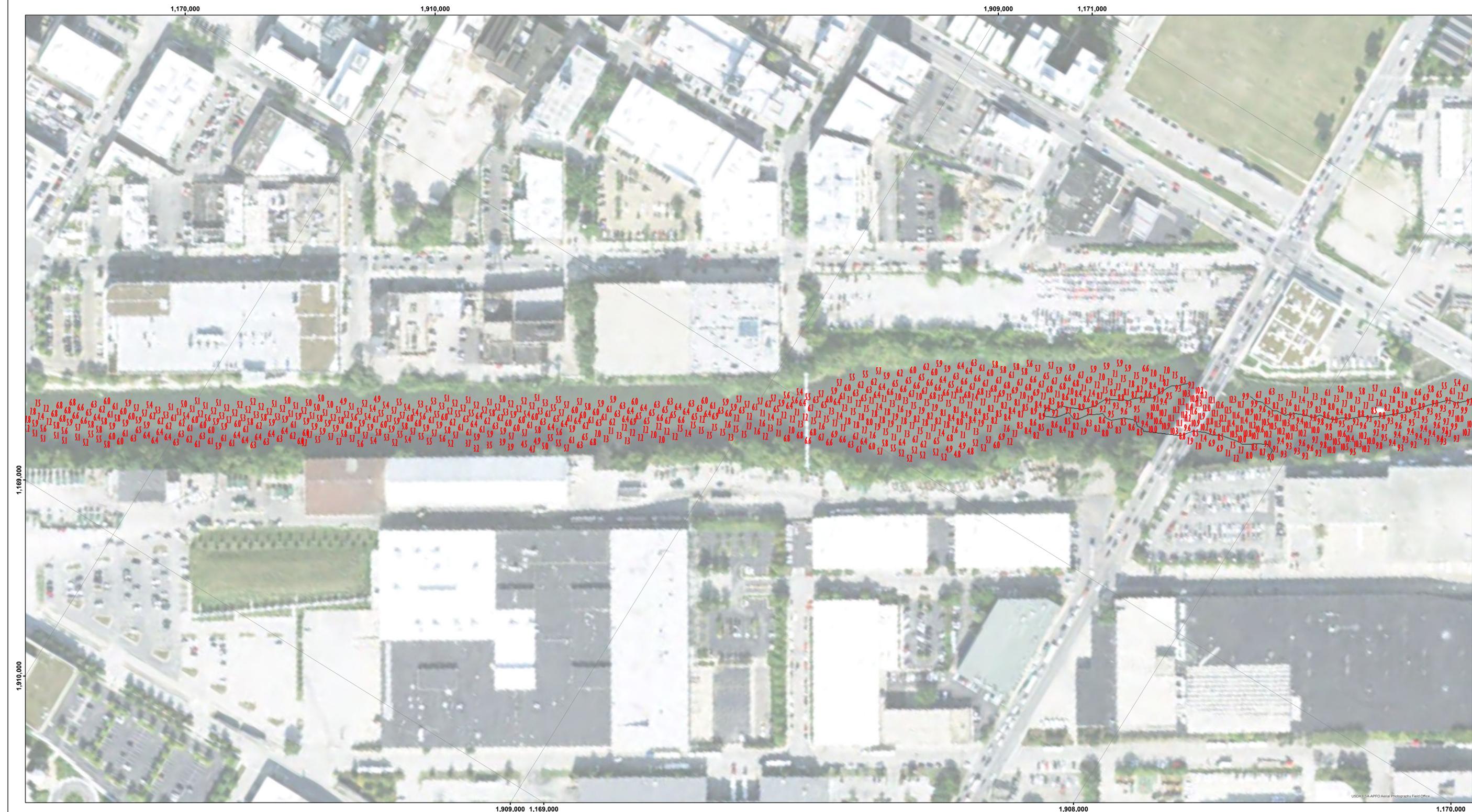
**CHICAGO RIVER**

**LC\_11\_CHR\_20140404\_CS\_20**

**04 April 2014**

**Sheet Reference Number**

**7 of 16**



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1,910,000

1,909,000

1,171,000

1,169,000

1,171,000

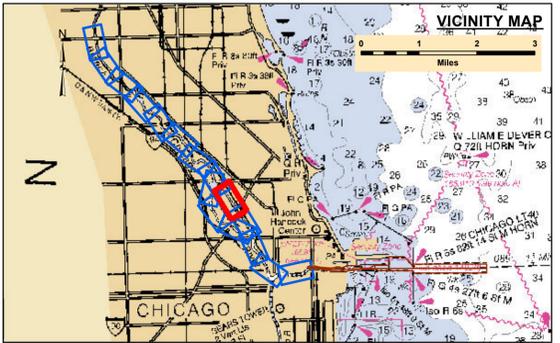
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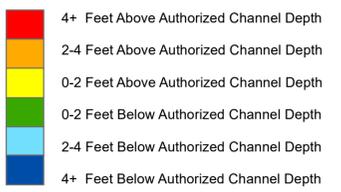
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1,908,000

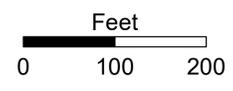
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| LEGEND                           |                     |                         |
|----------------------------------|---------------------|-------------------------|
| --- Federal Navigation Channel   | ▭ Cable Area        | ■ Shoaling Area         |
| — Federal Navigation Center Line | ▭ Placement Area    | ● Shoalest Sounding**   |
| ..... Cable Submarine            | ▭ Anchorage Area    | ⊥ Beacon, General       |
| - - - Cable Overhead             | ⊗ Obstruction Point | ◆ Red Navigation Buoy   |
| — Contour Line                   | ✈ Wrecks-Submerged  | ◆ Green Navigation Buoy |



UNLESS OTHERWISE NOTED PROJECT DEPTH IS:  
 21.0' RIVER TO TURNING BASIN  
 9.0' UPPER RIVER  
 DEPTH BELOW LOW WATER DATUM (LWD)



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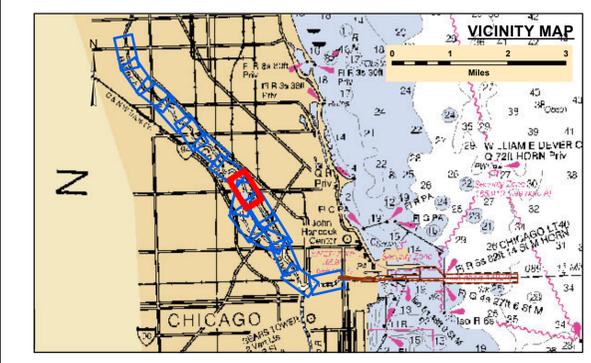
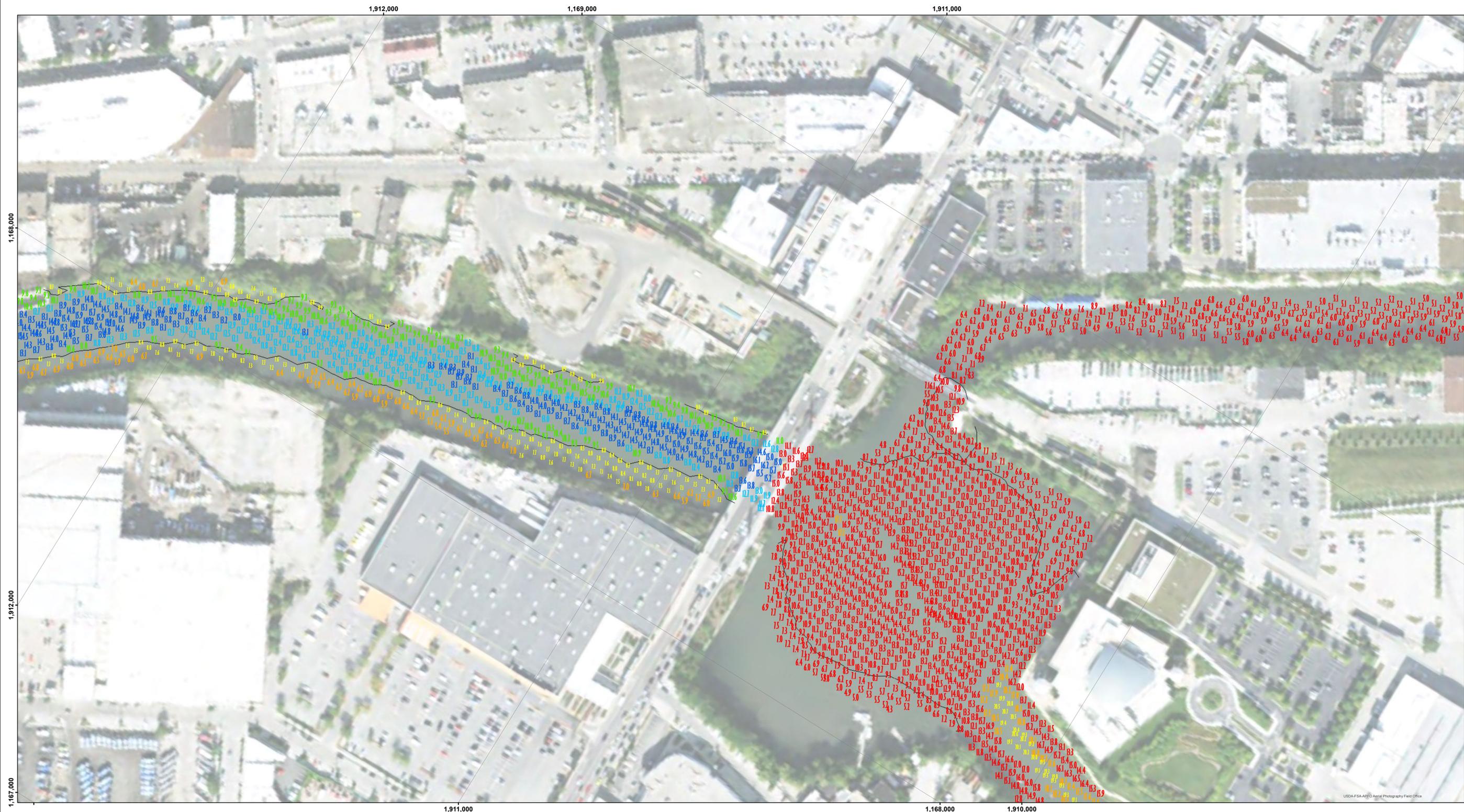
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|   |
|---|
| Surveyed by:<br>American Surveying & Engineering, P.C.  |
| Mapping:<br>JD Ennis, Chicago District                  |
| Reviewed by:<br>Phil Horstman, Chicago District         |
| Path:<br>G:\hydro\posimv\KDC\LC_11_CHR_201404_CS_20.mxd |

**CHICAGO RIVER**  
 LC\_11\_CHR\_20140404\_CS\_20  
 04 April 2014

**Sheet Reference Number**  
 8 of 16

Revision Number:  
 3.14-2017031

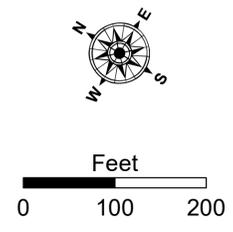


**LEGEND**

|                                  |                     |                         |
|----------------------------------|---------------------|-------------------------|
| --- Federal Navigation Channel   | ▭ Cable Area        | ■ Shoaling Area         |
| — Federal Navigation Center Line | ▭ Placement Area    | ● Shoalest Sounding**   |
| ..... Cable Submarine            | ▭ Anchorage Area    | ⊥ Beacon, General       |
| --- Cable Overhead               | ⊗ Obstruction Point | ◆ Red Navigation Buoy   |
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- 4+ Feet Above Authorized Channel Depth
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|---|--|
| <b>U.S. ARMY ENGINEERS<br/>CORPS OF ENGINEERS<br/>CHICAGO, ILLINOIS</b> | Surveyed by:<br>American Surveying & Engineering, P.C.     |
|   | Mapping:<br>JD Ennis, Chicago District                     |
|   | Reviewed by:<br>Phil Horstman, Chicago District            |
|   | Path:<br>G:\hydro\products\MOXUC\11_CHR_20140404_CS_20.mxd |

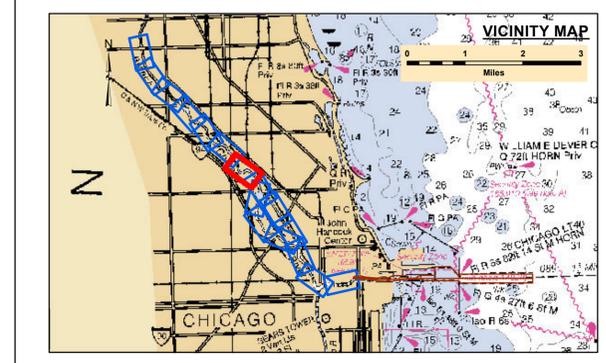
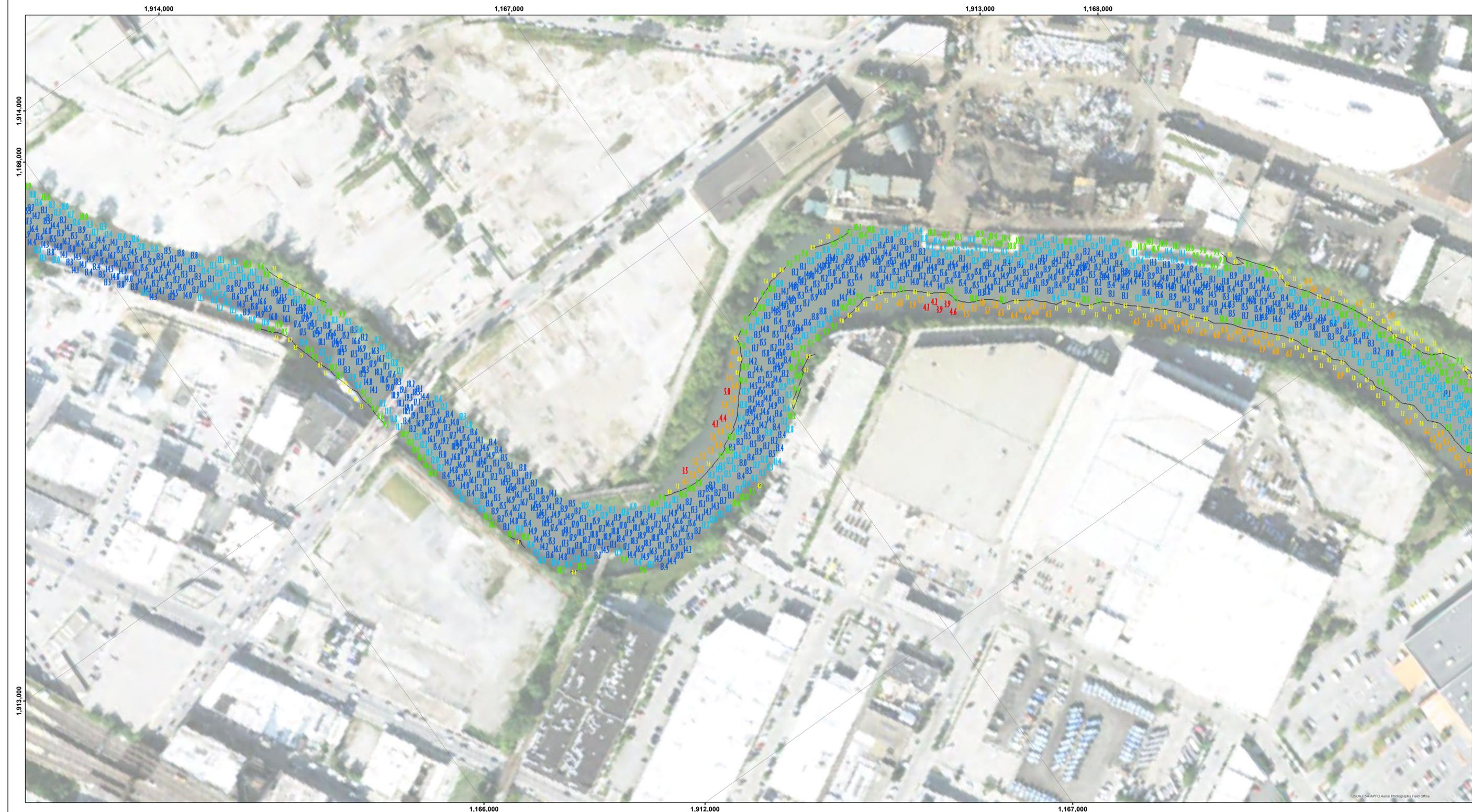
**CHICAGO RIVER**

**LC\_11\_CHR\_20140404\_CS\_20**

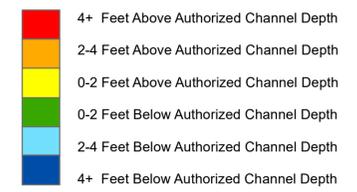
**04 April 2014**

**Sheet  
Reference  
Number**

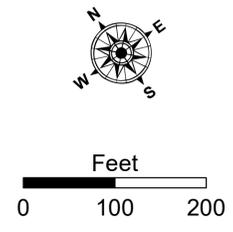
**9 of 16**



| LEGEND                           |                     |                         |
|----------------------------------|---------------------|-------------------------|
| --- Federal Navigation Channel   | ▭ Cable Area        | ■ Shoaling Area         |
| — Federal Navigation Center Line | ▭ Placement Area    | ● Shoalest Sounding**   |
| ..... Cable Submarine            | ▭ Anchorage Area    | ⊥ Beacon, General       |
| --- Cable Overhead               | ⊗ Obstruction Point | ◆ Red Navigation Buoy   |
| — Contour Line                   | ⚓ Wrecks-Submerged  | ◆ Green Navigation Buoy |



UNLESS OTHERWISE NOTED PROJECT DEPTH IS:  
 21.0' RIVER TO TURNING BASIN  
 9.0' UPPER RIVER  
 DEPTH BELOW LOW WATER DATUM (LWD)



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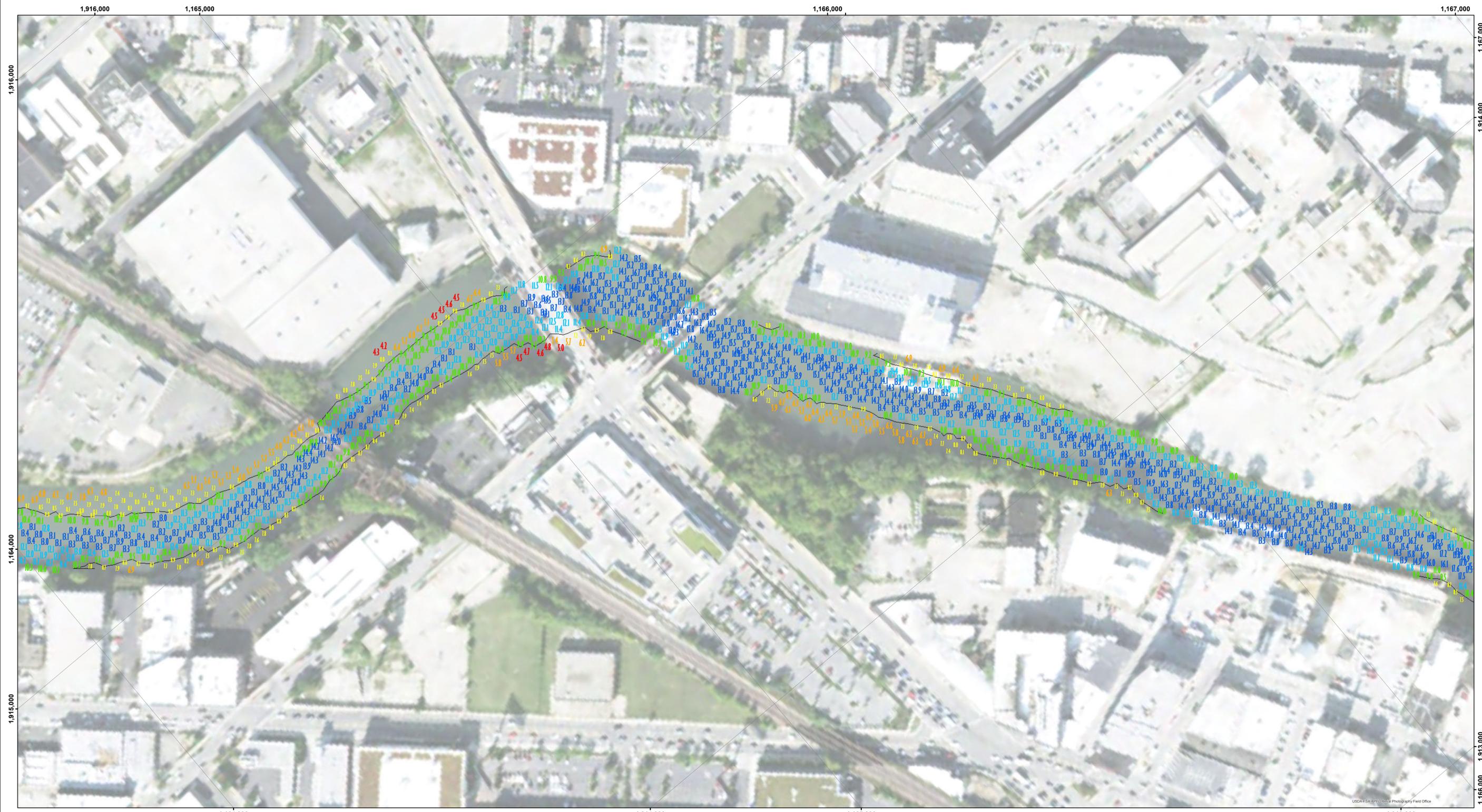


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| Surveyed by:<br>American Surveying & Engineering, P.C.<br>Mapping:<br>JD Ennis, Chicago District<br>Reviewed by:<br>Phil Horstman, Chicago District<br>Date:<br>04/04/2014 | <b>U.S. ARMY OF ENGINEERS<br/>                 CORPS OF ENGINEERS<br/>                 CHICAGO, ILLINOIS</b> |
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**CHICAGO RIVER**  
 LC\_11\_CHR\_20140404\_CS\_20  
 04 April 2014

**Sheet  
 Reference  
 Number**  
 10 of 16

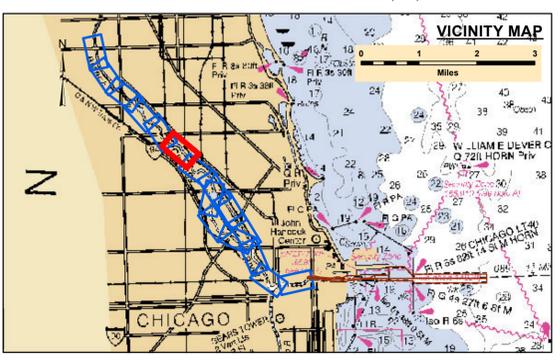


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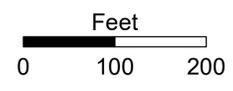
**CHICAGO RIVER**  
LC\_11\_CHR\_20140404\_CS\_20  
04 April 2014



| LEGEND                           |                     |                         |
|----------------------------------|---------------------|-------------------------|
| --- Federal Navigation Channel   | ▭ Cable Area        | ■ Shoaling Area         |
| — Federal Navigation Center Line | ▭ Placement Area    | ● Shoalest Sounding**   |
| ..... Cable Submarine            | ▭ Anchorage Area    | ⊥ Beacon, General       |
| --- Cable Overhead               | ⊗ Obstruction Point | ◆ Red Navigation Buoy   |
| — Contour Line                   | ✈ Wrecks-Submerged  | ◆ Green Navigation Buoy |

- 4+ Feet Above Authorized Channel Depth
- 2-4 Feet Above Authorized Channel Depth
- 0-2 Feet Above Authorized Channel Depth
- 0-2 Feet Below Authorized Channel Depth
- 2-4 Feet Below Authorized Channel Depth
- 4+ Feet Below Authorized Channel Depth

UNLESS OTHERWISE NOTED PROJECT DEPTH IS:  
21.0' RIVER TO TURNING BASIN  
9.0' UPPER RIVER  
DEPTH BELOW LOW WATER DATUM (LWD)



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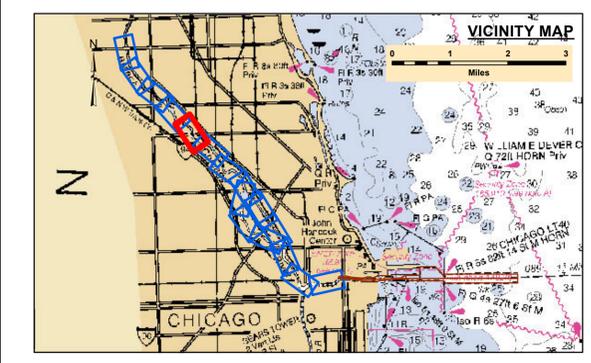
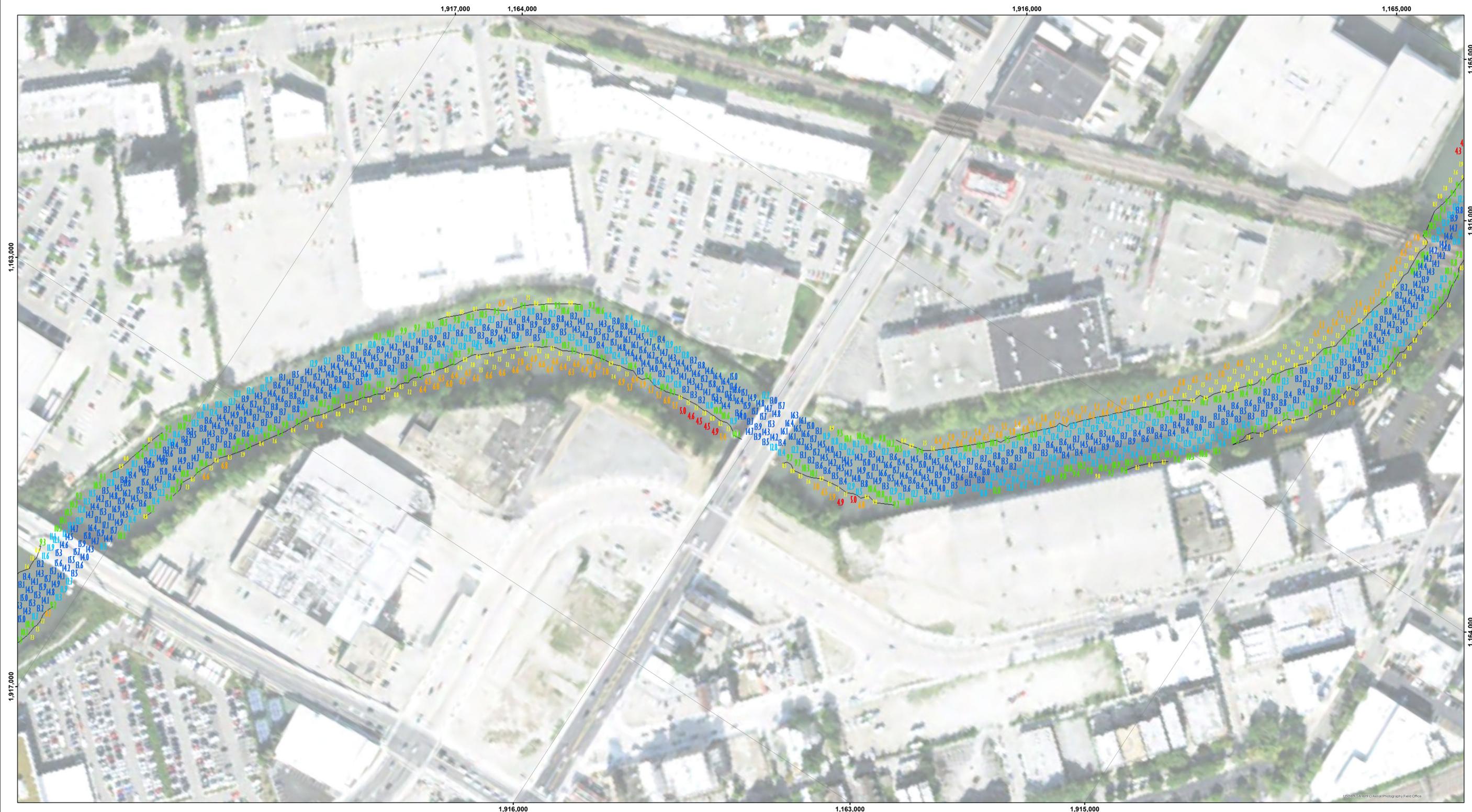
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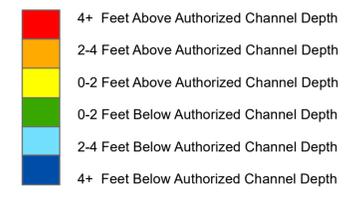
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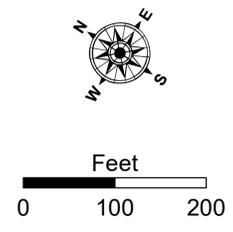
**Sheet Reference Number**  
11 of 16



| LEGEND                           |                     |                         |
|----------------------------------|---------------------|-------------------------|
| --- Federal Navigation Channel   | ▭ Cable Area        | ■ Shoaling Area         |
| — Federal Navigation Center Line | ▭ Placement Area    | ● Shoalest Sounding**   |
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| --- Cable Overhead               | ⊗ Obstruction Point | ◆ Red Navigation Buoy   |
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UNLESS OTHERWISE NOTED PROJECT DEPTH IS:  
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 9.0' UPPER RIVER  
 DEPTH BELOW LOW WATER DATUM (LWD)



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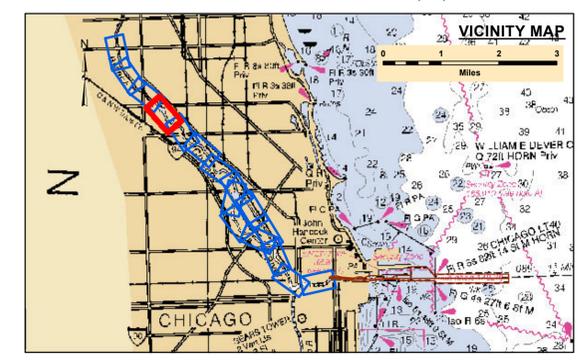
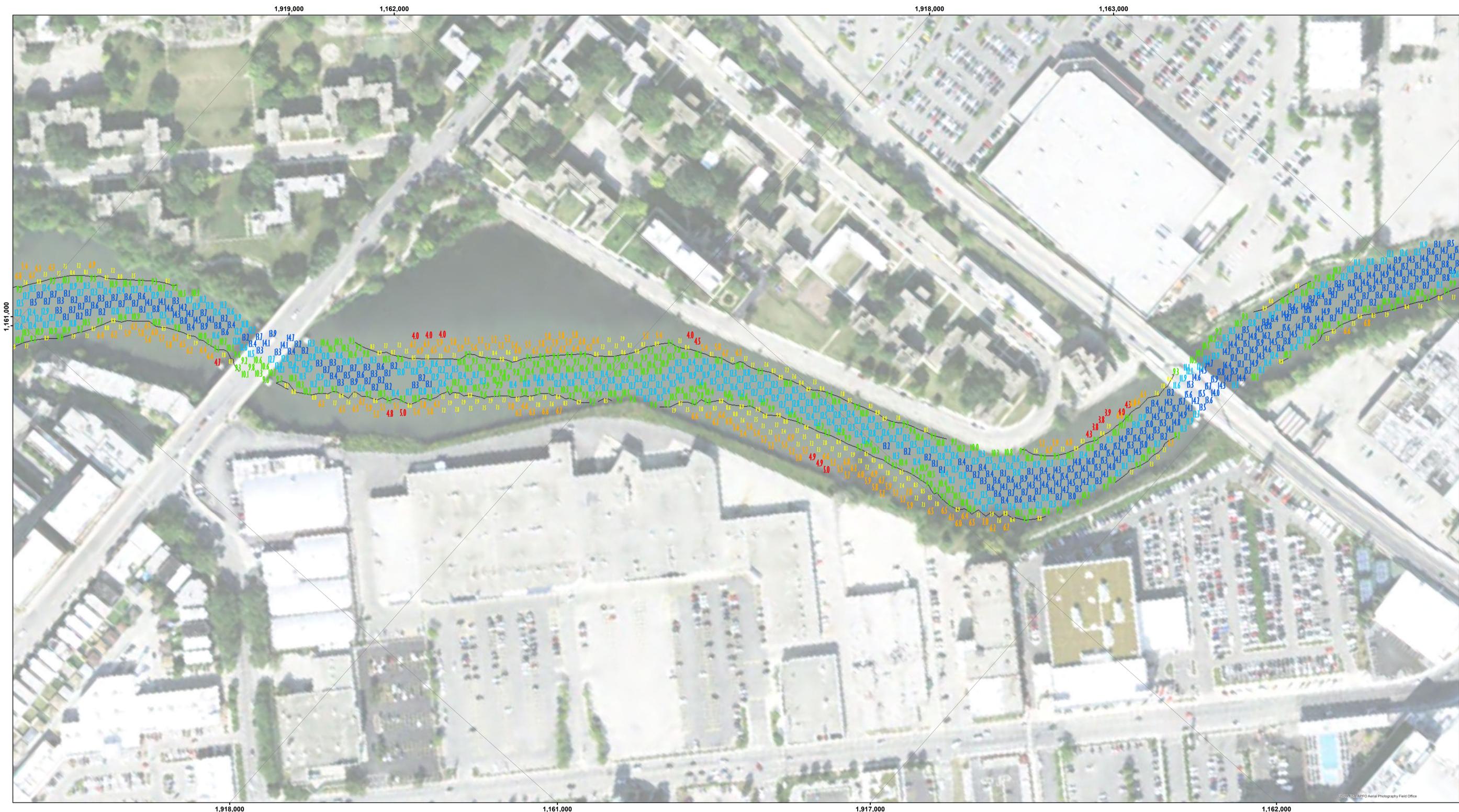
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|  |   |
|--|---|
| Surveyed by:<br>American Surveying & Engineering, P.C.<br>Mapping:<br>JD Ennis, Chicago District<br>Reviewed by:<br>Phil Horstman, Chicago District<br>Date:<br>C:\hydro\products\KDC\LC_11_CHR_20140404_CS_20.mxd | <b>U.S. ARMY ENGINEERS<br/>                 CORPS OF ENGINEERS<br/>                 CHICAGO, ILLINOIS</b> |
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**CHICAGO RIVER**  
 LC\_11\_CHR\_20140404\_CS\_20  
 04 April 2014

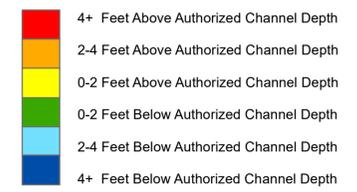
**Sheet  
 Reference  
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 12 of 16**

Revision Number:  
 3.14-2017031

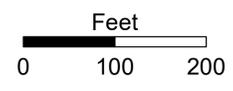


**LEGEND**

|                                  |                     |                         |
|----------------------------------|---------------------|-------------------------|
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9.0' UPPER RIVER  
DEPTH BELOW LOW WATER DATUM (LWD)



**NOTES:**

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| <b>U.S. ARMY OF ENGINEERS<br/>CORPS OF ENGINEERS<br/>CHICAGO, ILLINOIS</b> | Surveyed by:<br>American Surveying & Engineering, P.C. |
|  | Mapping:<br>JD Ennis, Chicago District                 |
| <b>CHICAGO RIVER</b><br><br>LC_11_CHR_20140404_CS_20                       | Reviewed by:<br>Phil Horstman, Chicago District        |
|  | Date:<br>04 April 2014                                 |

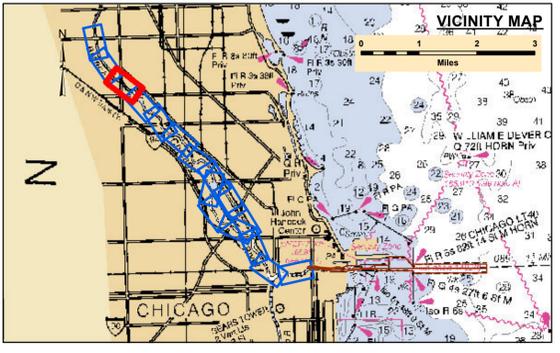
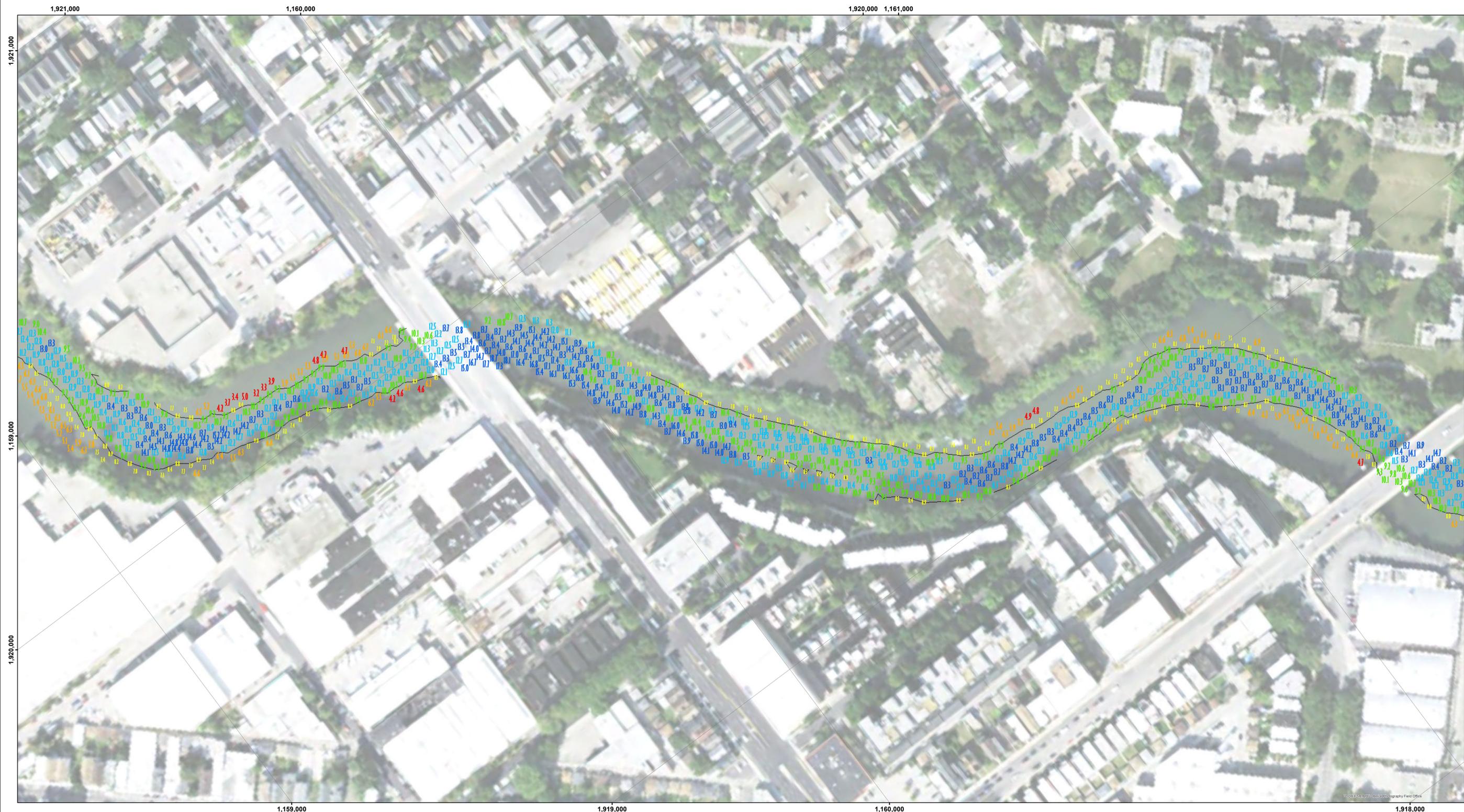
**CHICAGO RIVER**

**LC\_11\_CHR\_20140404\_CS\_20**

**04 April 2014**

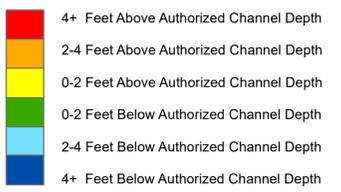
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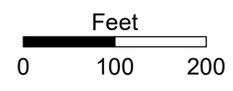


**LEGEND**

|                                  |                     |                         |
|----------------------------------|---------------------|-------------------------|
| --- Federal Navigation Channel   | ▭ Cable Area        | ■ Shoaling Area         |
| — Federal Navigation Center Line | ▭ Placement Area    | ● Shoalest Sounding**   |
| ..... Cable Submarine            | ▭ Anchorage Area    | ⊥ Beacon, General       |
| --- Cable Overhead               | ⊗ Obstruction Point | ◆ Red Navigation Buoy   |
| — Contour Line                   | ✈ Wrecks-Submerged  | ◆ Green Navigation Buoy |



UNLESS OTHERWISE NOTED PROJECT DEPTH IS:  
 21.0' RIVER TO TURNING BASIN  
 9.0' UPPER RIVER  
 DEPTH BELOW LOW WATER DATUM (LWD)



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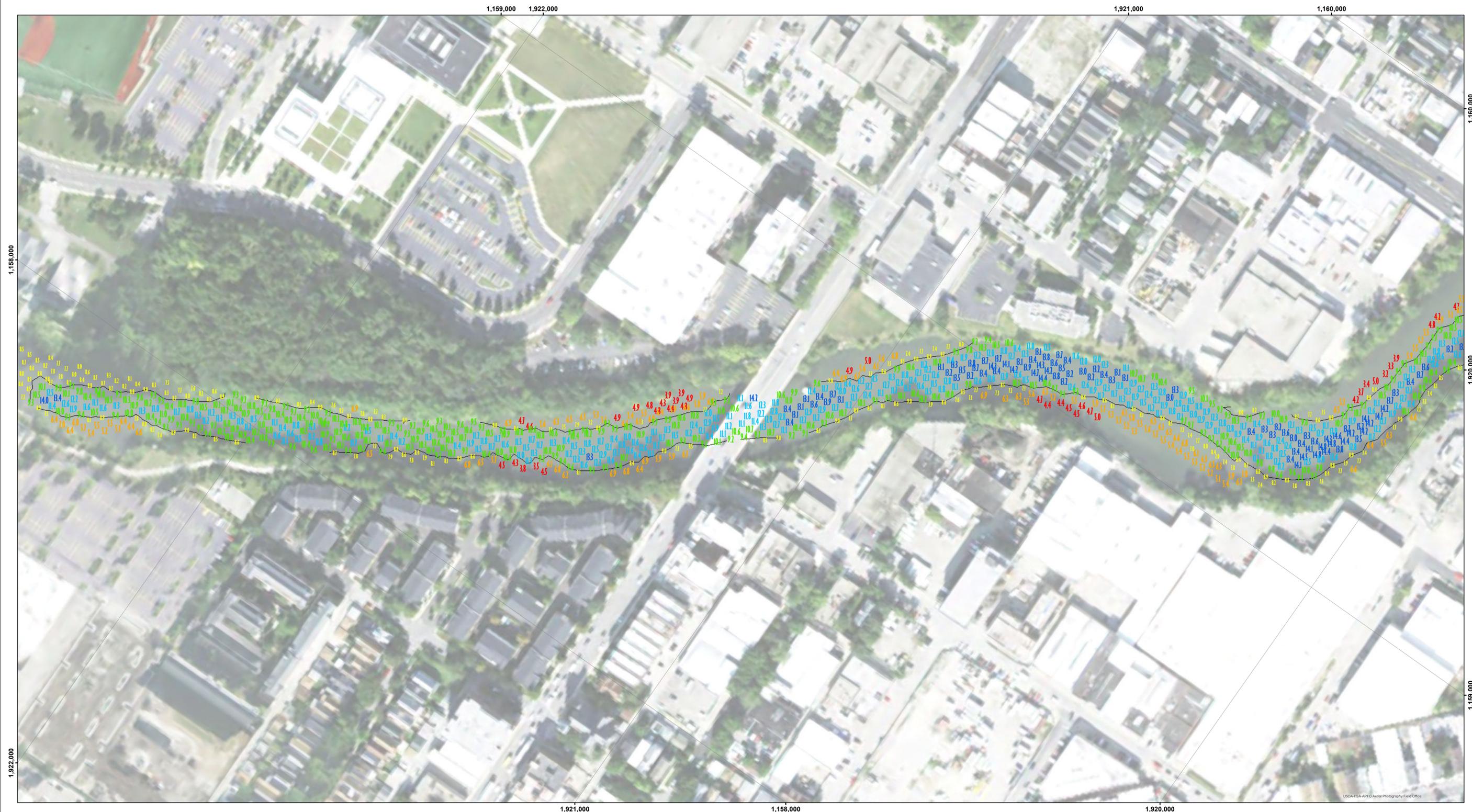
|   |  |
|---|--|
| <b>U.S. ARMY ENGINEERS<br/>CORPS OF ENGINEERS<br/>CHICAGO, ILLINOIS</b> | Surveyed by:<br>American Surveying & Engineering, P.C.     |
|   | Mapping:<br>JD Ennis, Chicago District                     |
|   | Reviewed by:<br>Phil Horstman, Chicago District            |
|   | Path:<br>G:\hydrographics\MOJULC_11_CHR_20140404_CS_20.mxd |

**CHICAGO RIVER**

**LC\_11\_CHR\_20140404\_CS\_20**

**04 April 2014**

**Sheet  
Reference  
Number  
14 of 16**



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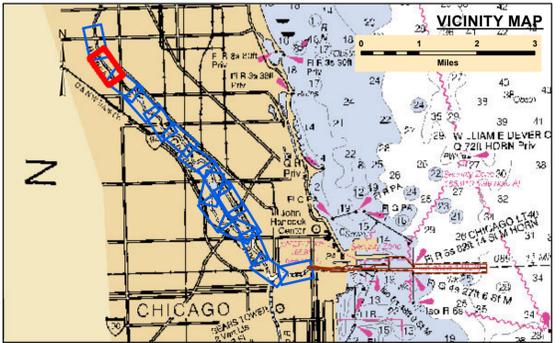
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| <b>U.S. ARMY OF ENGINEERS<br/>CORPS OF ENGINEERS<br/>CHICAGO, ILLINOIS</b>   |

**CHICAGO RIVER**  
 LC\_11\_CHR\_20140404\_CS\_20  
 04 April 2014

**Sheet Reference Number**  
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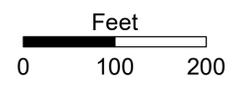
Revision Number:  
 3.14-2017031



| LEGEND                           |                     |                         |
|----------------------------------|---------------------|-------------------------|
| --- Federal Navigation Channel   | ▭ Cable Area        | ■ Shoaling Area         |
| — Federal Navigation Center Line | ▭ Placement Area    | ● Shoalest Sounding**   |
| ..... Cable Submarine            | ▭ Anchorage Area    | ⊥ Beacon, General       |
| --- Cable Overhead               | ⊗ Obstruction Point | ◆ Red Navigation Buoy   |
| — Contour Line                   | ✈ Wrecks-Submerged  | ◆ Green Navigation Buoy |

- 4+ Feet Above Authorized Channel Depth
- 2-4 Feet Above Authorized Channel Depth
- 0-2 Feet Above Authorized Channel Depth
- 0-2 Feet Below Authorized Channel Depth
- 2-4 Feet Below Authorized Channel Depth
- 4+ Feet Below Authorized Channel Depth

UNLESS OTHERWISE NOTED PROJECT DEPTH IS:  
 21.0' RIVER TO TURNING BASIN  
 9.0' UPPER RIVER  
 DEPTH BELOW LOW WATER DATUM (LWD)



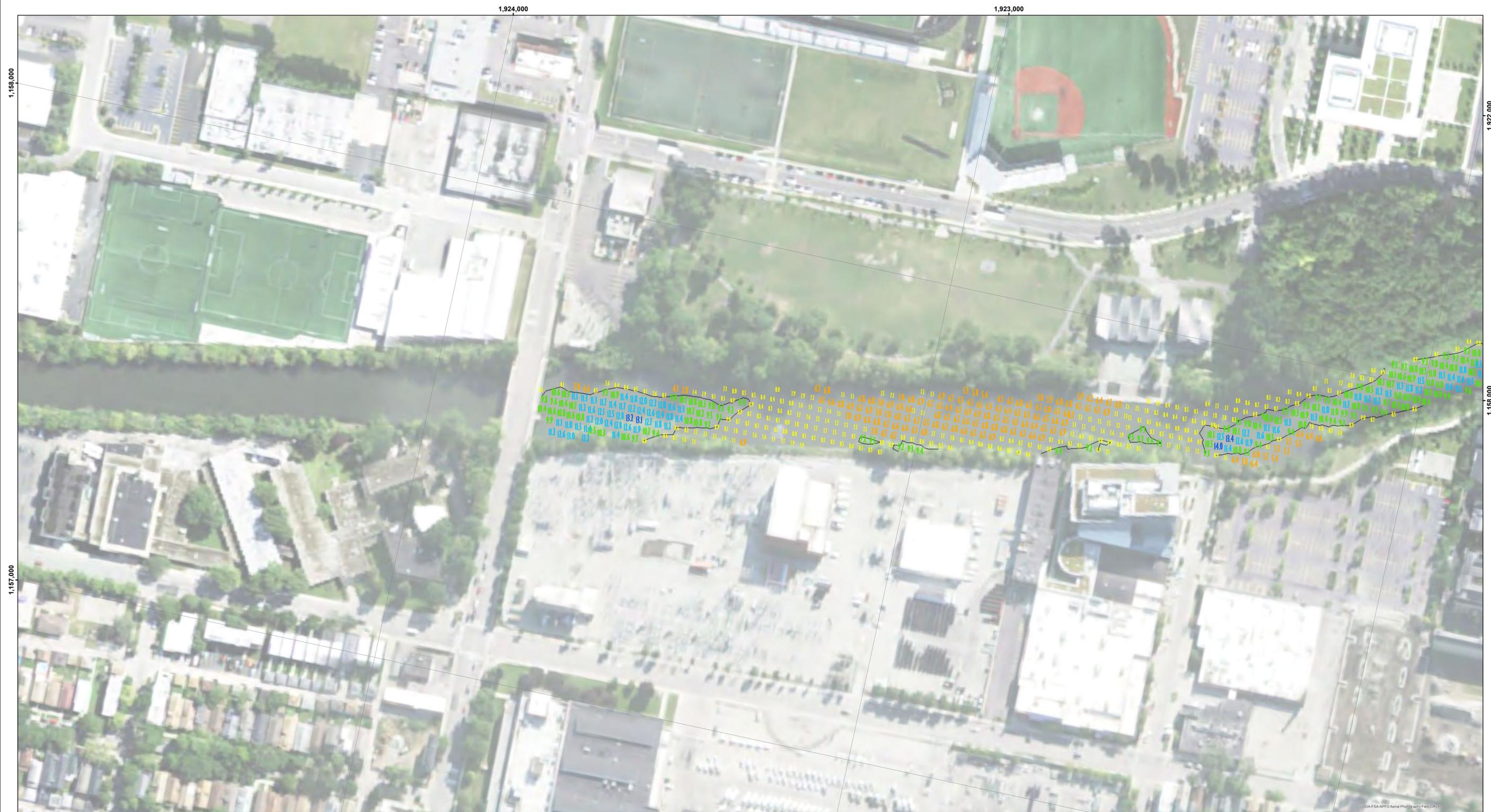
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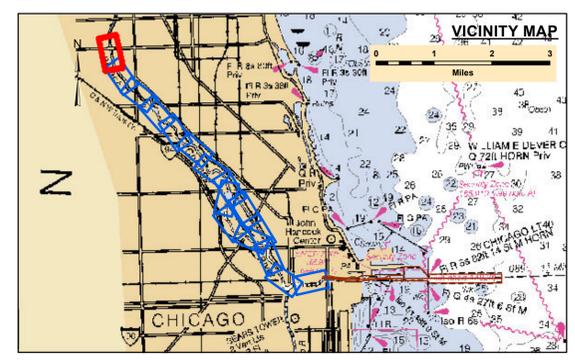
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| U.S. ARMY ENGINEERS<br>CORPS OF ENGINEERS<br>CHICAGO, ILLINOIS |  |
| Surveyed by:<br>American Surveying & Engineering, P.C.         | Mapping:<br>JD Ennis, Chicago District               |
| Reviewed by:<br>Phil Horstman, Chicago District                | Path:<br>G:\hydro\msh\MOX\LC_11_CHR_201404_CS_20.mxd |

**CHICAGO RIVER**  
LC\_11\_CHR\_20140404\_CS\_20  
04 April 2014

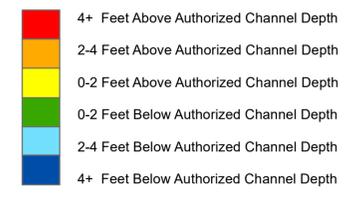
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Revision Number:  
3.14-2017031

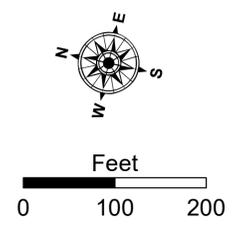


**LEGEND**

|                                  |                     |                         |
|----------------------------------|---------------------|-------------------------|
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| — Federal Navigation Center Line | ▭ Placement Area    | ● Shoalest Sounding**   |
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