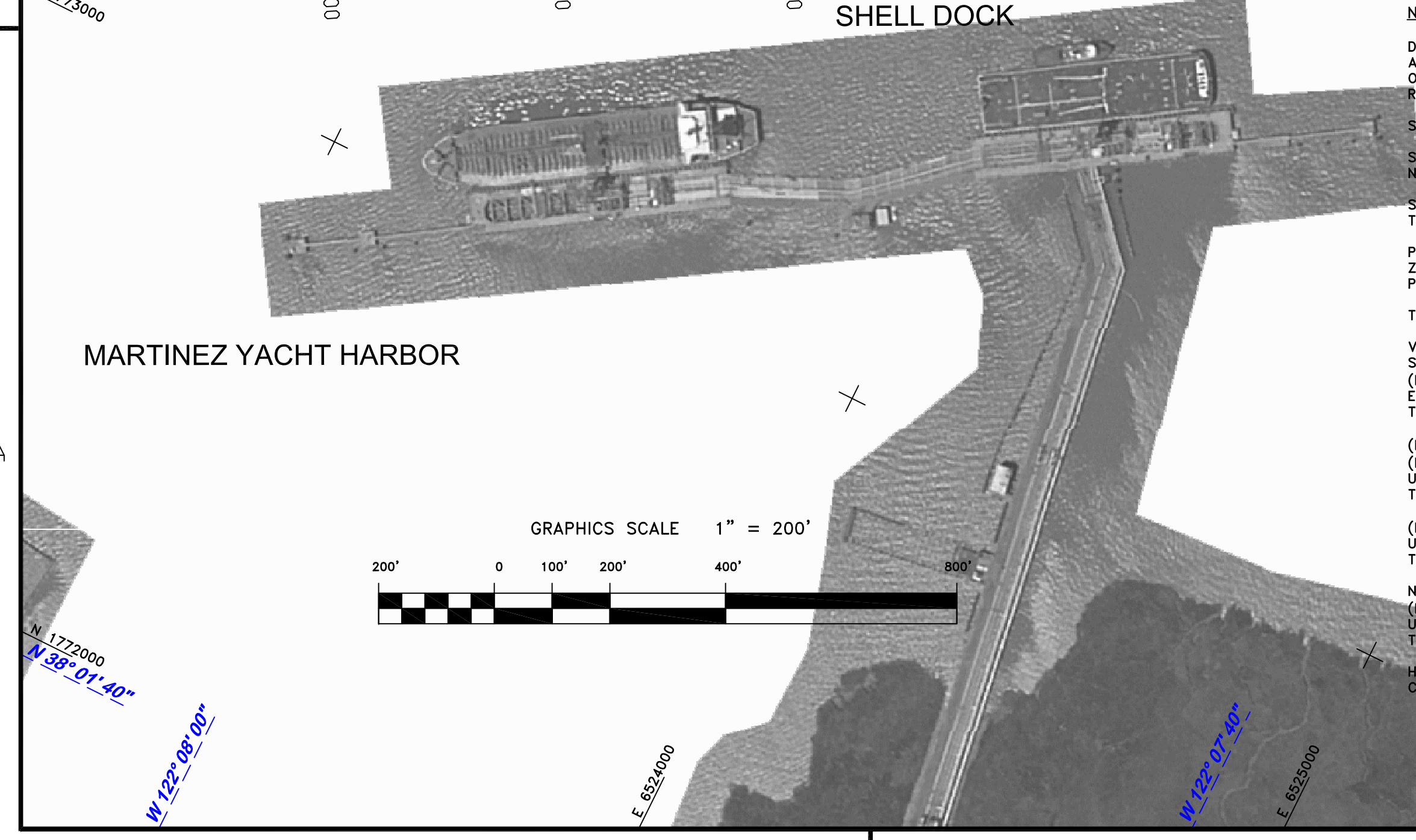


| NAD 83 CHANNEL ANGLE POINTS | | | | | |
|-----------------------------|------------|------------|-----|------------|-------------|
| PT | X | Y | PT | X | Y |
| 1-A | 6522058.94 | 1773894.77 | 46 | 661103.07 | 1772096.82 |
| 2-A | 6525876.51 | 1775995.50 | 47 | 6612148.35 | 1771412.18 |
| 3 | 6522251.24 | 1773544.02 | 48 | 6611928.32 | 1771078.24 |
| 4 | 6526814.71 | 1776043.48 | 49 | 6610969.28 | 1771713.32 |
| 5 | 6527523.96 | 1776423.75 | 50 | 6609051.08 | 1775940.19 |
| 6 | 6532628.85 | 1779160.81 | 51 | 6607366.28 | 1771677.36 |
| 7 | 653058.01 | 1779418.58 | 52 | 6606234.39 | 1771743.72 |
| 8 | 6534087.47 | 1779856.02 | 53 | 6605546.71 | 1772090.55 |
| 9 | 6538142.48 | 1781404.93 | 54 | 6605222.02 | 1772254.31 |
| 10 | 6541140.44 | 1783407.77 | 55 | 6604935.26 | 1772457.79 |
| 11 | 6543746.50 | 1785148.80 | 56 | 6604271.82 | 1772822.60 |
| 12 | 6546257.51 | 1786960.74 | 57 | 6603528.42 | 1772966.17 |
| 13 | 6549181.52 | 1788680.68 | 58 | 660263.32 | 1773215.96 |
| 14 | 655394.16 | 178454.99 | 59 | 6599652.22 | 1773314.41 |
| 15 | 655890.55 | 178452.57 | 60 | 6599077.86 | 1773543.71 |
| 16 | 6561371.57 | 1783800.48 | 61 | 6598135.33 | 1774014.34 |
| 17 | 6563022.20 | 1783817.72 | 62 | 659688.12 | 1774746.95 |
| 18 | 6566631.60 | 1783855.42 | 63 | 6595938.27 | 1775223.39 |
| 19 | 6570705.41 | 178336.79 | 64 | 6595391.45 | 1775902.10 |
| 20 | 6572444.64 | 1783115.37 | 65 | 6594404.78 | 1777464.31 |
| 21 | 6574974.06 | 1782266.36 | 66 | 6593931.34 | 1778160.67 |
| 22 | 6578022.73 | 1780780.80 | 67 | 6591480.44 | 1778412.52 |
| 23 | 6581155.52 | 1779254.25 | 68 | 6591255.17 | 1778442.21 |
| 24 | 6583747.56 | 1778351.30 | 69 | 6590791.21 | 1778418.32 |
| 25 | 6585358.69 | 1778330.50 | 70 | 6588528.94 | 1777967.81 |
| 26 | 6587244.64 | 1778115.37 | 71 | 6588297.54 | 1777983.71 |
| 27 | 6589075.42 | 1778766.38 | 72 | 6588086.58 | 1778004.51 |
| 28 | 6591256.10 | 1778845.54 | 73 | 6586492.20 | 1778399.83 |
| 29 | 6593537.77 | 1778544.71 | 74 | 6585795.51 | 1778042.27 |
| 30 | 6594899.78 | 1777747.44 | 75 | 6584841.16 | 1778194.79 |
| 31 | 6596729.72 | 1777115.37 | 76 | 6583266.09 | 1778272.55 |
| 32 | 6598208.21 | 1775521.70 | 77 | 6582644.56 | 1778299.71 |
| 33 | 6598484.81 | 1775104.81 | 78 | 6582086.36 | 1778487.06 |
| 34 | 6598253.91 | 1774402.21 | 79 | 6581532.98 | 1778450.27 |
| 35 | 6598256.55 | 1773901.57 | 80 | 6581295.27 | 17783090.31 |
| 36 | 6598759.13 | 1773700.67 | 81 | 6580802.32 | 1778228.44 |
| 37 | 6600293.83 | 1773614.79 | 82 | 6580332.24 | 1778372.55 |
| 38 | 6603558.93 | 1773364.99 | 83 | 657957.47 | 1778295.89 |
| 39 | 6604408.52 | 1773200.93 | 84 | 6578919.62 | 1778208.28 |
| 40 | 6605166.76 | 177283.99 | 85 | 6578365.01 | 1778352.69 |
| 41 | 6605493.42 | 1772571.98 | 86 | 6577865.58 | 1778066.44 |
| 42 | 6605666.08 | 1772482.32 | 87 | 6577378.89 | 1777605.88 |
| 43 | 6606339.33 | 1772133.75 | 88 | 6576858.58 | 1777165.58 |
| 44 | 6607329.74 | 1772075.69 | 89 | 6576328.18 | 1777011.77 |
| 45 | 6608314.54 | 1772257.76 | 90 | 6575828.18 | 1776220.90 |
| | | | 91 | 6575337.77 | 1775417.41 |
| | | | 92 | 6574841.16 | 1774746.95 |
| | | | 93 | 6574351.30 | 1774014.34 |
| | | | 94 | 6573861.58 | 1773215.96 |
| | | | 95 | 6573371.82 | 1772457.79 |
| | | | 96 | 6572881.08 | 1771677.36 |
| | | | 97 | 6572390.55 | 1770896.81 |
| | | | 98 | 6571900.02 | 1770115.37 |
| | | | 99 | 6571410.44 | 1769334.80 |
| | | | 100 | 6570920.80 | 1768553.26 |

| CENTERLINE ANGLE POINTS | | | | | |
|-------------------------|------------|------------|-----|------------|------------|
| PT | X | Y | PT | X | Y |
| C1 | 6522323.35 | 1773412.49 | C11 | 6546288.60 | 1785786.87 |
| C2 | 6526711.37 | 1775815.85 | C12 | 6549158.86 | 1785904.81 |
| C3 | 6528885.44 | 1775911.19 | C13 | 6553535.71 | 1784325.19 |
| C4 | 6527589.77 | 1776288.53 | C14 | 6557693.36 | 1784280.03 |
| C5 | 6532699.46 | 1779028.53 | C15 | 6561362.27 | 1783625.37 |
| C6 | 6533138.36 | 1779260.42 | C16 | 6562991.28 | 1783642.39 |
| C7 | 6534162.72 | 1779693.62 | C17 | 6566621.42 | 1783680.31 |
| C8 | 6538223.29 | 1781248.49 | C18 | 6570674.99 | 1783164.25 |
| C9 | 6541217.85 | 1783249.04 | C19 | 6574405.37 | 1782943.96 |
| C10 | 6543823.49 | 1784989.77 | C20 | 6574907.61 | 1782104.08 |
| C11 | 6546288.60 | 1785786.87 | C21 | 6577991.12 | 1780601.54 |
| C12 | 6549158.86 | 1785904.81 | C22 | 6581078.86 | 1779096.94 |
| C13 | 6553535.71 | 1784325.19 | C23 | 6583717.07 | 1778177.91 |
| C14 | 6557693.36 | 1784280.03 | C24 | 6585328.12 | 1778157.11 |
| C15 | 6561362.27 | 1783625.37 | C25 | 6586510.54 | 1778141.84 |
| C16 | 6562991.28 | 1783642.39 | C26 | 658772.82 | 1778592.35 |
| C17 | 6566621.42 | 1783680.31 | C27 | 6591255.63 | 1778643.88 |
| C18 | 6570674.99 | 1783164.25 | C28 | 6591539.73 | 1778606.44 |
| C19 | 6574405.37 | 1782943.96 | C29 | 6593465.01 | 1778352.69 |
| C20 | 6574907.61 | 1782104.08 | C30 | 6594552.75 | 1777605.88 |
| C21 | 6577991.12 | 1780601.54 | C31 | 6595690.59 | 1776008.84 |
| C22 | 6581078.86 | 1779096.94 | C32 | 6596079.24 | 1775372.55 |
| C23 | 6583717.07 | 1778177.91 | C33 | 6596757.47 | 1774925.89 |
| C24 | 6585328.12 | 1778157.11 | C34 | 6598194.62 | 1774208.28 |
| C25 | 6586510.54 | 1778141.84 | C35 | 6599167.21 | 1773722.64 |
| C26 | 658772.82 | 1778592.35 | C36 | 6599705.67 | 1773506.74 |
| C27 | 6591255.63 | 1778643.88 | C37 | 6600278.59 | 1773415.38 |
| C28 | 6591539.73 | 1778606.44 | C38 | 6600543.68 | 1773165.58 |
| C29 | 6593465.01 | 1778352.69 | C39 | 6604340.18 | 1773011.77 |
| C30 | 6594552.75 | 1777605.88 | C40 | 6605051.02 | 1772620.90 |
| C31 | 6595690.59 | 1776008.84 | C41 | 6605337.77 | 1772417.41 |
| C32 | 6596079.24 | 1775372.55 | C42 | 6605605.37 | 1772282.44 |
| C33 | 6596757.47 | 1774925.89 | C43 | 6606286.56 | 1771936.73 |
| C34 | 6598194.62 | 1774208.28 | C44 | 6607340.01 | 1771870.53 |
| C35 | 6599167.21 | 1773722.64 | C45 | 6608332.80 | 1772058.59 |
| C36 | 6599705.67 | 1773506.74 | C46 | 661036.18 | 1771905.32 |
| C37 | 6600278.59 | 1773415.38 | C47 | 6612038.33 | 1771245.21 |
| C38 | 6600543.68 | 1773165.58 | | | |
| C39 | 6604340.18 | 1773011.77 | | | |
| C40 | 6605051.02 | 1772620.90 | | | |
| C41 | 6605337.77 | 1772417.41 | | | |
| C42 | 6605605.37 | 1772282.44 | | | |
| C43 | 6606286.56 | 1771936.73 | | | |
| C44 | 6607340.01 | 1771870.53 | | | |
| C45 | 6608332.80 | 1772058.59 | | | |
| C46 | 661036.18 | 1771905.32 | | | |
| C47 | 6612038.33 | 1771245.21 | | | |



| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-------|
| 54.7 | 54.9 | 55.0 | 55.1 | 55.2 | 55.3 | 55.4 | 55.5 | 55.6 | 55.7 | 55.8 | 55.9 | 56.0 | 56.1 | 56.2 | 56.3 | 56.4 | 56.5 | 56.6 | 56.7 | 56.8 | 56.9 | 57.0 | 57.1 | 57.2 | 57.3 | 57.4 | 57.5 | 57.6 | 57.7 | 57.8 | 57.9 | 58.0 | 58.1 | 58.2 | 58.3 | 58.4 | 58.5 | 58.6 | 58.7 | 58.8 | 58.9 | 59.0 | 59.1 | 59.2 | 59.3 | 59.4 | 59.5 | 59.6 | 59.7 | 59.8 | 59.9 | 60.0 | 60.1 | 60.2 | 60.3 | 60.4 | 60.5 | 60.6 | 60.7 | 60.8 | 60.9 | 61.0 | 61.1 | 61.2 | 61.3 | 61.4 | 61.5 | 61.6 | 61.7 | 61.8 | 61.9 | 62.0 | 62.1 | 62.2 | 62.3 | 62.4 | 62.5 | 62.6 | 62.7 | 62.8 | 62.9 | 63.0 | 63.1 | 63.2 | 63.3 | 63.4 | 63.5 | 63.6 | 63.7 | 63.8 | 63.9 | 64.0 | 64.1 | 64.2 | 64.3 | 64.4 | 64.5 | 64.6 | 64.7 | 64.8 | 64.9 | 65.0 | 65.1 | 65.2 | 65.3 | 65.4 | 65.5 | 65.6 | 65.7 | 65.8 | 65.9 | 66.0 | 66.1 | 66.2 | 66.3 | 66.4 | 66.5 | 66.6 | 66.7 | 66.8 | 66.9 | 67.0 | 67.1 | 67.2 | 67.3 | 67.4 | 67.5 | 67.6 | 67.7 | 67.8 | 67.9 | 68.0 | 68.1 | 68.2 | 68.3 | 68.4 | 68.5 | 68.6 | 68.7 | 68.8 | 68.9 | 69.0 | 69.1 | 69.2 | 69.3 | 69.4 | 69.5 | 69.6 | 69.7 | 69.8 | 69.9 | 70.0 | 70.1 | 70.2 | 70.3 | 70.4 | 70.5 | 70.6 | 70.7 | 70.8 | 70.9 | 71.0 | 71.1 | 71.2 | 71.3 | 71.4 | 71.5 | 71.6 | 71.7 | 71.8 | 71.9 | 72.0 | 72.1 | 72.2 | 72.3 | 72.4 | 72.5 | 72.6 | 72.7 | 72.8 | 72.9 | 73.0 | 73.1 | 73.2 | 73.3 | 73.4 | 73.5 | 73.6 | 73.7 | 73.8 | 73.9 | 74.0 | 74.1 | 74.2 | 74.3 | 74.4 | 74.5 | 74.6 | 74.7 | 74.8 | 74.9 | 75.0 | 75.1 | 75.2 | 75.3 | 75.4 | 75.5 | 75.6 | 75.7 | 75.8 | 75.9 | 76.0 | 76.1 | 76.2 | 76.3 | 76.4 | 76.5 | 76.6 | 76.7 | 76.8 | 76.9 | 77.0 | 77.1 | 77.2 | 77.3 | 77.4 | 77.5 | 77.6 | 77.7 | 77.8 | 77.9 | 78.0 | 78.1 | 78.2 | 78.3 | 78.4 | 78.5 | 78.6 | 78.7 | 78.8 | 78.9 | 79.0 | 79.1 | 79.2 | 79.3 | 79.4 | 79.5 | 79.6 | 79.7 | 79.8 | 79.9 | 80.0 | 80.1 | 80.2 | 80.3 | 80.4 | 80.5 | 80.6 | 80.7 | 80.8 | 80.9 | 81.0 | 81.1 | 81.2 | 81.3 | 81.4 | 81.5 | 81.6 | 81.7 | 81.8 | 81.9 | 82.0 | 82.1 | 82.2 | 82.3 | 82.4 | 82.5 | 82.6 | 82.7 | 82.8 | 82.9 | 83.0 | 83.1 | 83.2 | 83.3 | 83.4 | 83.5 | 83.6 | 83.7 | 83.8 | 83.9 | 84.0 | 84.1 | 84.2 | 84.3 | 84.4 | 84.5 | 84.6 | 84.7 | 84.8 | 84.9 | 85.0 | 85.1 | 85.2 | 85.3 | 85.4 | 85.5 | 85.6 | 85.7 | 85.8 | 85.9 | 86.0 | 86.1 | 86.2 | 86.3 | 86.4 | 86.5 | 86.6 | 86.7 | 86.8 | 86.9 | 87.0 | 87.1 | 87.2 | 87.3 | 87.4 | 87.5 | 87.6 | 87.7 | 87.8 | 87.9 | 88.0 | 88.1 | 88.2 | 88.3 | 88.4 | 88.5 | 88.6 | 88.7 | 88.8 | 88.9 | 89.0 | 89.1 | 89.2 | 89.3 | 89.4 | 89.5 | 89.6 | 89.7 | 89.8 | 89.9 | 90.0 | 90.1 | 90.2 | 90.3 | 90.4 | 90.5 | 90.6 | 90.7 | 90.8 | 90.9 | 91.0 | 91.1 | 91.2 | 91.3 | 91.4 | 91.5 | 91.6 | 91.7 | 91.8 | 91.9 | 92.0 | 92.1 | 92.2 | 92.3 | 92.4 | 92.5 | 92.6 | 92.7 | 92.8 | 92.9 | 93.0 | 93.1 | 93.2 | 93.3 | 93.4 | 93.5 | 93.6 | 93.7 | 93.8 | 93.9 | 94.0 | 94.1 | 94.2 | 94.3 | 94.4 | 94.5 | 94.6 | 94.7 | 94.8 | 94.9 | 95.0 | 95.1 | 95.2 | 95.3 | 95.4 | 95.5 | 95.6 | 95.7 | 95.8 | 95.9 | 96.0 | 96.1 | 96.2 | 96.3 | 96.4 | 96.5 | 96.6 | 96.7 | 96.8 | 96.9 | 97.0 | 97.1 | 97.2 | 97.3 | 97.4 | 97.5 | 97.6 | 97.7 | 97.8 | 97.9 | 98.0 | 98.1 | 98.2 | 98.3 | 98.4 | 98.5 | 98.6 | 98.7 | 98.8 | 98.9 | 99.0 | 99.1 | 99.2 | 99.3 | 99.4 | 99.5 | 99.6 | 99.7 | 99.8 | 99.9 | 100.0 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-------|



NOTES:

DRAWINGS NOT TO BE USED AS NAVIGATION. ONLY CHANNEL CONDITION AT DATE OF SURVEY. THE LOCATION OF ALL NAVIGATION AIDS ARE BASED ON INFORMATION PROVIDED BY THE U.S. COAST GUARD. BUOY LOCATION REPRESENT THE POSITION OF THE SINKER ONLY.

SOUNDINGS WERE TAKEN BY FATHOMETER AND ARE SHOWN TO THE NEAREST TENTH OF A FOOT.

SOUNDINGS ARE BASED ON THE DATUM OF MEAN LOWER LOW WATER AT THE LOCALITY, NAVD 88.

PLANE GRID AND COORDINATES ARE BASE