

Bid Date 04/08/16

**\*\* ESTIMATING BAR LIST \*\***

[illegible]

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| LINE | LA                                            | EP | A/D | STRUCTURE | MULT | REQ | CODE | + | X | QTY | SZ/GR | LENGTH | B | COMMENT | LINE KG |
|------|-----------------------------------------------|----|-----|-----------|------|-----|------|---|---|-----|-------|--------|---|---------|---------|
| 24   | EXCLUSIONS:                                   |    |     |           |      |     |      |   |   |     |       |        |   |         |         |
| 25   | 1.REBAR WELDED TO STRUCTURAL STEEL            |    |     |           |      |     |      |   |   |     |       |        |   |         |         |
| 26   |                                               |    |     |           |      |     |      |   |   |     |       |        |   |         |         |
| 27   | INCLUSIONS:                                   |    |     |           |      |     |      |   |   |     |       |        |   |         |         |
| 28   | 1.COLUMN FOOTING                              |    |     |           |      |     |      |   |   |     |       |        |   |         |         |
| 29   | 2.WALL FOOTING                                |    |     |           |      |     |      |   |   |     |       |        |   |         |         |
| 30   | 3.MAT SLAB                                    |    |     |           |      |     |      |   |   |     |       |        |   |         |         |
| 31   | 4.CONCRETE PILASTER                           |    |     |           |      |     |      |   |   |     |       |        |   |         |         |
| 32   | 5.CONCRETE WALL                               |    |     |           |      |     |      |   |   |     |       |        |   |         |         |
| 33   | 6.CONCRETE COLUMN                             |    |     |           |      |     |      |   |   |     |       |        |   |         |         |
| 34   | 7.CONCRETE BEAM                               |    |     |           |      |     |      |   |   |     |       |        |   |         |         |
| 35   | 8.UPPER LEVELS                                |    |     |           |      |     |      |   |   |     |       |        |   |         |         |
| 36   | 9.CMU WALL                                    |    |     |           |      |     |      |   |   |     |       |        |   |         |         |
| 37   |                                               |    |     |           |      |     |      |   |   |     |       |        |   |         |         |
| 38   | ASSUMPSIONS:                                  |    |     |           |      |     |      |   |   |     |       |        |   |         |         |
| 39   | 1.WE ASSUMED REINF, FOR CA COLUMN.            |    |     |           |      |     |      |   |   |     |       |        |   |         |         |
| 40   |                                               |    |     |           |      |     |      |   |   |     |       |        |   |         |         |
| 41   | NOTES:                                        |    |     |           |      |     |      |   |   |     |       |        |   |         |         |
| 42   | 1.REBAR ACCESSORIES: AS PER STANDARD PRACTICE |    |     |           |      |     |      |   |   |     |       |        |   |         |         |
| 43   |                                               |    |     |           |      |     |      |   |   |     |       |        |   |         |         |
| 44   | FOUNDATION                                    |    |     |           |      |     |      |   |   |     |       |        |   |         |         |
| 45   | >COL FOOTING COLUMN FOOTING                   |    |     |           |      |     |      |   |   |     |       |        |   |         |         |
| 46   | MARK-F1                                       |    |     |           |      |     |      |   |   |     |       |        |   |         |         |

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|------------|----|----|-----|-----------|------|-----|------|---|----|-----|-----------|--------|---|---------|---------|
| 47         |    |    |     |           |      |     |      |   | 19 | 8   | 20m Gr420 | 1500   |   | BOT SW  | 536     |
| 48         |    |    |     |           |      |     |      |   | 19 | 6   | 20m Gr420 | 2200   |   | BOT LW  | 590     |
| 49 MARK-F2 |    |    |     |           |      |     |      |   |    |     |           |        |   |         |         |
| 50         |    |    |     |           |      |     |      |   | 42 | 8   | 25m Gr420 | 2800   |   | BOT LW  | 3691    |
| 51         |    |    |     |           |      |     |      |   | 42 | 10  | 20m Gr420 | 2200   |   | BOT SW  | 2175    |
| 52 MARK-F3 |    |    |     |           |      |     |      |   |    |     |           |        |   |         |         |
| 53         |    |    |     |           |      |     |      |   | 38 | 11  | 25m Gr420 | 3200   |   | BOT LW  | 5249    |
| 54         |    |    |     |           |      |     |      |   | 38 | 13  | 25m Gr420 | 2500   |   | BOT SW  | 4846    |
| 55 MARK-F4 |    |    |     |           |      |     |      |   |    |     |           |        |   |         |         |
| 56         |    |    |     |           |      | 7   |      |   | 2  | 7   | 25m Gr420 | 5700   |   | LW T&B  | 2192    |
| 57         |    |    |     |           |      | 7   |      |   | 2  | 20  | 20m Gr420 | 2000   |   | SW T&B  | 1318    |
| 58         |    |    |     |           |      | 7   |      |   |    | 8   | 15m Gr420 | 2250   | H | STANDEE | 197     |
| 59 MARK-F5 |    |    |     |           |      |     |      |   |    |     |           |        |   |         |         |
| 60         |    |    |     |           |      |     |      |   | 2  | 6   | 25m Gr420 | 6650   |   | LW T&B  | 312     |
| 61         |    |    |     |           |      |     |      |   | 2  | 23  | 20m Gr420 | 1600   |   | SW T&B  | 173     |
| 62         |    |    |     |           |      |     |      |   |    | 8   | 15m Gr420 | 2250   | H | STANDEE | 28      |
| 63 MARK-F6 |    |    |     |           |      |     |      |   |    |     |           |        |   |         |         |
| 64         |    |    |     |           |      |     |      |   | 2  | 8   | 25m Gr420 | 6650   |   | LW T&B  | 417     |
| 65         |    |    |     |           |      |     |      |   | 2  | 23  | 20m Gr420 | 2000   |   | SW T&B  | 216     |
| 66         |    |    |     |           |      |     |      |   |    | 10  | 15m Gr420 | 2250   | H | STANDEE | 35      |
| 67 MARK-F7 |    |    |     |           |      |     |      |   |    |     |           |        |   |         |         |
| 68         |    |    |     |           |      |     |      |   | 11 | 9   | 20m Gr420 | 1200   |   | BOT SW  | 279     |
| 69         |    |    |     |           |      |     |      |   | 11 | 5   | 20m Gr420 | 2500   |   | BOT LW  | 323     |

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| 70 MARK-F8                              |    |    |     |           |      |     |      |   |     |     |           |        |   |                |         |
| 71                                      |    |    |     |           |      |     |      |   | 9   | 11  | 20m Gr420 | 2000   |   | BOT SW         | 466     |
| 72                                      |    |    |     |           |      |     |      |   | 9   | 7   | 20m Gr420 | 3000   |   | BOT LW         | 444     |
| 73 MARK-F9                              |    |    |     |           |      |     |      |   |     |     |           |        |   |                |         |
| 74                                      |    |    |     |           |      |     |      |   | 6   | 6   | 20m Gr420 | 1750   |   | BOT SW         | 148     |
| 75                                      |    |    |     |           |      |     |      |   | 6   | 6   | 20m Gr420 | 1750   |   | BOT LW         | 148     |
| 76 MARK-F10                             |    |    |     |           |      |     |      |   |     |     |           |        |   |                |         |
| 77                                      |    |    |     |           |      |     |      |   | 6   | 9   | 20m Gr420 | 2000   |   | BOT SW         | 254     |
| 78                                      |    |    |     |           |      |     |      |   | 6   | 7   | 25m Gr420 | 2500   |   | BOT LW         | 411     |
| 79                                      |    |    |     |           |      |     |      |   |     |     |           |        |   |                |         |
| 80 >CON PILASTER CONCRETE PILASTER      |    |    |     |           |      |     |      |   |     |     |           |        |   |                |         |
| 81 MARK-P1                              |    |    |     |           |      |     |      |   |     |     |           |        |   |                |         |
| 82                                      |    |    |     |           |      |     |      |   | 7   | 12  | 20m Gr420 | 1945   | H | 12-20 D/V      | 384     |
| 83                                      |    |    |     |           |      |     |      |   | 7   | 5   | 10m Gr420 | 3080   | L | 10 @300 @ TIES | 84      |
| 84                                      |    |    |     |           |      | 7   |      |   | 2   | 5   | 10m Gr420 | 2055   | L | 10 @300 @ TIES | 112     |
| 85                                      |    |    |     |           |      |     |      |   | 7   | 8   | 10m Gr420 | 2000   | H | 8-20 DWL       | 87      |
| 86                                      |    |    |     |           |      |     |      |   |     |     |           |        |   |                |         |
| 87 >BSMT COL BSMT LEVEL CONCRETE COLUMN |    |    |     |           |      |     |      |   |     |     |           |        |   |                |         |
| 88 MARK-C1                              |    |    |     |           |      |     |      |   |     |     |           |        |   |                |         |
| 89                                      |    |    |     |           |      |     |      |   | 116 | 10  | 25m Gr420 | 1550   | H | 10-25 DWL      | 7056    |
| 90                                      |    |    |     |           |      |     |      |   | 116 | 10  | 25m Gr420 | 3800   |   | 10-25 VERT     | 17298   |
| 91                                      |    |    |     |           |      | 116 |      |   | 2   | 12  | 10m Gr420 | 1600   | L | 10 @ 300 TIES  | 3493    |
| 92                                      |    |    |     |           |      |     |      |   | 116 | 12  | 10m Gr420 | 420    | L | 10 @ 300 LINKS | 458     |

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|-------------|----|----|-----|-----------|------|-----|------|---|-----|-----|-----------|--------|---|----------------|---------|
| 93          |    |    |     |           |      | 116 |      |   | 2   | 5   | 10m Gr420 | 1600   | L | 5-10 TIES TOP  | 1455    |
| 94          |    |    |     |           |      |     |      |   | 116 | 5   | 10m Gr420 | 420    | L | 5-10 LINKS TOP | 190     |
| 95 MARK-C2  |    |    |     |           |      |     |      |   |     |     |           |        |   |                |         |
| 96          |    |    |     |           |      |     |      |   | 11  | 8   | 20m Gr420 | 1550   | H | 8-20 DWL       | 321     |
| 97          |    |    |     |           |      |     |      |   | 11  | 8   | 20m Gr420 | 4800   |   | 8-20 VERT      | 994     |
| 98          |    |    |     |           |      |     |      |   | 11  | 12  | 10m Gr420 | 1400   | L | 10 @ 300 TIES  | 145     |
| 99          |    |    |     |           |      |     |      |   | 11  | 5   | 10m Gr420 | 1400   | L | 5-10 TIES TOP  | 60      |
| 100 MARK-C3 |    |    |     |           |      |     |      |   |     |     |           |        |   |                |         |
| 101         |    |    |     |           |      |     |      |   | 2   | 10  | 25m Gr420 | 1550   | H | 10-25 DWL      | 121     |
| 102         |    |    |     |           |      |     |      |   | 2   | 10  | 25m Gr420 | 4800   |   | 10-25 VERT     | 376     |
| 103         |    |    |     |           |      |     |      |   | 2   | 12  | 10m Gr420 | 3000   | L | 10 @ 300 TIES  | 56      |
| 104         |    |    |     |           |      |     |      |   | 2   | 12  | 10m Gr420 | 1800   | L | 10 @ 300 TIES  | 34      |
| 105         |    |    |     |           |      |     |      |   | 2   | 5   | 10m Gr420 | 3000   | L | 5-10 TIES TOP  | 23      |
| 106         |    |    |     |           |      |     |      |   | 2   | 5   | 10m Gr420 | 1800   | L | 5-10 TIES TOP  | 14      |
| 107 MARK-C4 |    |    |     |           |      |     |      |   |     |     |           |        |   |                |         |
| 108         |    |    |     |           |      |     |      |   | 5   | 8   | 25m Gr420 | 1550   | H | 8-25 DWL       | 243     |
| 109         |    |    |     |           |      |     |      |   | 5   | 8   | 25m Gr420 | 3800   |   | 8-25 VERT      | 596     |
| 110         |    |    |     |           |      |     |      |   | 5   | 15  | 10m Gr420 | 1570   | L | 10 @ 250 TIES  | 92      |
| 111         |    |    |     |           |      |     |      |   | 5   | 5   | 10m Gr420 | 1570   | L | 5-10 TIES TOP  | 30      |
| 112 MARK-C5 |    |    |     |           |      |     |      |   |     |     |           |        |   |                |         |
| 113         |    |    |     |           |      |     |      |   | 2   | 14  | 20m Gr420 | 1550   | H | 14-20 DWL      | 102     |
| 114         |    |    |     |           |      |     |      |   | 2   | 14  | 20m Gr420 | 4800   |   | 14-20 VERT     | 316     |
| 115         |    |    |     |           |      |     |      |   | 2   | 15  | 10m Gr420 | 2580   | L | 10 @ 250 TIES  | 60      |

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| 116         |    |    |     |           |      |     |      |   | 2  | 15  | 10m Gr420 | 1195   | L | 10 @ 250 TIES | 28      |
| 117         |    |    |     |           |      |     |      |   | 2  | 5   | 10m Gr420 | 2580   | L | 5-10 TIES TOP | 20      |
| 118         |    |    |     |           |      |     |      |   | 2  | 5   | 10m Gr420 | 1195   | L | 5-10 TIES TOP | 9       |
| 119 MARK-C6 |    |    |     |           |      |     |      |   |    |     |           |        |   |               |         |
| 120         |    |    |     |           |      |     |      |   | 18 | 14  | 20m Gr420 | 1550   | H | 14-20 DWL     | 919     |
| 121         |    |    |     |           |      |     |      |   | 18 | 14  | 20m Gr420 | 3800   |   | 14-20 VERT    | 2254    |
| 122         |    |    |     |           |      |     |      |   | 18 | 15  | 10m Gr420 | 3500   | L | 10 @ 250 TIES | 741     |
| 123         |    |    |     |           |      |     |      |   | 18 | 15  | 10m Gr420 | 1620   | L | 10 @ 250 TIES | 342     |
| 124         |    |    |     |           |      |     |      |   | 18 | 5   | 10m Gr420 | 3500   | L | 5-10 TIES TOP | 247     |
| 125         |    |    |     |           |      |     |      |   | 18 | 5   | 10m Gr420 | 1620   | L | 5-10 TIES TOP | 114     |
| 126 MARK-C7 |    |    |     |           |      |     |      |   |    |     |           |        |   |               |         |
| 127         |    |    |     |           |      |     |      |   |    | 10  | 20m Gr420 | 1550   | H | 10-20 DWL     | 36      |
| 128         |    |    |     |           |      |     |      |   |    | 10  | 20m Gr420 | 3800   |   | 10-20 VERT    | 89      |
| 129         |    |    |     |           |      |     |      |   |    | 15  | 10m Gr420 | 2500   | L | 10 @ 250 TIES | 29      |
| 130         |    |    |     |           |      |     |      |   |    | 15  | 10m Gr420 | 1500   | L | 10 @ 250 TIES | 17      |
| 131         |    |    |     |           |      |     |      |   |    | 5   | 10m Gr420 | 2500   | L | 5-10 TIES TOP | 9       |
| 132         |    |    |     |           |      |     |      |   |    | 5   | 10m Gr420 | 1500   | L | 5-10 TIES TOP | 5       |
| 133 MARK-C8 |    |    |     |           |      |     |      |   |    |     |           |        |   |               |         |
| 134         |    |    |     |           |      |     |      |   | 4  | 14  | 20m Gr420 | 1550   | H | 14-20 DWL     | 204     |
| 135         |    |    |     |           |      |     |      |   | 4  | 14  | 20m Gr420 | 4800   |   | 14-20 VERT    | 632     |
| 136         |    |    |     |           |      |     |      |   | 4  | 15  | 10m Gr420 | 2900   | L | 10 @250 TIES  | 136     |
| 137         |    |    |     |           |      | 4   |      |   | 2  | 15  | 10m Gr420 | 900    | L | 10 @250 TIES  | 84      |
| 138         |    |    |     |           |      |     |      |   | 4  | 15  | 10m Gr420 | 370    | L | 10 @250 LINKS | 17      |

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| 139                |    |    |     |           |      |          |      |   | 4 | 5   | 10m Gr420 | 2900   | L | 5-10 TIES TOP   | 45      |
| 140                |    |    |     |           |      | 4        |      |   | 4 | 5   | 10m Gr420 | 900    | L | 5-10 TIES TOP   | 56      |
| 141                |    |    |     |           |      |          |      |   | 4 | 5   | 10m Gr420 | 370    | L | 5-10 TOP LINKS  | 5       |
| 142 MARK-C9        |    |    |     |           |      |          |      |   |   |     |           |        |   |                 |         |
| 143                |    |    |     |           |      |          |      |   | 4 | 14  | 20m Gr420 | 1550   | H | 14-20 DWL       | 204     |
| 144                |    |    |     |           |      |          |      |   | 4 | 14  | 20m Gr420 | 4800   |   | 14-20 VERT      | 632     |
| 145                |    |    |     |           |      |          |      |   | 4 | 15  | 10m Gr420 | 3000   | L | 10 @250 TIES    | 141     |
| 146                |    |    |     |           |      | 4        |      |   | 2 | 15  | 10m Gr420 | 920    | L | 10 @250 TIES    | 86      |
| 147                |    |    |     |           |      |          |      |   | 4 | 15  | 10m Gr420 | 370    | L | 10 @250 LINKS   | 17      |
| 148                |    |    |     |           |      |          |      |   | 4 | 5   | 10m Gr420 | 3000   | L | 5-10 TIES TOP   | 47      |
| 149                |    |    |     |           |      | 4        |      |   | 2 | 5   | 10m Gr420 | 920    | L | 5-10 TIES TOP   | 29      |
| 150                |    |    |     |           |      |          |      |   | 4 | 5   | 10m Gr420 | 370    | L | 5-10 TIES LINKS | 5       |
| 151                |    |    |     |           |      |          |      |   |   |     |           |        |   |                 |         |
| 152                |    |    |     | >MAT SLAB |      | MAT SLAB |      |   |   |     |           |        |   |                 |         |
| 153 500MM MAT SLAB |    |    |     |           |      |          |      |   |   |     |           |        |   |                 |         |
| 154                |    |    |     |           |      |          |      |   | 2 | 13  | 20m Gr420 | 6700   | H | 20 @300 T&B LW  | 410     |
| 155                |    |    |     |           |      |          |      |   | 2 | 23  | 20m Gr420 | 3700   | H | 20 @300 T&B SW  | 400     |
| 156                |    |    |     |           |      |          |      |   | 1 | 18  | 15m Gr420 | 2203   | H | 15 STANDEE      | 62      |
| 157 700MM MAT SLAB |    |    |     |           |      |          |      |   |   |     |           |        |   |                 |         |
| 158                |    |    |     |           |      |          |      |   | 2 | 8   | 25m Gr420 | 5210   |   | 25 @300 T&B     | 327     |
| 159                |    |    |     |           |      |          |      |   | 2 | 10  | 20m Gr420 | 2030   |   | 25 @300 T&B     | 95      |
| 160                |    |    |     |           |      |          |      |   | 2 | 8   | 25m Gr420 | 5900   |   | 25 @300 T&B     | 370     |
| 161                |    |    |     |           |      |          |      |   | 2 | 7   | 25m Gr420 | 6906   |   | 25 @300 T&B     | 379     |

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| 162  |    |    |     |           |      |     |      |   | 2 | 15  | 20m Gr420 | 2020   |   | 25 @300 T&B      | 142     |
| 163  |    |    |     |           |      |     |      |   | 2 | 10  | 25m Gr420 | 1352   |   | 25 @350 T&B      | 106     |
| 164  |    |    |     |           |      |     |      |   | 2 | 10  | 25m Gr420 | 1352   |   | 25 @350 T&B      | 106     |
| 165  |    |    |     |           |      |     |      |   | 2 | 9   | 25m Gr420 | 1352   |   | 25 @350 T&B      | 95      |
| 166  |    |    |     |           |      |     |      |   |   | 7   | 25m Gr420 | 2967   |   | 25 @350 TOP      | 81      |
| 167  |    |    |     |           |      | 3   |      |   | 2 | 2   | 25m Gr420 | 12192  |   | 2-25 T&B ADDL    | 574     |
| 168  |    |    |     |           |      |     |      |   |   | 2   | 25m Gr420 | 8872   |   | 2-25 BOT ADDL    | 69      |
| 169  |    |    |     |           |      | 2   |      |   | 2 | 20  | 25m Gr420 | 12192  |   | 25 @350 T&B      | 3827    |
| 170  |    |    |     |           |      |     |      |   | 3 | 2   | 25m Gr420 | 8401   |   | 3x2-25 ADDL      | 197     |
| 171  |    |    |     |           |      |     |      |   | 3 | 2   | 25m Gr420 | 7091   |   | 3x2-25 ADDL      | 166     |
| 172  |    |    |     |           |      |     |      |   | 2 | 2   | 20m Gr420 | 8991   |   | 2x2-20 ADDL      | 84      |
| 173  |    |    |     |           |      |     |      |   |   | 4   | 25m Gr420 | 2420   |   | 4-25 BOT ADDL    | 38      |
| 174  |    |    |     |           |      |     |      |   | 2 | 7   | 20m Gr420 | 12192  |   | 20 @400 BOT      | 401     |
| 175  |    |    |     |           |      |     |      |   | 2 | 7   | 25m Gr420 | 12192  |   | 25 @350 TOP      | 669     |
| 176  |    |    |     |           |      |     |      |   |   | 7   | 25m Gr420 | 5008   |   | 25 @350 TOP      | 137     |
| 177  |    |    |     |           |      |     |      |   |   | 95  | 25m Gr420 | 3510   |   | 25 @350 BOT ADDL | 1308    |
| 178  |    |    |     |           |      |     |      |   |   | 3   | 25m Gr420 | 3575   |   | 25 @700 TOP ADDL | 42      |
| 179  |    |    |     |           |      |     |      |   |   | 11  | 25m Gr420 | 6300   |   | 25 @350 TOP      | 272     |
| 180  |    |    |     |           |      |     |      |   |   | 20  | 25m Gr420 | 6300   |   | 25 @200 BOT      | 494     |
| 181  |    |    |     |           |      | 2   |      |   | 2 | 2   | 25m Gr420 | 12192  |   | 2-25 T&B ADDL    | 382     |
| 182  |    |    |     |           |      |     |      |   |   | 14  | 25m Gr420 | 3521   |   | 25 @350 BOT ADDL | 193     |
| 183  |    |    |     |           |      |     |      |   | 2 | 20  | 25m Gr420 | 1791   |   | 25 @350 T&B      | 281     |
| 184  |    |    |     |           |      |     |      |   | 2 | 19  | 25m Gr420 | 6751   |   | 25 @350 T&B      | 1006    |

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## \*\* ESTIMATING BAR LIST \*\*

| LINE | LA | EP | A/D | STRUCTURE | MULT | REQ | CODE | + | X | QTY | SZ/GR     | LENGTH | B | COMMENT             | LINE KG |
|------|----|----|-----|-----------|------|-----|------|---|---|-----|-----------|--------|---|---------------------|---------|
| 185  |    |    |     |           |      |     |      |   | 2 | 13  | 25m Gr420 | 7754   |   | 25 @350 T&B         | 791     |
| 186  |    |    |     |           |      |     |      |   | 2 | 10  | 25m Gr420 | 1312   |   | 25 @350 T&B         | 102     |
| 187  |    |    |     |           |      |     |      |   | 2 | 25  | 25m Gr420 | 7238   |   | 25 @350 T&B         | 1420    |
| 188  |    |    |     |           |      |     |      |   |   | 22  | 25m Gr420 | 4160   |   | 25 @350 TOP         | 359     |
| 189  |    |    |     |           |      |     |      |   |   | 40  | 25m Gr420 | 4160   |   | 25 @200 BOT         | 653     |
| 190  |    |    |     |           |      |     |      |   |   | 19  | 25m Gr420 | 6475   |   | 25 @350 BOT ADLL    | 482     |
| 191  |    |    |     |           |      |     |      |   |   | 3   | 25m Gr420 | 3142   |   | 25 @700 TOP ADDL    | 37      |
| 192  |    |    |     |           |      |     |      |   |   | 3   | 25m Gr420 | 4190   |   | 25 @700 TOP ADDL    | 49      |
| 193  |    |    |     |           |      |     |      |   |   | 12  | 25m Gr420 | 4135   |   | 25 @200 BOT ADDL    | 194     |
| 194  |    |    |     |           |      |     |      |   |   | 6   | 20m Gr420 | 6013   |   | 6-20 @700 TOP ADDL  | 84      |
| 195  |    |    |     |           |      |     |      |   |   | 9   | 25m Gr420 | 8550   |   | 25 @350 TOP         | 302     |
| 196  |    |    |     |           |      |     |      |   |   | 7   | 25m Gr420 | 6012   |   | 25 @350 TOP         | 165     |
| 197  |    |    |     |           |      |     |      |   |   | 8   | 25m Gr420 | 6012   |   | 25 @300 BOT         | 188     |
| 198  |    |    |     |           |      |     |      |   |   | 7   | 25m Gr420 | 2896   |   | 25 @350 TOP         | 79      |
| 199  |    |    |     |           |      |     |      |   |   | 8   | 25m Gr420 | 2896   |   | 25 @300 BOT         | 90      |
| 200  |    |    |     |           |      |     |      |   |   | 19  | 25m Gr420 | 2965   |   | 25 @200 BOT ADDL    | 220     |
| 201  |    |    |     |           |      |     |      |   |   | 5   | 25m Gr420 | 3534   |   | 25 @700 TOP ADDL    | 69      |
| 202  |    |    |     |           |      |     |      |   |   | 11  | 25m Gr420 | 3530   |   | 25 @350 BOT ADDL    | 152     |
| 203  |    |    |     |           |      |     |      |   | 2 | 10  | 25m Gr420 | 3540   |   | 25 @350 BOT ADDL ES | 278     |
| 204  |    |    |     |           |      |     |      |   |   | 20  | 25m Gr420 | 3535   |   | 25 @350 BOT ADDL    | 277     |
| 205  |    |    |     |           |      | 2   |      |   | 2 | 32  | 25m Gr420 | 12192  |   | 25 @350 T&B         | 6124    |
| 206  |    |    |     |           |      |     |      |   | 2 | 15  | 25m Gr420 | 9255   |   | 25 @350 T&B         | 1089    |
| 207  |    |    |     |           |      |     |      |   | 2 | 5   | 25m Gr420 | 9895   |   | 25 @350 T&B         | 388     |

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## \*\* ESTIMATING BAR LIST \*\*

| LINE | LA | EP | A/D | STRUCTURE | MULT | REQ | CODE | + | X | QTY | SZ/GR     | LENGTH | B | COMMENT            | LINE KG |
|------|----|----|-----|-----------|------|-----|------|---|---|-----|-----------|--------|---|--------------------|---------|
| 208  |    |    |     |           |      |     |      |   |   | 5   | 25m Gr420 | 5247   |   | 6-25 @700 BOT ADDL | 102     |
| 209  |    |    |     |           |      | 2   |      |   | 2 | 25  | 25m Gr420 | 12192  |   | 25 @350 T&B        | 4784    |
| 210  |    |    |     |           |      |     |      |   | 2 | 35  | 25m Gr420 | 5850   |   | 25 @350 T&B        | 1607    |
| 211  |    |    |     |           |      |     |      |   | 2 | 35  | 25m Gr420 | 6333   |   | 25 @350 T&B        | 1739    |
| 212  |    |    |     |           |      |     |      |   |   | 9   | 25m Gr420 | 3262   |   | 25 @350 BOT ADDL   | 115     |
| 213  |    |    |     |           |      |     |      |   |   | 28  | 25m Gr420 | 2535   |   | 25 @350 BOT ADDL   | 278     |
| 214  |    |    |     |           |      |     |      |   |   | 13  | 25m Gr420 | 2535   |   | 25 @350 BOT ADDL   | 129     |
| 215  |    |    |     |           |      |     |      |   |   | 8   | 20m Gr420 | 10830  |   | 8-20 TOP ADDL      | 204     |
| 216  |    |    |     |           |      |     |      |   |   | 8   | 25m Gr420 | 11935  |   | 25 @350 BOT        | 374     |
| 217  |    |    |     |           |      |     |      |   | 2 | 6   | 25m Gr420 | 5525   |   | 6-25 T&B ADDL      | 260     |
| 218  |    |    |     |           |      |     |      |   |   | 7   | 25m Gr420 | 12504  |   | 25 @350 BOT        | 343     |
| 219  |    |    |     |           |      | 2   |      |   | 2 | 19  | 25m Gr420 | 12192  |   | 25 @350 T&B        | 3636    |
| 220  |    |    |     |           |      |     |      |   | 2 | 5   | 25m Gr420 | 5785   |   | 25 @350 T&B        | 226     |
| 221  |    |    |     |           |      |     |      |   |   | 25  | 25m Gr420 | 5838   |   | 25 @200 BOT ADDL   | 572     |
| 222  |    |    |     |           |      |     |      |   |   | 9   | 25m Gr420 | 5283   |   | 25 @350 BOT ADDL   | 186     |
| 223  |    |    |     |           |      |     |      |   |   | 4   | 25m Gr420 | 3905   |   | 25 @700 TOP ADDL   | 61      |
| 224  |    |    |     |           |      |     |      |   |   | 7   | 25m Gr420 | 3075   |   | 25 @350 BOT ADDL   | 84      |
| 225  |    |    |     |           |      | 2   |      |   | 2 | 16  | 25m Gr420 | 12192  |   | 25 @350 T&B        | 3062    |
| 226  |    |    |     |           |      |     |      |   | 2 | 46  | 25m Gr420 | 5545   |   | 25 @350 T&B        | 2002    |
| 227  |    |    |     |           |      |     |      |   |   | 8   | 20m Gr420 | 5545   |   | 8-20 BOT ADDL      | 104     |
| 228  |    |    |     |           |      |     |      |   |   | 2   | 25m Gr420 | 4900   |   | 2-25 BOT ADDL      | 38      |
| 229  |    |    |     |           |      |     |      |   |   | 6   | 25m Gr420 | 5525   |   | 25 @700 TOP ADDL   | 130     |
| 230  |    |    |     |           |      |     |      |   | 2 | 10  | 25m Gr420 | 5550   |   | 25 @350 T&B        | 435     |

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## \*\* ESTIMATING BAR LIST \*\*

| LINE | LA | EP | A/D | STRUCTURE | MULT | REQ | CODE | + | X | QTY | SZ/GR     | LENGTH | B | COMMENT          | LINE KG |
|------|----|----|-----|-----------|------|-----|------|---|---|-----|-----------|--------|---|------------------|---------|
| 231  |    |    |     |           |      |     |      |   | 2 | 3   | 25m Gr420 | 10250  |   | 25 @350 T&B      | 241     |
| 232  |    |    |     |           |      | 4   |      |   | 2 | 9   | 25m Gr420 | 12192  |   | 25 @350 T&B      | 3445    |
| 233  |    |    |     |           |      |     |      |   |   | 36  | 25m Gr420 | 3205   |   | 25 @350 TOP      | 452     |
| 234  |    |    |     |           |      |     |      |   |   | 50  | 25m Gr420 | 3205   |   | 25 @250 BOT      | 628     |
| 235  |    |    |     |           |      |     |      |   |   | 18  | 25m Gr420 | 6025   |   | 25 @700 TOP ADDL | 425     |
| 236  |    |    |     |           |      |     |      |   |   | 9   | 25m Gr420 | 3506   |   | 25 @250 BOT      | 123     |
| 237  |    |    |     |           |      |     |      |   |   | 11  | 25m Gr420 | 2026   |   | 25 @350 BOT      | 87      |
| 238  |    |    |     |           |      |     |      |   |   | 11  | 25m Gr420 | 8975   |   | 25 @350 BOT      | 387     |
| 239  |    |    |     |           |      |     |      |   |   | 40  | 25m Gr420 | 3505   |   | 25 @225 BOT      | 550     |
| 240  |    |    |     |           |      |     |      |   |   | 8   | 25m Gr420 | 3026   |   | 25 @350 BOT      | 94      |
| 241  |    |    |     |           |      |     |      |   |   | 13  | 25m Gr420 | 2705   |   | 25 @250 BOT      | 137     |
| 242  |    |    |     |           |      |     |      |   |   | 16  | 25m Gr420 | 2987   |   | 25 @350 BOT      | 187     |
| 243  |    |    |     |           |      |     |      |   |   | 9   | 25m Gr420 | 5533   |   | 25 @350 BOT      | 195     |
| 244  |    |    |     |           |      |     |      |   |   | 20  | 25m Gr420 | 3495   |   | 25 @250 BOT      | 274     |
| 245  |    |    |     |           |      |     |      |   |   | 14  | 25m Gr420 | 4995   |   | 25 @250 BOT      | 274     |
| 246  |    |    |     |           |      |     |      |   | 2 | 16  | 25m Gr420 | 2987   |   | 25 @350 BOT      | 375     |
| 247  |    |    |     |           |      |     |      |   | 2 | 9   | 25m Gr420 | 5533   |   | 25 @350 BOT      | 391     |
| 248  |    |    |     |           |      |     |      |   |   | 40  | 25m Gr420 | 3500   |   | 25 @225 BOT      | 549     |
| 249  |    |    |     |           |      |     |      |   |   | 10  | 25m Gr420 | 8900   |   | 25 @350 BOT      | 349     |
| 250  |    |    |     |           |      |     |      |   |   | 13  | 25m Gr420 | 4618   |   | 25 @350 TOP      | 235     |
| 251  |    |    |     |           |      |     |      |   |   | 19  | 25m Gr420 | 4618   |   | 25 @250 BOT      | 344     |
| 252  |    |    |     |           |      |     |      |   |   | 19  | 25m Gr420 | 2940   |   | 25 @350 TOP      | 219     |
| 253  |    |    |     |           |      |     |      |   |   | 27  | 25m Gr420 | 2940   |   | 25 @350 BOT      | 311     |

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## \*\* ESTIMATING BAR LIST \*\*

| LINE               | LA | EP | A/D | STRUCTURE  | MULT | REQ                | CODE | + | X  | QTY | SZ/GR     | LENGTH | B | COMMENT           | LINE KG |
|--------------------|----|----|-----|------------|------|--------------------|------|---|----|-----|-----------|--------|---|-------------------|---------|
| 254                |    |    |     |            |      |                    |      |   |    | 10  | 25m Gr420 | 1990   |   | 25 @350 BOT       | 78      |
| 255                |    |    |     |            |      |                    |      |   |    | 8   | 25m Gr420 | 3495   |   | 25 @250 BOT       | 109     |
| 256                |    |    |     |            |      | 2                  |      |   | 2  | 4   | 20m Gr420 | 12192  |   | 20 @300 T&B       | 459     |
| 257                |    |    |     |            |      |                    |      |   | 2  | 33  | 20m Gr420 | 2015   |   | 20 @300 T&B       | 312     |
| 258                |    |    |     |            |      |                    |      |   | 2  | 7   | 20m Gr420 | 10935  |   | 20 @300 T&B       | 360     |
| 259                |    |    |     |            |      |                    |      |   | 2  | 38  | 20m Gr420 | 1215   |   | 20 @300 T&B       | 217     |
| 260                |    |    |     |            |      |                    |      |   |    | 7   | 25m Gr420 | 3262   |   | 25 @300 BOT ADDL  | 89      |
| 261                |    |    |     |            |      |                    |      |   |    | 700 | 15m Gr420 | 2604   | H | 15 STANDEE        | 2861    |
| 262                |    |    |     |            |      |                    |      |   |    |     |           |        |   |                   |         |
| 263                |    |    |     | >BSMT WALL |      | BSMT CONCRETE WALL |      |   |    |     |           |        |   |                   |         |
| 264 MARK-W1        |    |    |     |            |      |                    |      |   |    |     |           |        |   |                   |         |
| 265 REF:SEC-1/S301 |    |    |     |            |      |                    |      |   |    |     |           |        |   |                   |         |
| 266                |    |    |     |            |      |                    |      |   | 15 | 3   | 15m Gr420 | 12192  |   | 3-15 TOP CONT     | 861     |
| 267                |    |    |     |            |      |                    |      |   | 15 | 3   | 20m Gr420 | 12192  |   | 3-20 BOT CONT     | 1291    |
| 268                |    |    |     |            |      |                    |      |   |    | 460 | 10m Gr420 | 750    |   | 10 @300 BOT TRANS | 270     |
| 269                |    |    |     |            |      |                    |      |   |    | 460 | 10m Gr420 | 1040   |   | 10 @300 TOP TRANS | 375     |
| 270                |    |    |     |            |      |                    |      |   | 7  | 3   | 15m Gr420 | 920    | H | 3-15 TOP COR      | 30      |
| 271                |    |    |     |            |      |                    |      |   | 7  | 3   | 20m Gr420 | 1000   | H | 3-20 BOT COR      | 49      |
| 272                |    |    |     |            |      |                    |      |   | 2  | 430 | 15m Gr420 | 1550   | H | 15 @350 DWL EF    | 2092    |
| 273                |    |    |     |            |      |                    |      |   | 2  | 395 | 15m Gr420 | 4406   |   | 15 @350 VERT EF   | 5464    |
| 274                |    |    |     |            |      | 15                 |      |   | 2  | 17  | 15m Gr420 | 12192  |   | 15 @300 HOR EF    | 9762    |
| 275                |    |    |     |            |      |                    |      |   |    | 395 | 15m Gr420 | 1600   | H | 15 @350 S DWL     | 992     |
| 276                |    |    |     |            |      | 7                  |      |   | 2  | 17  | 15m Gr420 | 920    | H | 15 @300 HOR COR   | 343     |

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## \*\* ESTIMATING BAR LIST \*\*

| LINE              | LA | EP | A/D | STRUCTURE | MULT | REQ | CODE | + | X | QTY | SZ/GR     | LENGTH | B | COMMENT              | LINE KG |
|-------------------|----|----|-----|-----------|------|-----|------|---|---|-----|-----------|--------|---|----------------------|---------|
| 277               |    |    |     |           |      | 8   |      |   | 2 | 2   | 15m Gr420 | 4406   |   | 2x2-15 END VERT EF   | 221     |
| 278 ELEVATOR WALL |    |    |     |           |      |     |      |   |   |     |           |        |   |                      |         |
| 279               |    |    |     |           |      |     |      |   | 2 | 152 | 15m Gr420 | 1745   | H | 15 @350 DWL EF       | 832     |
| 280               |    |    |     |           |      | 4   |      |   | 2 | 6   | 15m Gr420 | 3300   |   | 2x6-15 @150 COR VERT | 248     |
| 281               |    |    |     |           |      |     |      |   | 4 | 12  | 10m Gr420 | 2165   | L | 10 @300 TIES         | 81      |
| 282               |    |    |     |           |      |     |      |   | 4 | 12  | 10m Gr420 | 835    | L | 10 @300 TIES         | 31      |
| 283               |    |    |     |           |      |     |      |   | 2 | 52  | 15m Gr420 | 3300   |   | 15 @350 VERT EF      | 538     |
| 284               |    |    |     |           |      | 2   |      |   | 2 | 12  | 15m Gr420 | 12192  |   | 15 @300 HOR EF       | 918     |
| 285               |    |    |     |           |      | 4   |      |   | 2 | 12  | 15m Gr420 | 920    | H | 15 @300 HOR COR      | 138     |
| 286               |    |    |     |           |      |     |      |   |   |     |           |        |   |                      |         |
| 287 REF:S220      |    |    |     |           |      |     |      |   |   |     |           |        |   |                      |         |
| 288               |    |    |     |           |      |     |      |   | 2 | 124 | 15m Gr420 | 1945   | H | 15 @350 DWL EF       | 757     |
| 289               |    |    |     |           |      |     |      |   | 2 | 56  | 20m Gr420 | 1945   | H | 20 @350 DWL EF       | 513     |
| 290               |    |    |     |           |      |     |      |   | 2 | 24  | 25m Gr420 | 1945   | H | 25 @350 DWL EF       | 366     |
| 291               |    |    |     |           |      | 3   |      |   | 2 | 6   | 15m Gr420 | 4300   | H | 2x6-15 @150 COR VERT | 243     |
| 292               |    |    |     |           |      |     |      |   | 6 | 12  | 10m Gr420 | 2205   | L | 10 @300 TIES         | 124     |
| 293               |    |    |     |           |      |     |      |   | 8 | 12  | 10m Gr420 | 1000   | L | 10 @300 TIES         | 75      |
| 294               |    |    |     |           |      |     |      |   | 6 | 12  | 10m Gr420 | 2870   | L | 10 @300 TIES         | 161     |
| 295               |    |    |     |           |      | 6   |      |   | 2 | 12  | 10m Gr420 | 1000   | L | 10 @300 TIES         | 112     |
| 296               |    |    |     |           |      | 1   |      |   | 2 | 6   | 20m Gr420 | 4300   |   | 2x6-20 @150 COR VERT | 121     |
| 297               |    |    |     |           |      | 2   |      |   | 2 | 6   | 25m Gr420 | 4300   |   | 2x6-25 @150 COR VERT | 405     |
| 298               |    |    |     |           |      | 3   |      |   | 2 | 8   | 20m Gr420 | 4300   |   | 2x8-20 @150 COR VERT | 485     |
| 299               |    |    |     |           |      | 2   |      |   | 2 | 8   | 25m Gr420 | 4300   |   | 2x8-25 @150 COR VERT | 539     |

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## \*\* ESTIMATING BAR LIST \*\*

| LINE | LA | EP | A/D | STRUCTURE | MULT | REQ | CODE | + | X | QTY | SZ/GR     | LENGTH | B | COMMENT              | LINE KG |
|------|----|----|-----|-----------|------|-----|------|---|---|-----|-----------|--------|---|----------------------|---------|
| 300  |    |    |     |           |      |     |      |   | 2 | 4   | 15m Gr420 | 4300   |   | 2x4-15 @150 COR VERT | 53      |
| 301  |    |    |     |           |      | 2   |      |   | 2 | 2   | 20m Gr420 | 4300   |   | 2x2-20 @150 COR VERT | 81      |
| 302  |    |    |     |           |      |     |      |   | 2 | 40  | 15m Gr420 | 4300   |   | 15 @350 VERT EF      | 540     |
| 303  |    |    |     |           |      | 3   |      |   | 2 | 12  | 15m Gr420 | 12192  |   | 15 @300 HOR EF       | 1378    |
| 304  |    |    |     |           |      | 8   |      |   | 2 | 12  | 15m Gr420 | 920    | H | 15 @300 HOR COR      | 277     |
| 305  |    |    |     |           |      |     |      |   |   | 2   | 25m Gr420 | 5745   |   | 2-25 TOP ADDL        | 44      |
| 306  |    |    |     |           |      |     |      |   | 2 | 18  | 15m Gr420 | 1100   |   | 15 @200 VERT EF      | 62      |
| 307  |    |    |     |           |      |     |      |   | 2 | 6   | 15m Gr420 | 5545   |   | 15 @200 HOR EF       | 104     |
| 308  |    |    |     |           |      |     |      |   | 2 | 170 | 15m Gr420 | 1390   | H | 15 @200 DWL EF       | 742     |
| 309  |    |    |     |           |      |     |      |   |   |     |           |        |   |                      |         |
| 310  |    |    |     |           |      |     |      |   |   |     |           |        |   |                      |         |
| 311  |    |    |     |           |      |     |      |   | 2 | 46  | 15m Gr420 | 1945   | H | 15 @350 DWL EF       | 280     |
| 312  |    |    |     |           |      |     |      |   | 2 | 100 | 20m Gr420 | 1945   | H | 20 @350 DWL EF       | 915     |
| 313  |    |    |     |           |      |     |      |   | 2 | 46  | 15m Gr420 | 4300   |   | 15 @350 VERT EF      | 620     |
| 314  |    |    |     |           |      |     |      |   | 3 | 28  | 20m Gr420 | 4300   |   | 28-20 @150 COR VERT  | 850     |
| 315  |    |    |     |           |      | 3   |      |   | 2 | 12  | 10m Gr420 | 2880   | L | 10 @300 TIES         | 162     |
| 316  |    |    |     |           | 3    | 2   |      |   | 2 | 12  | 10m Gr420 | 1000   | L | 10 @300 TIES         | 112     |
| 317  |    |    |     |           |      | 2   |      |   | 2 | 8   | 20m Gr420 | 4300   |   | 2x8-20 @150 COR VERT | 323     |
| 318  |    |    |     |           |      |     |      |   | 2 | 12  | 10m Gr420 | 2880   | L | 10 @300 TIES         | 54      |
| 319  |    |    |     |           |      | 2   |      |   | 2 | 12  | 10m Gr420 | 1000   | L | 10 @300 TIES         | 37      |
| 320  |    |    |     |           |      | 2   |      |   | 2 | 12  | 15m Gr420 | 12192  |   | 15 @300 HOR EF       | 918     |
| 321  |    |    |     |           |      | 4   |      |   | 2 | 12  | 15m Gr420 | 920    | H | 15 @300 HOR COR      | 138     |
| 322  |    |    |     |           |      |     |      |   | 2 | 80  | 15m Gr420 | 1390   | H | 15 @200 DWL EF       | 349     |

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## \*\* ESTIMATING BAR LIST \*\*

| LINE | LA             | EP | A/D | STRUCTURE | MULT | REQ | CODE | + | X  | QTY | SZ/GR     | LENGTH | B | COMMENT         | LINE KG |
|------|----------------|----|-----|-----------|------|-----|------|---|----|-----|-----------|--------|---|-----------------|---------|
| 323  |                |    |     |           |      |     |      |   |    |     |           |        |   |                 |         |
| 324  | REF:SEC-3/S401 |    |     |           |      |     |      |   |    |     |           |        |   |                 |         |
| 325  |                |    |     |           |      |     |      |   | 3  | 3   | 15m Gr420 | 12192  |   | 3-5 CONT        | 172     |
| 326  |                |    |     |           |      |     |      |   | 2  | 122 | 15m Gr420 | 915    | H | 15 @300 DWL EF  | 350     |
| 327  |                |    |     |           |      |     |      |   | 2  | 122 | 15m Gr420 | 2700   |   | 15 @300 VERT EF | 1034    |
| 328  |                |    |     |           |      |     |      |   | 2  | 7   | 15m Gr420 | 12192  |   | 15 @400 HOR EF  | 268     |
| 329  |                |    |     |           |      |     |      |   |    |     |           |        |   |                 |         |
| 330  | REF:SEC-5/S301 |    |     |           |      |     |      |   |    |     |           |        |   |                 |         |
| 331  |                |    |     |           |      |     |      |   | 6  | 3   | 20m Gr420 | 12192  |   | 3-20 CONT       | 516     |
| 332  |                |    |     |           |      |     |      |   | 2  | 145 | 15m Gr420 | 1080   | H | 15 @350 DWL EF  | 491     |
| 333  |                |    |     |           |      |     |      |   | 2  | 145 | 15m Gr420 | 1540   |   | 15 @350 VERT EF | 701     |
| 334  |                |    |     |           |      | 6   |      |   | 2  | 4   | 15m Gr420 | 12192  |   | 15 @450 HOR EF  | 918     |
| 335  |                |    |     |           |      | 5   |      |   | 2  | 4   | 15m Gr420 | 920    | H | 15 @450 HOR COR | 57      |
| 336  |                |    |     |           |      |     |      |   | 1  | 165 | 10m Gr420 | 1785   | L | 10 @300 S DWL   | 230     |
| 337  |                |    |     |           |      |     |      |   | 6  | 1   | 15m Gr420 | 12192  |   | 1-15 CONT       | 114     |
| 338  |                |    |     |           |      |     |      |   |    |     |           |        |   |                 |         |
| 339  | REF:SEC-2/S301 |    |     |           |      |     |      |   |    |     |           |        |   |                 |         |
| 340  |                |    |     |           |      |     |      |   | 18 | 3   | 15m Gr420 | 12192  |   | 3-15 CONT       | 1033    |
| 341  |                |    |     |           |      |     |      |   | 2  | 500 | 15m Gr420 | 1120   | H | 15 @350 DWL EF  | 1758    |
| 342  |                |    |     |           |      |     |      |   | 2  | 500 | 15m Gr420 | 1355   |   | 15 @350 VERT EF | 2127    |
| 343  |                |    |     |           |      |     |      |   | 18 | 4   | 15m Gr420 | 12192  |   | 15 @400 HOR EF  | 1378    |
| 344  |                |    |     |           |      |     |      |   | 18 | 4   | 15m Gr420 | 920    | H | 15 @400 HOR COR | 103     |
| 345  |                |    |     |           |      |     |      |   |    | 500 | 10m Gr420 | 800    | L | 10 @350 U BAR   | 313     |

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## \*\* ESTIMATING BAR LIST \*\*

| LINE | LA             | EP | A/D | STRUCTURE | MULT | REQ | CODE | + | X  | QTY | SZ/GR     | LENGTH | B | COMMENT         | LINE KG |
|------|----------------|----|-----|-----------|------|-----|------|---|----|-----|-----------|--------|---|-----------------|---------|
| 346  |                |    |     |           |      |     |      |   |    |     |           |        |   |                 |         |
| 347  | REF:SEC-9/S301 |    |     |           |      |     |      |   |    |     |           |        |   |                 |         |
| 348  |                |    |     |           |      |     |      |   | 3  | 3   | 15m Gr420 | 12192  |   | 3-15 CONT       | 172     |
| 349  |                |    |     |           |      |     |      |   | 2  | 78  | 15m Gr420 | 1050   | H | 15 @350 DWL EF  | 257     |
| 350  |                |    |     |           |      |     |      |   | 2  | 78  | 15m Gr420 | 1365   |   | 15 @350 VERT EF | 334     |
| 351  |                |    |     |           |      | 3   |      |   | 2  | 4   | 15m Gr420 | 12192  |   | 15 @400 HOR EF  | 459     |
| 352  |                |    |     |           |      |     |      |   |    | 78  | 10m Gr420 | 800    | L | 10 @350 U BAR   | 48      |
| 353  |                |    |     |           |      |     |      |   |    |     |           |        |   |                 |         |
| 354  | MARK-W2        |    |     |           |      |     |      |   |    |     |           |        |   |                 |         |
| 355  |                |    |     |           |      |     |      |   | 2  | 35  | 15m Gr420 | 1945   | H | 15 @350 DWL EF  | 213     |
| 356  |                |    |     |           |      |     |      |   | 2  | 17  | 15m Gr420 | 4300   |   | 15 @350 VERT EF | 229     |
| 357  |                |    |     |           |      | 3   |      |   | 2  | 3   | 15m Gr420 | 4300   |   | 2x3-15 END VERT | 121     |
| 358  |                |    |     |           |      |     |      |   | 2  | 12  | 15m Gr420 | 6675   |   | 15 @300 HOR EF  | 251     |
| 359  |                |    |     |           |      |     |      |   | 6  | 14  | 10m Gr420 | 1140   | L | 10 @250 TIES    | 75      |
| 360  |                |    |     |           |      |     |      |   | 2  | 30  | 15m Gr420 | 1390   | H | 15 @200 DWL EF  | 131     |
| 361  |                |    |     |           |      |     |      |   |    |     |           |        |   |                 |         |
| 362  | MARK-W3        |    |     |           |      |     |      |   |    |     |           |        |   |                 |         |
| 363  |                |    |     |           |      |     |      |   | 2  | 628 | 15m Gr420 | 1945   | H | 15 @350 DWL EF  | 3835    |
| 364  |                |    |     |           |      |     |      |   | 2  | 250 | 15m Gr420 | 4300   |   | 15 @350 VERT EF | 3375    |
| 365  |                |    |     |           |      | 47  |      |   | 2  | 4   | 15m Gr420 | 4300   |   | 2x4-15 END VERT | 2538    |
| 366  |                |    |     |           |      | 10  |      |   | 2  | 12  | 15m Gr420 | 12192  |   | 15 @300 HOR EF  | 4594    |
| 367  |                |    |     |           |      |     |      |   | 2  | 12  | 15m Gr420 | 920    | H | 15 @300 HOR COR | 34      |
| 368  |                |    |     |           |      |     |      |   | 47 | 14  | 10m Gr420 | 1400   | L | 10 @250 TIES    | 722     |

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## \*\* ESTIMATING BAR LIST \*\*

| LINE | LA | EP | A/D | STRUCTURE | MULT | REQ | CODE | + | X | QTY | SZ/GR     | LENGTH | B | COMMENT         | LINE KG |
|------|----|----|-----|-----------|------|-----|------|---|---|-----|-----------|--------|---|-----------------|---------|
| 369  |    |    |     |           |      |     |      |   | 2 | 432 | 15m Gr420 | 1390   | L | 15 @200 DWL EF  | 1885    |
| 370  |    |    |     |           |      |     |      |   |   |     |           |        |   |                 |         |
| 371  |    |    |     |           |      |     |      |   |   |     |           |        |   |                 |         |
| 372  |    |    |     |           |      |     |      |   | 2 | 165 | 15m Gr420 | 1945   | H | 15 @350 DWL EF  | 1007    |
| 373  |    |    |     |           |      |     |      |   | 2 | 67  | 15m Gr420 | 4300   |   | 15 @350 VERT EF | 904     |
| 374  |    |    |     |           |      | 8   |      |   | 2 | 6   | 15m Gr420 | 4300   |   | 2x6-15 END VERT | 648     |
| 375  |    |    |     |           |      | 3   |      |   | 2 | 12  | 15m Gr420 | 12192  | H | 15 @300 HOR EF  | 1378    |
| 376  |    |    |     |           |      |     |      |   | 8 | 14  | 10m Gr420 | 1700   | L | 10 @250 TIES    | 149     |
| 377  |    |    |     |           |      |     |      |   | 2 | 118 | 15m Gr420 | 1390   | H | 15 @200 DWL EF  | 514     |
| 378  |    |    |     |           |      |     |      |   |   |     |           |        |   |                 |         |
| 379  |    |    |     |           |      |     |      |   |   |     |           |        |   |                 |         |
| 380  |    |    |     |           |      |     |      |   | 2 | 96  | 15m Gr420 | 1945   | H | 15 @350 DWL EF  | 586     |
| 381  |    |    |     |           |      |     |      |   | 2 | 32  | 15m Gr420 | 4300   |   | 15 @350 VERT EF | 432     |
| 382  |    |    |     |           |      | 4   |      |   | 2 | 8   | 15m Gr420 | 4300   |   | 2x8-15 END VERT | 432     |
| 383  |    |    |     |           |      |     |      |   | 2 | 12  | 15m Gr420 | 12192  |   | 15 @300 HOR EF  | 459     |
| 384  |    |    |     |           |      |     |      |   | 4 | 14  | 10m Gr420 | 2000   | L | 10 @250 TIES    | 87      |
| 385  |    |    |     |           |      |     |      |   | 2 | 26  | 15m Gr420 | 1390   | H | 15 @200 DWL EF  | 113     |
| 386  |    |    |     |           |      |     |      |   |   |     |           |        |   |                 |         |
| 387  |    |    |     |           |      |     |      |   |   |     |           |        |   |                 |         |
| 388  |    |    |     |           |      |     |      |   | 2 | 30  | 15m Gr420 | 1945   | H | 15 @350 DWL EF  | 183     |
| 389  |    |    |     |           |      |     |      |   | 2 | 30  | 15m Gr420 | 4300   |   | 15 @350 VERT EF | 405     |
| 390  |    |    |     |           |      | 2   |      |   | 2 | 8   | 25m Gr420 | 1945   | H | 2x8-25 END DWL  | 244     |
| 391  |    |    |     |           |      | 2   |      |   | 2 | 8   | 25m Gr420 | 4300   |   | 2x8-25 END VERT | 539     |

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## \*\* ESTIMATING BAR LIST \*\*

| LINE         | LA | EP | A/D | STRUCTURE | MULT | REQ | CODE | + | X | QTY | SZ/GR     | LENGTH | B | COMMENT         | LINE KG |
|--------------|----|----|-----|-----------|------|-----|------|---|---|-----|-----------|--------|---|-----------------|---------|
| 392          |    |    |     |           |      |     |      |   | 2 | 12  | 15m Gr420 | 9750   |   | 15 @300 HOR EF  | 367     |
| 393          |    |    |     |           |      |     |      |   | 2 | 14  | 10m Gr420 | 2000   | L | 10 @250 TIES    | 43      |
| 394          |    |    |     |           |      |     |      |   | 2 | 48  | 15m Gr420 | 1390   | H | 15 @200 DWL EF  | 209     |
| 395          |    |    |     |           |      |     |      |   |   |     |           |        |   |                 |         |
| 396 MARK-W8  |    |    |     |           |      |     |      |   |   |     |           |        |   |                 |         |
| 397          |    |    |     |           |      |     |      |   | 2 | 26  | 15m Gr420 | 1945   | H | 15 @350 DWL EF  | 158     |
| 398          |    |    |     |           |      |     |      |   | 2 | 10  | 15m Gr420 | 4300   |   | 15 @350 VERT EF | 135     |
| 399          |    |    |     |           |      | 4   |      |   | 2 | 2   | 15m Gr420 | 4300   |   | 2x2-15 END VERT | 107     |
| 400          |    |    |     |           |      |     |      |   | 2 | 12  | 15m Gr420 | 3200   |   | 15 @300 HOR EF  | 120     |
| 401          |    |    |     |           |      |     |      |   | 4 | 14  | 10m Gr420 | 1240   | L | 10 @250 TIES    | 54      |
| 402          |    |    |     |           |      |     |      |   | 2 | 16  | 15m Gr420 | 1390   | H | 15 @200 DWL EF  | 69      |
| 403          |    |    |     |           |      |     |      |   |   |     |           |        |   |                 |         |
| 404 MARK-W9  |    |    |     |           |      |     |      |   |   |     |           |        |   |                 |         |
| 405          |    |    |     |           |      |     |      |   | 2 | 61  | 15m Gr420 | 1945   | H | 15 @350 DWL EF  | 372     |
| 406          |    |    |     |           |      |     |      |   | 2 | 61  | 15m Gr420 | 4300   |   | 15 @350 VERT EF | 823     |
| 407          |    |    |     |           |      | 4   |      |   | 2 | 8   | 15m Gr420 | 4300   |   | 2x3-15 END VERT | 432     |
| 408          |    |    |     |           |      | 2   |      |   | 2 | 12  | 15m Gr420 | 12192  |   | 15 @300 HOR EF  | 918     |
| 409          |    |    |     |           |      |     |      |   | 4 | 14  | 10m Gr420 | 1500   | L | 10 @250 TIES    | 65      |
| 410          |    |    |     |           |      |     |      |   | 2 | 106 | 15m Gr420 | 1390   | H | 15 @200 DWL EF  | 462     |
| 411          |    |    |     |           |      |     |      |   |   |     |           |        |   |                 |         |
| 412 MARK-W10 |    |    |     |           |      |     |      |   |   |     |           |        |   |                 |         |
| 413          |    |    |     |           |      |     |      |   | 2 | 7   | 15m Gr420 | 1945   | H | 15 @350 DWL EF  | 42      |
| 414          |    |    |     |           |      |     |      |   | 2 | 7   | 15m Gr420 | 4300   |   | 15 @350 VERT EF | 94      |



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## \*\* ESTIMATING BAR LIST \*\*

| LINE        | LA | EP | A/D | STRUCTURE | MULT | REQ | CODE | + | X  | QTY | SZ/GR     | LENGTH | B | COMMENT        | LINE KG |
|-------------|----|----|-----|-----------|------|-----|------|---|----|-----|-----------|--------|---|----------------|---------|
| 438 MARK-C2 |    |    |     |           |      |     |      |   |    |     |           |        |   |                |         |
| 439         |    |    |     |           |      |     |      |   | 11 | 8   | 20m Gr420 | 4450   |   | 8-20 VERT      | 922     |
| 440         |    |    |     |           |      |     |      |   | 11 | 12  | 10m Gr420 | 1400   | L | 10 @ 300 TIES  | 145     |
| 441         |    |    |     |           |      |     |      |   | 11 | 5   | 10m Gr420 | 1400   | L | 5-10 TIES TOP  | 60      |
| 442         |    |    |     |           |      |     |      |   |    |     |           |        |   |                |         |
| 443 MARK-C5 |    |    |     |           |      |     |      |   |    |     |           |        |   |                |         |
| 444         |    |    |     |           |      |     |      |   | 2  | 14  | 20m Gr420 | 4450   |   | 14-20 VERT     | 293     |
| 445         |    |    |     |           |      |     |      |   | 2  | 15  | 10m Gr420 | 2580   | L | 10 @ 250 TIES  | 60      |
| 446         |    |    |     |           |      |     |      |   | 2  | 15  | 10m Gr420 | 1195   | L | 10 @ 250 TIES  | 28      |
| 447         |    |    |     |           |      |     |      |   | 2  | 5   | 10m Gr420 | 2580   | L | 5-10 TIES TOP  | 20      |
| 448         |    |    |     |           |      |     |      |   | 2  | 5   | 10m Gr420 | 1195   | L | 5-10 TIES TOP  | 9       |
| 449         |    |    |     |           |      |     |      |   |    |     |           |        |   |                |         |
| 450 MARK-C8 |    |    |     |           |      |     |      |   |    |     |           |        |   |                |         |
| 451         |    |    |     |           |      |     |      |   | 3  | 14  | 20m Gr420 | 4450   |   | 14-20 VERT     | 439     |
| 452         |    |    |     |           |      |     |      |   | 3  | 15  | 10m Gr420 | 2900   | L | 10 @250 TIES   | 102     |
| 453         |    |    |     |           |      | 3   |      |   | 2  | 15  | 10m Gr420 | 900    | L | 10 @250 TIES   | 63      |
| 454         |    |    |     |           |      |     |      |   | 3  | 15  | 10m Gr420 | 370    | L | 10 @250 LINKS  | 13      |
| 455         |    |    |     |           |      |     |      |   | 3  | 5   | 10m Gr420 | 2900   | L | 5-10 TIES TOP  | 34      |
| 456         |    |    |     |           |      | 3   |      |   | 2  | 5   | 10m Gr420 | 900    | L | 5-10 TIES TOP  | 21      |
| 457         |    |    |     |           |      |     |      |   | 3  | 5   | 10m Gr420 | 370    | L | 5-10 TOP LINKS | 4       |
| 458         |    |    |     |           |      |     |      |   |    |     |           |        |   |                |         |
| 459 MARK-C9 |    |    |     |           |      |     |      |   |    |     |           |        |   |                |         |
| 460         |    |    |     |           |      |     |      |   | 4  | 14  | 20m Gr420 | 4450   |   | 14-20 VERT     | 586     |

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## \*\* ESTIMATING BAR LIST \*\*

| LINE                 | LA | EP | A/D | STRUCTURE | MULT              | REQ | CODE | + | X | QTY  | SZ/GR     | LENGTH | B | COMMENT         | LINE KG |
|----------------------|----|----|-----|-----------|-------------------|-----|------|---|---|------|-----------|--------|---|-----------------|---------|
| 461                  |    |    |     |           |                   |     |      |   | 4 | 15   | 10m Gr420 | 3000   | L | 10 @250 TIES    | 141     |
| 462                  |    |    |     |           |                   | 4   |      |   | 2 | 15   | 10m Gr420 | 920    | L | 10 @250 TIES    | 86      |
| 463                  |    |    |     |           |                   |     |      |   | 4 | 15   | 10m Gr420 | 370    | L | 10 @250 LINKS   | 17      |
| 464                  |    |    |     |           |                   |     |      |   | 4 | 5    | 10m Gr420 | 3000   | L | 5-10 TIES TOP   | 47      |
| 465                  |    |    |     |           |                   | 4   |      |   | 2 | 5    | 10m Gr420 | 920    | L | 5-10 TIES TOP   | 29      |
| 466                  |    |    |     |           |                   |     |      |   | 4 | 5    | 10m Gr420 | 370    | L | 5-10 TIES LINKS | 5       |
| 467                  |    |    |     |           |                   |     |      |   |   |      |           |        |   |                 |         |
| 468                  |    |    |     | >GF SLAB  | GROUND FLOOR SLAB |     |      |   |   |      |           |        |   |                 |         |
| 469 350MM THICK SLAB |    |    |     |           |                   |     |      |   |   |      |           |        |   |                 |         |
| 470                  |    |    |     |           |                   |     |      |   | 2 | 1850 | 20m Gr420 | 12000  |   | 20 @450 T&B EW  | 104531  |
| 471                  |    |    |     |           |                   |     |      |   |   | 3055 | 15m Gr420 | 1903   | H | 15 STANDEE      | 9127    |
| 472                  |    |    |     |           |                   |     |      |   |   | 4    | 20m Gr420 | 8463   |   | 6-20 TOP        | 79      |
| 473                  |    |    |     |           |                   |     |      |   |   | 14   | 20m Gr420 | 2057   |   | 20 @450 TOP     | 67      |
| 474                  |    |    |     |           |                   |     |      |   |   | 20   | 20m Gr420 | 2057   |   | 20 @450 TOP     | 97      |
| 475                  |    |    |     |           |                   |     |      |   |   | 3    | 25m Gr420 | 2750   |   | 3-25 TOP        | 32      |
| 476                  |    |    |     |           |                   |     |      |   |   | 3    | 25m Gr420 | 1835   |   | 3-25 TOP        | 21      |
| 477                  |    |    |     |           |                   |     |      |   |   | 64   | 20m Gr420 | 2057   |   | 20 @450 TOP     | 309     |
| 478                  |    |    |     |           |                   |     |      |   |   | 3    | 25m Gr420 | 5405   |   | 3-25 TOP        | 63      |
| 479                  |    |    |     |           |                   |     |      |   |   | 3    | 25m Gr420 | 3705   |   | 3-25 TOP        | 43      |
| 480                  |    |    |     |           |                   |     |      |   |   | 3    | 25m Gr420 | 7402   |   | 3-25 TOP        | 87      |
| 481                  |    |    |     |           |                   |     |      |   |   | 3    | 25m Gr420 | 5268   |   | 3-25 TOP        | 62      |
| 482                  |    |    |     |           |                   |     |      |   |   | 2    | 25m Gr420 | 7205   |   | 2-25 TOP        | 56      |
| 483                  |    |    |     |           |                   |     |      |   |   | 2    | 25m Gr420 | 4905   |   | 2-25 TOP        | 38      |

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## \*\* ESTIMATING BAR LIST \*\*

| LINE | LA | EP | A/D | STRUCTURE | MULT | REQ | CODE | + | X | QTY | SZ/GR     | LENGTH | B | COMMENT  | LINE KG |
|------|----|----|-----|-----------|------|-----|------|---|---|-----|-----------|--------|---|----------|---------|
| 484  |    |    |     |           |      |     |      |   |   | 6   | 25m Gr420 | 7815   |   | 6-25 TOP | 184     |
| 485  |    |    |     |           |      |     |      |   |   | 6   | 25m Gr420 | 5550   |   | 6-25 TOP | 130     |
| 486  |    |    |     |           |      |     |      |   |   | 4   | 25m Gr420 | 5696   |   | 4-25 TOP | 89      |
| 487  |    |    |     |           |      |     |      |   |   | 3   | 25m Gr420 | 3895   |   | 3-25 TOP | 45      |
| 488  |    |    |     |           |      |     |      |   |   | 4   | 25m Gr420 | 7815   |   | 4-25 TOP | 122     |
| 489  |    |    |     |           |      |     |      |   |   | 4   | 25m Gr420 | 5550   |   | 4-25 TOP | 87      |
| 490  |    |    |     |           |      |     |      |   |   | 3   | 25m Gr420 | 5696   |   | 3-25 TOP | 67      |
| 491  |    |    |     |           |      |     |      |   |   | 3   | 25m Gr420 | 3895   |   | 3-25 TOP | 45      |
| 492  |    |    |     |           |      |     |      |   |   | 4   | 25m Gr420 | 7815   |   | 4-25 TOP | 122     |
| 493  |    |    |     |           |      |     |      |   |   | 4   | 25m Gr420 | 5550   |   | 4-25 TOP | 87      |
| 494  |    |    |     |           |      |     |      |   |   | 2   | 20m Gr420 | 5696   |   | 2-20 TOP | 26      |
| 495  |    |    |     |           |      |     |      |   |   | 2   | 20m Gr420 | 3895   |   | 2-20 TOP | 18      |
| 496  |    |    |     |           |      |     |      |   |   | 6   | 25m Gr420 | 8417   |   | 6-25 TOP | 198     |
| 497  |    |    |     |           |      |     |      |   |   | 2   | 20m Gr420 | 5696   |   | 2-20 TOP | 26      |
| 498  |    |    |     |           |      |     |      |   |   | 2   | 20m Gr420 | 3895   |   | 2-20 TOP | 18      |
| 499  |    |    |     |           |      |     |      |   |   | 3   | 20m Gr420 | 5696   |   | 3-20 TOP | 40      |
| 500  |    |    |     |           |      |     |      |   |   | 3   | 20m Gr420 | 3895   |   | 3-20 TOP | 27      |
| 501  |    |    |     |           |      |     |      |   |   | 6   | 25m Gr420 | 8417   |   | 6-25 TOP | 198     |
| 502  |    |    |     |           |      |     |      |   |   | 3   | 20m Gr420 | 5696   |   | 3-20 TOP | 40      |
| 503  |    |    |     |           |      |     |      |   |   | 3   | 20m Gr420 | 3895   |   | 3-20 TOP | 27      |
| 504  |    |    |     |           |      |     |      |   |   | 3   | 20m Gr420 | 5696   |   | 3-20 TOP | 40      |
| 505  |    |    |     |           |      |     |      |   |   | 3   | 20m Gr420 | 3895   |   | 3-20 TOP | 27      |
| 506  |    |    |     |           |      |     |      |   |   | 6   | 25m Gr420 | 8417   |   | 6-25 TOP | 198     |

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|------|----|----|-----|-----------|------|-----|------|---|---|-----|-----------|--------|---|----------|---------|
| 507  |    |    |     |           |      |     |      |   |   | 3   | 20m Gr420 | 5696   |   | 3-20 TOP | 40      |
| 508  |    |    |     |           |      |     |      |   |   | 3   | 20m Gr420 | 3895   |   | 3-20 TOP | 27      |
| 509  |    |    |     |           |      |     |      |   |   | 3   | 20m Gr420 | 5696   |   | 3-20 TOP | 40      |
| 510  |    |    |     |           |      |     |      |   |   | 3   | 20m Gr420 | 3895   |   | 3-20 TOP | 27      |
| 511  |    |    |     |           |      |     |      |   |   | 6   | 25m Gr420 | 8417   |   | 6-25 TOP | 198     |
| 512  |    |    |     |           |      |     |      |   |   | 3   | 20m Gr420 | 5696   |   | 3-20 TOP | 40      |
| 513  |    |    |     |           |      |     |      |   |   | 3   | 20m Gr420 | 3895   |   | 3-20 TOP | 27      |
| 514  |    |    |     |           |      |     |      |   |   | 3   | 20m Gr420 | 5696   |   | 3-20 TOP | 40      |
| 515  |    |    |     |           |      |     |      |   |   | 3   | 20m Gr420 | 3895   |   | 3-20 TOP | 27      |
| 516  |    |    |     |           |      |     |      |   |   | 6   | 25m Gr420 | 8417   |   | 6-25 TOP | 198     |
| 517  |    |    |     |           |      |     |      |   |   | 3   | 20m Gr420 | 5696   |   | 3-20 TOP | 40      |
| 518  |    |    |     |           |      |     |      |   |   | 3   | 20m Gr420 | 3895   |   | 3-20 TOP | 27      |
| 519  |    |    |     |           |      |     |      |   |   | 6   | 25m Gr420 | 8417   |   | 6-25 TOP | 198     |
| 520  |    |    |     |           |      |     |      |   |   | 6   | 20m Gr420 | 3350   |   | 6-20 TOP | 47      |
| 521  |    |    |     |           |      |     |      |   |   | 6   | 20m Gr420 | 3350   |   | 6-20 TOP | 47      |
| 522  |    |    |     |           |      |     |      |   |   | 4   | 25m Gr420 | 5850   |   | 4-25 TOP | 91      |
| 523  |    |    |     |           |      |     |      |   |   | 4   | 25m Gr420 | 4085   |   | 4-25 TOP | 63      |
| 524  |    |    |     |           |      |     |      |   |   | 4   | 25m Gr420 | 6000   |   | 4-25 TOP | 94      |
| 525  |    |    |     |           |      |     |      |   |   | 3   | 25m Gr420 | 4330   |   | 3-25 TOP | 50      |
| 526  |    |    |     |           |      |     |      |   |   | 4   | 25m Gr420 | 5850   |   | 4-25 TOP | 91      |
| 527  |    |    |     |           |      |     |      |   |   | 4   | 25m Gr420 | 4085   |   | 4-25 TOP | 63      |
| 528  |    |    |     |           |      |     |      |   |   | 4   | 25m Gr420 | 6000   |   | 4-25 TOP | 94      |
| 529  |    |    |     |           |      |     |      |   |   | 3   | 25m Gr420 | 4330   |   | 3-25 TOP | 50      |

Bid Date 04/08/16

## \*\* ESTIMATING BAR LIST \*\*

| LINE | LA | EP | A/D | STRUCTURE | MULT | REQ | CODE | + | X | QTY | SZ/GR     | LENGTH | B | COMMENT  | LINE KG |
|------|----|----|-----|-----------|------|-----|------|---|---|-----|-----------|--------|---|----------|---------|
| 530  |    |    |     |           |      |     |      |   |   | 3   | 20m Gr420 | 7205   |   | 3-20 TOP | 50      |
| 531  |    |    |     |           |      |     |      |   |   | 3   | 20m Gr420 | 6205   |   | 3-20 TOP | 43      |
| 532  |    |    |     |           |      |     |      |   |   | 4   | 20m Gr420 | 4608   |   | 4-20 TOP | 43      |
| 533  |    |    |     |           |      |     |      |   |   | 4   | 20m Gr420 | 3408   |   | 4-20 TOP | 32      |
| 534  |    |    |     |           |      |     |      |   |   | 4   | 20m Gr420 | 7205   |   | 4-20 TOP | 68      |
| 535  |    |    |     |           |      |     |      |   |   | 4   | 20m Gr420 | 6205   |   | 4-20 TOP | 58      |
| 536  |    |    |     |           |      |     |      |   |   | 3   | 20m Gr420 | 4608   |   | 3-20 TOP | 32      |
| 537  |    |    |     |           |      |     |      |   |   | 3   | 20m Gr420 | 3408   |   | 3-20 TOP | 24      |
| 538  |    |    |     |           |      |     |      |   |   | 4   | 20m Gr420 | 7205   |   | 4-20 TOP | 68      |
| 539  |    |    |     |           |      |     |      |   |   | 4   | 20m Gr420 | 6205   |   | 4-20 TOP | 58      |
| 540  |    |    |     |           |      |     |      |   |   | 3   | 20m Gr420 | 4608   |   | 3-20 TOP | 32      |
| 541  |    |    |     |           |      |     |      |   |   | 3   | 20m Gr420 | 3408   |   | 3-20 TOP | 24      |
| 542  |    |    |     |           |      |     |      |   |   | 3   | 20m Gr420 | 7205   |   | 3-20 TOP | 50      |
| 543  |    |    |     |           |      |     |      |   |   | 3   | 20m Gr420 | 6205   |   | 3-20 TOP | 43      |
| 544  |    |    |     |           |      |     |      |   |   | 3   | 20m Gr420 | 4608   |   | 3-20 TOP | 32      |
| 545  |    |    |     |           |      |     |      |   |   | 3   | 20m Gr420 | 3408   |   | 3-20 TOP | 24      |
| 546  |    |    |     |           |      |     |      |   |   | 3   | 20m Gr420 | 7205   |   | 3-20 TOP | 50      |
| 547  |    |    |     |           |      |     |      |   |   | 3   | 20m Gr420 | 6205   |   | 3-20 TOP | 43      |
| 548  |    |    |     |           |      |     |      |   |   | 3   | 20m Gr420 | 4608   |   | 3-20 TOP | 32      |
| 549  |    |    |     |           |      |     |      |   |   | 3   | 20m Gr420 | 3408   |   | 3-20 TOP | 24      |
| 550  |    |    |     |           |      |     |      |   |   | 3   | 20m Gr420 | 7205   |   | 3-20 TOP | 50      |
| 551  |    |    |     |           |      |     |      |   |   | 3   | 20m Gr420 | 6205   |   | 3-20 TOP | 43      |
| 552  |    |    |     |           |      |     |      |   |   | 3   | 20m Gr420 | 4608   |   | 4-20 TOP | 32      |

Bid Date 04/08/16

## \*\* ESTIMATING BAR LIST \*\*

| LINE | LA | EP | A/D | STRUCTURE | MULT | REQ | CODE | + | X | QTY | SZ/GR     | LENGTH | B | COMMENT  | LINE KG |
|------|----|----|-----|-----------|------|-----|------|---|---|-----|-----------|--------|---|----------|---------|
| 553  |    |    |     |           |      |     |      |   |   | 3   | 20m Gr420 | 3408   |   | 4-20 TOP | 24      |
| 554  |    |    |     |           |      |     |      |   |   | 4   | 20m Gr420 | 7205   |   | 4-20 TOP | 68      |
| 555  |    |    |     |           |      |     |      |   |   | 4   | 20m Gr420 | 6205   |   | 4-20 TOP | 58      |
| 556  |    |    |     |           |      |     |      |   |   | 3   | 20m Gr420 | 4608   |   | 3-20 TOP | 32      |
| 557  |    |    |     |           |      |     |      |   |   | 3   | 20m Gr420 | 3408   |   | 3-20 TOP | 24      |
| 558  |    |    |     |           |      |     |      |   |   | 3   | 20m Gr420 | 7205   |   | 2-20 TOP | 50      |
| 559  |    |    |     |           |      |     |      |   |   | 3   | 20m Gr420 | 6205   |   | 3-20 TOP | 43      |
| 560  |    |    |     |           |      |     |      |   |   | 3   | 20m Gr420 | 4608   |   | 3-20 TOP | 32      |
| 561  |    |    |     |           |      |     |      |   |   | 3   | 20m Gr420 | 3408   |   | 3-20 TOP | 24      |
| 562  |    |    |     |           |      |     |      |   |   | 6   | 20m Gr420 | 2785   | H | 6-20 TOP | 39      |
| 563  |    |    |     |           |      |     |      |   |   | 3   | 20m Gr420 | 4608   |   | 3-20 TOP | 32      |
| 564  |    |    |     |           |      |     |      |   |   | 3   | 20m Gr420 | 3408   |   | 3-20 TOP | 24      |
| 565  |    |    |     |           |      |     |      |   |   | 3   | 25m Gr420 | 6000   |   | 3-25 TOP | 70      |
| 566  |    |    |     |           |      |     |      |   |   | 3   | 25m Gr420 | 4330   |   | 3-25 TOP | 50      |
| 567  |    |    |     |           |      |     |      |   |   | 3   | 25m Gr420 | 5850   |   | 3-25 TOP | 68      |
| 568  |    |    |     |           |      |     |      |   |   | 3   | 25m Gr420 | 4085   |   | 3-25 TOP | 48      |
| 569  |    |    |     |           |      |     |      |   |   | 3   | 25m Gr420 | 6000   |   | 3-25 TOP | 70      |
| 570  |    |    |     |           |      |     |      |   |   | 3   | 25m Gr420 | 4330   |   | 3-25 TOP | 50      |
| 571  |    |    |     |           |      |     |      |   |   | 3   | 20m Gr420 | 7205   |   | 3-20 TOP | 50      |
| 572  |    |    |     |           |      |     |      |   |   | 3   | 20m Gr420 | 6206   |   | 3-20 TOP | 43      |
| 573  |    |    |     |           |      |     |      |   |   | 4   | 20m Gr420 | 4608   |   | 4-20 TOP | 43      |
| 574  |    |    |     |           |      |     |      |   |   | 4   | 20m Gr420 | 3408   |   | 4-20 TOP | 32      |
| 575  |    |    |     |           |      |     |      |   |   | 4   | 20m Gr420 | 5696   |   | 4-20 TOP | 53      |

Bid Date 04/08/16

## \*\* ESTIMATING BAR LIST \*\*

| LINE | LA | EP | A/D | STRUCTURE | MULT | REQ | CODE | + | X | QTY | SZ/GR     | LENGTH | B | COMMENT  | LINE KG |
|------|----|----|-----|-----------|------|-----|------|---|---|-----|-----------|--------|---|----------|---------|
| 576  |    |    |     |           |      |     |      |   |   | 4   | 20m Gr420 | 3895   |   | 4-20 TOP | 36      |
| 577  |    |    |     |           |      |     |      |   |   | 3   | 20m Gr420 | 4608   |   | 3-20 TOP | 32      |
| 578  |    |    |     |           |      |     |      |   |   | 3   | 20m Gr420 | 3895   |   | 3-20 TOP | 27      |
| 579  |    |    |     |           |      |     |      |   |   | 4   | 20m Gr420 | 5696   |   | 4-20 TOP | 53      |
| 580  |    |    |     |           |      |     |      |   |   | 4   | 20m Gr420 | 3895   |   | 4-20 TOP | 36      |
| 581  |    |    |     |           |      |     |      |   |   | 3   | 20m Gr420 | 4608   |   | 3-20 TOP | 32      |
| 582  |    |    |     |           |      |     |      |   |   | 3   | 20m Gr420 | 3895   |   | 3-20 TOP | 27      |
| 583  |    |    |     |           |      |     |      |   |   | 2   | 20m Gr420 | 5696   |   | 2-20 TOP | 26      |
| 584  |    |    |     |           |      |     |      |   |   | 2   | 20m Gr420 | 3895   |   | 2-20 TOP | 18      |
| 585  |    |    |     |           |      |     |      |   |   | 2   | 20m Gr420 | 4608   |   | 2-20 TOP | 21      |
| 586  |    |    |     |           |      |     |      |   |   | 2   | 20m Gr420 | 3895   |   | 2-20 TOP | 18      |
| 587  |    |    |     |           |      |     |      |   |   | 2   | 20m Gr420 | 5696   |   | 2-20 TOP | 26      |
| 588  |    |    |     |           |      |     |      |   |   | 2   | 20m Gr420 | 3895   |   | 2-20 TOP | 18      |
| 589  |    |    |     |           |      |     |      |   |   | 2   | 20m Gr420 | 4608   |   | 2-20 TOP | 21      |
| 590  |    |    |     |           |      |     |      |   |   | 2   | 20m Gr420 | 3895   |   | 2-20 TOP | 18      |
| 591  |    |    |     |           |      |     |      |   |   | 3   | 20m Gr420 | 5696   |   | 3-20 TOP | 40      |
| 592  |    |    |     |           |      |     |      |   |   | 3   | 20m Gr420 | 3895   |   | 3-20 TOP | 27      |
| 593  |    |    |     |           |      |     |      |   |   | 2   | 20m Gr420 | 4608   |   | 2-20 TOP | 21      |
| 594  |    |    |     |           |      |     |      |   |   | 2   | 20m Gr420 | 3895   |   | 2-20 TOP | 18      |
| 595  |    |    |     |           |      |     |      |   |   | 4   | 20m Gr420 | 5696   |   | 4-20 TOP | 53      |
| 596  |    |    |     |           |      |     |      |   |   | 3   | 20m Gr420 | 3895   |   | 3-20 TOP | 27      |
| 597  |    |    |     |           |      |     |      |   |   | 2   | 20m Gr420 | 4608   |   | 2-20 TOP | 21      |
| 598  |    |    |     |           |      |     |      |   |   | 2   | 20m Gr420 | 3895   |   | 2-20 TOP | 18      |

Bid Date 04/08/16

## \*\* ESTIMATING BAR LIST \*\*

| LINE | LA | EP | A/D | STRUCTURE | MULT | REQ | CODE | + | X | QTY | SZ/GR     | LENGTH | B | COMMENT  | LINE KG |
|------|----|----|-----|-----------|------|-----|------|---|---|-----|-----------|--------|---|----------|---------|
| 599  |    |    |     |           |      |     |      |   |   | 6   | 20m Gr420 | 2785   | H | 6-20 TOP | 39      |
| 600  |    |    |     |           |      |     |      |   |   | 2   | 20m Gr420 | 4608   |   | 2-20 TOP | 21      |
| 601  |    |    |     |           |      |     |      |   |   | 2   | 20m Gr420 | 3895   |   | 2-20 TOP | 18      |
| 602  |    |    |     |           |      |     |      |   |   | 4   | 25m Gr420 | 6000   |   | 4-25 TOP | 94      |
| 603  |    |    |     |           |      |     |      |   |   | 4   | 25m Gr420 | 4330   |   | 4-25 TOP | 68      |
| 604  |    |    |     |           |      |     |      |   |   | 3   | 25m Gr420 | 5850   |   | 3-25 TOP | 68      |
| 605  |    |    |     |           |      |     |      |   |   | 3   | 25m Gr420 | 4085   |   | 3-25 TOP | 48      |
| 606  |    |    |     |           |      |     |      |   |   | 4   | 25m Gr420 | 6000   |   | 4-25 TOP | 94      |
| 607  |    |    |     |           |      |     |      |   |   | 4   | 25m Gr420 | 4330   |   | 4-25 TOP | 68      |
| 608  |    |    |     |           |      |     |      |   |   | 3   | 25m Gr420 | 5850   |   | 3-25 TOP | 68      |
| 609  |    |    |     |           |      |     |      |   |   | 3   | 25m Gr420 | 4085   |   | 3-25 TOP | 48      |
| 610  |    |    |     |           |      |     |      |   |   | 4   | 20m Gr420 | 4450   |   | 4-20 TOP | 41      |
| 611  |    |    |     |           |      |     |      |   |   | 4   | 20m Gr420 | 3080   |   | 4-20 TOP | 29      |
| 612  |    |    |     |           |      |     |      |   |   | 3   | 25m Gr420 | 6195   |   | 3-25 TOP | 73      |
| 613  |    |    |     |           |      |     |      |   |   | 3   | 25m Gr420 | 4465   |   | 3-25 TOP | 52      |
| 614  |    |    |     |           |      |     |      |   |   | 2   | 20m Gr420 | 6007   |   | 2-20 TOP | 28      |
| 615  |    |    |     |           |      |     |      |   |   | 2   | 20m Gr420 | 4450   |   | 2-20 TOP | 20      |
| 616  |    |    |     |           |      |     |      |   |   | 3   | 25m Gr420 | 4450   |   | 3-25 TOP | 52      |
| 617  |    |    |     |           |      |     |      |   |   | 3   | 25m Gr420 | 3080   |   | 3-25 TOP | 36      |
| 618  |    |    |     |           |      |     |      |   |   | 2   | 20m Gr420 | 6007   |   | 2-20 TOP | 28      |
| 619  |    |    |     |           |      |     |      |   |   | 2   | 20m Gr420 | 4450   |   | 2-20 TOP | 20      |
| 620  |    |    |     |           |      |     |      |   |   | 3   | 20m Gr420 | 4450   |   | 3-20 TOP | 31      |
| 621  |    |    |     |           |      |     |      |   |   | 3   | 20m Gr420 | 3080   |   | 3-20 TOP | 21      |

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## \*\* ESTIMATING BAR LIST \*\*

| LINE | LA | EP | A/D | STRUCTURE | MULT | REQ | CODE | + | X | QTY | SZ/GR     | LENGTH | B | COMMENT  | LINE KG |
|------|----|----|-----|-----------|------|-----|------|---|---|-----|-----------|--------|---|----------|---------|
| 622  |    |    |     |           |      |     |      |   |   | 2   | 20m Gr420 | 4608   |   | 2-20 TOP | 21      |
| 623  |    |    |     |           |      |     |      |   |   | 2   | 20m Gr420 | 3408   |   | 2-20 TOP | 15      |
| 624  |    |    |     |           |      |     |      |   |   | 3   | 20m Gr420 | 5696   |   | 3-20 TOP | 40      |
| 625  |    |    |     |           |      |     |      |   |   | 3   | 20m Gr420 | 3895   |   | 3-20 TOP | 27      |
| 626  |    |    |     |           |      |     |      |   |   | 1   | 20m Gr420 | 4608   |   | 1-20 TOP | 10      |
| 627  |    |    |     |           |      |     |      |   |   | 1   | 20m Gr420 | 3408   |   | 1-20 TOP | 8       |
| 628  |    |    |     |           |      |     |      |   |   | 2   | 20m Gr420 | 5696   |   | 2-20 TOP | 26      |
| 629  |    |    |     |           |      |     |      |   |   | 2   | 20m Gr420 | 3895   |   | 2-20 TOP | 18      |
| 630  |    |    |     |           |      |     |      |   |   | 1   | 20m Gr420 | 4608   |   | 1-20 TOP | 10      |
| 631  |    |    |     |           |      |     |      |   |   | 1   | 20m Gr420 | 3408   |   | 1-20 TOP | 8       |
| 632  |    |    |     |           |      |     |      |   |   | 2   | 20m Gr420 | 5696   |   | 2-20 TOP | 26      |
| 633  |    |    |     |           |      |     |      |   |   | 2   | 20m Gr420 | 3895   |   | 2-20 TOP | 18      |
| 634  |    |    |     |           |      |     |      |   |   | 1   | 20m Gr420 | 4608   |   | 1-20 TOP | 10      |
| 635  |    |    |     |           |      |     |      |   |   | 1   | 20m Gr420 | 3408   |   | 1-20 TOP | 8       |
| 636  |    |    |     |           |      |     |      |   |   | 3   | 20m Gr420 | 5696   |   | 3-20 TOP | 40      |
| 637  |    |    |     |           |      |     |      |   |   | 3   | 20m Gr420 | 3895   |   | 3-20 TOP | 27      |
| 638  |    |    |     |           |      |     |      |   |   | 1   | 20m Gr420 | 4608   |   | 1-20 TOP | 10      |
| 639  |    |    |     |           |      |     |      |   |   | 1   | 20m Gr420 | 3408   |   | 1-20 TOP | 8       |
| 640  |    |    |     |           |      |     |      |   |   | 3   | 20m Gr420 | 5696   |   | 3-20 TOP | 40      |
| 641  |    |    |     |           |      |     |      |   |   | 3   | 20m Gr420 | 3895   |   | 3-20 TOP | 27      |
| 642  |    |    |     |           |      |     |      |   |   | 2   | 20m Gr420 | 4603   |   | 2-20 TOP | 21      |
| 643  |    |    |     |           |      |     |      |   |   | 2   | 20m Gr420 | 3398   |   | 2-20 TOP | 15      |
| 644  |    |    |     |           |      |     |      |   |   | 4   | 20m Gr420 | 3200   | H | 4-20 TOP | 29      |

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## \*\* ESTIMATING BAR LIST \*\*

| LINE | LA | EP | A/D | STRUCTURE | MULT | REQ | CODE | + | X | QTY | SZ/GR     | LENGTH | B | COMMENT     | LINE KG |
|------|----|----|-----|-----------|------|-----|------|---|---|-----|-----------|--------|---|-------------|---------|
| 645  |    |    |     |           |      |     |      |   |   | 3   | 20m Gr420 | 7806   |   | 3-20 TOP    | 55      |
| 646  |    |    |     |           |      |     |      |   |   | 3   | 20m Gr420 | 5542   |   | 3-20 TOP    | 39      |
| 647  |    |    |     |           |      |     |      |   |   | 4   | 20m Gr420 | 3200   | H | 4-20 TOP    | 29      |
| 648  |    |    |     |           |      |     |      |   |   | 3   | 20m Gr420 | 7806   |   | 3-20 TOP    | 55      |
| 649  |    |    |     |           |      |     |      |   |   | 3   | 20m Gr420 | 5542   |   | 3-20 TOP    | 39      |
| 650  |    |    |     |           |      |     |      |   |   | 4   | 20m Gr420 | 3200   | H | 4-20 TOP    | 29      |
| 651  |    |    |     |           |      |     |      |   |   | 4   | 20m Gr420 | 1620   |   | 4-20 TOP    | 15      |
| 652  |    |    |     |           |      |     |      |   |   | 40  | 20m Gr420 | 2055   |   | 20 @450 TOP | 193     |
| 653  |    |    |     |           |      |     |      |   |   | 3   | 25m Gr420 | 6000   |   | 3-20 TOP    | 70      |
| 654  |    |    |     |           |      |     |      |   |   | 3   | 25m Gr420 | 4330   |   | 3-20 TOP    | 50      |
| 655  |    |    |     |           |      |     |      |   |   | 3   | 25m Gr420 | 5850   |   | 3-20 TOP    | 68      |
| 656  |    |    |     |           |      |     |      |   |   | 3   | 25m Gr420 | 4085   |   | 3-20 TOP    | 48      |
| 657  |    |    |     |           |      |     |      |   |   | 3   | 25m Gr420 | 6000   |   | 3-20 TOP    | 70      |
| 658  |    |    |     |           |      |     |      |   |   | 3   | 25m Gr420 | 4330   |   | 3-20 TOP    | 50      |
| 659  |    |    |     |           |      |     |      |   |   | 3   | 25m Gr420 | 5850   |   | 3-20 TOP    | 68      |
| 660  |    |    |     |           |      |     |      |   |   | 3   | 25m Gr420 | 4085   |   | 3-20 TOP    | 48      |
| 661  |    |    |     |           |      |     |      |   |   | 2   | 20m Gr420 | 7205   |   | 2-20 TOP    | 34      |
| 662  |    |    |     |           |      |     |      |   |   | 2   | 20m Gr420 | 6206   |   | 2-20 TOP    | 29      |
| 663  |    |    |     |           |      |     |      |   |   | 4   | 20m Gr420 | 4608   |   | 4-20 TOP    | 43      |
| 664  |    |    |     |           |      |     |      |   |   | 4   | 20m Gr420 | 3408   |   | 4-20 TOP    | 32      |
| 665  |    |    |     |           |      |     |      |   |   | 1   | 20m Gr420 | 5696   |   | 1-20 TOP    | 13      |
| 666  |    |    |     |           |      |     |      |   |   | 1   | 20m Gr420 | 3895   |   | 1-20 TOP    | 9       |
| 667  |    |    |     |           |      |     |      |   |   | 4   | 25m Gr420 | 4608   |   | 4-25 TOP    | 72      |

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## \*\* ESTIMATING BAR LIST \*\*

| LINE | LA | EP | A/D | STRUCTURE | MULT | REQ | CODE | + | X | QTY | SZ/GR     | LENGTH | B | COMMENT  | LINE KG |
|------|----|----|-----|-----------|------|-----|------|---|---|-----|-----------|--------|---|----------|---------|
| 668  |    |    |     |           |      |     |      |   |   | 4   | 25m Gr420 | 3408   |   | 4-25 TOP | 53      |
| 669  |    |    |     |           |      |     |      |   |   | 1   | 20m Gr420 | 5696   |   | 1-20 TOP | 13      |
| 670  |    |    |     |           |      |     |      |   |   | 1   | 20m Gr420 | 3895   |   | 1-20 TOP | 9       |
| 671  |    |    |     |           |      |     |      |   |   | 4   | 25m Gr420 | 4608   |   | 4-25 TOP | 72      |
| 672  |    |    |     |           |      |     |      |   |   | 4   | 25m Gr420 | 3408   |   | 4-25 TOP | 53      |
| 673  |    |    |     |           |      |     |      |   |   | 1   | 20m Gr420 | 5696   |   | 1-20 TOP | 13      |
| 674  |    |    |     |           |      |     |      |   |   | 1   | 20m Gr420 | 3895   |   | 1-20 TOP | 9       |
| 675  |    |    |     |           |      |     |      |   |   | 3   | 25m Gr420 | 4608   |   | 3-25 TOP | 54      |
| 676  |    |    |     |           |      |     |      |   |   | 3   | 25m Gr420 | 3408   |   | 3-25 TOP | 39      |
| 677  |    |    |     |           |      |     |      |   |   | 1   | 20m Gr420 | 5696   |   | 1-20 TOP | 13      |
| 678  |    |    |     |           |      |     |      |   |   | 1   | 20m Gr420 | 3895   |   | 1-20 TOP | 9       |
| 679  |    |    |     |           |      |     |      |   |   | 3   | 25m Gr420 | 4608   |   | 3-25 TOP | 54      |
| 680  |    |    |     |           |      |     |      |   |   | 3   | 25m Gr420 | 3408   |   | 3-25 TOP | 39      |
| 681  |    |    |     |           |      |     |      |   |   | 1   | 20m Gr420 | 5696   |   | 1-20 TOP | 13      |
| 682  |    |    |     |           |      |     |      |   |   | 1   | 20m Gr420 | 3895   |   | 1-20 TOP | 9       |
| 683  |    |    |     |           |      |     |      |   |   | 3   | 25m Gr420 | 4608   |   | 3-25 TOP | 54      |
| 684  |    |    |     |           |      |     |      |   |   | 3   | 25m Gr420 | 3408   |   | 3-25 TOP | 39      |
| 685  |    |    |     |           |      |     |      |   |   | 1   | 20m Gr420 | 5696   |   | 1-20 TOP | 13      |
| 686  |    |    |     |           |      |     |      |   |   | 1   | 20m Gr420 | 3895   |   | 1-20 TOP | 9       |
| 687  |    |    |     |           |      |     |      |   |   | 3   | 25m Gr420 | 4608   |   | 3-25 TOP | 54      |
| 688  |    |    |     |           |      |     |      |   |   | 3   | 25m Gr420 | 3408   |   | 3-25 TOP | 39      |
| 689  |    |    |     |           |      |     |      |   |   | 2   | 20m Gr420 | 5696   |   | 2-20 TOP | 26      |
| 690  |    |    |     |           |      |     |      |   |   | 2   | 20m Gr420 | 3895   |   | 2-20 TOP | 18      |

Bid Date 04/08/16

## \*\* ESTIMATING BAR LIST \*\*

| LINE | LA | EP | A/D | STRUCTURE | MULT | REQ | CODE | + | X | QTY | SZ/GR     | LENGTH | B | COMMENT  | LINE KG |
|------|----|----|-----|-----------|------|-----|------|---|---|-----|-----------|--------|---|----------|---------|
| 691  |    |    |     |           |      |     |      |   |   | 4   | 25m Gr420 | 4608   |   | 4-25 TOP | 72      |
| 692  |    |    |     |           |      |     |      |   |   | 4   | 25m Gr420 | 3408   |   | 4-25 TOP | 53      |
| 693  |    |    |     |           |      |     |      |   |   | 2   | 20m Gr420 | 4603   |   | 2-20 TOP | 21      |
| 694  |    |    |     |           |      |     |      |   |   | 2   | 20m Gr420 | 3398   |   | 2-20 TOP | 15      |
| 695  |    |    |     |           |      |     |      |   |   | 2   | 20m Gr420 | 5696   |   | 2-20 TOP | 26      |
| 696  |    |    |     |           |      |     |      |   |   | 2   | 20m Gr420 | 3894   |   | 2-20 TOP | 18      |
| 697  |    |    |     |           |      |     |      |   |   | 3   | 20m Gr420 | 7806   |   | 3-20 TOP | 55      |
| 698  |    |    |     |           |      |     |      |   |   | 3   | 20m Gr420 | 5542   |   | 3-20 TOP | 39      |
| 699  |    |    |     |           |      |     |      |   |   | 2   | 20m Gr420 | 5696   |   | 2-20 TOP | 26      |
| 700  |    |    |     |           |      |     |      |   |   | 2   | 20m Gr420 | 3894   |   | 2-20 TOP | 18      |
| 701  |    |    |     |           |      |     |      |   |   | 4   | 25m Gr420 | 7806   |   | 4-25 TOP | 122     |
| 702  |    |    |     |           |      |     |      |   |   | 4   | 25m Gr420 | 5542   |   | 4-25 TOP | 87      |
| 703  |    |    |     |           |      |     |      |   |   | 5   | 25m Gr420 | 5696   |   | 5-25 TOP | 111     |
| 704  |    |    |     |           |      |     |      |   |   | 5   | 25m Gr420 | 3894   |   | 5-25 TOP | 76      |
| 705  |    |    |     |           |      |     |      |   |   | 4   | 20m Gr420 | 1620   | H | 4-20 TOP | 15      |
| 706  |    |    |     |           |      |     |      |   |   | 3   | 25m Gr420 | 6000   |   | 3-25 TOP | 70      |
| 707  |    |    |     |           |      |     |      |   |   | 3   | 25m Gr420 | 4330   |   | 3-25 TOP | 50      |
| 708  |    |    |     |           |      |     |      |   |   | 3   | 20m Gr420 | 5850   |   | 3-20 TOP | 41      |
| 709  |    |    |     |           |      |     |      |   |   | 3   | 20m Gr420 | 4328   |   | 3-20 TOP | 30      |
| 710  |    |    |     |           |      |     |      |   |   | 3   | 25m Gr420 | 6000   |   | 3-25 TOP | 70      |
| 711  |    |    |     |           |      |     |      |   |   | 3   | 25m Gr420 | 4330   |   | 3-25 TOP | 50      |
| 712  |    |    |     |           |      |     |      |   |   | 5   | 25m Gr420 | 5850   |   | 5-25 TOP | 114     |
| 713  |    |    |     |           |      |     |      |   |   | 5   | 25m Gr420 | 4328   |   | 5-25 TOP | 84      |

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## \*\* ESTIMATING BAR LIST \*\*

| LINE | LA | EP | A/D | STRUCTURE | MULT | REQ | CODE | + | X | QTY | SZ/GR     | LENGTH | B | COMMENT  | LINE KG |
|------|----|----|-----|-----------|------|-----|------|---|---|-----|-----------|--------|---|----------|---------|
| 714  |    |    |     |           |      |     |      |   |   | 3   | 25m Gr420 | 7206   |   | 3-25 TOP | 84      |
| 715  |    |    |     |           |      |     |      |   |   | 3   | 25m Gr420 | 6206   |   | 3-25 TOP | 73      |
| 716  |    |    |     |           |      |     |      |   |   | 6   | 25m Gr420 | 4608   |   | 6-25 TOP | 108     |
| 717  |    |    |     |           |      |     |      |   |   | 6   | 25m Gr420 | 3408   |   | 6-25 TOP | 80      |
| 718  |    |    |     |           |      |     |      |   |   | 3   | 25m Gr420 | 5696   |   | 3-25 TOP | 67      |
| 719  |    |    |     |           |      |     |      |   |   | 3   | 25m Gr420 | 3895   |   | 3-25 TOP | 45      |
| 720  |    |    |     |           |      |     |      |   |   | 4   | 25m Gr420 | 4608   |   | 4-25 TOP | 72      |
| 721  |    |    |     |           |      |     |      |   |   | 4   | 25m Gr420 | 3408   |   | 4-25 TOP | 53      |
| 722  |    |    |     |           |      |     |      |   |   | 3   | 20m Gr420 | 5696   |   | 3-20 TOP | 40      |
| 723  |    |    |     |           |      |     |      |   |   | 3   | 20m Gr420 | 3895   |   | 3-20 TOP | 27      |
| 724  |    |    |     |           |      |     |      |   |   | 4   | 25m Gr420 | 4608   |   | 4-25 TOP | 72      |
| 725  |    |    |     |           |      |     |      |   |   | 4   | 25m Gr420 | 3408   |   | 4-25 TOP | 53      |
| 726  |    |    |     |           |      |     |      |   |   | 4   | 20m Gr420 | 5696   |   | 4-20 TOP | 53      |
| 727  |    |    |     |           |      |     |      |   |   | 4   | 20m Gr420 | 3895   |   | 4-20 TOP | 36      |
| 728  |    |    |     |           |      |     |      |   |   | 3   | 25m Gr420 | 4608   |   | 3-25 TOP | 54      |
| 729  |    |    |     |           |      |     |      |   |   | 3   | 25m Gr420 | 3408   |   | 3-25 TOP | 39      |
| 730  |    |    |     |           |      |     |      |   |   | 3   | 20m Gr420 | 5696   |   | 3-20 TOP | 40      |
| 731  |    |    |     |           |      |     |      |   |   | 3   | 20m Gr420 | 3895   |   | 3-20 TOP | 27      |
| 732  |    |    |     |           |      |     |      |   |   | 3   | 25m Gr420 | 4608   |   | 3-25 TOP | 54      |
| 733  |    |    |     |           |      |     |      |   |   | 3   | 25m Gr420 | 3408   |   | 3-25 TOP | 39      |
| 734  |    |    |     |           |      |     |      |   |   | 3   | 20m Gr420 | 5696   |   | 3-20 TOP | 40      |
| 735  |    |    |     |           |      |     |      |   |   | 3   | 20m Gr420 | 3895   |   | 3-20 TOP | 27      |
| 736  |    |    |     |           |      |     |      |   |   | 3   | 25m Gr420 | 4608   |   | 3-25 TOP | 54      |

Bid Date 04/08/16

## \*\* ESTIMATING BAR LIST \*\*

| LINE | LA | EP | A/D | STRUCTURE | MULT | REQ | CODE | + | X | QTY | SZ/GR     | LENGTH | B | COMMENT  | LINE KG |
|------|----|----|-----|-----------|------|-----|------|---|---|-----|-----------|--------|---|----------|---------|
| 737  |    |    |     |           |      |     |      |   |   | 3   | 25m Gr420 | 3408   |   | 3-25 TOP | 39      |
| 738  |    |    |     |           |      |     |      |   |   | 3   | 20m Gr420 | 5696   |   | 3-20 TOP | 40      |
| 739  |    |    |     |           |      |     |      |   |   | 3   | 20m Gr420 | 3895   |   | 3-20 TOP | 27      |
| 740  |    |    |     |           |      |     |      |   |   | 3   | 25m Gr420 | 4608   |   | 3-25 TOP | 54      |
| 741  |    |    |     |           |      |     |      |   |   | 3   | 25m Gr420 | 3408   |   | 3-25 TOP | 39      |
| 742  |    |    |     |           |      |     |      |   |   | 4   | 20m Gr420 | 5696   |   | 4-20 TOP | 53      |
| 743  |    |    |     |           |      |     |      |   |   | 4   | 20m Gr420 | 3895   |   | 4-20 TOP | 36      |
| 744  |    |    |     |           |      |     |      |   |   | 4   | 25m Gr420 | 4608   |   | 4-25 TOP | 72      |
| 745  |    |    |     |           |      |     |      |   |   | 4   | 25m Gr420 | 3408   |   | 4-25 TOP | 53      |
| 746  |    |    |     |           |      |     |      |   |   | 2   | 20m Gr420 | 4603   |   | 2-20 TOP | 21      |
| 747  |    |    |     |           |      |     |      |   |   | 2   | 20m Gr420 | 3398   |   | 2-20 TOP | 15      |
| 748  |    |    |     |           |      |     |      |   |   | 3   | 25m Gr420 | 5696   |   | 3-25 TOP | 67      |
| 749  |    |    |     |           |      |     |      |   |   | 3   | 25m Gr420 | 3894   |   | 3-25 TOP | 45      |
| 750  |    |    |     |           |      |     |      |   |   | 4   | 25m Gr420 | 7806   |   | 4-25 TOP | 122     |
| 751  |    |    |     |           |      |     |      |   |   | 4   | 25m Gr420 | 5542   |   | 4-25 TOP | 87      |
| 752  |    |    |     |           |      |     |      |   |   | 5   | 25m Gr420 | 5696   |   | 5-25 TOP | 111     |
| 753  |    |    |     |           |      |     |      |   |   | 5   | 25m Gr420 | 3984   |   | 5-25 TOP | 78      |
| 754  |    |    |     |           |      |     |      |   |   | 5   | 25m Gr420 | 7806   |   | 5-25 TOP | 153     |
| 755  |    |    |     |           |      |     |      |   |   | 5   | 25m Gr420 | 5542   |   | 5-25 TOP | 108     |
| 756  |    |    |     |           |      |     |      |   |   | 5   | 25m Gr420 | 5696   |   | 5-25 TOP | 111     |
| 757  |    |    |     |           |      |     |      |   |   | 5   | 25m Gr420 | 3894   |   | 5-25 TOP | 76      |
| 758  |    |    |     |           |      |     |      |   |   | 4   | 20m Gr420 | 1620   | H | 4-20 TOP | 15      |
| 759  |    |    |     |           |      |     |      |   |   | 3   | 20m Gr420 | 5096   |   | 3-20 TOP | 35      |

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## \*\* ESTIMATING BAR LIST \*\*

| LINE | LA | EP | A/D | STRUCTURE | MULT | REQ | CODE | + | X | QTY | SZ/GR     | LENGTH | B | COMMENT  | LINE KG |
|------|----|----|-----|-----------|------|-----|------|---|---|-----|-----------|--------|---|----------|---------|
| 760  |    |    |     |           |      |     |      |   |   | 3   | 20m Gr420 | 3730   |   | 3-20 TOP | 26      |
| 761  |    |    |     |           |      |     |      |   |   | 3   | 20m Gr420 | 5705   |   | 3-20 TOP | 40      |
| 762  |    |    |     |           |      |     |      |   |   | 3   | 20m Gr420 | 4203   |   | 3-20 TOP | 29      |
| 763  |    |    |     |           |      |     |      |   |   | 4   | 25m Gr420 | 5705   |   | 4-25 TOP | 89      |
| 764  |    |    |     |           |      |     |      |   |   | 4   | 25m Gr420 | 4203   |   | 4-25 TOP | 65      |
| 765  |    |    |     |           |      |     |      |   |   | 3   | 25m Gr420 | 6000   |   | 3-25 TOP | 70      |
| 766  |    |    |     |           |      |     |      |   |   | 3   | 25m Gr420 | 4330   |   | 3-25 TOP | 50      |
| 767  |    |    |     |           |      |     |      |   |   | 3   | 25m Gr420 | 7205   |   | 3-25 TOP | 84      |
| 768  |    |    |     |           |      |     |      |   |   | 3   | 25m Gr420 | 6208   |   | 3-25 TOP | 73      |
| 769  |    |    |     |           |      |     |      |   |   | 7   | 25m Gr420 | 4608   |   | 7-25 TOP | 126     |
| 770  |    |    |     |           |      |     |      |   |   | 7   | 25m Gr420 | 3408   |   | 7-25 TOP | 93      |
| 771  |    |    |     |           |      |     |      |   |   | 3   | 25m Gr420 | 5696   |   | 3-25 TOP | 67      |
| 772  |    |    |     |           |      |     |      |   |   | 3   | 25m Gr420 | 3894   |   | 3-25 TOP | 45      |
| 773  |    |    |     |           |      |     |      |   |   | 5   | 25m Gr420 | 4608   |   | 5-25 TOP | 90      |
| 774  |    |    |     |           |      |     |      |   |   | 5   | 25m Gr420 | 3408   |   | 5-25 TOP | 66      |
| 775  |    |    |     |           |      |     |      |   |   | 3   | 25m Gr420 | 5696   |   | 3-25 TOP | 67      |
| 776  |    |    |     |           |      |     |      |   |   | 3   | 25m Gr420 | 3894   |   | 3-25 TOP | 45      |
| 777  |    |    |     |           |      |     |      |   |   | 5   | 25m Gr420 | 4608   |   | 5-25 TOP | 90      |
| 778  |    |    |     |           |      |     |      |   |   | 5   | 25m Gr420 | 3408   |   | 5-25 TOP | 66      |
| 779  |    |    |     |           |      |     |      |   |   | 3   | 25m Gr420 | 5696   |   | 3-25 TOP | 67      |
| 780  |    |    |     |           |      |     |      |   |   | 3   | 25m Gr420 | 3894   |   | 3-25 TOP | 45      |
| 781  |    |    |     |           |      |     |      |   |   | 4   | 25m Gr420 | 4608   |   | 4-25 TOP | 72      |
| 782  |    |    |     |           |      |     |      |   |   | 4   | 25m Gr420 | 3408   |   | 4-25 TOP | 53      |

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## \*\* ESTIMATING BAR LIST \*\*

| LINE | LA | EP | A/D | STRUCTURE | MULT | REQ | CODE | + | X | QTY | SZ/GR     | LENGTH | B | COMMENT  | LINE KG |
|------|----|----|-----|-----------|------|-----|------|---|---|-----|-----------|--------|---|----------|---------|
| 783  |    |    |     |           |      |     |      |   |   | 3   | 25m Gr420 | 5696   |   | 3-25 TOP | 67      |
| 784  |    |    |     |           |      |     |      |   |   | 3   | 25m Gr420 | 3894   |   | 3-25 TOP | 45      |
| 785  |    |    |     |           |      |     |      |   |   | 4   | 25m Gr420 | 4608   |   | 4-25 TOP | 72      |
| 786  |    |    |     |           |      |     |      |   |   | 4   | 25m Gr420 | 3408   |   | 4-25 TOP | 53      |
| 787  |    |    |     |           |      |     |      |   |   | 3   | 25m Gr420 | 5696   |   | 3-25 TOP | 67      |
| 788  |    |    |     |           |      |     |      |   |   | 3   | 25m Gr420 | 3894   |   | 3-25 TOP | 45      |
| 789  |    |    |     |           |      |     |      |   |   | 4   | 25m Gr420 | 4608   |   | 4-25 TOP | 72      |
| 790  |    |    |     |           |      |     |      |   |   | 4   | 25m Gr420 | 3408   |   | 4-25 TOP | 53      |
| 791  |    |    |     |           |      |     |      |   |   | 3   | 25m Gr420 | 5696   |   | 3-25 TOP | 67      |
| 792  |    |    |     |           |      |     |      |   |   | 3   | 25m Gr420 | 3894   |   | 3-25 TOP | 45      |
| 793  |    |    |     |           |      |     |      |   |   | 4   | 25m Gr420 | 4608   |   | 4-25 TOP | 72      |
| 794  |    |    |     |           |      |     |      |   |   | 4   | 25m Gr420 | 3408   |   | 4-25 TOP | 53      |
| 795  |    |    |     |           |      |     |      |   |   | 3   | 25m Gr420 | 5696   |   | 3-25 TOP | 67      |
| 796  |    |    |     |           |      |     |      |   |   | 3   | 25m Gr420 | 3894   |   | 3-25 TOP | 45      |
| 797  |    |    |     |           |      |     |      |   |   | 4   | 25m Gr420 | 4608   |   | 4-25 TOP | 72      |
| 798  |    |    |     |           |      |     |      |   |   | 4   | 25m Gr420 | 3408   |   | 4-25 TOP | 53      |
| 799  |    |    |     |           |      |     |      |   |   | 3   | 20m Gr420 | 5696   |   | 3-20 TOP | 40      |
| 800  |    |    |     |           |      |     |      |   |   | 3   | 20m Gr420 | 3894   |   | 3-20 TOP | 27      |
| 801  |    |    |     |           |      |     |      |   |   | 4   | 20m Gr420 | 4608   |   | 4-20 TOP | 43      |
| 802  |    |    |     |           |      |     |      |   |   | 4   | 20m Gr420 | 3408   |   | 4-20 TOP | 32      |
| 803  |    |    |     |           |      |     |      |   |   | 5   | 25m Gr420 | 5696   |   | 5-25 TOP | 111     |
| 804  |    |    |     |           |      |     |      |   |   | 5   | 25m Gr420 | 3894   |   | 5-25 TOP | 76      |
| 805  |    |    |     |           |      |     |      |   |   | 3   | 20m Gr420 | 4608   |   | 3-20 TOP | 32      |

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## \*\* ESTIMATING BAR LIST \*\*

| LINE | LA | EP | A/D | STRUCTURE | MULT | REQ | CODE | + | X | QTY | SZ/GR     | LENGTH | B | COMMENT  | LINE KG |
|------|----|----|-----|-----------|------|-----|------|---|---|-----|-----------|--------|---|----------|---------|
| 806  |    |    |     |           |      |     |      |   |   | 3   | 20m Gr420 | 3408   |   | 3-20 TOP | 24      |
| 807  |    |    |     |           |      |     |      |   |   | 6   | 25m Gr420 | 7806   |   | 6-25 TOP | 183     |
| 808  |    |    |     |           |      |     |      |   |   | 6   | 25m Gr420 | 5542   |   | 6-25 TOP | 130     |
| 809  |    |    |     |           |      |     |      |   |   | 4   | 25m Gr420 | 5696   |   | 4-25 TOP | 89      |
| 810  |    |    |     |           |      |     |      |   |   | 4   | 25m Gr420 | 3894   |   | 4-25 TOP | 61      |
| 811  |    |    |     |           |      |     |      |   |   | 4   | 20m Gr420 | 1620   | H | 4-20 TOP | 15      |
| 812  |    |    |     |           |      |     |      |   |   | 3   | 20m Gr420 | 5696   |   | 3-20 TOP | 40      |
| 813  |    |    |     |           |      |     |      |   |   | 3   | 20m Gr420 | 3895   |   | 3-20 TOP | 27      |
| 814  |    |    |     |           |      |     |      |   |   | 1   | 20m Gr420 | 4608   |   | 1-20 TOP | 10      |
| 815  |    |    |     |           |      |     |      |   |   | 1   | 20m Gr420 | 3408   |   | 1-20 TOP | 8       |
| 816  |    |    |     |           |      |     |      |   |   | 2   | 20m Gr420 | 5696   |   | 2-20 TOP | 26      |
| 817  |    |    |     |           |      |     |      |   |   | 2   | 20m Gr420 | 3895   |   | 2-20 TOP | 18      |
| 818  |    |    |     |           |      |     |      |   |   | 1   | 20m Gr420 | 4608   |   | 1-20 TOP | 10      |
| 819  |    |    |     |           |      |     |      |   |   | 1   | 20m Gr420 | 3408   |   | 1-20 TOP | 8       |
| 820  |    |    |     |           |      |     |      |   |   | 2   | 20m Gr420 | 5696   |   | 2-20 TOP | 26      |
| 821  |    |    |     |           |      |     |      |   |   | 2   | 20m Gr420 | 3895   |   | 2-20 TOP | 18      |
| 822  |    |    |     |           |      |     |      |   |   | 1   | 20m Gr420 | 4608   |   | 1-20 TOP | 10      |
| 823  |    |    |     |           |      |     |      |   |   | 1   | 20m Gr420 | 3408   |   | 1-20 TOP | 8       |
| 824  |    |    |     |           |      |     |      |   |   | 3   | 20m Gr420 | 5696   |   | 3-20 TOP | 40      |
| 825  |    |    |     |           |      |     |      |   |   | 3   | 20m Gr420 | 3895   |   | 3-20 TOP | 27      |
| 826  |    |    |     |           |      |     |      |   |   | 3   | 20m Gr420 | 4608   |   | 3-20 TOP | 32      |
| 827  |    |    |     |           |      |     |      |   |   | 3   | 20m Gr420 | 3408   |   | 3-20 TOP | 24      |
| 828  |    |    |     |           |      |     |      |   |   | 2   | 20m Gr420 | 7806   |   | 2-20 TOP | 36      |

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## \*\* ESTIMATING BAR LIST \*\*

| LINE | LA | EP | A/D | STRUCTURE | MULT | REQ | CODE | + | X | QTY | SZ/GR     | LENGTH | B | COMMENT     | LINE KG |
|------|----|----|-----|-----------|------|-----|------|---|---|-----|-----------|--------|---|-------------|---------|
| 829  |    |    |     |           |      |     |      |   |   | 2   | 20m Gr420 | 5542   |   | 2-20 TOP    | 26      |
| 830  |    |    |     |           |      |     |      |   |   | 4   | 20m Gr420 | 1620   | H | 4-20 TOP    | 15      |
| 831  |    |    |     |           |      |     |      |   |   | 300 | 20m Gr420 | 2082   | H | 20 @450 TOP | 1470    |
| 832  |    |    |     |           |      |     |      |   |   | 3   | 20m Gr420 | 7812   |   | 3-20 TOP    | 55      |
| 833  |    |    |     |           |      |     |      |   |   | 3   | 20m Gr420 | 5530   |   | 3-20 TOP    | 39      |
| 834  |    |    |     |           |      |     |      |   |   | 2   | 20m Gr420 | 5400   |   | 2-20 TOP    | 25      |
| 835  |    |    |     |           |      |     |      |   |   | 2   | 20m Gr420 | 3713   |   | 2-20 TOP    | 17      |
| 836  |    |    |     |           |      |     |      |   |   | 3   | 25m Gr420 | 7812   |   | 3-25 TOP    | 92      |
| 837  |    |    |     |           |      |     |      |   |   | 3   | 25m Gr420 | 5530   |   | 3-25 TOP    | 65      |
| 838  |    |    |     |           |      |     |      |   |   | 3   | 20m Gr420 | 5400   |   | 3-20 TOP    | 38      |
| 839  |    |    |     |           |      |     |      |   |   | 3   | 20m Gr420 | 3713   |   | 3-20 TOP    | 26      |
| 840  |    |    |     |           |      |     |      |   |   | 3   | 20m Gr420 | 7812   |   | 3-20 TOP    | 55      |
| 841  |    |    |     |           |      |     |      |   |   | 3   | 20m Gr420 | 5530   |   | 3-20 TOP    | 39      |
| 842  |    |    |     |           |      |     |      |   |   | 2   | 20m Gr420 | 5400   |   | 2-20 TOP    | 25      |
| 843  |    |    |     |           |      |     |      |   |   | 2   | 20m Gr420 | 3713   |   | 2-20 TOP    | 17      |
| 844  |    |    |     |           |      |     |      |   |   | 3   | 25m Gr420 | 7812   |   | 3-25 TOP    | 92      |
| 845  |    |    |     |           |      |     |      |   |   | 3   | 25m Gr420 | 5530   |   | 3-25 TOP    | 65      |
| 846  |    |    |     |           |      |     |      |   |   | 3   | 20m Gr420 | 5400   |   | 3-20 TOP    | 38      |
| 847  |    |    |     |           |      |     |      |   |   | 3   | 20m Gr420 | 3713   |   | 3-20 TOP    | 26      |
| 848  |    |    |     |           |      |     |      |   |   | 3   | 20m Gr420 | 7812   |   | 3-20 TOP    | 55      |
| 849  |    |    |     |           |      |     |      |   |   | 3   | 20m Gr420 | 5530   |   | 3-20 TOP    | 39      |
| 850  |    |    |     |           |      |     |      |   |   | 2   | 20m Gr420 | 5400   |   | 2-20 TOP    | 25      |
| 851  |    |    |     |           |      |     |      |   |   | 2   | 20m Gr420 | 3713   |   | 2-20 TOP    | 17      |

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## \*\* ESTIMATING BAR LIST \*\*

| LINE | LA | EP | A/D | STRUCTURE | MULT | REQ | CODE | + | X | QTY | SZ/GR     | LENGTH | B | COMMENT  | LINE KG |
|------|----|----|-----|-----------|------|-----|------|---|---|-----|-----------|--------|---|----------|---------|
| 852  |    |    |     |           |      |     |      |   |   | 3   | 25m Gr420 | 7812   |   | 3-25 TOP | 92      |
| 853  |    |    |     |           |      |     |      |   |   | 3   | 25m Gr420 | 5530   |   | 3-25 TOP | 65      |
| 854  |    |    |     |           |      |     |      |   |   | 3   | 20m Gr420 | 5400   |   | 3-20 TOP | 38      |
| 855  |    |    |     |           |      |     |      |   |   | 3   | 20m Gr420 | 3713   |   | 3-20 TOP | 26      |
| 856  |    |    |     |           |      |     |      |   |   | 3   | 20m Gr420 | 7812   |   | 3-20 TOP | 55      |
| 857  |    |    |     |           |      |     |      |   |   | 3   | 20m Gr420 | 5530   |   | 3-20 TOP | 39      |
| 858  |    |    |     |           |      |     |      |   |   | 2   | 20m Gr420 | 5400   |   | 2-20 TOP | 25      |
| 859  |    |    |     |           |      |     |      |   |   | 2   | 20m Gr420 | 3713   |   | 2-20 TOP | 17      |
| 860  |    |    |     |           |      |     |      |   |   | 3   | 25m Gr420 | 7812   |   | 3-25 TOP | 92      |
| 861  |    |    |     |           |      |     |      |   |   | 3   | 25m Gr420 | 5530   |   | 3-25 TOP | 65      |
| 862  |    |    |     |           |      |     |      |   |   | 3   | 20m Gr420 | 5400   |   | 3-20 TOP | 38      |
| 863  |    |    |     |           |      |     |      |   |   | 3   | 20m Gr420 | 3713   |   | 3-20 TOP | 26      |
| 864  |    |    |     |           |      |     |      |   |   | 3   | 20m Gr420 | 7812   |   | 3-20 TOP | 55      |
| 865  |    |    |     |           |      |     |      |   |   | 3   | 20m Gr420 | 5530   |   | 3-20 TOP | 39      |
| 866  |    |    |     |           |      |     |      |   |   | 2   | 20m Gr420 | 5400   |   | 2-20 TOP | 25      |
| 867  |    |    |     |           |      |     |      |   |   | 2   | 20m Gr420 | 3713   |   | 2-20 TOP | 17      |
| 868  |    |    |     |           |      |     |      |   |   | 3   | 20m Gr420 | 5400   |   | 3-20 TOP | 38      |
| 869  |    |    |     |           |      |     |      |   |   | 3   | 20m Gr420 | 3713   |   | 3-20 TOP | 26      |
| 870  |    |    |     |           |      |     |      |   |   | 3   | 20m Gr420 | 5400   |   | 3-20 TOP | 38      |
| 871  |    |    |     |           |      |     |      |   |   | 3   | 20m Gr420 | 3713   |   | 3-20 TOP | 26      |
| 872  |    |    |     |           |      |     |      |   |   | 1   | 20m Gr420 | 5400   |   | 1-20 TOP | 12      |
| 873  |    |    |     |           |      |     |      |   |   | 1   | 20m Gr420 | 3713   |   | 1-20 TOP | 8       |
| 874  |    |    |     |           |      |     |      |   |   | 2   | 20m Gr420 | 3620   |   | 2-20 TOP | 17      |

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## \*\* ESTIMATING BAR LIST \*\*

| LINE | LA | EP | A/D | STRUCTURE | MULT | REQ | CODE | + | X | QTY | SZ/GR     | LENGTH | B | COMMENT     | LINE KG |
|------|----|----|-----|-----------|------|-----|------|---|---|-----|-----------|--------|---|-------------|---------|
| 875  |    |    |     |           |      |     |      |   |   | 2   | 20m Gr420 | 4133   |   | 2-20 TOP    | 19      |
| 876  |    |    |     |           |      |     |      |   |   | 2   | 20m Gr420 | 3491   |   | 2-20 TOP    | 16      |
| 877  |    |    |     |           |      |     |      |   |   | 4   | 20m Gr420 | 5910   |   | 4-20 TOP    | 55      |
| 878  |    |    |     |           |      |     |      |   |   | 3   | 20m Gr420 | 4440   |   | 3-20 TOP    | 31      |
| 879  |    |    |     |           |      |     |      |   |   | 3   | 20m Gr420 | 4338   |   | 3-20 TOP    | 30      |
| 880  |    |    |     |           |      |     |      |   |   | 3   | 20m Gr420 | 2975   |   | 3-20 TOP    | 20      |
| 881  |    |    |     |           |      |     |      |   |   | 4   | 20m Gr420 | 5910   |   | 4-20 TOP    | 55      |
| 882  |    |    |     |           |      |     |      |   |   | 3   | 20m Gr420 | 4440   |   | 3-20 TOP    | 31      |
| 883  |    |    |     |           |      |     |      |   |   | 3   | 20m Gr420 | 4338   |   | 3-20 TOP    | 30      |
| 884  |    |    |     |           |      |     |      |   |   | 3   | 20m Gr420 | 2975   |   | 3-20 TOP    | 20      |
| 885  |    |    |     |           |      |     |      |   |   | 7   | 20m Gr420 | 2095   | H | 20 @450 TOP | 34      |
| 886  |    |    |     |           |      |     |      |   |   | 3   | 20m Gr420 | 5910   |   | 3-20 TOP    | 41      |
| 887  |    |    |     |           |      |     |      |   |   | 3   | 20m Gr420 | 4440   |   | 3-20 TOP    | 31      |
| 888  |    |    |     |           |      |     |      |   |   | 2   | 20m Gr420 | 5910   |   | 2-20 TOP    | 27      |
| 889  |    |    |     |           |      |     |      |   |   | 4   | 20m Gr420 | 5910   |   | 4-20 TOP    | 55      |
| 890  |    |    |     |           |      |     |      |   |   | 4   | 20m Gr420 | 4440   |   | 4-20 TOP    | 41      |
| 891  |    |    |     |           |      |     |      |   |   | 3   | 20m Gr420 | 4338   |   | 3-20 TOP    | 30      |
| 892  |    |    |     |           |      |     |      |   |   | 3   | 20m Gr420 | 2975   |   | 3-20 TOP    | 20      |
| 893  |    |    |     |           |      |     |      |   |   | 3   | 20m Gr420 | 5910   |   | 3-20 TOP    | 41      |
| 894  |    |    |     |           |      |     |      |   |   | 3   | 20m Gr420 | 4440   |   | 3-20 TOP    | 31      |
| 895  |    |    |     |           |      |     |      |   |   | 3   | 20m Gr420 | 4338   |   | 3-20 TOP    | 30      |
| 896  |    |    |     |           |      |     |      |   |   | 3   | 20m Gr420 | 2975   |   | 3-20 TOP    | 20      |
| 897  |    |    |     |           |      |     |      |   |   | 8   | 20m Gr420 | 3450   |   | 8-20 TOP    | 64      |

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## \*\* ESTIMATING BAR LIST \*\*

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|------|----|----|-----|------------------|------|-----|------|---|----|------|-----------|--------|---|------------------|---------|
| 898  |    |    |     |                  |      |     |      |   | 3  | 1    | 25m Gr420 | 9910   | H | 1-25 BOT         | 116     |
| 899  |    |    |     |                  |      |     |      |   |    | 45   | 25m Gr420 | 12000  |   | 1-25 BOT         | 2119    |
| 900  |    |    |     |                  |      |     |      |   |    | 2    | 25m Gr420 | 8810   |   | 2-25 BOT         | 68      |
| 901  |    |    |     |                  |      |     |      |   | 60 | 2    | 20m Gr420 | 12000  |   | 2-20 BOT         | 3390    |
| 902  |    |    |     |                  |      |     |      |   | 14 | 3    | 20m Gr420 | 12000  |   | 3-20 BOT         | 1186    |
| 903  |    |    |     |                  |      |     |      |   | 25 | 4    | 20m Gr420 | 12000  |   | 4-20 BOT         | 2825    |
| 904  |    |    |     |                  |      |     |      |   | 8  | 6    | 20m Gr420 | 12000  |   | 6-20 BOT         | 1356    |
| 905  |    |    |     |                  |      |     |      |   | 2  | 310  | 15m Gr420 | 800    |   | 15 @300 ADDL ES  | 778     |
| 906  |    |    |     |                  |      | 10  |      |   | 2  | 2    | 15m Gr420 | 12000  |   | 2-15 CONT ES     | 753     |
| 907  |    |    |     |                  |      |     |      |   |    |      |           |        |   |                  |         |
| 908  |    |    |     | 210MM THICK SLAB |      |     |      |   |    |      |           |        |   |                  |         |
| 909  |    |    |     |                  |      |     |      |   | 2  | 665  | 15m Gr420 | 12000  |   | 15 @450 T&B EW   | 25057   |
| 910  |    |    |     |                  |      |     |      |   |    | 1095 | 15m Gr420 | 1623   | H | 15 STANDEE       | 2790    |
| 911  |    |    |     |                  |      |     |      |   |    | 28   | 15m Gr420 | 1980   |   | 15 @450 TOP ADDL | 87      |
| 912  |    |    |     |                  |      |     |      |   |    | 27   | 10m Gr420 | 6000   |   | 10 @450 BOT ADDL | 127     |
| 913  |    |    |     |                  |      |     |      |   |    | 27   | 15m Gr420 | 7050   |   | 15 @450 TOP ADDL | 298     |
| 914  |    |    |     |                  |      |     |      |   |    | 23   | 25m Gr420 | 4145   |   | 25 @250 BOT ADDL | 374     |
| 915  |    |    |     |                  |      |     |      |   |    | 17   | 25m Gr420 | 5355   |   | 25 @125 BOT ADDL | 357     |
| 916  |    |    |     |                  |      |     |      |   |    | 5    | 15m Gr420 | 2780   |   | 15 @450 TOP ADDL | 21      |
| 917  |    |    |     |                  |      |     |      |   |    | 17   | 20m Gr420 | 7290   |   | 20 @125 TOP ADDL | 291     |
| 918  |    |    |     |                  |      |     |      |   |    | 8    | 25m Gr420 | 5380   |   | 25 @150 BOT ADDL | 168     |
| 919  |    |    |     |                  |      |     |      |   |    | 8    | 25m Gr420 | 7290   |   | 25 @150 TOP ADDL | 229     |
| 920  |    |    |     |                  |      |     |      |   |    | 10   | 25m Gr420 | 5380   |   | 25 @125 BOT ADDL | 210     |

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|------|----|----|-----|-----------|------|-----|------|---|---|-----|-----------|--------|---|------------------|---------|
| 921  |    |    |     |           |      |     |      |   |   | 10  | 25m Gr420 | 7290   |   | 25 @125 TOP ADDL | 286     |
| 922  |    |    |     |           |      |     |      |   |   | 16  | 15m Gr420 | 650    | H | 15 @300 HAIR PIN | 16      |
| 923  |    |    |     |           |      |     |      |   | 2 | 15  | 15m Gr420 | 2230   | H | 15 @300 STIRR    | 105     |
| 924  |    |    |     |           |      |     |      |   |   | 2   | 15m Gr420 | 2500   |   | 2-15 TOP ADDL    | 7       |
| 925  |    |    |     |           |      |     |      |   |   | 80  | 25m Gr420 | 2500   |   | 25 @300 TOP ADDL | 784     |
| 926  |    |    |     |           |      |     |      |   |   | 13  | 10m Gr420 | 5100   |   | 10 @450 BOT ADDL | 52      |
| 927  |    |    |     |           |      |     |      |   |   | 8   | 10m Gr420 | 7550   |   | 10 @450 BOT ADDL | 47      |
| 928  |    |    |     |           |      |     |      |   |   | 5   | 15m Gr420 | 8500   |   | 15 @450 TOP ADDL | 66      |
| 929  |    |    |     |           |      |     |      |   |   | 30  | 15m Gr420 | 4000   |   | 15 @450 TOP ADDL | 188     |
| 930  |    |    |     |           |      |     |      |   |   | 25  | 10m Gr420 | 10340  |   | 10 @450 BOT ADDL | 202     |
| 931  |    |    |     |           |      |     |      |   |   | 125 | 15m Gr420 | 5000   |   | 15 @300 BOT ADDL | 981     |
| 932  |    |    |     |           |      |     |      |   |   | 50  | 15m Gr420 | 3545   |   | 15 @300 BOT ADDL | 278     |
| 933  |    |    |     |           |      |     |      |   |   | 32  | 25m Gr420 | 6170   |   | 25 @450 TOP ADDL | 774     |
| 934  |    |    |     |           |      |     |      |   |   | 13  | 10m Gr420 | 5000   |   | 10 @450 BOT ADDL | 50      |
| 935  |    |    |     |           |      |     |      |   |   | 20  | 10m Gr420 | 7500   |   | 10 @450 BOT ADDL | 117     |
| 936  |    |    |     |           |      |     |      |   |   | 6   | 25m Gr420 | 8560   |   | 25 @300 TOP ADDL | 201     |
| 937  |    |    |     |           |      |     |      |   |   | 27  | 25m Gr420 | 2550   |   | 25 @300 TOP ADDL | 270     |
| 938  |    |    |     |           |      |     |      |   |   | 12  | 25m Gr420 | 6125   |   | 25 @300 TOP ADDL | 288     |
| 939  |    |    |     |           |      |     |      |   |   | 7   | 20m Gr420 | 3900   |   | 20 @450 TOP ADDL | 64      |
| 940  |    |    |     |           |      |     |      |   |   | 42  | 15m Gr420 | 3555   |   | 15 @300 BOT ADDL | 234     |
| 941  |    |    |     |           |      |     |      |   |   | 6   | 25m Gr420 | 10000  |   | 25 @300 TOP ADDL | 235     |
| 942  |    |    |     |           |      |     |      |   |   | 3   | 25m Gr420 | 6750   |   | 25 @300 TOP ADDL | 79      |
| 943  |    |    |     |           |      |     |      |   |   | 22  | 25m Gr420 | 4255   |   | 25 @300 BOT ADDL | 367     |

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|------|----|----|-----|-----------|------|-----|------|---|---|-----|-----------|--------|---|------------------|---------|
| 944  |    |    |     |           |      |     |      |   |   | 12  | 25m Gr420 | 10061  |   | 25 @300 BOT ADDL | 474     |
| 945  |    |    |     |           |      |     |      |   |   | 5   | 20m Gr420 | 2570   | H | 20 @450 TOP ADDL | 30      |
| 946  |    |    |     |           |      |     |      |   |   | 7   | 10m Gr420 | 7565   |   | 10 @450 BOT ADDL | 41      |
| 947  |    |    |     |           |      |     |      |   |   | 23  | 25m Gr420 | 2725   | H | 25 @300 TOP ADDL | 245     |
| 948  |    |    |     |           |      |     |      |   |   | 6   | 15m Gr420 | 3755   | H | 15 @600 TOP ADDL | 35      |
| 949  |    |    |     |           |      |     |      |   |   | 4   | 20m Gr420 | 4050   |   | 20 @450 TOP ADDL | 38      |
| 950  |    |    |     |           |      |     |      |   |   | 2   | 10m Gr420 | 5050   |   | 10 @450 BOT ADDL | 7       |
| 951  |    |    |     |           |      |     |      |   |   | 17  | 20m Gr420 | 3500   |   | 20 @450 TOP ADDL | 140     |
| 952  |    |    |     |           |      |     |      |   |   | 5   | 15m Gr420 | 3500   |   | 15 @450 TOP ADDL | 27      |
| 953  |    |    |     |           |      |     |      |   |   | 15  | 10m Gr420 | 5500   |   | 10 @450 BOT ADDL | 64      |
| 954  |    |    |     |           |      |     |      |   |   | 4   | 15m Gr420 | 1750   |   | 15 @450 TOP ADDL | 10      |
| 955  |    |    |     |           |      |     |      |   |   | 4   | 15m Gr420 | 6325   |   | 15 @450 BOT ADDL | 39      |
| 956  |    |    |     |           |      |     |      |   |   | 2   | 20m Gr420 | 6000   |   | 20 @450 TOP ADDL | 28      |
| 957  |    |    |     |           |      |     |      |   | 2 | 2   | 20m Gr420 | 6000   |   | 2-15 T&B         | 56      |
| 958  |    |    |     |           |      |     |      |   |   | 4   | 20m Gr420 | 3780   |   | 4 @450 TOP ADDL  | 35      |
| 959  |    |    |     |           |      |     |      |   |   | 4   | 20m Gr420 | 3000   |   | 4 @450 TOP ADDL  | 28      |
| 960  |    |    |     |           |      |     |      |   |   | 10  | 20m Gr420 | 4000   |   | 20 @450 TOP ADDL | 94      |
| 961  |    |    |     |           |      |     |      |   |   | 8   | 15m Gr420 | 3500   |   | 15 @450 TOP ADDL | 43      |
| 962  |    |    |     |           |      |     |      |   |   | 2   | 20m Gr420 | 9000   |   | 2-20 TOP ADDL    | 42      |
| 963  |    |    |     |           |      |     |      |   |   | 9   | 20m Gr420 | 3500   |   | 20 @450 TOP ADDL | 73      |
| 964  |    |    |     |           |      |     |      |   |   | 10  | 20m Gr420 | 3960   |   | 20 @450 TOP ADDL | 93      |
| 965  |    |    |     |           |      |     |      |   |   | 4   | 20m Gr420 | 3000   |   | 20 @450 TOP ADDL | 28      |
| 966  |    |    |     |           |      |     |      |   |   | 2   | 15m Gr420 | 6106   |   | 2-15 T&B ADDL    | 19      |

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|------|----|----|-----|-----------|------|-----|------|---|---|-----|-----------|--------|---|------------------|---------|
| 967  |    |    |     |           |      |     |      |   |   | 2   | 15m Gr420 | 2146   |   | 2-15 T&B ADDL    | 6       |
| 968  |    |    |     |           |      |     |      |   |   | 2   | 20m Gr420 | 6300   |   | 20 @450 TOP ADDL | 29      |
| 969  |    |    |     |           |      |     |      |   |   | 3   | 15m Gr420 | 6070   |   | 15 @450 BOT ADDL | 28      |
| 970  |    |    |     |           |      |     |      |   |   | 7   | 15m Gr420 | 6420   |   | 15 @450 BOT ADDL | 70      |
| 971  |    |    |     |           |      |     |      |   |   | 4   | 20m Gr420 | 2022   |   | 20 @450 TOP ADDL | 19      |
| 972  |    |    |     |           |      |     |      |   |   | 17  | 20m Gr420 | 4050   |   | 20 @450 TOP ADDL | 161     |
| 973  |    |    |     |           |      |     |      |   |   | 5   | 15m Gr420 | 3500   |   | 15 @450 TOP ADDL | 27      |
| 974  |    |    |     |           |      |     |      |   |   | 8   | 20m Gr420 | 3220   |   | 20 @450 TOP ADDL | 60      |
| 975  |    |    |     |           |      |     |      |   |   | 4   | 10m Gr420 | 6090   |   | 10 @450 BOT ADDL | 19      |
| 976  |    |    |     |           |      |     |      |   |   | 4   | 15m Gr420 | 5100   |   | 15 @450 BOT ADDL | 32      |
| 977  |    |    |     |           |      |     |      |   |   | 12  | 20m Gr420 | 4056   |   | 20 @450 TOP ADDL | 114     |
| 978  |    |    |     |           |      |     |      |   |   | 2   | 15m Gr420 | 2500   |   | 2-15 TOP ADDL    | 7       |
| 979  |    |    |     |           |      |     |      |   |   | 16  | 20m Gr420 | 4100   |   | 20 @450 TOP ADDL | 154     |
| 980  |    |    |     |           |      |     |      |   |   | 25  | 10m Gr420 | 5063   |   | 10 @450 BOT ADDL | 99      |
| 981  |    |    |     |           |      |     |      |   |   | 12  | 20m Gr420 | 6800   |   | 20 @450 TOP ADDL | 192     |
| 982  |    |    |     |           |      |     |      |   |   | 5   | 20m Gr420 | 5860   |   | 20 @450 TOP ADDL | 68      |
| 983  |    |    |     |           |      |     |      |   |   | 10  | 20m Gr420 | 7000   |   | 20 @450 TOP ADDL | 164     |
| 984  |    |    |     |           |      |     |      |   |   | 22  | 10m Gr420 | 8000   |   | 10 @450 BOT ADDL | 137     |
| 985  |    |    |     |           |      |     |      |   |   | 6   | 15m Gr420 | 2240   |   | 15 @500 TOP ADDL | 21      |
| 986  |    |    |     |           |      |     |      |   |   | 8   | 15m Gr420 | 2240   |   | 15 #450 TOP ADDL | 28      |
| 987  |    |    |     |           |      |     |      |   |   | 2   | 15m Gr420 | 3000   |   | 2-15 TOP ADDL    | 9       |
| 988  |    |    |     |           |      |     |      |   |   | 34  | 15m Gr420 | 7050   |   | 15 @450 TOP ADDL | 376     |
| 989  |    |    |     |           |      |     |      |   |   | 6   | 15m Gr420 | 6755   |   | 15 @450 BOT ADDL | 63      |

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## \*\* ESTIMATING BAR LIST \*\*

| LINE | LA | EP | A/D | STRUCTURE | MULT | REQ | CODE | + | X | QTY | SZ/GR     | LENGTH | B | COMMENT          | LINE KG |
|------|----|----|-----|-----------|------|-----|------|---|---|-----|-----------|--------|---|------------------|---------|
| 990  |    |    |     |           |      |     |      |   | 2 | 2   | 15m Gr420 | 3478   |   | 2-15 T&B ADDL    | 21      |
| 991  |    |    |     |           |      |     |      |   | 2 | 2   | 15m Gr420 | 6398   |   | 2-15 T&B ADDL    | 40      |
| 992  |    |    |     |           |      |     |      |   | 2 | 2   | 15m Gr420 | 1865   |   | 2-15 T&B ADDL    | 11      |
| 993  |    |    |     |           |      |     |      |   |   | 5   | 15m Gr420 | 1922   |   | 15 @450 TOP ADDL | 14      |
| 994  |    |    |     |           |      |     |      |   |   | 11  | 10m Gr420 | 5210   |   | 10 @450 BOT ADDL | 44      |
| 995  |    |    |     |           |      |     |      |   |   | 38  | 10m Gr420 | 5060   |   | 10 @450 BOT ADDL | 150     |
| 996  |    |    |     |           |      |     |      |   |   | 30  | 25m Gr420 | 8000   |   | 25 @300 TOP ADDL | 941     |
| 997  |    |    |     |           |      |     |      |   |   | 8   | 15m Gr420 | 1935   |   | 15 @450 TOP ADDL | 24      |
| 998  |    |    |     |           |      |     |      |   |   | 4   | 15m Gr420 | 3000   |   | 15 @450 TOP ADDL | 19      |
| 999  |    |    |     |           |      |     |      |   |   | 5   | 10m Gr420 | 6800   |   | 10 @450 BOT ADDL | 26      |
| 1000 |    |    |     |           |      |     |      |   | 2 | 2   | 15m Gr420 | 3600   |   | 2-15 T&B ADDL    | 22      |
| 1001 |    |    |     |           |      | 2   |      |   | 2 | 2   | 15m Gr420 | 12000  |   | 2-15 T&B ADDL    | 150     |
| 1002 |    |    |     |           |      |     |      |   | 2 | 2   | 15m Gr420 | 3255   |   | 2-15 T&B ADDL    | 20      |
| 1003 |    |    |     |           |      |     |      |   |   | 4   | 15m Gr420 | 3000   |   | 15 @450 TOP ADDL | 19      |
| 1004 |    |    |     |           |      |     |      |   |   | 4   | 15m Gr420 | 3000   |   | 15 @450 TOP ADDL | 19      |
| 1005 |    |    |     |           |      |     |      |   |   | 30  | 15m Gr420 | 7000   |   | 15 @450 TOP ADDL | 329     |
| 1006 |    |    |     |           |      |     |      |   |   | 2   | 15m Gr420 | 3300   |   | 2-15 T&B ADDL    | 10      |
| 1007 |    |    |     |           |      |     |      |   |   | 8   | 10m Gr420 | 5060   |   | 10 @450 BOT ADDL | 31      |
| 1008 |    |    |     |           |      |     |      |   |   | 12  | 15m Gr420 | 7575   |   | 15 @450 BOT ADDL | 142     |
| 1009 |    |    |     |           |      |     |      |   |   | 7   | 15m Gr420 | 5000   |   | 15 @450 BOT ADDL | 54      |
| 1010 |    |    |     |           |      |     |      |   |   | 30  | 15m Gr420 | 7000   |   | 15 @450 TOP ADDL | 329     |
| 1011 |    |    |     |           |      |     |      |   |   | 6   | 20m Gr420 | 6860   |   | 6-20 TOP ADDL    | 97      |
| 1012 |    |    |     |           |      |     |      |   | 2 | 2   | 15m Gr420 | 3020   |   | 2-15 T&B ADDL    | 19      |

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## \*\* ESTIMATING BAR LIST \*\*

| LINE | LA | EP | A/D | STRUCTURE | MULT | REQ | CODE | + | X  | QTY | SZ/GR     | LENGTH | B | COMMENT            | LINE KG |
|------|----|----|-----|-----------|------|-----|------|---|----|-----|-----------|--------|---|--------------------|---------|
| 1013 |    |    |     |           |      |     |      |   |    | 4   | 15m Gr420 | 2960   |   | 15 @450 TOP ADDL   | 18      |
| 1014 |    |    |     |           |      |     |      |   | 2  | 2   | 15m Gr420 | 3270   |   | 2-15 T&B ADDL      | 20      |
| 1015 |    |    |     |           |      |     |      |   |    | 5   | 10m Gr420 | 6700   |   | 10 @450 BOT ADDL   | 26      |
| 1016 |    |    |     |           |      |     |      |   |    | 27  | 10m Gr420 | 5160   |   | 10 @450 BOT ADDL   | 109     |
| 1017 |    |    |     |           |      |     |      |   |    | 30  | 15m Gr420 | 1970   |   | 15 @450 TOP ADDL   | 92      |
| 1018 |    |    |     |           |      |     |      |   |    | 2   | 15m Gr420 | 2500   |   | 2-15 TOP ADDL      | 7       |
| 1019 |    |    |     |           |      |     |      |   |    | 2   | 15m Gr420 | 5000   |   | 2-15 TOP ADDL      | 15      |
| 1020 |    |    |     |           |      |     |      |   |    | 2   | 15m Gr420 | 2500   |   | 2-15 TOP ADDL      | 7       |
| 1021 |    |    |     |           |      |     |      |   |    | 4   | 15m Gr420 | 4247   |   | 15 @450 TOP ADDL   | 26      |
| 1022 |    |    |     |           |      |     |      |   |    | 5   | 15m Gr420 | 7045   |   | 15 @450 TOP ADDL   | 55      |
| 1023 |    |    |     |           |      |     |      |   |    | 4   | 20m Gr420 | 5215   |   | 20 @450 TOP ADDL   | 48      |
| 1024 |    |    |     |           |      |     |      |   |    | 6   | 20m Gr420 | 1960   |   | 20 @450 TOP ADDL   | 27      |
| 1025 |    |    |     |           |      |     |      |   |    | 5   | 15m Gr420 | 1920   |   | 15 @450 TOP ADDL   | 14      |
| 1026 |    |    |     |           |      |     |      |   |    | 3   | 15m Gr420 | 1915   |   | 15 @450 TOP ADDL   | 9       |
| 1027 |    |    |     |           |      |     |      |   |    | 3   | 15m Gr420 | 1500   |   | 15 @450 BOT ADDL   | 7       |
| 1028 |    |    |     |           |      |     |      |   |    | 3   | 15m Gr420 | 2500   |   | 15 @450 BOT ADDL   | 11      |
| 1029 |    |    |     |           |      |     |      |   |    | 22  | 10m Gr420 | 7564   |   | 10 @450 BOT ADDL   | 130     |
| 1030 |    |    |     |           |      | 16  |      |   | 2  | 1   | 15m Gr420 | 12000  |   | 1-15 PERI T&B CONT | 602     |
| 1031 |    |    |     |           |      |     |      |   | 17 | 3   | 10m Gr420 | 1295   |   | 3-10 STIRR ADDL    | 51      |
| 1032 |    |    |     |           |      |     |      |   |    |     |           |        |   |                    |         |
| 1033 |    |    |     | >GF BEAM  |      |     |      |   |    |     |           |        |   | GROUND FLOOR BEAM  |         |
| 1034 |    |    |     | MARK-GO1  |      |     |      |   |    |     |           |        |   |                    |         |
| 1035 |    |    |     |           |      |     |      |   | 2  | 14  | 20m Gr420 | 12000  | H | 14-20 TOP          | 791     |

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## \*\* ESTIMATING BAR LIST \*\*

| LINE                                          | LA | EP | A/D | STRUCTURE | MULT | REQ | CODE | + | X | QTY | SZ/GR     | LENGTH | B | COMMENT              | LINE KG |
|-----------------------------------------------|----|----|-----|-----------|------|-----|------|---|---|-----|-----------|--------|---|----------------------|---------|
| 1036                                          |    |    |     |           |      |     |      |   | 2 | 14  | 15m Gr420 | 12000  | H | 14-15 BOT            | 527     |
| 1037                                          |    |    |     |           |      |     |      |   |   | 13  | 15m Gr420 | 3230   | H | 15 @150 STIRR        | 65      |
| 1038                                          |    |    |     |           |      |     |      |   | 3 | 13  | 15m Gr420 | 665    | H | 15 @150 LINKS        | 40      |
| 1039                                          |    |    |     |           |      |     |      |   |   | 33  | 15m Gr420 | 3230   | H | 15 @300 STIRR        | 167     |
| 1040 MARK-GO2                                 |    |    |     |           |      |     |      |   |   |     |           |        |   |                      |         |
| 1041                                          |    |    |     |           |      |     |      |   | 2 | 12  | 20m Gr420 | 12000  | H | 12-20 TOP            | 678     |
| 1042                                          |    |    |     |           |      |     |      |   | 2 | 12  | 15m Gr420 | 12000  | H | 12-15 BOT            | 452     |
| 1043                                          |    |    |     |           |      |     |      |   |   | 20  | 15m Gr420 | 3230   | H | 15 @150 STIRR        | 101     |
| 1044                                          |    |    |     |           |      |     |      |   |   | 13  | 15m Gr420 | 3230   | H | 15 @300 STIRR        | 65      |
| 1045 REF:1,2,5/S401                           |    |    |     |           |      |     |      |   |   |     |           |        |   |                      |         |
| 1046                                          |    |    |     |           |      |     |      |   | 6 | 4   | 20m Gr420 | 12000  | H | 4-20 TOP             | 678     |
| 1047                                          |    |    |     |           |      | 6   |      |   | 2 | 4   | 15m Gr420 | 12000  |   | 15 @200 MID EF       | 904     |
| 1048                                          |    |    |     |           |      |     |      |   | 6 | 4   | 25m Gr420 | 12000  | H | 4-25 BOT             | 1130    |
| 1049                                          |    |    |     |           |      |     |      |   |   | 225 | 10m Gr420 | 3280   | L | 10 @300 STIRR        | 578     |
| 1050                                          |    |    |     |           |      |     |      |   |   |     |           |        |   |                      |         |
| 1051 >GF CONC WALL GROUND FLOOR CONCRETE WALL |    |    |     |           |      |     |      |   |   |     |           |        |   |                      |         |
| 1052 MARK-W1 REF:S220                         |    |    |     |           |      |     |      |   |   |     |           |        |   |                      |         |
| 1053                                          |    |    |     |           |      | 3   |      |   | 2 | 6   | 15m Gr420 | 4450   |   | 2x6-15 @150 COR VERT | 251     |
| 1054                                          |    |    |     |           |      |     |      |   | 6 | 13  | 10m Gr420 | 2205   | L | 10 @300 TIES         | 134     |
| 1055                                          |    |    |     |           |      |     |      |   | 8 | 13  | 10m Gr420 | 1000   | L | 10 @300 TIES         | 81      |
| 1056                                          |    |    |     |           |      |     |      |   | 6 | 13  | 10m Gr420 | 2870   | L | 10 @300 TIES         | 175     |
| 1057                                          |    |    |     |           |      | 6   |      |   | 2 | 13  | 10m Gr420 | 1000   | L | 10 @300 TIES         | 122     |
| 1058                                          |    |    |     |           |      | 1   |      |   | 2 | 6   | 20m Gr420 | 4450   |   | 2x6-20 @150 COR VERT | 125     |

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## \*\* ESTIMATING BAR LIST \*\*

| LINE | LA | EP | A/D | STRUCTURE | MULT | REQ | CODE | + | X | QTY | SZ/GR     | LENGTH | B | COMMENT              | LINE KG |
|------|----|----|-----|-----------|------|-----|------|---|---|-----|-----------|--------|---|----------------------|---------|
| 1059 |    |    |     |           |      | 2   |      |   | 2 | 6   | 25m Gr420 | 4450   |   | 2x6-25 @150 COR VERT | 419     |
| 1060 |    |    |     |           |      | 3   |      |   | 2 | 8   | 20m Gr420 | 4450   |   | 2x8-20 @150 COR VERT | 503     |
| 1061 |    |    |     |           |      | 2   |      |   | 2 | 8   | 25m Gr420 | 4450   |   | 2x8-25 @150 COR VERT | 558     |
| 1062 |    |    |     |           |      |     |      |   | 2 | 4   | 15m Gr420 | 4450   |   | 2x4-15 @150 COR VERT | 55      |
| 1063 |    |    |     |           |      | 2   |      |   | 2 | 2   | 20m Gr420 | 4450   |   | 2x2-20 @150 COR VERT | 83      |
| 1064 |    |    |     |           |      |     |      |   | 2 | 40  | 15m Gr420 | 4450   |   | 15 @350 VERT EF      | 558     |
| 1065 |    |    |     |           |      | 3   |      |   | 2 | 12  | 15m Gr420 | 12192  |   | 15 @300 HOR EF       | 1378    |
| 1066 |    |    |     |           |      | 8   |      |   | 2 | 12  | 15m Gr420 | 920    | H | 15 @300 HOR COR      | 277     |
| 1067 |    |    |     |           |      |     |      |   |   | 2   | 25m Gr420 | 5745   |   | 2-25 TOP ADDL        | 44      |
| 1068 |    |    |     |           |      |     |      |   |   | 2   | 25m Gr420 | 5745   |   | 2-25 BOT ADDL        | 44      |
| 1069 |    |    |     |           |      |     |      |   | 2 | 18  | 15m Gr420 | 1100   |   | 15 @200 VERT EF      | 62      |
| 1070 |    |    |     |           |      |     |      |   | 2 | 6   | 15m Gr420 | 5545   |   | 15 @200 HOR EF       | 104     |
| 1071 |    |    |     |           |      |     |      |   | 2 | 170 | 15m Gr420 | 1390   | H | 15 @200 DWL EF       | 742     |
| 1072 |    |    |     |           |      |     |      |   |   |     |           |        |   |                      |         |
| 1073 |    |    |     |           |      |     |      |   |   |     |           |        |   |                      |         |
| 1074 |    |    |     |           |      |     |      |   | 2 | 46  | 15m Gr420 | 4450   |   | 15 @350 VERT EF      | 642     |
| 1075 |    |    |     |           |      |     |      |   | 3 | 28  | 20m Gr420 | 4450   |   | 28-20 @150 COR VERT  | 879     |
| 1076 |    |    |     |           |      | 3   |      |   | 2 | 13  | 10m Gr420 | 2880   | L | 10 @300 TIES         | 175     |
| 1077 |    |    |     |           | 3    | 2   |      |   | 2 | 13  | 10m Gr420 | 1000   | L | 10 @300 TIES         | 122     |
| 1078 |    |    |     |           |      | 2   |      |   | 2 | 8   | 20m Gr420 | 4450   |   | 2x8-20 @150 COR VERT | 335     |
| 1079 |    |    |     |           |      |     |      |   | 2 | 13  | 10m Gr420 | 2880   | L | 10 @300 TIES         | 58      |
| 1080 |    |    |     |           |      | 2   |      |   | 2 | 13  | 10m Gr420 | 1000   | L | 10 @300 TIES         | 40      |
| 1081 |    |    |     |           |      | 2   |      |   | 2 | 13  | 15m Gr420 | 12192  |   | 15 @300 HOR EF       | 995     |

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## \*\* ESTIMATING BAR LIST \*\*

| LINE         | LA | EP | A/D | STRUCTURE | MULT | REQ | CODE | + | X  | QTY | SZ/GR     | LENGTH | B | COMMENT         | LINE KG |
|--------------|----|----|-----|-----------|------|-----|------|---|----|-----|-----------|--------|---|-----------------|---------|
| 1082         |    |    |     |           |      | 4   |      |   | 2  | 13  | 15m Gr420 | 920    | H | 15 @300 HOR COR | 150     |
| 1083         |    |    |     |           |      |     |      |   | 2  | 80  | 15m Gr420 | 1390   | H | 15 @200 DWL EF  | 349     |
| 1084         |    |    |     |           |      |     |      |   |    |     |           |        |   |                 |         |
| 1085 MARK-W2 |    |    |     |           |      |     |      |   |    |     |           |        |   |                 |         |
| 1086         |    |    |     |           |      |     |      |   | 2  | 17  | 15m Gr420 | 4450   |   | 15 @350 VERT EF | 237     |
| 1087         |    |    |     |           |      | 3   |      |   | 2  | 3   | 15m Gr420 | 4450   |   | 2x3-15 END VERT | 125     |
| 1088         |    |    |     |           |      |     |      |   | 2  | 13  | 15m Gr420 | 6675   |   | 15 @300 HOR EF  | 272     |
| 1089         |    |    |     |           |      |     |      |   | 6  | 15  | 10m Gr420 | 1140   | L | 10 @250 TIES    | 80      |
| 1090         |    |    |     |           |      |     |      |   | 2  | 30  | 15m Gr420 | 1390   | H | 15 @200 DWL EF  | 131     |
| 1091         |    |    |     |           |      |     |      |   |    |     |           |        |   |                 |         |
| 1092 MARK-W3 |    |    |     |           |      |     |      |   |    |     |           |        |   |                 |         |
| 1093         |    |    |     |           |      |     |      |   | 2  | 250 | 15m Gr420 | 4450   |   | 15 @350 VERT EF | 3493    |
| 1094         |    |    |     |           |      | 47  |      |   | 2  | 4   | 15m Gr420 | 4450   |   | 2x4-15 END VERT | 2626    |
| 1095         |    |    |     |           |      | 10  |      |   | 2  | 13  | 15m Gr420 | 12192  |   | 15 @300 HOR EF  | 4976    |
| 1096         |    |    |     |           |      |     |      |   | 2  | 13  | 15m Gr420 | 920    | H | 15 @300 HOR COR | 37      |
| 1097         |    |    |     |           |      |     |      |   | 47 | 15  | 10m Gr420 | 1400   | L | 10 @250 TIES    | 774     |
| 1098         |    |    |     |           |      |     |      |   | 2  | 432 | 15m Gr420 | 1390   | M | 15 @200 DWL EF  | 1885    |
| 1099         |    |    |     |           |      |     |      |   |    |     |           |        |   |                 |         |
| 1100 MARK-W4 |    |    |     |           |      |     |      |   |    |     |           |        |   |                 |         |
| 1101         |    |    |     |           |      |     |      |   | 2  | 67  | 15m Gr420 | 4450   |   | 15 @350 VERT EF | 936     |
| 1102         |    |    |     |           |      | 8   |      |   | 2  | 6   | 15m Gr420 | 4450   |   | 2x6-15 END VERT | 670     |
| 1103         |    |    |     |           |      | 3   |      |   | 2  | 13  | 15m Gr420 | 12192  |   | 15 @300 HOR EF  | 1493    |
| 1104         |    |    |     |           |      |     |      |   | 8  | 15  | 10m Gr420 | 1700   | L | 10 @250 TIES    | 160     |

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## \*\* ESTIMATING BAR LIST \*\*

| LINE                | LA | EP | A/D | STRUCTURE     | MULT | REQ | CODE | + | X | QTY | SZ/GR             | LENGTH | B | COMMENT          | LINE KG |
|---------------------|----|----|-----|---------------|------|-----|------|---|---|-----|-------------------|--------|---|------------------|---------|
| 1105                |    |    |     |               |      |     |      |   | 2 | 118 | 15m Gr420         | 1390   | H | 15 @200 DWL EF   | 514     |
| 1106                |    |    |     |               |      |     |      |   |   |     |                   |        |   |                  |         |
| 1107 MARK-W5        |    |    |     |               |      |     |      |   |   |     |                   |        |   |                  |         |
| 1108                |    |    |     |               |      |     |      |   | 2 | 32  | 15m Gr420         | 4450   |   | 15 @350 VERT EF  | 447     |
| 1109                |    |    |     |               |      | 4   |      |   | 2 | 8   | 15m Gr420         | 4450   |   | 2x8-15 END VERT  | 447     |
| 1110                |    |    |     |               |      |     |      |   | 2 | 13  | 15m Gr420         | 12192  |   | 15 @300 HOR EF   | 497     |
| 1111                |    |    |     |               |      |     |      |   | 4 | 15  | 10m Gr420         | 2000   | L | 10 @250 TIES     | 93      |
| 1112                |    |    |     |               |      |     |      |   | 2 | 26  | 15m Gr420         | 1390   | H | 15 @200 DWL EF   | 113     |
| 1113                |    |    |     |               |      |     |      |   |   |     |                   |        |   |                  |         |
| 1114 MARK-W7        |    |    |     |               |      |     |      |   |   |     |                   |        |   |                  |         |
| 1115                |    |    |     |               |      |     |      |   | 2 | 30  | 15m Gr420         | 4450   |   | 15 @350 VERT EF  | 419     |
| 1116                |    |    |     |               |      | 2   |      |   | 2 | 8   | 25m Gr420         | 4450   |   | 2x8-25 END VERT  | 558     |
| 1117                |    |    |     |               |      |     |      |   | 2 | 13  | 15m Gr420         | 9750   |   | 15 @300 HOR EF   | 397     |
| 1118                |    |    |     |               |      |     |      |   | 2 | 15  | 10m Gr420         | 2000   | L | 10 @250 TIES     | 47      |
| 1119                |    |    |     |               |      |     |      |   | 2 | 48  | 15m Gr420         | 1390   | H | 15 @200 DWL EF   | 209     |
| 1120                |    |    |     |               |      |     |      |   |   |     |                   |        |   |                  |         |
| 1121 REF:SEC-3/S401 |    |    |     |               |      |     |      |   |   |     |                   |        |   |                  |         |
| 1122                |    |    |     |               |      |     |      |   | 2 | 3   | 25m Gr420         | 12000  |   | 3-25 TOP         | 282     |
| 1123                |    |    |     |               |      |     |      |   | 2 | 3   | 25m Gr420         | 12000  |   | 3-25 BOT         | 282     |
| 1124                |    |    |     |               |      | 2   |      |   | 2 | 8   | 15m Gr420         | 12000  |   | 8-15 @200 MID EF | 602     |
| 1125                |    |    |     |               |      |     |      |   |   | 72  | 15m Gr420         | 4315   | H | 15 @300 STIRR    | 487     |
| 1126                |    |    |     |               |      |     |      |   |   |     |                   |        |   |                  |         |
| 1127                |    |    |     | >2ND FLR SLAB |      |     |      |   |   |     | SECOND FLOOR SLAB |        |   |                  |         |

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## \*\* ESTIMATING BAR LIST \*\*

| LINE | LA | EP | A/D | STRUCTURE | MULT | REQ | CODE | + | X  | QTY  | SZ/GR     | LENGTH | B | COMMENT           | LINE KG |
|------|----|----|-----|-----------|------|-----|------|---|----|------|-----------|--------|---|-------------------|---------|
| 1128 |    |    |     |           |      |     |      |   | 2  | 685  | 15m Gr420 | 12192  |   | 15@450 T&B EW     | 26224   |
| 1129 |    |    |     |           |      |     |      |   |    | 1130 | 15m Gr420 | 1625   | L | 15 STANDEE        | 2883    |
| 1130 |    |    |     |           |      |     |      |   |    | 27   | 15m Gr420 | 7000   |   | 27 15@450 T ADDL  | 296     |
| 1131 |    |    |     |           |      |     |      |   |    | 27   | 15m Gr420 | 1750   | L | 15@450 T ADDL     | 74      |
| 1132 |    |    |     |           |      |     |      |   | 2  | 2    | 15m Gr420 | 6335   |   | 2 15@300 T&B ADDL | 39      |
| 1133 |    |    |     |           |      |     |      |   | 10 | 2    | 15m Gr420 | 3270   |   | 2 15@300 T&B ADDL | 102     |
| 1134 |    |    |     |           |      |     |      |   |    | 6    | 10m Gr420 | 6700   |   | 10@450 B ADDL     | 31      |
| 1135 |    |    |     |           |      |     |      |   |    | 23   | 10m Gr420 | 6500   |   | 10@450 B ADDL     | 117     |
| 1136 |    |    |     |           |      |     |      |   |    | 27   | 10m Gr420 | 5900   |   | 10@450 B ADDL     | 124     |
| 1137 |    |    |     |           |      |     |      |   | 12 | 2    | 15m Gr420 | 2500   |   | 2 15 T ADDL       | 94      |
| 1138 |    |    |     |           |      |     |      |   | 2  | 1    | 15m Gr420 | 2500   |   | 1 15 MT ADDL      | 7       |
| 1139 |    |    |     |           |      |     |      |   |    | 1    | 15m Gr420 | 5000   |   | 1 15 MB ADDL      | 7       |
| 1140 |    |    |     |           |      |     |      |   |    | 14   | 10m Gr420 | 5000   |   | 10@450 B ADDL     | 54      |
| 1141 |    |    |     |           |      |     |      |   |    | 31   | 20m Gr420 | 3500   |   | 31 20@450 T ADDL  | 255     |
| 1142 |    |    |     |           |      |     |      |   |    | 8    | 10m Gr420 | 7500   |   | 10@450 B ADDL     | 47      |
| 1143 |    |    |     |           |      |     |      |   |    | 5    | 15m Gr420 | 2750   |   | 5 15@450 T ADDL   | 21      |
| 1144 |    |    |     |           |      |     |      |   |    | 7    | 15m Gr420 | 13500  |   | 10@450 B ADDL     | 148     |
| 1145 |    |    |     |           |      |     |      |   | 2  | 7    | 15m Gr420 | 1700   | L | 15@450 T ADDL     | 37      |
| 1146 |    |    |     |           |      |     |      |   |    | 2    | 15m Gr420 | 13000  |   | 2 15@300 T&B ADDL | 40      |
| 1147 |    |    |     |           |      |     |      |   |    | 2    | 15m Gr420 | 5000   | L | 2 15@450 T ADDL   | 15      |
| 1148 |    |    |     |           |      |     |      |   | 2  | 6    | 20m Gr420 | 7000   |   | 6 20@450 T ADDL   | 197     |
| 1149 |    |    |     |           |      |     |      |   |    | 7    | 20m Gr420 | 4500   |   | 7 20@450 T ADDL   | 73      |
| 1150 |    |    |     |           |      |     |      |   |    | 20   | 10m Gr420 | 4500   |   | 10@450 B ADDL     | 70      |

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## \*\* ESTIMATING BAR LIST \*\*

| LINE | LA | EP | A/D | STRUCTURE | MULT | REQ | CODE | + | X | QTY | SZ/GR     | LENGTH | B | COMMENT           | LINE KG |
|------|----|----|-----|-----------|------|-----|------|---|---|-----|-----------|--------|---|-------------------|---------|
| 1151 |    |    |     |           |      |     |      |   |   | 6   | 15m Gr420 | 2600   |   | 6 15@600 MT ADDL  | 24      |
| 1152 |    |    |     |           |      |     |      |   |   | 2   | 15m Gr420 | 2000   |   | 2 15@300 T&B ADDL | 6       |
| 1153 |    |    |     |           |      |     |      |   |   | 7   | 15m Gr420 | 6700   |   | 15@450 B ADDL     | 73      |
| 1154 |    |    |     |           |      |     |      |   |   | 2   | 15m Gr420 | 3400   |   | 2 15@300 T&B ADDL | 10      |
| 1155 |    |    |     |           |      |     |      |   |   | 8   | 10m Gr420 | 7500   |   | 10@450 B ADDL     | 47      |
| 1156 |    |    |     |           |      |     |      |   |   | 5   | 20m Gr420 | 10000  |   | 5 20@450 T ADDL   | 117     |
| 1157 |    |    |     |           |      |     |      |   |   | 14  | 10m Gr420 | 5000   |   | 10@450 B ADDL     | 54      |
| 1158 |    |    |     |           |      |     |      |   |   | 9   | 20m Gr420 | 4000   |   | 9 20@450 T ADDL   | 84      |
| 1159 |    |    |     |           |      |     |      |   |   | 2   | 15m Gr420 | 3500   |   | 2 15@450 T ADDL   | 10      |
| 1160 |    |    |     |           |      |     |      |   |   | 8   | 20m Gr420 | 3500   |   | 8 20@450 T ADDL   | 65      |
| 1161 |    |    |     |           |      |     |      |   |   | 23  | 10m Gr420 | 8000   |   | 10@450 B ADDL     | 144     |
| 1162 |    |    |     |           |      |     |      |   |   | 4   | 10m Gr420 | 5000   |   | 10@450 B ADDL     | 15      |
| 1163 |    |    |     |           |      |     |      |   |   | 4   | 10m Gr420 | 6000   |   | 10@450 B ADDL     | 18      |
| 1164 |    |    |     |           |      |     |      |   |   | 8   | 20m Gr420 | 3000   | L | 8 20@450 T ADDL   | 56      |
| 1165 |    |    |     |           |      |     |      |   |   | 17  | 20m Gr420 | 3500   |   | 17 20@450 T ADDL  | 140     |
| 1166 |    |    |     |           |      |     |      |   |   | 15  | 10m Gr420 | 5500   |   | 10@450 B ADDL     | 64      |
| 1167 |    |    |     |           |      |     |      |   |   | 2   | 20m Gr420 | 6000   |   | 2 20@450 T ADDL   | 28      |
| 1168 |    |    |     |           |      |     |      |   |   | 4   | 15m Gr420 | 1750   | L | 4 15@450 T ADDL   | 10      |
| 1169 |    |    |     |           |      |     |      |   |   | 5   | 15m Gr420 | 6330   |   | 15@450 B ADDL     | 49      |
| 1170 |    |    |     |           |      |     |      |   | 2 | 2   | 15m Gr420 | 6000   |   | 2 15@450 T&B ADDL | 37      |
| 1171 |    |    |     |           |      |     |      |   |   | 4   | 15m Gr420 | 6050   |   | 15@450 B ADDL     | 38      |
| 1172 |    |    |     |           |      |     |      |   |   | 2   | 20m Gr420 | 3700   |   | 2 20@450 T ADDL   | 17      |
| 1173 |    |    |     |           |      |     |      |   |   | 4   | 20m Gr420 | 3000   |   | 4 20@450 T ADDL   | 28      |

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## \*\* ESTIMATING BAR LIST \*\*

| LINE | LA | EP | A/D | STRUCTURE | MULT | REQ | CODE | + | X | QTY | SZ/GR     | LENGTH | B | COMMENT           | LINE KG |
|------|----|----|-----|-----------|------|-----|------|---|---|-----|-----------|--------|---|-------------------|---------|
| 1174 |    |    |     |           |      |     |      |   |   | 10  | 20m Gr420 | 3500   |   | 10 20@450 T ADDL  | 82      |
| 1175 |    |    |     |           |      |     |      |   |   | 5   | 15m Gr420 | 3500   |   | 5 15@450 T ADDL   | 27      |
| 1176 |    |    |     |           |      |     |      |   |   | 8   | 15m Gr420 | 3500   |   | 8 15@450 T ADDL   | 43      |
| 1177 |    |    |     |           |      |     |      |   | 2 | 2   | 20m Gr420 | 9000   |   | 2 20 ADDL         | 84      |
| 1178 |    |    |     |           |      |     |      |   |   | 9   | 20m Gr420 | 3500   |   | 9 20@450 T ADDL   | 73      |
| 1179 |    |    |     |           |      |     |      |   | 2 | 9   | 15m Gr420 | 1750   | L | 15@450 T ADDL     | 49      |
| 1180 |    |    |     |           |      |     |      |   |   | 6   | 15m Gr420 | 2000   | L | 6 15@500 MT ADDL  | 19      |
| 1181 |    |    |     |           |      |     |      |   |   | 10  | 20m Gr420 | 7000   |   | 10 20 ADDL        | 164     |
| 1182 |    |    |     |           |      |     |      |   |   | 16  | 15m Gr420 | 5000   |   | 15@450 B ADDL     | 125     |
| 1183 |    |    |     |           |      |     |      |   |   | 20  | 15m Gr420 | 4500   |   | 20 15@450 MT ADDL | 141     |
| 1184 |    |    |     |           |      |     |      |   |   | 35  | 15m Gr420 | 7000   |   | 15@450 T ADDL     | 384     |
| 1185 |    |    |     |           |      |     |      |   | 2 | 2   | 15m Gr420 | 3000   |   | 2 15 T ADDL       | 19      |
| 1186 |    |    |     |           |      |     |      |   |   | 16  | 20m Gr420 | 3500   |   | 16 20@450 T ADDL  | 131     |
| 1187 |    |    |     |           |      |     |      |   |   | 26  | 10m Gr420 | 5000   |   | 10@450 B ADDL     | 102     |
| 1188 |    |    |     |           |      |     |      |   |   | 5   | 15m Gr420 | 3500   |   | 5 15@450 MT ADDL  | 27      |
| 1189 |    |    |     |           |      |     |      |   |   | 17  | 20m Gr420 | 3500   |   | 17 20@450 T ADDL  | 140     |
| 1190 |    |    |     |           |      |     |      |   |   | 8   | 20m Gr420 | 3000   | L | 8 20@450 T ADDL   | 56      |
| 1191 |    |    |     |           |      |     |      |   |   | 4   | 10m Gr420 | 6000   |   | 10@450 B ADDL     | 18      |
| 1192 |    |    |     |           |      |     |      |   |   | 4   | 15m Gr420 | 5000   |   | 15@450 B ADDL     | 31      |
| 1193 |    |    |     |           |      |     |      |   |   | 16  | 10m Gr420 | 5500   |   | 10@450 B ADDL     | 68      |
| 1194 |    |    |     |           |      |     |      |   |   | 2   | 20m Gr420 | 6000   |   | 2 20@450 T ADDL   | 28      |
| 1195 |    |    |     |           |      |     |      |   |   | 4   | 15m Gr420 | 1750   | L | 4 15@450 T ADDL   | 10      |
| 1196 |    |    |     |           |      |     |      |   |   | 8   | 15m Gr420 | 6400   |   | 15@450 B ADDL     | 80      |

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## \*\* ESTIMATING BAR LIST \*\*

| LINE | LA | EP | A/D | STRUCTURE | MULT | REQ | CODE | + | X  | QTY | SZ/GR     | LENGTH | B | COMMENT           | LINE KG |
|------|----|----|-----|-----------|------|-----|------|---|----|-----|-----------|--------|---|-------------------|---------|
| 1197 |    |    |     |           |      |     |      |   |    | 4   | 15m Gr420 | 6000   |   | 15@450 B ADDL     | 37      |
| 1198 |    |    |     |           |      |     |      |   | 2  | 2   | 15m Gr420 | 6070   |   | 15@300 T&B ADDL   | 38      |
| 1199 |    |    |     |           |      |     |      |   |    | 10  | 20m Gr420 | 3500   |   | 10 20@450 T ADDL  | 82      |
| 1200 |    |    |     |           |      |     |      |   |    | 4   | 20m Gr420 | 3000   |   | 4 20@450 T ADDL   | 28      |
| 1201 |    |    |     |           |      |     |      |   |    | 2   | 20m Gr420 | 2170   |   | 4 20@450 T ADDL   | 10      |
| 1202 |    |    |     |           |      |     |      |   | 2  | 2   | 15m Gr420 | 3260   |   | 2 15@450 T&B ADDL | 20      |
| 1203 |    |    |     |           |      |     |      |   |    | 9   | 15m Gr420 | 1700   | L | 15@450 T ADDL     | 24      |
| 1204 |    |    |     |           |      |     |      |   | 2  | 6   | 10m Gr420 | 6700   |   | 10@450 B ADDL     | 63      |
| 1205 |    |    |     |           |      |     |      |   | 10 | 2   | 15m Gr420 | 3300   |   | 2 15@300 T&B ADDL | 103     |
| 1206 |    |    |     |           |      |     |      |   | 2  | 2   | 15m Gr420 | 27950  |   | 2 15@300 T&B ADDL | 175     |
| 1207 |    |    |     |           |      |     |      |   | 2  | 30  | 15m Gr420 | 7000   |   | 30 15@450 T ADDL  | 659     |
| 1208 |    |    |     |           |      |     |      |   |    | 9   | 10m Gr420 | 5000   |   | 10@450 B ADDL     | 35      |
| 1209 |    |    |     |           |      |     |      |   |    | 39  | 10m Gr420 | 5000   |   | 10@450 B ADDL     | 152     |
| 1210 |    |    |     |           |      |     |      |   | 2  | 2   | 15m Gr420 | 5000   |   | 2 15 T ADDL       | 31      |
| 1211 |    |    |     |           |      |     |      |   |    | 33  | 15m Gr420 | 5100   |   | 10@450 B ADDL     | 264     |
| 1212 |    |    |     |           |      |     |      |   |    | 29  | 15m Gr420 | 1750   | L | 15@450 T ADDL     | 79      |
| 1213 |    |    |     |           |      |     |      |   |    | 13  | 15m Gr420 | 7500   |   | 15@450 B ADDL     | 152     |
| 1214 |    |    |     |           |      |     |      |   |    | 8   | 15m Gr420 | 5000   |   | 15@450 B ADDL     | 62      |
| 1215 |    |    |     |           |      |     |      |   | 4  | 2   | 15m Gr420 | 4500   |   | 2 15@300 T&B ADDL | 56      |
| 1216 |    |    |     |           |      |     |      |   | 2  | 2   | 15m Gr420 | 6550   |   | 2 15@300 T&B ADDL | 41      |
| 1217 |    |    |     |           |      |     |      |   |    | 2   | 15m Gr420 | 2500   |   | 2 15 MT ADDL      | 7       |
| 1218 |    |    |     |           |      |     |      |   |    | 30  | 15m Gr420 | 4000   |   | 30 15@450 T ADDL  | 188     |
| 1219 |    |    |     |           |      |     |      |   |    | 26  | 10m Gr420 | 10330  |   | 10@450 B ADDL     | 210     |

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**\*\* ESTIMATING BAR LIST \*\***

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Bid Date 04/08/16

## \*\* ESTIMATING BAR LIST \*\*

| LINE                        | LA | EP | A/D | STRUCTURE     | MULT | REQ               | CODE | + | X | QTY | SZ/GR     | LENGTH | B | COMMENT         | LINE KG |
|-----------------------------|----|----|-----|---------------|------|-------------------|------|---|---|-----|-----------|--------|---|-----------------|---------|
| 1243                        |    |    |     |               |      |                   |      |   | 2 | 14  | 20m Gr420 | 4210   | H | 14 20 VERT      | 277     |
| 1244                        |    |    |     |               |      |                   |      |   | 2 | 14  | 10m Gr420 | 2580   | L | 10 @250 TIES    | 56      |
| 1245                        |    |    |     |               |      |                   |      |   | 2 | 14  | 10m Gr420 | 1100   | L | 10 @250 TIES    | 24      |
| 1246 COLUMN MARK C8 (2 LOC) |    |    |     |               |      |                   |      |   |   |     |           |        |   |                 |         |
| 1247                        |    |    |     |               |      |                   |      |   | 2 | 14  | 20m Gr420 | 4210   | H | 14 20 VERT      | 277     |
| 1248                        |    |    |     |               |      |                   |      |   | 2 | 14  | 10m Gr420 | 2900   | L | 10 @250 TIES    | 63      |
| 1249                        |    |    |     |               |      | 2                 |      |   | 2 | 14  | 10m Gr420 | 720    | L | 10 @250 TIES    | 31      |
| 1250                        |    |    |     |               |      |                   |      |   | 2 | 14  | 10m Gr420 | 300    | L | 10 @250 LINKS   | 6       |
| 1251 COLUMN MARK C9 (4 LOC) |    |    |     |               |      |                   |      |   |   |     |           |        |   |                 |         |
| 1252                        |    |    |     |               |      |                   |      |   | 4 | 14  | 20m Gr420 | 4210   | H | 14 20 VERT      | 555     |
| 1253                        |    |    |     |               |      |                   |      |   | 4 | 14  | 10m Gr420 | 3000   | L | 10 @250 TIES    | 131     |
| 1254                        |    |    |     |               |      | 2                 |      |   | 4 | 14  | 10m Gr420 | 720    | L | 10 @250 TIES    | 63      |
| 1255                        |    |    |     |               |      |                   |      |   | 4 | 14  | 10m Gr420 | 300    | L | 10 @250 LINKS   | 13      |
| 1256                        |    |    |     |               |      |                   |      |   |   |     |           |        |   |                 |         |
| 1257                        |    |    |     | >2ND FLR WALL |      | SECOND FLOOR WALL |      |   |   |     |           |        |   |                 |         |
| 1258 WALL W1 (2930 mm)      |    |    |     |               |      |                   |      |   |   |     |           |        |   |                 |         |
| 1259                        |    |    |     |               |      |                   |      |   | 2 | 10  | 15m Gr420 | 4210   |   | 15 @350 VERT EF | 131     |
| 1260                        |    |    |     |               |      |                   |      |   | 2 | 12  | 15m Gr420 | 3430   |   | 15 @300 HOR EF  | 129     |
| 1261                        |    |    |     |               |      |                   |      |   | 2 | 4   | 15m Gr420 | 4210   |   | 4 15 ADDL VERT  | 53      |
| 1262                        |    |    |     |               |      |                   |      |   | 2 | 14  | 10m Gr420 | 700    | L | 10 @250 TIES    | 15      |
| 1263                        |    |    |     |               |      |                   |      |   | 2 | 16  | 15m Gr420 | 1390   | H | 15 @200 DWL EF  | 69      |
| 1264 ELEVATOR SHAFT WALL W1 |    |    |     |               |      |                   |      |   |   |     |           |        |   |                 |         |
| 1265                        |    |    |     |               |      |                   |      |   | 2 | 94  | 15m Gr420 | 4210   |   | 15 @350 VERT EF | 1242    |

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## \*\* ESTIMATING BAR LIST \*\*

| LINE | LA | EP | A/D | STRUCTURE | MULT | REQ | CODE | + | X | QTY | SZ/GR     | LENGTH | B | COMMENT             | LINE KG |
|------|----|----|-----|-----------|------|-----|------|---|---|-----|-----------|--------|---|---------------------|---------|
| 1266 |    |    |     |           |      |     |      |   | 2 | 12  | 15m Gr420 | 5730   |   | 15 @300 HOR EF      | 215     |
| 1267 |    |    |     |           |      |     |      |   | 2 | 12  | 15m Gr420 | 4680   |   | 15 @300 HOR EF      | 176     |
| 1268 |    |    |     |           |      |     |      |   | 2 | 12  | 15m Gr420 | 2580   |   | 15 @300 HOR EF      | 97      |
| 1269 |    |    |     |           |      |     |      |   | 2 | 12  | 15m Gr420 | 8400   |   | 15 @300 HOR EF      | 316     |
| 1270 |    |    |     |           |      | 2   |      |   | 2 | 12  | 15m Gr420 | 2900   |   | 15 @300 HOR EF      | 218     |
| 1271 |    |    |     |           |      |     |      |   | 2 | 12  | 15m Gr420 | 5100   |   | 15 @300 HOR EF      | 192     |
| 1272 |    |    |     |           |      | 8   |      |   | 2 | 12  | 15m Gr420 | 2000   | H | 15 @300 COR EF      | 602     |
| 1273 |    |    |     |           |      |     |      |   | 2 | 163 | 15m Gr420 | 1390   | H | 15 @200 DWL EF      | 711     |
| 1274 |    |    |     |           |      |     |      |   | 3 | 12  | 15m Gr420 | 4210   |   | 12 15@150 ADDL VERT | 238     |
| 1275 |    |    |     |           |      |     |      |   | 3 | 12  | 10m Gr420 | 2225   | L | 10 @300 TIES        | 62      |
| 1276 |    |    |     |           |      |     |      |   | 3 | 12  | 10m Gr420 | 900    | L | 10 @300 TIES        | 25      |
| 1277 |    |    |     |           |      |     |      |   | 2 | 4   | 20m Gr420 | 4210   |   | 4 20@150 ADDL VERT  | 79      |
| 1278 |    |    |     |           |      |     |      |   | 2 | 12  | 10m Gr420 | 1050   | L | 10 @300 TIES        | 19      |
| 1279 |    |    |     |           |      |     |      |   | 4 | 16  | 20m Gr420 | 4210   |   | 16 20@150 ADDL VERT | 634     |
| 1280 |    |    |     |           |      |     |      |   | 4 | 12  | 10m Gr420 | 2850   | L | 10 @300 TIES        | 107     |
| 1281 |    |    |     |           |      | 2   |      |   | 4 | 12  | 10m Gr420 | 900    | L | 10 @300 TIES        | 67      |
| 1282 |    |    |     |           |      |     |      |   |   | 16  | 25m Gr420 | 4210   |   | 16 25@150 ADDL VERT | 264     |
| 1283 |    |    |     |           |      |     |      |   |   | 12  | 10m Gr420 | 2850   | L | 10 @300 TIES        | 26      |
| 1284 |    |    |     |           |      |     |      |   | 2 | 12  | 10m Gr420 | 900    | L | 10 @300 TIES        | 16      |
| 1285 |    |    |     |           |      |     |      |   |   | 8   | 15m Gr420 | 4210   |   | 12 15@150 ADDL VERT | 53      |
| 1286 |    |    |     |           |      |     |      |   |   | 12  | 10m Gr420 | 2200   | L | 10 @300 TIES        | 20      |
| 1287 |    |    |     |           |      |     |      |   |   | 12  | 10m Gr420 | 900    | L | 10 @300 TIES        | 8       |
| 1288 |    |    |     |           |      |     |      |   |   | 12  | 15m Gr420 | 4210   |   | 12 15@150 ADDL VERT | 79      |

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** ESTIMATING BAR LIST **
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| LINE                    | LA | EP | A/D | STRUCTURE | MULT | REQ | CODE | + | X | QTY | SZ/GR     | LENGTH | B | COMMENT             | LINE KG |
|-------------------------|----|----|-----|-----------|------|-----|------|---|---|-----|-----------|--------|---|---------------------|---------|
| 1289                    |    |    |     |           |      |     |      |   |   | 12  | 10m Gr420 | 2000   | L | 10 @300 TIES        | 18      |
| 1290                    |    |    |     |           |      |     |      |   |   | 12  | 10m Gr420 | 900    | L | 10 @300 TIES        | 8       |
| 1291                    |    |    |     |           |      |     |      |   |   | 24  | 25m Gr420 | 4210   |   | 24 25@150 ADDL VERT | 396     |
| 1292                    |    |    |     |           |      |     |      |   |   | 12  | 10m Gr420 | 2750   | L | 10 @300 TIES        | 25      |
| 1293                    |    |    |     |           |      |     |      |   |   | 12  | 10m Gr420 | 2000   | L | 10 @300 TIES        | 18      |
| 1294                    |    |    |     |           |      |     |      |   | 3 | 12  | 10m Gr420 | 900    | L | 10 @300 TIES        | 25      |
| 1295                    |    |    |     |           |      |     |      |   | 2 | 163 | 15m Gr420 | 1390   | H | 15 @200 DWL EF      | 711     |
| 1296 STAIR CORE WALL W1 |    |    |     |           |      |     |      |   |   |     |           |        |   |                     |         |
| 1297                    |    |    |     |           |      |     |      |   | 2 | 56  | 15m Gr420 | 4210   |   | 15 @350 VERT EF     | 740     |
| 1298                    |    |    |     |           |      |     |      |   | 2 | 12  | 15m Gr420 | 5920   |   | 15 @300 HOR EF      | 223     |
| 1299                    |    |    |     |           |      | 2   |      |   | 2 | 12  | 15m Gr420 | 5100   |   | 15 @300 HOR EF      | 384     |
| 1300                    |    |    |     |           |      |     |      |   | 2 | 12  | 15m Gr420 | 2910   |   | 15 @300 HOR EF      | 109     |
| 1301                    |    |    |     |           |      | 4   |      |   | 2 | 12  | 15m Gr420 | 2000   | H | 15 @300 COR EF      | 301     |
| 1302                    |    |    |     |           |      | 3   |      |   |   | 28  | 20m Gr420 | 4210   |   | 28 20@150 ADDL VERT | 832     |
| 1303                    |    |    |     |           |      | 3   |      |   | 2 | 12  | 10m Gr420 | 2840   | L | 10 @300 TIES        | 160     |
| 1304                    |    |    |     |           |      | 3   |      |   | 4 | 12  | 10m Gr420 | 900    | L | 10 @300 TIES        | 101     |
| 1305                    |    |    |     |           |      | 2   |      |   |   | 16  | 20m Gr420 | 4210   |   | 16 20@150 ADDL VERT | 317     |
| 1306                    |    |    |     |           |      | 2   |      |   |   | 12  | 10m Gr420 | 2840   | L | 10 @300 TIES        | 53      |
| 1307                    |    |    |     |           |      | 2   |      |   | 2 | 12  | 10m Gr420 | 900    | L | 10 @300 TIES        | 34      |
| 1308                    |    |    |     |           |      |     |      |   |   | 4   | 15m Gr420 | 4210   |   | 4 15@150 ADDL VERT  | 26      |
| 1309                    |    |    |     |           |      |     |      |   |   | 12  | 10m Gr420 | 900    | L | 10 @300 TIES        | 8       |
| 1310                    |    |    |     |           |      |     |      |   | 2 | 98  | 15m Gr420 | 1390   | H | 15 @200 DWL EF      | 427     |
| 1311 WALL W2 (5800 mm)  |    |    |     |           |      |     |      |   |   |     |           |        |   |                     |         |

Bid Date 04/08/16

## \*\* ESTIMATING BAR LIST \*\*

| LINE                    | LA | EP | A/D | STRUCTURE | MULT | REQ | CODE | + | X  | QTY | SZ/GR     | LENGTH | B | COMMENT         | LINE KG |
|-------------------------|----|----|-----|-----------|------|-----|------|---|----|-----|-----------|--------|---|-----------------|---------|
| 1312                    |    |    |     |           |      |     |      |   | 2  | 18  | 15m Gr420 | 4210   |   | 15 @350 VERT EF | 238     |
| 1313                    |    |    |     |           |      |     |      |   | 2  | 12  | 15m Gr420 | 5800   |   | 15 @300 HOR EF  | 218     |
| 1314                    |    |    |     |           |      |     |      |   | 6  | 6   | 15m Gr420 | 4210   |   | 6 15 ADDL VERT  | 238     |
| 1315                    |    |    |     |           |      |     |      |   | 6  | 14  | 10m Gr420 | 800    | L | 10 @250 TIES    | 52      |
| 1316                    |    |    |     |           |      |     |      |   | 2  | 30  | 15m Gr420 | 1390   | H | 15 @200 DWL EF  | 131     |
| 1317 WALL W3 (74125 mm) |    |    |     |           |      |     |      |   |    |     |           |        |   |                 |         |
| 1318                    |    |    |     |           |      |     |      |   | 2  | 213 | 15m Gr420 | 4210   |   | 15 @350 VERT EF | 2815    |
| 1319                    |    |    |     |           |      |     |      |   | 2  | 12  | 15m Gr420 | 77800  |   | 15 @300 HOR EF  | 2931    |
| 1320                    |    |    |     |           |      |     |      |   | 44 | 8   | 15m Gr420 | 4210   |   | 8 15 ADDL VERT  | 2326    |
| 1321                    |    |    |     |           |      |     |      |   | 44 | 14  | 10m Gr420 | 1000   | L | 10 @250 TIES    | 483     |
| 1322                    |    |    |     |           |      |     |      |   | 2  | 372 | 15m Gr420 | 1390   | H | 15 @200 DWL EF  | 1623    |
| 1323 WALL W4 (26425 mm) |    |    |     |           |      |     |      |   |    |     |           |        |   |                 |         |
| 1324                    |    |    |     |           |      |     |      |   | 2  | 77  | 15m Gr420 | 4210   |   | 15 @350 VERT EF | 1017    |
| 1325                    |    |    |     |           |      |     |      |   | 2  | 12  | 15m Gr420 | 27800  |   | 15 @300 HOR EF  | 1047    |
| 1326                    |    |    |     |           |      |     |      |   | 8  | 12  | 15m Gr420 | 4210   |   | 12 15 ADDL VERT | 634     |
| 1327                    |    |    |     |           |      |     |      |   | 8  | 14  | 10m Gr420 | 1300   | L | 10 @250 TIES    | 114     |
| 1328                    |    |    |     |           |      |     |      |   | 2  | 135 | 15m Gr420 | 1390   | H | 15 @200 DWL EF  | 589     |
| 1329 WALL W5 (37725 mm) |    |    |     |           |      |     |      |   |    |     |           |        |   |                 |         |
| 1330                    |    |    |     |           |      |     |      |   | 2  | 109 | 15m Gr420 | 4210   |   | 15 @350 VERT EF | 1441    |
| 1331                    |    |    |     |           |      |     |      |   | 2  | 12  | 15m Gr420 | 39590  |   | 15 @300 HOR EF  | 1491    |
| 1332                    |    |    |     |           |      |     |      |   | 6  | 16  | 15m Gr420 | 4210   |   | 16 15 ADDL VERT | 634     |
| 1333                    |    |    |     |           |      |     |      |   | 6  | 14  | 10m Gr420 | 1600   | L | 10 @250 TIES    | 105     |
| 1334                    |    |    |     |           |      |     |      |   | 2  | 190 | 15m Gr420 | 1390   | H | 15 @200 DWL EF  | 829     |

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## \*\* ESTIMATING BAR LIST \*\*

| LINE | LA | EP | A/D | STRUCTURE     | MULT | REQ | CODE | + | X  | QTY  | SZ/GR            | LENGTH | B | COMMENT           | LINE KG |
|------|----|----|-----|---------------|------|-----|------|---|----|------|------------------|--------|---|-------------------|---------|
| 1335 |    |    |     |               |      |     |      |   |    |      |                  |        |   |                   |         |
| 1336 |    |    |     | >3RD FLR SLAB |      |     |      |   |    |      | THIRD FLOOR SLAB |        |   |                   |         |
| 1337 |    |    |     |               |      |     |      |   | 2  | 685  | 15m Gr420        | 12192  |   | 15@450 T&B EW     | 26224   |
| 1338 |    |    |     |               |      |     |      |   |    | 1130 | 15m Gr420        | 1625   | L | 15 STANDEE        | 2883    |
| 1339 |    |    |     |               |      |     |      |   |    | 27   | 15m Gr420        | 7000   |   | 27 15@450 T ADDL  | 296     |
| 1340 |    |    |     |               |      |     |      |   |    | 27   | 15m Gr420        | 1750   | L | 15@450 T ADDL     | 74      |
| 1341 |    |    |     |               |      |     |      |   | 2  | 2    | 15m Gr420        | 6335   |   | 2 15@300 T&B ADDL | 39      |
| 1342 |    |    |     |               |      |     |      |   |    | 23   | 10m Gr420        | 6500   |   | 10@450 B ADDL     | 117     |
| 1343 |    |    |     |               |      |     |      |   | 10 | 2    | 15m Gr420        | 3270   |   | 2 15@300 T&B ADDL | 102     |
| 1344 |    |    |     |               |      |     |      |   |    | 6    | 10m Gr420        | 6700   |   | 10@450 B ADDL     | 31      |
| 1345 |    |    |     |               |      |     |      |   |    | 27   | 10m Gr420        | 5900   |   | 10@450 B ADDL     | 124     |
| 1346 |    |    |     |               |      |     |      |   | 12 | 2    | 15m Gr420        | 2500   |   | 2 15 T ADDL       | 94      |
| 1347 |    |    |     |               |      |     |      |   | 2  | 6    | 15m Gr420        | 2500   |   | 1 15 MT ADDL      | 47      |
| 1348 |    |    |     |               |      |     |      |   |    | 15   | 15m Gr420        | 5000   |   | 1 15 MB ADDL      | 117     |
| 1349 |    |    |     |               |      |     |      |   |    | 14   | 10m Gr420        | 5000   |   | 10@450 B ADDL     | 54      |
| 1350 |    |    |     |               |      |     |      |   |    | 31   | 20m Gr420        | 3500   |   | 31 20@450 T ADDL  | 255     |
| 1351 |    |    |     |               |      |     |      |   |    | 8    | 10m Gr420        | 7500   |   | 10@450 B ADDL     | 47      |
| 1352 |    |    |     |               |      |     |      |   |    | 5    | 15m Gr420        | 2750   |   | 5 15@450 T ADDL   | 21      |
| 1353 |    |    |     |               |      |     |      |   |    | 7    | 15m Gr420        | 13500  |   | 10@450 B ADDL     | 148     |
| 1354 |    |    |     |               |      |     |      |   | 2  | 7    | 15m Gr420        | 1700   | L | 15@450 T ADDL     | 37      |
| 1355 |    |    |     |               |      |     |      |   |    | 2    | 15m Gr420        | 13000  |   | 2 15@300 T&B ADDL | 40      |
| 1356 |    |    |     |               |      |     |      |   |    | 2    | 15m Gr420        | 5000   | L | 2 15@450 T ADDL   | 15      |
| 1357 |    |    |     |               |      |     |      |   | 2  | 6    | 20m Gr420        | 7000   |   | 6 20@450 T ADDL   | 197     |

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## \*\* ESTIMATING BAR LIST \*\*

| LINE | LA | EP | A/D | STRUCTURE | MULT | REQ | CODE | + | X | QTY | SZ/GR     | LENGTH | B | COMMENT           | LINE KG |
|------|----|----|-----|-----------|------|-----|------|---|---|-----|-----------|--------|---|-------------------|---------|
| 1358 |    |    |     |           |      |     |      |   |   | 7   | 20m Gr420 | 4500   |   | 7 20@450 T ADDL   | 73      |
| 1359 |    |    |     |           |      |     |      |   |   | 20  | 10m Gr420 | 4500   |   | 10@450 B ADDL     | 70      |
| 1360 |    |    |     |           |      |     |      |   |   | 6   | 15m Gr420 | 2600   |   | 6 15@600 MT ADDL  | 24      |
| 1361 |    |    |     |           |      |     |      |   |   | 2   | 15m Gr420 | 2000   |   | 2 15@300 T&B ADDL | 6       |
| 1362 |    |    |     |           |      |     |      |   |   | 8   | 15m Gr420 | 6700   |   | 15@450 B ADDL     | 84      |
| 1363 |    |    |     |           |      |     |      |   |   | 2   | 15m Gr420 | 3400   |   | 2 15@300 T&B ADDL | 10      |
| 1364 |    |    |     |           |      |     |      |   |   | 8   | 10m Gr420 | 7500   |   | 10@450 B ADDL     | 47      |
| 1365 |    |    |     |           |      |     |      |   |   | 5   | 20m Gr420 | 10000  |   | 5 20@450 T ADDL   | 117     |
| 1366 |    |    |     |           |      |     |      |   |   | 14  | 10m Gr420 | 5000   |   | 10@450 B ADDL     | 54      |
| 1367 |    |    |     |           |      |     |      |   |   | 9   | 20m Gr420 | 4000   |   | 9 20@450 T ADDL   | 84      |
| 1368 |    |    |     |           |      |     |      |   |   | 2   | 15m Gr420 | 3500   |   | 2 15@450 T ADDL   | 10      |
| 1369 |    |    |     |           |      |     |      |   |   | 8   | 20m Gr420 | 3500   |   | 8 20@450 T ADDL   | 65      |
| 1370 |    |    |     |           |      |     |      |   |   | 23  | 10m Gr420 | 8000   |   | 10@450 B ADDL     | 144     |
| 1371 |    |    |     |           |      |     |      |   |   | 4   | 10m Gr420 | 5000   |   | 10@450 B ADDL     | 15      |
| 1372 |    |    |     |           |      |     |      |   |   | 4   | 10m Gr420 | 6000   |   | 10@450 B ADDL     | 18      |
| 1373 |    |    |     |           |      |     |      |   |   | 8   | 20m Gr420 | 3000   | L | 8 20@450 T ADDL   | 56      |
| 1374 |    |    |     |           |      |     |      |   |   | 17  | 20m Gr420 | 3500   |   | 17 20@450 T ADDL  | 140     |
| 1375 |    |    |     |           |      |     |      |   |   | 15  | 10m Gr420 | 5500   |   | 10@450 B ADDL     | 64      |
| 1376 |    |    |     |           |      |     |      |   |   | 8   | 20m Gr420 | 6000   |   | 2 20@450 T ADDL   | 112     |
| 1377 |    |    |     |           |      |     |      |   |   | 4   | 15m Gr420 | 1750   | L | 4 15@450 T ADDL   | 10      |
| 1378 |    |    |     |           |      |     |      |   |   | 5   | 15m Gr420 | 6330   |   | 15@450 B ADDL     | 49      |
| 1379 |    |    |     |           |      |     |      |   | 2 | 15  | 15m Gr420 | 6000   |   | 2 15@450 T&B ADDL | 282     |
| 1380 |    |    |     |           |      |     |      |   |   | 4   | 15m Gr420 | 6050   |   | 15@450 B ADDL     | 38      |

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## \*\* ESTIMATING BAR LIST \*\*

| LINE | LA | EP | A/D | STRUCTURE | MULT | REQ | CODE | + | X | QTY | SZ/GR     | LENGTH | B | COMMENT           | LINE KG |
|------|----|----|-----|-----------|------|-----|------|---|---|-----|-----------|--------|---|-------------------|---------|
| 1381 |    |    |     |           |      |     |      |   |   | 2   | 20m Gr420 | 3700   |   | 2 20@450 T ADDL   | 17      |
| 1382 |    |    |     |           |      |     |      |   |   | 4   | 20m Gr420 | 3000   |   | 4 20@450 T ADDL   | 28      |
| 1383 |    |    |     |           |      |     |      |   |   | 10  | 20m Gr420 | 3500   |   | 10 20@450 T ADDL  | 82      |
| 1384 |    |    |     |           |      |     |      |   |   | 5   | 15m Gr420 | 3500   |   | 5 15@450 T ADDL   | 27      |
| 1385 |    |    |     |           |      |     |      |   |   | 8   | 15m Gr420 | 3500   |   | 8 15@450 T ADDL   | 43      |
| 1386 |    |    |     |           |      |     |      |   | 2 | 2   | 20m Gr420 | 9000   |   | 2 20 ADDL         | 84      |
| 1387 |    |    |     |           |      |     |      |   |   | 9   | 20m Gr420 | 3500   |   | 9 20@450 T ADDL   | 73      |
| 1388 |    |    |     |           |      |     |      |   | 2 | 9   | 15m Gr420 | 1750   | L | 15@450 T ADDL     | 49      |
| 1389 |    |    |     |           |      |     |      |   |   | 6   | 15m Gr420 | 2000   | L | 6 15@500 MT ADDL  | 19      |
| 1390 |    |    |     |           |      |     |      |   |   | 10  | 20m Gr420 | 7000   |   | 10 20 ADDL        | 164     |
| 1391 |    |    |     |           |      |     |      |   |   | 16  | 15m Gr420 | 5000   |   | 15@450 B ADDL     | 125     |
| 1392 |    |    |     |           |      |     |      |   |   | 20  | 15m Gr420 | 4500   |   | 20 15@450 MT ADDL | 141     |
| 1393 |    |    |     |           |      |     |      |   |   | 35  | 15m Gr420 | 7000   |   | 15@450 T ADDL     | 384     |
| 1394 |    |    |     |           |      |     |      |   | 2 | 2   | 15m Gr420 | 3000   |   | 2 15 T ADDL       | 19      |
| 1395 |    |    |     |           |      |     |      |   |   | 16  | 20m Gr420 | 3500   |   | 16 20@450 T ADDL  | 131     |
| 1396 |    |    |     |           |      |     |      |   |   | 26  | 10m Gr420 | 5000   |   | 10@450 B ADDL     | 102     |
| 1397 |    |    |     |           |      |     |      |   |   | 5   | 15m Gr420 | 3500   |   | 5 15@450 MT ADDL  | 27      |
| 1398 |    |    |     |           |      |     |      |   |   | 17  | 20m Gr420 | 3500   |   | 17 20@450 T ADDL  | 140     |
| 1399 |    |    |     |           |      |     |      |   |   | 8   | 20m Gr420 | 3000   | L | 8 20@450 T ADDL   | 56      |
| 1400 |    |    |     |           |      |     |      |   |   | 4   | 10m Gr420 | 6000   |   | 10@450 B ADDL     | 18      |
| 1401 |    |    |     |           |      |     |      |   |   | 4   | 15m Gr420 | 5000   |   | 15@450 B ADDL     | 31      |
| 1402 |    |    |     |           |      |     |      |   |   | 16  | 10m Gr420 | 5500   |   | 10@450 B ADDL     | 68      |
| 1403 |    |    |     |           |      |     |      |   |   | 2   | 20m Gr420 | 6000   |   | 2 20@450 T ADDL   | 28      |

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## \*\* ESTIMATING BAR LIST \*\*

| LINE | LA | EP | A/D | STRUCTURE | MULT | REQ | CODE | + | X  | QTY | SZ/GR     | LENGTH | B | COMMENT           | LINE KG |
|------|----|----|-----|-----------|------|-----|------|---|----|-----|-----------|--------|---|-------------------|---------|
| 1404 |    |    |     |           |      |     |      |   |    | 4   | 15m Gr420 | 1750   | L | 4 15@450 T ADDL   | 10      |
| 1405 |    |    |     |           |      |     |      |   |    | 8   | 15m Gr420 | 6400   |   | 15@450 B ADDL     | 80      |
| 1406 |    |    |     |           |      |     |      |   |    | 4   | 15m Gr420 | 6000   |   | 15@450 B ADDL     | 37      |
| 1407 |    |    |     |           |      |     |      |   | 2  | 8   | 15m Gr420 | 6070   |   | 15@300 T&B ADDL   | 152     |
| 1408 |    |    |     |           |      |     |      |   |    | 10  | 20m Gr420 | 3500   |   | 10 20@450 T ADDL  | 82      |
| 1409 |    |    |     |           |      |     |      |   |    | 4   | 20m Gr420 | 3000   |   | 4 20@450 T ADDL   | 28      |
| 1410 |    |    |     |           |      |     |      |   |    | 2   | 20m Gr420 | 2170   |   | 4 20@450 T ADDL   | 10      |
| 1411 |    |    |     |           |      |     |      |   | 2  | 2   | 15m Gr420 | 3260   |   | 2 15@450 T&B ADDL | 20      |
| 1412 |    |    |     |           |      |     |      |   |    | 9   | 15m Gr420 | 1700   | L | 15@450 T ADDL     | 24      |
| 1413 |    |    |     |           |      |     |      |   | 2  | 6   | 10m Gr420 | 6700   |   | 10@450 B ADDL     | 63      |
| 1414 |    |    |     |           |      |     |      |   | 10 | 2   | 15m Gr420 | 3300   |   | 2 15@300 T&B ADDL | 103     |
| 1415 |    |    |     |           |      |     |      |   | 2  | 2   | 15m Gr420 | 27950  |   | 2 15@300 T&B ADDL | 175     |
| 1416 |    |    |     |           |      |     |      |   | 2  | 30  | 15m Gr420 | 7000   |   | 30 15@450 T ADDL  | 659     |
| 1417 |    |    |     |           |      |     |      |   |    | 9   | 10m Gr420 | 5000   |   | 10@450 B ADDL     | 35      |
| 1418 |    |    |     |           |      |     |      |   |    | 39  | 10m Gr420 | 5000   |   | 10@450 B ADDL     | 152     |
| 1419 |    |    |     |           |      |     |      |   | 2  | 2   | 15m Gr420 | 5000   |   | 2 15 T ADDL       | 31      |
| 1420 |    |    |     |           |      |     |      |   |    | 33  | 15m Gr420 | 5100   |   | 10@450 B ADDL     | 264     |
| 1421 |    |    |     |           |      |     |      |   |    | 29  | 15m Gr420 | 1750   | L | 15@450 T ADDL     | 79      |
| 1422 |    |    |     |           |      |     |      |   |    | 13  | 15m Gr420 | 7500   |   | 15@450 B ADDL     | 152     |
| 1423 |    |    |     |           |      |     |      |   |    | 8   | 15m Gr420 | 5000   |   | 15@450 B ADDL     | 62      |
| 1424 |    |    |     |           |      |     |      |   | 4  | 2   | 15m Gr420 | 4500   |   | 2 15@300 T&B ADDL | 56      |
| 1425 |    |    |     |           |      |     |      |   | 2  | 7   | 15m Gr420 | 6550   |   | 2 15@300 T&B ADDL | 143     |
| 1426 |    |    |     |           |      |     |      |   |    | 2   | 15m Gr420 | 2500   |   | 2 15 MT ADDL      | 7       |

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## \*\* ESTIMATING BAR LIST \*\*

| LINE                                 | LA | EP | A/D | STRUCTURE | MULT | REQ | CODE | + | X  | QTY | SZ/GR     | LENGTH | B | COMMENT           | LINE KG |
|--------------------------------------|----|----|-----|-----------|------|-----|------|---|----|-----|-----------|--------|---|-------------------|---------|
| 1427                                 |    |    |     |           |      |     |      |   |    | 30  | 15m Gr420 | 4000   |   | 30 15@450 T ADDL  | 188     |
| 1428                                 |    |    |     |           |      |     |      |   |    | 26  | 10m Gr420 | 10330  |   | 10@450 B ADDL     | 210     |
| 1429                                 |    |    |     |           |      |     |      |   |    | 5   | 15m Gr420 | 8500   |   | 5 15@450 T ADDL   | 66      |
| 1430                                 |    |    |     |           |      |     |      |   |    | 6   | 20m Gr420 | 5000   | L | 6 20@450 T ADDL   | 70      |
| 1431                                 |    |    |     |           |      |     |      |   |    | 6   | 20m Gr420 | 1750   | L | 6 20@450 T ADDL   | 24      |
| 1432                                 |    |    |     |           |      |     |      |   |    | 14  | 15m Gr420 | 1750   | L | 15@450 T ADDL     | 38      |
| 1433                                 |    |    |     |           |      |     |      |   |    | 3   | 15m Gr420 | 1700   | L | 3 15@450 T ADDL   | 8       |
| 1434                                 |    |    |     |           |      |     |      |   |    | 4   | 15m Gr420 | 3500   | L | 4 15@450 T ADDL   | 21      |
| 1435                                 |    |    |     |           |      |     |      |   |    | 5   | 15m Gr420 | 7000   |   | 5 15@450 T ADDL   | 54      |
| 1436                                 |    |    |     |           |      |     |      |   |    | 11  | 10m Gr420 | 5000   |   | 10@450 B ADDL     | 43      |
| 1437                                 |    |    |     |           |      |     |      |   |    | 7   | 15m Gr420 | 6700   |   | 15@450 B ADDL     | 73      |
| 1438                                 |    |    |     |           |      |     |      |   | 2  | 2   | 15m Gr420 | 6400   |   | 2 15@300 T&B ADDL | 40      |
| 1439                                 |    |    |     |           |      |     |      |   | 2  | 2   | 15m Gr420 | 1930   |   | 2 15@300 T&B ADDL | 12      |
| 1440                                 |    |    |     |           |      |     |      |   | 2  | 2   | 15m Gr420 | 3330   |   | 2 15@300 T&B ADDL | 20      |
| 1441                                 |    |    |     |           |      |     |      |   | 2  | 2   | 15m Gr420 | 6400   |   | 2 15@300 T&B ADDL | 40      |
| 1442                                 |    |    |     |           |      |     |      |   |    | 6   | 15m Gr420 | 1700   | L | 15@450 T ADDL     | 15      |
| 1443                                 |    |    |     |           |      |     |      |   | 40 | 3   | 10m Gr420 | 700    | L | 3 10@100 STIRR    | 65      |
| 1444                                 |    |    |     |           |      |     |      |   | 2  | 18  | 15m Gr420 | 12192  |   | 1 15 CONT T&B     | 689     |
| 1445                                 |    |    |     |           |      |     |      |   | 2  | 18  | 15m Gr420 | 12192  |   | 2 15@200 B CONT   | 689     |
| 1446                                 |    |    |     |           |      |     |      |   |    |     |           |        |   |                   |         |
| 1447 >3RD FLR COL THIRD FLOOR COLUMN |    |    |     |           |      |     |      |   |    |     |           |        |   |                   |         |
| 1448 COLUMN MARK C2 (20 LOC)         |    |    |     |           |      |     |      |   |    |     |           |        |   |                   |         |
| 1449                                 |    |    |     |           |      |     |      |   | 20 | 8   | 20m Gr420 | 4210   | H | 8 20 VERT         | 1585    |

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## \*\* ESTIMATING BAR LIST \*\*

| LINE                        | LA | EP | A/D | STRUCTURE     | MULT | REQ              | CODE | + | X  | QTY | SZ/GR     | LENGTH | B | COMMENT         | LINE KG |
|-----------------------------|----|----|-----|---------------|------|------------------|------|---|----|-----|-----------|--------|---|-----------------|---------|
| 1450                        |    |    |     |               |      |                  |      |   | 20 | 12  | 10m Gr420 | 1400   | L | 10 @300 TIES    | 263     |
| 1451 COLUMN MARK C5 (2 LOC) |    |    |     |               |      |                  |      |   |    |     |           |        |   |                 |         |
| 1452                        |    |    |     |               |      |                  |      |   | 2  | 14  | 20m Gr420 | 4210   | H | 14 20 VERT      | 277     |
| 1453                        |    |    |     |               |      |                  |      |   | 2  | 14  | 10m Gr420 | 2580   | L | 10 @250 TIES    | 56      |
| 1454                        |    |    |     |               |      |                  |      |   | 2  | 14  | 10m Gr420 | 1100   | L | 10 @250 TIES    | 24      |
| 1455 COLUMN MARK C8 (2 LOC) |    |    |     |               |      |                  |      |   |    |     |           |        |   |                 |         |
| 1456                        |    |    |     |               |      |                  |      |   | 2  | 14  | 20m Gr420 | 4210   | H | 14 20 VERT      | 277     |
| 1457                        |    |    |     |               |      |                  |      |   | 2  | 14  | 10m Gr420 | 2900   | L | 10 @250 TIES    | 63      |
| 1458                        |    |    |     |               |      | 2                |      |   | 2  | 14  | 10m Gr420 | 720    | L | 10 @250 TIES    | 31      |
| 1459                        |    |    |     |               |      |                  |      |   | 2  | 14  | 10m Gr420 | 300    | L | 10 @250 LINKS   | 6       |
| 1460 COLUMN MARK C9 (4 LOC) |    |    |     |               |      |                  |      |   |    |     |           |        |   |                 |         |
| 1461                        |    |    |     |               |      |                  |      |   | 4  | 14  | 20m Gr420 | 4210   | H | 14 20 VERT      | 555     |
| 1462                        |    |    |     |               |      |                  |      |   | 4  | 14  | 10m Gr420 | 3000   | L | 10 @250 TIES    | 131     |
| 1463                        |    |    |     |               |      | 2                |      |   | 4  | 14  | 10m Gr420 | 720    | L | 10 @250 TIES    | 63      |
| 1464                        |    |    |     |               |      |                  |      |   | 4  | 14  | 10m Gr420 | 300    | L | 10 @250 LINKS   | 13      |
| 1465                        |    |    |     |               |      |                  |      |   |    |     |           |        |   |                 |         |
| 1466                        |    |    |     | >3RD FLR WALL |      | THIRD FLOOR WALL |      |   |    |     |           |        |   |                 |         |
| 1467 WALL W1 (11730 mm)     |    |    |     |               |      |                  |      |   |    |     |           |        |   |                 |         |
| 1468                        |    |    |     |               |      |                  |      |   | 2  | 35  | 15m Gr420 | 4210   |   | 15 @350 VERT EF | 462     |
| 1469                        |    |    |     |               |      |                  |      |   | 2  | 12  | 15m Gr420 | 11730  |   | 15 @300 HOR EF  | 441     |
| 1470                        |    |    |     |               |      |                  |      |   | 6  | 5   | 15m Gr420 | 4210   |   | 4 15 ADDL VERT  | 198     |
| 1471                        |    |    |     |               |      |                  |      |   | 6  | 14  | 10m Gr420 | 700    | L | 10 @250 TIES    | 46      |
| 1472                        |    |    |     |               |      |                  |      |   | 2  | 60  | 15m Gr420 | 1390   | H | 15 @200 DWL EF  | 261     |

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## \*\* ESTIMATING BAR LIST \*\*

| LINE                        | LA | EP | A/D | STRUCTURE | MULT | REQ | CODE | + | X | QTY | SZ/GR     | LENGTH | B | COMMENT             | LINE KG |
|-----------------------------|----|----|-----|-----------|------|-----|------|---|---|-----|-----------|--------|---|---------------------|---------|
| 1473 ELEVATOR SHAFT WALL W1 |    |    |     |           |      |     |      |   |   |     |           |        |   |                     |         |
| 1474                        |    |    |     |           |      |     |      |   | 2 | 94  | 15m Gr420 | 4210   |   | 15 @350 VERT EF     | 1242    |
| 1475                        |    |    |     |           |      |     |      |   | 2 | 12  | 15m Gr420 | 5730   |   | 15 @300 HOR EF      | 215     |
| 1476                        |    |    |     |           |      |     |      |   | 2 | 12  | 15m Gr420 | 4680   |   | 15 @300 HOR EF      | 176     |
| 1477                        |    |    |     |           |      |     |      |   | 2 | 12  | 15m Gr420 | 2580   |   | 15 @300 HOR EF      | 97      |
| 1478                        |    |    |     |           |      |     |      |   | 2 | 12  | 15m Gr420 | 8400   |   | 15 @300 HOR EF      | 316     |
| 1479                        |    |    |     |           |      | 2   |      |   | 2 | 12  | 15m Gr420 | 2900   |   | 15 @300 HOR EF      | 218     |
| 1480                        |    |    |     |           |      |     |      |   | 2 | 12  | 15m Gr420 | 5100   |   | 15 @300 HOR EF      | 192     |
| 1481                        |    |    |     |           |      | 8   |      |   | 2 | 12  | 15m Gr420 | 2000   | H | 15 @300 COR EF      | 602     |
| 1482                        |    |    |     |           |      |     |      |   | 2 | 163 | 15m Gr420 | 1390   | H | 15 @200 DWL EF      | 711     |
| 1483                        |    |    |     |           |      |     |      |   | 3 | 6   | 15m Gr420 | 4210   |   | 6 15@150 ADDL VERT  | 118     |
| 1484                        |    |    |     |           |      |     |      |   | 3 | 12  | 10m Gr420 | 1350   | L | 10 @300 TIES        | 38      |
| 1485                        |    |    |     |           |      |     |      |   | 2 | 4   | 15m Gr420 | 4210   |   | 4 15@150 ADDL VERT  | 53      |
| 1486                        |    |    |     |           |      |     |      |   | 2 | 12  | 10m Gr420 | 1000   | L | 10 @300 TIES        | 18      |
| 1487                        |    |    |     |           |      |     |      |   | 5 | 12  | 15m Gr420 | 4210   |   | 12 15@150 ADDL VERT | 396     |
| 1488                        |    |    |     |           |      |     |      |   | 5 | 12  | 10m Gr420 | 2260   | L | 10 @300 TIES        | 106     |
| 1489                        |    |    |     |           |      |     |      |   | 5 | 12  | 10m Gr420 | 1000   | L | 10 @300 TIES        | 47      |
| 1490                        |    |    |     |           |      |     |      |   |   | 20  | 15m Gr420 | 4210   |   | 20 15@150 ADDL VERT | 131     |
| 1491                        |    |    |     |           |      |     |      |   |   | 12  | 10m Gr420 | 2175   | L | 10 @300 TIES        | 20      |
| 1492                        |    |    |     |           |      |     |      |   |   | 12  | 10m Gr420 | 1975   | L | 10 @300 TIES        | 18      |
| 1493                        |    |    |     |           |      |     |      |   | 2 | 12  | 10m Gr420 | 1000   | L | 10 @300 TIES        | 18      |
| 1494                        |    |    |     |           |      |     |      |   |   | 14  | 15m Gr420 | 4210   |   | 14 15@150 ADDL VERT | 92      |
| 1495                        |    |    |     |           |      |     |      |   |   | 12  | 10m Gr420 | 2200   | L | 10 @300 TIES        | 20      |

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## \*\* ESTIMATING BAR LIST \*\*

| LINE                                 | LA | EP | A/D | STRUCTURE | MULT | REQ | CODE | + | X  | QTY  | SZ/GR     | LENGTH | B | COMMENT          | LINE KG |
|--------------------------------------|----|----|-----|-----------|------|-----|------|---|----|------|-----------|--------|---|------------------|---------|
| 1519                                 |    |    |     |           |      |     |      |   | 2  | 213  | 15m Gr420 | 4210   |   | 15 @350 VERT EF  | 2815    |
| 1520                                 |    |    |     |           |      |     |      |   | 2  | 12   | 15m Gr420 | 77800  |   | 15 @300 HOR EF   | 2931    |
| 1521                                 |    |    |     |           |      |     |      |   | 44 | 8    | 15m Gr420 | 4210   |   | 8 15 ADDL VERT   | 2326    |
| 1522                                 |    |    |     |           |      |     |      |   | 44 | 14   | 10m Gr420 | 1000   | L | 10 @250 TIES     | 483     |
| 1523                                 |    |    |     |           |      |     |      |   | 2  | 372  | 15m Gr420 | 1390   | H | 15 @200 DWL EF   | 1623    |
| 1524 WALL W4 (26425 mm)              |    |    |     |           |      |     |      |   |    |      |           |        |   |                  |         |
| 1525                                 |    |    |     |           |      |     |      |   | 2  | 77   | 15m Gr420 | 4210   |   | 15 @350 VERT EF  | 1017    |
| 1526                                 |    |    |     |           |      |     |      |   | 2  | 12   | 15m Gr420 | 27800  |   | 15 @300 HOR EF   | 1047    |
| 1527                                 |    |    |     |           |      |     |      |   | 8  | 12   | 15m Gr420 | 4210   |   | 12 15 ADDL VERT  | 634     |
| 1528                                 |    |    |     |           |      |     |      |   | 8  | 14   | 10m Gr420 | 1300   | L | 10 @250 TIES     | 114     |
| 1529                                 |    |    |     |           |      |     |      |   | 2  | 135  | 15m Gr420 | 1390   | H | 15 @200 DWL EF   | 589     |
| 1530 WALL W5 (37725 mm)              |    |    |     |           |      |     |      |   |    |      |           |        |   |                  |         |
| 1531                                 |    |    |     |           |      |     |      |   | 2  | 109  | 15m Gr420 | 4210   |   | 15 @350 VERT EF  | 1441    |
| 1532                                 |    |    |     |           |      |     |      |   | 2  | 12   | 15m Gr420 | 39590  |   | 15 @300 HOR EF   | 1491    |
| 1533                                 |    |    |     |           |      |     |      |   | 6  | 16   | 15m Gr420 | 4210   |   | 16 15 ADDL VERT  | 634     |
| 1534                                 |    |    |     |           |      |     |      |   | 6  | 14   | 10m Gr420 | 1600   | L | 10 @250 TIES     | 105     |
| 1535                                 |    |    |     |           |      |     |      |   | 2  | 190  | 15m Gr420 | 1390   | H | 15 @200 DWL EF   | 829     |
| 1536                                 |    |    |     |           |      |     |      |   |    |      |           |        |   |                  |         |
| 1537 >4TH FLR SLAB FOURTH FLOOR SLAB |    |    |     |           |      |     |      |   |    |      |           |        |   |                  |         |
| 1538                                 |    |    |     |           |      |     |      |   | 2  | 685  | 15m Gr420 | 12192  |   | 15@450 T&B EW    | 26224   |
| 1539                                 |    |    |     |           |      |     |      |   |    | 1130 | 15m Gr420 | 1625   | L | 15 STANDEE       | 2883    |
| 1540                                 |    |    |     |           |      |     |      |   |    | 27   | 15m Gr420 | 7000   |   | 27 15@450 T ADDL | 296     |
| 1541                                 |    |    |     |           |      |     |      |   |    | 27   | 15m Gr420 | 1750   | L | 15@450 T ADDL    | 74      |

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## \*\* ESTIMATING BAR LIST \*\*

| LINE | LA | EP | A/D | STRUCTURE | MULT | REQ | CODE | + | X  | QTY | SZ/GR     | LENGTH | B | COMMENT           | LINE KG |
|------|----|----|-----|-----------|------|-----|------|---|----|-----|-----------|--------|---|-------------------|---------|
| 1542 |    |    |     |           |      |     |      |   | 2  | 2   | 15m Gr420 | 6335   |   | 2 15@300 T&B ADDL | 39      |
| 1543 |    |    |     |           |      |     |      |   | 10 | 2   | 15m Gr420 | 3270   |   | 2 15@300 T&B ADDL | 102     |
| 1544 |    |    |     |           |      |     |      |   |    | 6   | 10m Gr420 | 6700   |   | 10@450 B ADDL     | 31      |
| 1545 |    |    |     |           |      |     |      |   |    | 27  | 10m Gr420 | 5900   |   | 10@450 B ADDL     | 124     |
| 1546 |    |    |     |           |      |     |      |   | 12 | 2   | 15m Gr420 | 2500   |   | 2 15 T ADDL       | 94      |
| 1547 |    |    |     |           |      |     |      |   | 2  | 5   | 15m Gr420 | 2500   |   | 1 15 MT ADDL      | 39      |
| 1548 |    |    |     |           |      |     |      |   |    | 5   | 15m Gr420 | 5000   |   | 1 15 MB ADDL      | 39      |
| 1549 |    |    |     |           |      |     |      |   |    | 14  | 10m Gr420 | 5000   |   | 10@450 B ADDL     | 54      |
| 1550 |    |    |     |           |      |     |      |   |    | 31  | 20m Gr420 | 3500   |   | 31 20@450 T ADDL  | 255     |
| 1551 |    |    |     |           |      |     |      |   |    | 8   | 10m Gr420 | 7500   |   | 10@450 B ADDL     | 47      |
| 1552 |    |    |     |           |      |     |      |   |    | 5   | 15m Gr420 | 2750   |   | 5 15@450 T ADDL   | 21      |
| 1553 |    |    |     |           |      |     |      |   |    | 7   | 15m Gr420 | 13500  |   | 10@450 B ADDL     | 148     |
| 1554 |    |    |     |           |      |     |      |   | 2  | 7   | 15m Gr420 | 1700   | L | 15@450 T ADDL     | 37      |
| 1555 |    |    |     |           |      |     |      |   |    | 2   | 15m Gr420 | 13000  |   | 2 15@300 T&B ADDL | 40      |
| 1556 |    |    |     |           |      |     |      |   |    | 2   | 15m Gr420 | 5000   | L | 2 15@450 T ADDL   | 15      |
| 1557 |    |    |     |           |      |     |      |   | 2  | 6   | 20m Gr420 | 7000   |   | 6 20@450 T ADDL   | 197     |
| 1558 |    |    |     |           |      |     |      |   |    | 7   | 20m Gr420 | 4500   |   | 7 20@450 T ADDL   | 73      |
| 1559 |    |    |     |           |      |     |      |   |    | 20  | 10m Gr420 | 4500   |   | 10@450 B ADDL     | 70      |
| 1560 |    |    |     |           |      |     |      |   |    | 6   | 15m Gr420 | 2600   |   | 6 15@600 MT ADDL  | 24      |
| 1561 |    |    |     |           |      |     |      |   |    | 2   | 15m Gr420 | 2000   |   | 2 15@300 T&B ADDL | 6       |
| 1562 |    |    |     |           |      |     |      |   |    | 7   | 15m Gr420 | 6700   |   | 15@450 B ADDL     | 73      |
| 1563 |    |    |     |           |      |     |      |   |    | 2   | 15m Gr420 | 3400   |   | 2 15@300 T&B ADDL | 10      |
| 1564 |    |    |     |           |      |     |      |   |    | 8   | 10m Gr420 | 7500   |   | 10@450 B ADDL     | 47      |

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## \*\* ESTIMATING BAR LIST \*\*

| LINE | LA | EP | A/D | STRUCTURE | MULT | REQ | CODE | + | X | QTY | SZ/GR     | LENGTH | B | COMMENT           | LINE KG |
|------|----|----|-----|-----------|------|-----|------|---|---|-----|-----------|--------|---|-------------------|---------|
| 1565 |    |    |     |           |      |     |      |   |   | 5   | 20m Gr420 | 10000  |   | 5 20@450 T ADDL   | 117     |
| 1566 |    |    |     |           |      |     |      |   |   | 14  | 10m Gr420 | 5000   |   | 10@450 B ADDL     | 54      |
| 1567 |    |    |     |           |      |     |      |   |   | 9   | 20m Gr420 | 4000   |   | 9 20@450 T ADDL   | 84      |
| 1568 |    |    |     |           |      |     |      |   |   | 2   | 15m Gr420 | 3500   |   | 2 15@450 T ADDL   | 10      |
| 1569 |    |    |     |           |      |     |      |   |   | 8   | 20m Gr420 | 3500   |   | 8 20@450 T ADDL   | 65      |
| 1570 |    |    |     |           |      |     |      |   |   | 23  | 10m Gr420 | 8000   |   | 10@450 B ADDL     | 144     |
| 1571 |    |    |     |           |      |     |      |   |   | 4   | 10m Gr420 | 5000   |   | 10@450 B ADDL     | 15      |
| 1572 |    |    |     |           |      |     |      |   |   | 4   | 10m Gr420 | 6000   |   | 10@450 B ADDL     | 18      |
| 1573 |    |    |     |           |      |     |      |   |   | 8   | 20m Gr420 | 3000   | L | 8 20@450 T ADDL   | 56      |
| 1574 |    |    |     |           |      |     |      |   |   | 17  | 20m Gr420 | 3500   |   | 17 20@450 T ADDL  | 140     |
| 1575 |    |    |     |           |      |     |      |   |   | 15  | 10m Gr420 | 5500   |   | 10@450 B ADDL     | 64      |
| 1576 |    |    |     |           |      |     |      |   |   | 2   | 20m Gr420 | 6000   |   | 2 20@450 T ADDL   | 28      |
| 1577 |    |    |     |           |      |     |      |   |   | 4   | 15m Gr420 | 1750   | L | 4 15@450 T ADDL   | 10      |
| 1578 |    |    |     |           |      |     |      |   |   | 5   | 15m Gr420 | 6330   |   | 15@450 B ADDL     | 49      |
| 1579 |    |    |     |           |      |     |      |   | 2 | 2   | 15m Gr420 | 6000   |   | 2 15@450 T&B ADDL | 37      |
| 1580 |    |    |     |           |      |     |      |   |   | 4   | 15m Gr420 | 6050   |   | 15@450 B ADDL     | 38      |
| 1581 |    |    |     |           |      |     |      |   |   | 8   | 20m Gr420 | 3700   |   | 2 20@450 T ADDL   | 69      |
| 1582 |    |    |     |           |      |     |      |   |   | 4   | 20m Gr420 | 3000   |   | 4 20@450 T ADDL   | 28      |
| 1583 |    |    |     |           |      |     |      |   |   | 10  | 20m Gr420 | 3500   |   | 10 20@450 T ADDL  | 82      |
| 1584 |    |    |     |           |      |     |      |   |   | 5   | 15m Gr420 | 3500   |   | 5 15@450 T ADDL   | 27      |
| 1585 |    |    |     |           |      |     |      |   |   | 23  | 10m Gr420 | 6500   |   | 10@450 B ADDL     | 117     |
| 1586 |    |    |     |           |      |     |      |   |   | 8   | 15m Gr420 | 3500   |   | 8 15@450 T ADDL   | 43      |
| 1587 |    |    |     |           |      |     |      |   | 2 | 2   | 20m Gr420 | 9000   |   | 2 20 ADDL         | 84      |

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## \*\* ESTIMATING BAR LIST \*\*

| LINE | LA | EP | A/D | STRUCTURE | MULT | REQ | CODE | + | X | QTY | SZ/GR     | LENGTH | B | COMMENT           | LINE KG |
|------|----|----|-----|-----------|------|-----|------|---|---|-----|-----------|--------|---|-------------------|---------|
| 1588 |    |    |     |           |      |     |      |   |   | 9   | 20m Gr420 | 3500   |   | 9 20@450 T ADDL   | 73      |
| 1589 |    |    |     |           |      |     |      |   | 2 | 9   | 15m Gr420 | 1750   | L | 15@450 T ADDL     | 49      |
| 1590 |    |    |     |           |      |     |      |   |   | 6   | 15m Gr420 | 2000   | L | 6 15@500 MT ADDL  | 19      |
| 1591 |    |    |     |           |      |     |      |   |   | 10  | 20m Gr420 | 7000   |   | 10 20 ADDL        | 164     |
| 1592 |    |    |     |           |      |     |      |   |   | 16  | 15m Gr420 | 5000   |   | 15@450 B ADDL     | 125     |
| 1593 |    |    |     |           |      |     |      |   |   | 20  | 15m Gr420 | 4500   |   | 20 15@450 MT ADDL | 141     |
| 1594 |    |    |     |           |      |     |      |   |   | 35  | 15m Gr420 | 7000   |   | 15@450 T ADDL     | 384     |
| 1595 |    |    |     |           |      |     |      |   | 2 | 2   | 15m Gr420 | 3000   |   | 2 15 T ADDL       | 19      |
| 1596 |    |    |     |           |      |     |      |   |   | 16  | 20m Gr420 | 3500   |   | 16 20@450 T ADDL  | 131     |
| 1597 |    |    |     |           |      |     |      |   |   | 26  | 10m Gr420 | 5000   |   | 10@450 B ADDL     | 102     |
| 1598 |    |    |     |           |      |     |      |   |   | 5   | 15m Gr420 | 3500   |   | 5 15@450 MT ADDL  | 27      |
| 1599 |    |    |     |           |      |     |      |   |   | 17  | 20m Gr420 | 3500   |   | 17 20@450 T ADDL  | 140     |
| 1600 |    |    |     |           |      |     |      |   |   | 8   | 20m Gr420 | 3000   | L | 8 20@450 T ADDL   | 56      |
| 1601 |    |    |     |           |      |     |      |   |   | 4   | 10m Gr420 | 6000   |   | 10@450 B ADDL     | 18      |
| 1602 |    |    |     |           |      |     |      |   |   | 4   | 15m Gr420 | 5000   |   | 15@450 B ADDL     | 31      |
| 1603 |    |    |     |           |      |     |      |   |   | 16  | 10m Gr420 | 5500   |   | 10@450 B ADDL     | 68      |
| 1604 |    |    |     |           |      |     |      |   |   | 2   | 20m Gr420 | 6000   |   | 2 20@450 T ADDL   | 28      |
| 1605 |    |    |     |           |      |     |      |   |   | 4   | 15m Gr420 | 1750   | L | 4 15@450 T ADDL   | 10      |
| 1606 |    |    |     |           |      |     |      |   |   | 8   | 15m Gr420 | 6400   |   | 15@450 B ADDL     | 80      |
| 1607 |    |    |     |           |      |     |      |   |   | 4   | 15m Gr420 | 6000   |   | 15@450 B ADDL     | 37      |
| 1608 |    |    |     |           |      |     |      |   | 2 | 2   | 15m Gr420 | 6070   |   | 15@300 T&B ADDL   | 38      |
| 1609 |    |    |     |           |      |     |      |   |   | 10  | 20m Gr420 | 3500   |   | 10 20@450 T ADDL  | 82      |
| 1610 |    |    |     |           |      |     |      |   |   | 4   | 20m Gr420 | 3000   |   | 4 20@450 T ADDL   | 28      |

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## \*\* ESTIMATING BAR LIST \*\*

| LINE | LA | EP | A/D | STRUCTURE | MULT | REQ | CODE | + | X  | QTY | SZ/GR     | LENGTH | B | COMMENT           | LINE KG |
|------|----|----|-----|-----------|------|-----|------|---|----|-----|-----------|--------|---|-------------------|---------|
| 1611 |    |    |     |           |      |     |      |   |    | 9   | 20m Gr420 | 2170   |   | 4 20@450 T ADDL   | 45      |
| 1612 |    |    |     |           |      |     |      |   | 2  | 8   | 15m Gr420 | 3260   |   | 2 15@450 T&B ADDL | 82      |
| 1613 |    |    |     |           |      |     |      |   |    | 9   | 15m Gr420 | 1700   | L | 15@450 T ADDL     | 24      |
| 1614 |    |    |     |           |      |     |      |   | 2  | 6   | 10m Gr420 | 6700   |   | 10@450 B ADDL     | 63      |
| 1615 |    |    |     |           |      |     |      |   | 10 | 2   | 15m Gr420 | 3300   |   | 2 15@300 T&B ADDL | 103     |
| 1616 |    |    |     |           |      |     |      |   | 2  | 2   | 15m Gr420 | 27950  |   | 2 15@300 T&B ADDL | 175     |
| 1617 |    |    |     |           |      |     |      |   | 2  | 30  | 15m Gr420 | 7000   |   | 30 15@450 T ADDL  | 659     |
| 1618 |    |    |     |           |      |     |      |   |    | 9   | 10m Gr420 | 5000   |   | 10@450 B ADDL     | 35      |
| 1619 |    |    |     |           |      |     |      |   |    | 39  | 10m Gr420 | 5000   |   | 10@450 B ADDL     | 152     |
| 1620 |    |    |     |           |      |     |      |   | 2  | 2   | 15m Gr420 | 5000   |   | 2 15 T ADDL       | 31      |
| 1621 |    |    |     |           |      |     |      |   |    | 33  | 15m Gr420 | 5100   |   | 10@450 B ADDL     | 264     |
| 1622 |    |    |     |           |      |     |      |   |    | 29  | 15m Gr420 | 1750   | L | 15@450 T ADDL     | 79      |
| 1623 |    |    |     |           |      |     |      |   |    | 13  | 15m Gr420 | 7500   |   | 15@450 B ADDL     | 152     |
| 1624 |    |    |     |           |      |     |      |   |    | 8   | 15m Gr420 | 5000   |   | 15@450 B ADDL     | 62      |
| 1625 |    |    |     |           |      |     |      |   | 4  | 2   | 15m Gr420 | 4500   |   | 2 15@300 T&B ADDL | 56      |
| 1626 |    |    |     |           |      |     |      |   | 2  | 2   | 15m Gr420 | 6550   |   | 2 15@300 T&B ADDL | 41      |
| 1627 |    |    |     |           |      |     |      |   |    | 2   | 15m Gr420 | 2500   |   | 2 15 MT ADDL      | 7       |
| 1628 |    |    |     |           |      |     |      |   |    | 30  | 15m Gr420 | 4000   |   | 30 15@450 T ADDL  | 188     |
| 1629 |    |    |     |           |      |     |      |   |    | 26  | 10m Gr420 | 10330  |   | 10@450 B ADDL     | 210     |
| 1630 |    |    |     |           |      |     |      |   |    | 5   | 15m Gr420 | 8500   |   | 5 15@450 T ADDL   | 66      |
| 1631 |    |    |     |           |      |     |      |   |    | 6   | 20m Gr420 | 5000   | L | 6 20@450 T ADDL   | 70      |
| 1632 |    |    |     |           |      |     |      |   |    | 6   | 20m Gr420 | 1750   | L | 6 20@450 T ADDL   | 24      |
| 1633 |    |    |     |           |      |     |      |   |    | 14  | 15m Gr420 | 1750   | L | 15@450 T ADDL     | 38      |

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**\*\* ESTIMATING BAR LIST \*\***

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## \*\* ESTIMATING BAR LIST \*\*

| LINE                                 | LA | EP | A/D | STRUCTURE | MULT | REQ | CODE | + | X | QTY | SZ/GR     | LENGTH | B | COMMENT         | LINE KG |
|--------------------------------------|----|----|-----|-----------|------|-----|------|---|---|-----|-----------|--------|---|-----------------|---------|
| 1657                                 |    |    |     |           |      |     |      |   | 2 | 14  | 20m Gr420 | 4210   | H | 14 20 VERT      | 277     |
| 1658                                 |    |    |     |           |      |     |      |   | 2 | 14  | 10m Gr420 | 2900   | L | 10 @250 TIES    | 63      |
| 1659                                 |    |    |     |           |      | 2   |      |   | 2 | 14  | 10m Gr420 | 720    | L | 10 @250 TIES    | 31      |
| 1660                                 |    |    |     |           |      |     |      |   | 2 | 14  | 10m Gr420 | 300    | L | 10 @250 LINKS   | 6       |
| 1661 COLUMN MARK C9 (4 LOC)          |    |    |     |           |      |     |      |   |   |     |           |        |   |                 |         |
| 1662                                 |    |    |     |           |      |     |      |   | 4 | 14  | 20m Gr420 | 4210   | H | 14 20 VERT      | 555     |
| 1663                                 |    |    |     |           |      |     |      |   | 4 | 14  | 10m Gr420 | 3000   | L | 10 @250 TIES    | 131     |
| 1664                                 |    |    |     |           |      | 2   |      |   | 4 | 14  | 10m Gr420 | 720    | L | 10 @250 TIES    | 63      |
| 1665                                 |    |    |     |           |      |     |      |   | 4 | 14  | 10m Gr420 | 300    | L | 10 @250 LINKS   | 13      |
| 1666                                 |    |    |     |           |      |     |      |   |   |     |           |        |   |                 |         |
| 1667 >4TH FLR WALL FOURTH FLOOR WALL |    |    |     |           |      |     |      |   |   |     |           |        |   |                 |         |
| 1668 WALL W1 (11730 mm)              |    |    |     |           |      |     |      |   |   |     |           |        |   |                 |         |
| 1669                                 |    |    |     |           |      |     |      |   | 2 | 35  | 15m Gr420 | 4210   |   | 15 @350 VERT EF | 462     |
| 1670                                 |    |    |     |           |      |     |      |   | 2 | 12  | 15m Gr420 | 11730  |   | 15 @300 HOR EF  | 441     |
| 1671                                 |    |    |     |           |      |     |      |   | 6 | 4   | 15m Gr420 | 4210   |   | 4 15 ADDL VERT  | 158     |
| 1672                                 |    |    |     |           |      |     |      |   | 6 | 14  | 10m Gr420 | 700    | L | 10 @250 TIES    | 46      |
| 1673                                 |    |    |     |           |      |     |      |   | 2 | 60  | 15m Gr420 | 1390   | H | 15 @200 DWL EF  | 261     |
| 1674 ELEVATOR SHAFT WALL W1          |    |    |     |           |      |     |      |   |   |     |           |        |   |                 |         |
| 1675                                 |    |    |     |           |      |     |      |   | 2 | 94  | 15m Gr420 | 4210   |   | 15 @350 VERT EF | 1242    |
| 1676                                 |    |    |     |           |      |     |      |   | 2 | 12  | 15m Gr420 | 5730   |   | 15 @300 HOR EF  | 215     |
| 1677                                 |    |    |     |           |      |     |      |   | 2 | 12  | 15m Gr420 | 4680   |   | 15 @300 HOR EF  | 176     |
| 1678                                 |    |    |     |           |      |     |      |   | 2 | 12  | 15m Gr420 | 2580   |   | 15 @300 HOR EF  | 97      |
| 1679                                 |    |    |     |           |      |     |      |   | 2 | 12  | 15m Gr420 | 8400   |   | 15 @300 HOR EF  | 316     |

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## \*\* ESTIMATING BAR LIST \*\*

| LINE                    | LA | EP | A/D | STRUCTURE | MULT | REQ | CODE | + | X | QTY | SZ/GR     | LENGTH | B | COMMENT             | LINE KG |
|-------------------------|----|----|-----|-----------|------|-----|------|---|---|-----|-----------|--------|---|---------------------|---------|
| 1680                    |    |    |     |           |      | 2   |      |   | 2 | 12  | 15m Gr420 | 2900   |   | 15 @300 HOR EF      | 218     |
| 1681                    |    |    |     |           |      |     |      |   | 2 | 12  | 15m Gr420 | 5100   |   | 15 @300 HOR EF      | 192     |
| 1682                    |    |    |     |           |      | 8   |      |   | 2 | 12  | 15m Gr420 | 2000   | H | 15 @300 COR EF      | 602     |
| 1683                    |    |    |     |           |      |     |      |   | 2 | 163 | 15m Gr420 | 1390   | H | 15 @200 DWL EF      | 711     |
| 1684                    |    |    |     |           |      |     |      |   | 3 | 6   | 15m Gr420 | 4210   |   | 6 15@150 ADDL VERT  | 118     |
| 1685                    |    |    |     |           |      |     |      |   | 3 | 12  | 10m Gr420 | 1350   | L | 10 @300 TIES        | 38      |
| 1686                    |    |    |     |           |      |     |      |   | 2 | 4   | 15m Gr420 | 4210   |   | 4 15@150 ADDL VERT  | 53      |
| 1687                    |    |    |     |           |      |     |      |   | 2 | 12  | 10m Gr420 | 1000   | L | 10 @300 TIES        | 18      |
| 1688                    |    |    |     |           |      |     |      |   | 5 | 12  | 15m Gr420 | 4210   |   | 12 15@150 ADDL VERT | 396     |
| 1689                    |    |    |     |           |      |     |      |   | 5 | 12  | 10m Gr420 | 2260   | L | 10 @300 TIES        | 106     |
| 1690                    |    |    |     |           |      |     |      |   | 5 | 12  | 10m Gr420 | 1000   | L | 10 @300 TIES        | 47      |
| 1691                    |    |    |     |           |      |     |      |   |   | 20  | 15m Gr420 | 4210   |   | 20 15@150 ADDL VERT | 131     |
| 1692                    |    |    |     |           |      |     |      |   |   | 12  | 10m Gr420 | 2175   | L | 10 @300 TIES        | 20      |
| 1693                    |    |    |     |           |      |     |      |   |   | 12  | 10m Gr420 | 1975   | L | 10 @300 TIES        | 18      |
| 1694                    |    |    |     |           |      |     |      |   | 2 | 12  | 10m Gr420 | 1000   | L | 10 @300 TIES        | 18      |
| 1695                    |    |    |     |           |      |     |      |   |   | 14  | 15m Gr420 | 4210   |   | 14 15@150 ADDL VERT | 92      |
| 1696                    |    |    |     |           |      |     |      |   |   | 12  | 10m Gr420 | 2200   | L | 10 @300 TIES        | 20      |
| 1697                    |    |    |     |           |      |     |      |   |   | 12  | 10m Gr420 | 1850   | L | 10 @300 TIES        | 17      |
| 1698                    |    |    |     |           |      |     |      |   |   | 12  | 10m Gr420 | 900    | L | 10 @300 TIES        | 8       |
| 1699                    |    |    |     |           |      |     |      |   | 2 | 163 | 15m Gr420 | 1390   | H | 15 @200 DWL EF      | 711     |
| 1700 STAIR CORE WALL W1 |    |    |     |           |      |     |      |   |   |     |           |        |   |                     |         |
| 1701                    |    |    |     |           |      |     |      |   | 2 | 56  | 15m Gr420 | 4210   |   | 15 @350 VERT EF     | 740     |
| 1702                    |    |    |     |           |      |     |      |   | 2 | 12  | 15m Gr420 | 5920   |   | 15 @300 HOR EF      | 223     |

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**\*\* ESTIMATING BAR LIST \*\***

| LINE                    | LA | EP | A/D | STRUCTURE | MULT | REQ | CODE | + | X  | QTY | SZ/GR     | LENGTH | B | COMMENT             | LINE KG |
|-------------------------|----|----|-----|-----------|------|-----|------|---|----|-----|-----------|--------|---|---------------------|---------|
| 1703                    |    |    |     |           |      | 2   |      |   | 2  | 12  | 15m Gr420 | 5100   |   | 15 @300 HOR EF      | 384     |
| 1704                    |    |    |     |           |      |     |      |   | 2  | 12  | 15m Gr420 | 2910   |   | 15 @300 HOR EF      | 109     |
| 1705                    |    |    |     |           |      | 4   |      |   | 2  | 12  | 15m Gr420 | 2000   | H | 15 @300 COR EF      | 301     |
| 1706                    |    |    |     |           |      | 3   |      |   |    | 20  | 20m Gr420 | 4210   |   | 20 20@150 ADDL VERT | 594     |
| 1707                    |    |    |     |           |      | 3   |      |   | 2  | 12  | 10m Gr420 | 2200   | L | 10 @300 TIES        | 124     |
| 1708                    |    |    |     |           |      | 3   |      |   | 2  | 12  | 10m Gr420 | 900    | L | 10 @300 TIES        | 50      |
| 1709                    |    |    |     |           |      | 2   |      |   |    | 16  | 20m Gr420 | 4210   |   | 16 20@150 ADDL VERT | 317     |
| 1710                    |    |    |     |           |      | 2   |      |   |    | 12  | 10m Gr420 | 2840   | L | 10 @300 TIES        | 53      |
| 1711                    |    |    |     |           |      | 2   |      |   |    | 12  | 10m Gr420 | 900    | L | 10 @300 TIES        | 16      |
| 1712                    |    |    |     |           |      |     |      |   | 2  | 98  | 15m Gr420 | 1390   | H | 15 @200 DWL EF      | 427     |
| 1713 WALL W2 (3850 mm)  |    |    |     |           |      |     |      |   |    |     |           |        |   |                     |         |
| 1714                    |    |    |     |           |      |     |      |   | 2  | 13  | 15m Gr420 | 4210   |   | 15 @350 VERT EF     | 171     |
| 1715                    |    |    |     |           |      |     |      |   | 2  | 12  | 15m Gr420 | 3430   |   | 15 @300 HOR EF      | 129     |
| 1716                    |    |    |     |           |      |     |      |   | 4  | 6   | 15m Gr420 | 4210   |   | 6 15 ADDL VERT      | 158     |
| 1717                    |    |    |     |           |      |     |      |   | 4  | 14  | 10m Gr420 | 800    | L | 10 @250 TIES        | 34      |
| 1718                    |    |    |     |           |      |     |      |   | 2  | 21  | 15m Gr420 | 1390   | H | 15 @200 DWL EF      | 91      |
| 1719 WALL W3 (74125 mm) |    |    |     |           |      |     |      |   |    |     |           |        |   |                     |         |
| 1720                    |    |    |     |           |      |     |      |   | 2  | 213 | 15m Gr420 | 4210   |   | 15 @350 VERT EF     | 2815    |
| 1721                    |    |    |     |           |      |     |      |   | 2  | 12  | 15m Gr420 | 77800  |   | 15 @300 HOR EF      | 2931    |
| 1722                    |    |    |     |           |      |     |      |   | 44 | 8   | 15m Gr420 | 4210   |   | 8 15 ADDL VERT      | 2326    |
| 1723                    |    |    |     |           |      |     |      |   | 44 | 14  | 10m Gr420 | 1000   | L | 10 @250 TIES        | 483     |
| 1724                    |    |    |     |           |      |     |      |   | 2  | 372 | 15m Gr420 | 1390   | H | 15 @200 DWL EF      | 1623    |
| 1725 WALL W4 (26425 mm) |    |    |     |           |      |     |      |   |    |     |           |        |   |                     |         |

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## \*\* ESTIMATING BAR LIST \*\*

| LINE                    | LA | EP | A/D | STRUCTURE     | MULT | REQ | CODE | + | X  | QTY  | SZ/GR            | LENGTH | B | COMMENT           | LINE KG |
|-------------------------|----|----|-----|---------------|------|-----|------|---|----|------|------------------|--------|---|-------------------|---------|
| 1726                    |    |    |     |               |      |     |      |   | 2  | 77   | 15m Gr420        | 4210   |   | 15 @350 VERT EF   | 1017    |
| 1727                    |    |    |     |               |      |     |      |   | 2  | 12   | 15m Gr420        | 27800  |   | 15 @300 HOR EF    | 1047    |
| 1728                    |    |    |     |               |      |     |      |   | 8  | 12   | 15m Gr420        | 4210   |   | 12 15 ADDL VERT   | 634     |
| 1729                    |    |    |     |               |      |     |      |   | 8  | 14   | 10m Gr420        | 1300   | L | 10 @250 TIES      | 114     |
| 1730                    |    |    |     |               |      |     |      |   | 2  | 135  | 15m Gr420        | 1390   | H | 15 @200 DWL EF    | 589     |
| 1731 WALL W5 (37725 mm) |    |    |     |               |      |     |      |   |    |      |                  |        |   |                   |         |
| 1732                    |    |    |     |               |      |     |      |   | 2  | 109  | 15m Gr420        | 4210   |   | 15 @350 VERT EF   | 1441    |
| 1733                    |    |    |     |               |      |     |      |   | 2  | 12   | 15m Gr420        | 39590  |   | 15 @300 HOR EF    | 1491    |
| 1734                    |    |    |     |               |      |     |      |   | 6  | 16   | 15m Gr420        | 4210   |   | 16 15 ADDL VERT   | 634     |
| 1735                    |    |    |     |               |      |     |      |   | 6  | 14   | 10m Gr420        | 1600   | L | 10 @250 TIES      | 105     |
| 1736                    |    |    |     |               |      |     |      |   | 2  | 190  | 15m Gr420        | 1390   | H | 15 @200 DWL EF    | 829     |
| 1737                    |    |    |     |               |      |     |      |   |    |      |                  |        |   |                   |         |
| 1738                    |    |    |     | >5RD FLR SLAB |      |     |      |   |    |      | FIFTH FLOOR SLAB |        |   |                   |         |
| 1739                    |    |    |     |               |      |     |      |   | 2  | 685  | 15m Gr420        | 12192  |   | 15@450 T&B EW     | 26224   |
| 1740                    |    |    |     |               |      |     |      |   |    | 1130 | 15m Gr420        | 1625   | L | 15 STANDEE        | 2883    |
| 1741                    |    |    |     |               |      |     |      |   |    | 27   | 15m Gr420        | 7000   |   | 27 15@450 T ADDL  | 296     |
| 1742                    |    |    |     |               |      |     |      |   |    | 27   | 15m Gr420        | 1750   | L | 15@450 T ADDL     | 74      |
| 1743                    |    |    |     |               |      |     |      |   | 2  | 2    | 15m Gr420        | 6335   |   | 2 15@300 T&B ADDL | 39      |
| 1744                    |    |    |     |               |      |     |      |   | 10 | 2    | 15m Gr420        | 3270   |   | 2 15@300 T&B ADDL | 102     |
| 1745                    |    |    |     |               |      |     |      |   |    | 6    | 10m Gr420        | 6700   |   | 10@450 B ADDL     | 31      |
| 1746                    |    |    |     |               |      |     |      |   |    | 27   | 10m Gr420        | 5900   |   | 10@450 B ADDL     | 124     |
| 1747                    |    |    |     |               |      |     |      |   | 12 | 2    | 15m Gr420        | 2500   |   | 2 15 T ADDL       | 94      |
| 1748                    |    |    |     |               |      |     |      |   | 2  | 1    | 15m Gr420        | 2500   |   | 1 15 MT ADDL      | 7       |

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## \*\* ESTIMATING BAR LIST \*\*

| LINE | LA | EP | A/D | STRUCTURE | MULT | REQ | CODE | + | X | QTY | SZ/GR     | LENGTH | B | COMMENT           | LINE KG |
|------|----|----|-----|-----------|------|-----|------|---|---|-----|-----------|--------|---|-------------------|---------|
| 1749 |    |    |     |           |      |     |      |   |   | 1   | 15m Gr420 | 5000   |   | 1 15 MB ADDL      | 7       |
| 1750 |    |    |     |           |      |     |      |   |   | 14  | 10m Gr420 | 5000   |   | 10@450 B ADDL     | 54      |
| 1751 |    |    |     |           |      |     |      |   |   | 23  | 10m Gr420 | 6500   |   | 10@450 B ADDL     | 117     |
| 1752 |    |    |     |           |      |     |      |   |   | 31  | 20m Gr420 | 3500   |   | 31 20@450 T ADDL  | 255     |
| 1753 |    |    |     |           |      |     |      |   |   | 8   | 10m Gr420 | 7500   |   | 10@450 B ADDL     | 47      |
| 1754 |    |    |     |           |      |     |      |   |   | 5   | 15m Gr420 | 2750   |   | 5 15@450 T ADDL   | 21      |
| 1755 |    |    |     |           |      |     |      |   |   | 7   | 15m Gr420 | 13500  |   | 10@450 B ADDL     | 148     |
| 1756 |    |    |     |           |      |     |      |   | 2 | 7   | 15m Gr420 | 1700   | L | 15@450 T ADDL     | 37      |
| 1757 |    |    |     |           |      |     |      |   | 2 | 2   | 15m Gr420 | 13000  |   | 2 15@300 T&B ADDL | 40      |
| 1758 |    |    |     |           |      |     |      |   | 2 | 2   | 15m Gr420 | 5000   | L | 2 15@450 T ADDL   | 15      |
| 1759 |    |    |     |           |      |     |      |   | 2 | 6   | 20m Gr420 | 7000   |   | 6 20@450 T ADDL   | 197     |
| 1760 |    |    |     |           |      |     |      |   |   | 7   | 20m Gr420 | 4500   |   | 7 20@450 T ADDL   | 73      |
| 1761 |    |    |     |           |      |     |      |   |   | 20  | 10m Gr420 | 4500   |   | 10@450 B ADDL     | 70      |
| 1762 |    |    |     |           |      |     |      |   |   | 6   | 15m Gr420 | 2600   |   | 6 15@600 MT ADDL  | 24      |
| 1763 |    |    |     |           |      |     |      |   |   | 2   | 15m Gr420 | 2000   |   | 2 15@300 T&B ADDL | 6       |
| 1764 |    |    |     |           |      |     |      |   |   | 7   | 15m Gr420 | 6700   |   | 15@450 B ADDL     | 73      |
| 1765 |    |    |     |           |      |     |      |   |   | 16  | 15m Gr420 | 3400   |   | 2 15@300 T&B ADDL | 85      |
| 1766 |    |    |     |           |      |     |      |   |   | 8   | 10m Gr420 | 7500   |   | 10@450 B ADDL     | 47      |
| 1767 |    |    |     |           |      |     |      |   |   | 5   | 20m Gr420 | 10000  |   | 5 20@450 T ADDL   | 117     |
| 1768 |    |    |     |           |      |     |      |   |   | 14  | 10m Gr420 | 5000   |   | 10@450 B ADDL     | 54      |
| 1769 |    |    |     |           |      |     |      |   |   | 9   | 20m Gr420 | 4000   |   | 9 20@450 T ADDL   | 84      |
| 1770 |    |    |     |           |      |     |      |   |   | 2   | 15m Gr420 | 3500   |   | 2 15@450 T ADDL   | 10      |
| 1771 |    |    |     |           |      |     |      |   |   | 8   | 20m Gr420 | 3500   |   | 8 20@450 T ADDL   | 65      |

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|------|----|----|-----|-----------|------|-----|------|---|---|-----|-----------|--------|---|-------------------|---------|
| 1772 |    |    |     |           |      |     |      |   |   | 23  | 10m Gr420 | 8000   |   | 10@450 B ADDL     | 144     |
| 1773 |    |    |     |           |      |     |      |   |   | 4   | 10m Gr420 | 5000   |   | 10@450 B ADDL     | 15      |
| 1774 |    |    |     |           |      |     |      |   |   | 4   | 10m Gr420 | 6000   |   | 10@450 B ADDL     | 18      |
| 1775 |    |    |     |           |      |     |      |   |   | 8   | 20m Gr420 | 3000   | L | 8 20@450 T ADDL   | 56      |
| 1776 |    |    |     |           |      |     |      |   |   | 17  | 20m Gr420 | 3500   |   | 17 20@450 T ADDL  | 140     |
| 1777 |    |    |     |           |      |     |      |   |   | 15  | 10m Gr420 | 5500   |   | 10@450 B ADDL     | 64      |
| 1778 |    |    |     |           |      |     |      |   |   | 2   | 20m Gr420 | 6000   |   | 2 20@450 T ADDL   | 28      |
| 1779 |    |    |     |           |      |     |      |   |   | 4   | 15m Gr420 | 1750   | L | 4 15@450 T ADDL   | 10      |
| 1780 |    |    |     |           |      |     |      |   |   | 5   | 15m Gr420 | 6330   |   | 15@450 B ADDL     | 49      |
| 1781 |    |    |     |           |      |     |      |   | 2 | 2   | 15m Gr420 | 6000   |   | 2 15@450 T&B ADDL | 37      |
| 1782 |    |    |     |           |      |     |      |   |   | 4   | 15m Gr420 | 6050   |   | 15@450 B ADDL     | 38      |
| 1783 |    |    |     |           |      |     |      |   |   | 2   | 20m Gr420 | 3700   |   | 2 20@450 T ADDL   | 17      |
| 1784 |    |    |     |           |      |     |      |   |   | 4   | 20m Gr420 | 3000   |   | 4 20@450 T ADDL   | 28      |
| 1785 |    |    |     |           |      |     |      |   |   | 10  | 20m Gr420 | 3500   |   | 10 20@450 T ADDL  | 82      |
| 1786 |    |    |     |           |      |     |      |   |   | 5   | 15m Gr420 | 3500   |   | 5 15@450 T ADDL   | 27      |
| 1787 |    |    |     |           |      |     |      |   |   | 8   | 15m Gr420 | 3500   |   | 8 15@450 T ADDL   | 43      |
| 1788 |    |    |     |           |      |     |      |   | 2 | 2   | 20m Gr420 | 9000   |   | 2 20 ADDL         | 84      |
| 1789 |    |    |     |           |      |     |      |   |   | 9   | 20m Gr420 | 3500   |   | 9 20@450 T ADDL   | 73      |
| 1790 |    |    |     |           |      |     |      |   | 2 | 9   | 15m Gr420 | 1750   | L | 15@450 T ADDL     | 49      |
| 1791 |    |    |     |           |      |     |      |   |   | 6   | 15m Gr420 | 2000   | L | 6 15@500 MT ADDL  | 19      |
| 1792 |    |    |     |           |      |     |      |   |   | 10  | 20m Gr420 | 7000   |   | 10 20 ADDL        | 164     |
| 1793 |    |    |     |           |      |     |      |   |   | 16  | 15m Gr420 | 5000   |   | 15@450 B ADDL     | 125     |
| 1794 |    |    |     |           |      |     |      |   |   | 20  | 15m Gr420 | 4500   |   | 20 15@450 MT ADDL | 141     |

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## \*\* ESTIMATING BAR LIST \*\*

| LINE | LA | EP | A/D | STRUCTURE | MULT | REQ | CODE | + | X  | QTY | SZ/GR     | LENGTH | B | COMMENT           | LINE KG |
|------|----|----|-----|-----------|------|-----|------|---|----|-----|-----------|--------|---|-------------------|---------|
| 1795 |    |    |     |           |      |     |      |   |    | 35  | 15m Gr420 | 7000   |   | 15@450 T ADDL     | 384     |
| 1796 |    |    |     |           |      |     |      |   | 2  | 16  | 15m Gr420 | 3000   |   | 2 15 T ADDL       | 150     |
| 1797 |    |    |     |           |      |     |      |   |    | 16  | 20m Gr420 | 3500   |   | 16 20@450 T ADDL  | 131     |
| 1798 |    |    |     |           |      |     |      |   |    | 26  | 10m Gr420 | 5000   |   | 10@450 B ADDL     | 102     |
| 1799 |    |    |     |           |      |     |      |   |    | 5   | 15m Gr420 | 3500   |   | 5 15@450 MT ADDL  | 27      |
| 1800 |    |    |     |           |      |     |      |   |    | 17  | 20m Gr420 | 3500   |   | 17 20@450 T ADDL  | 140     |
| 1801 |    |    |     |           |      |     |      |   |    | 8   | 20m Gr420 | 3000   | L | 8 20@450 T ADDL   | 56      |
| 1802 |    |    |     |           |      |     |      |   |    | 4   | 10m Gr420 | 6000   |   | 10@450 B ADDL     | 18      |
| 1803 |    |    |     |           |      |     |      |   |    | 4   | 15m Gr420 | 5000   |   | 15@450 B ADDL     | 31      |
| 1804 |    |    |     |           |      |     |      |   |    | 16  | 10m Gr420 | 5500   |   | 10@450 B ADDL     | 68      |
| 1805 |    |    |     |           |      |     |      |   |    | 2   | 20m Gr420 | 6000   |   | 2 20@450 T ADDL   | 28      |
| 1806 |    |    |     |           |      |     |      |   |    | 4   | 15m Gr420 | 1750   | L | 4 15@450 T ADDL   | 10      |
| 1807 |    |    |     |           |      |     |      |   |    | 8   | 15m Gr420 | 6400   |   | 15@450 B ADDL     | 80      |
| 1808 |    |    |     |           |      |     |      |   |    | 4   | 15m Gr420 | 6000   |   | 15@450 B ADDL     | 37      |
| 1809 |    |    |     |           |      |     |      |   | 2  | 2   | 15m Gr420 | 6070   |   | 15@300 T&B ADDL   | 38      |
| 1810 |    |    |     |           |      |     |      |   |    | 10  | 20m Gr420 | 3500   |   | 10 20@450 T ADDL  | 82      |
| 1811 |    |    |     |           |      |     |      |   |    | 4   | 20m Gr420 | 3000   |   | 4 20@450 T ADDL   | 28      |
| 1812 |    |    |     |           |      |     |      |   |    | 2   | 20m Gr420 | 2170   |   | 4 20@450 T ADDL   | 10      |
| 1813 |    |    |     |           |      |     |      |   | 2  | 2   | 15m Gr420 | 3260   |   | 2 15@450 T&B ADDL | 20      |
| 1814 |    |    |     |           |      |     |      |   |    | 9   | 15m Gr420 | 1700   | L | 15@450 T ADDL     | 24      |
| 1815 |    |    |     |           |      |     |      |   | 2  | 6   | 10m Gr420 | 6700   |   | 10@450 B ADDL     | 63      |
| 1816 |    |    |     |           |      |     |      |   | 10 | 2   | 15m Gr420 | 3300   |   | 2 15@300 T&B ADDL | 103     |
| 1817 |    |    |     |           |      |     |      |   | 2  | 2   | 15m Gr420 | 27950  |   | 2 15@300 T&B ADDL | 175     |

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## \*\* ESTIMATING BAR LIST \*\*

| LINE | LA | EP | A/D | STRUCTURE | MULT | REQ | CODE | + | X | QTY | SZ/GR     | LENGTH | B | COMMENT           | LINE KG |
|------|----|----|-----|-----------|------|-----|------|---|---|-----|-----------|--------|---|-------------------|---------|
| 1818 |    |    |     |           |      |     |      |   | 2 | 30  | 15m Gr420 | 7000   |   | 30 15@450 T ADDL  | 659     |
| 1819 |    |    |     |           |      |     |      |   |   | 9   | 10m Gr420 | 5000   |   | 10@450 B ADDL     | 35      |
| 1820 |    |    |     |           |      |     |      |   |   | 39  | 10m Gr420 | 5000   |   | 10@450 B ADDL     | 152     |
| 1821 |    |    |     |           |      |     |      |   | 2 | 2   | 15m Gr420 | 5000   |   | 2 15 T ADDL       | 31      |
| 1822 |    |    |     |           |      |     |      |   |   | 33  | 15m Gr420 | 5100   |   | 10@450 B ADDL     | 264     |
| 1823 |    |    |     |           |      |     |      |   |   | 29  | 15m Gr420 | 1750   | L | 15@450 T ADDL     | 79      |
| 1824 |    |    |     |           |      |     |      |   |   | 13  | 15m Gr420 | 7500   |   | 15@450 B ADDL     | 152     |
| 1825 |    |    |     |           |      |     |      |   |   | 8   | 15m Gr420 | 5000   |   | 15@450 B ADDL     | 62      |
| 1826 |    |    |     |           |      |     |      |   | 4 | 2   | 15m Gr420 | 4500   |   | 2 15@300 T&B ADDL | 56      |
| 1827 |    |    |     |           |      |     |      |   | 2 | 2   | 15m Gr420 | 6550   |   | 2 15@300 T&B ADDL | 41      |
| 1828 |    |    |     |           |      |     |      |   |   | 2   | 15m Gr420 | 2500   |   | 2 15 MT ADDL      | 7       |
| 1829 |    |    |     |           |      |     |      |   |   | 30  | 15m Gr420 | 4000   |   | 30 15@450 T ADDL  | 188     |
| 1830 |    |    |     |           |      |     |      |   |   | 26  | 10m Gr420 | 10330  |   | 10@450 B ADDL     | 210     |
| 1831 |    |    |     |           |      |     |      |   |   | 5   | 15m Gr420 | 8500   |   | 5 15@450 T ADDL   | 66      |
| 1832 |    |    |     |           |      |     |      |   |   | 6   | 20m Gr420 | 5000   | L | 6 20@450 T ADDL   | 70      |
| 1833 |    |    |     |           |      |     |      |   |   | 6   | 20m Gr420 | 1750   | L | 6 20@450 T ADDL   | 24      |
| 1834 |    |    |     |           |      |     |      |   |   | 14  | 15m Gr420 | 1750   | L | 15@450 T ADDL     | 38      |
| 1835 |    |    |     |           |      |     |      |   |   | 3   | 15m Gr420 | 1700   | L | 3 15@450 T ADDL   | 8       |
| 1836 |    |    |     |           |      |     |      |   |   | 4   | 15m Gr420 | 3500   | L | 4 15@450 T ADDL   | 21      |
| 1837 |    |    |     |           |      |     |      |   |   | 5   | 15m Gr420 | 7000   |   | 5 15@450 T ADDL   | 54      |
| 1838 |    |    |     |           |      |     |      |   |   | 11  | 10m Gr420 | 5000   |   | 10@450 B ADDL     | 43      |
| 1839 |    |    |     |           |      |     |      |   |   | 7   | 15m Gr420 | 6700   |   | 15@450 B ADDL     | 73      |
| 1840 |    |    |     |           |      |     |      |   | 2 | 2   | 15m Gr420 | 6400   |   | 2 15@300 T&B ADDL | 40      |

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## \*\* ESTIMATING BAR LIST \*\*

| LINE | LA                              | EP | A/D | STRUCTURE | MULT | REQ | CODE | + | X  | QTY | SZ/GR     | LENGTH | B | COMMENT           | LINE KG |
|------|---------------------------------|----|-----|-----------|------|-----|------|---|----|-----|-----------|--------|---|-------------------|---------|
| 1841 |                                 |    |     |           |      |     |      |   | 2  | 2   | 15m Gr420 | 1930   |   | 2 15@300 T&B ADDL | 12      |
| 1842 |                                 |    |     |           |      |     |      |   | 2  | 2   | 15m Gr420 | 3330   |   | 2 15@300 T&B ADDL | 20      |
| 1843 |                                 |    |     |           |      |     |      |   | 2  | 2   | 15m Gr420 | 6400   |   | 2 15@300 T&B ADDL | 40      |
| 1844 |                                 |    |     |           |      |     |      |   |    | 6   | 15m Gr420 | 1700   | L | 15@450 T ADDL     | 15      |
| 1845 |                                 |    |     |           |      |     |      |   | 40 | 3   | 10m Gr420 | 700    | L | 3 10@100 STIRR    | 65      |
| 1846 |                                 |    |     |           |      |     |      |   | 2  | 18  | 15m Gr420 | 12192  |   | 1 15 CONT T&B     | 689     |
| 1847 |                                 |    |     |           |      |     |      |   | 2  | 18  | 15m Gr420 | 12192  |   | 2 15@200 B CONT   | 689     |
| 1848 |                                 |    |     |           |      |     |      |   |    |     |           |        |   |                   |         |
| 1849 | >5TH FLR COL FIFTH FLOOR COLUMN |    |     |           |      |     |      |   |    |     |           |        |   |                   |         |
| 1850 | COLUMN MARK C2 (20 LOC)         |    |     |           |      |     |      |   |    |     |           |        |   |                   |         |
| 1851 |                                 |    |     |           |      |     |      |   | 20 | 8   | 20m Gr420 | 4210   | H | 8 20 VERT         | 1585    |
| 1852 |                                 |    |     |           |      |     |      |   | 20 | 12  | 10m Gr420 | 1400   | L | 10 @300 TIES      | 263     |
| 1853 | COLUMN MARK C5 (2 LOC)          |    |     |           |      |     |      |   |    |     |           |        |   |                   |         |
| 1854 |                                 |    |     |           |      |     |      |   | 2  | 14  | 20m Gr420 | 4210   | H | 14 20 VERT        | 277     |
| 1855 |                                 |    |     |           |      |     |      |   | 2  | 14  | 10m Gr420 | 2580   | L | 10 @250 TIES      | 56      |
| 1856 |                                 |    |     |           |      |     |      |   | 2  | 14  | 10m Gr420 | 1100   | L | 10 @250 TIES      | 24      |
| 1857 | COLUMN MARK C8 (2 LOC)          |    |     |           |      |     |      |   |    |     |           |        |   |                   |         |
| 1858 |                                 |    |     |           |      |     |      |   | 2  | 14  | 20m Gr420 | 4210   | H | 14 20 VERT        | 277     |
| 1859 |                                 |    |     |           |      |     |      |   | 2  | 14  | 10m Gr420 | 2900   | L | 10 @250 TIES      | 63      |
| 1860 |                                 |    |     |           |      | 2   |      |   | 2  | 14  | 10m Gr420 | 720    | L | 10 @250 TIES      | 31      |
| 1861 |                                 |    |     |           |      |     |      |   | 2  | 14  | 10m Gr420 | 300    | L | 10 @250 LINKS     | 6       |
| 1862 | COLUMN MARK C9 (4 LOC)          |    |     |           |      |     |      |   |    |     |           |        |   |                   |         |
| 1863 |                                 |    |     |           |      |     |      |   | 4  | 14  | 20m Gr420 | 4210   | H | 14 20 VERT        | 555     |

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## \*\* ESTIMATING BAR LIST \*\*

| LINE | LA | EP | A/D | STRUCTURE              | MULT | REQ | CODE | + | X | QTY | SZ/GR            | LENGTH | B | COMMENT            | LINE KG |
|------|----|----|-----|------------------------|------|-----|------|---|---|-----|------------------|--------|---|--------------------|---------|
| 1864 |    |    |     |                        |      |     |      |   | 4 | 14  | 10m Gr420        | 3000   | L | 10 @250 TIES       | 131     |
| 1865 |    |    |     |                        |      | 2   |      |   | 4 | 14  | 10m Gr420        | 720    | L | 10 @250 TIES       | 63      |
| 1866 |    |    |     |                        |      |     |      |   | 4 | 14  | 10m Gr420        | 300    | L | 10 @250 LINKS      | 13      |
| 1867 |    |    |     |                        |      |     |      |   |   |     |                  |        |   |                    |         |
| 1868 |    |    |     | >5TH FLR WALL          |      |     |      |   |   |     | FIFTH FLOOR WALL |        |   |                    |         |
| 1869 |    |    |     | WALL W1 (11730 mm)     |      |     |      |   |   |     |                  |        |   |                    |         |
| 1870 |    |    |     |                        |      |     |      |   | 2 | 35  | 15m Gr420        | 4210   |   | 15 @350 VERT EF    | 462     |
| 1871 |    |    |     |                        |      |     |      |   | 2 | 12  | 15m Gr420        | 11730  |   | 15 @300 HOR EF     | 441     |
| 1872 |    |    |     |                        |      |     |      |   | 6 | 4   | 15m Gr420        | 4210   |   | 4 15 ADDL VERT     | 158     |
| 1873 |    |    |     |                        |      |     |      |   | 6 | 14  | 10m Gr420        | 700    | L | 10 @250 TIES       | 46      |
| 1874 |    |    |     |                        |      |     |      |   | 2 | 60  | 15m Gr420        | 1390   | H | 15 @200 DWL EF     | 261     |
| 1875 |    |    |     | ELEVATOR SHAFT WALL W1 |      |     |      |   |   |     |                  |        |   |                    |         |
| 1876 |    |    |     |                        |      |     |      |   | 2 | 94  | 15m Gr420        | 4210   |   | 15 @350 VERT EF    | 1242    |
| 1877 |    |    |     |                        |      |     |      |   | 2 | 12  | 15m Gr420        | 5730   |   | 15 @300 HOR EF     | 215     |
| 1878 |    |    |     |                        |      |     |      |   | 2 | 12  | 15m Gr420        | 4680   |   | 15 @300 HOR EF     | 176     |
| 1879 |    |    |     |                        |      |     |      |   | 2 | 12  | 15m Gr420        | 2580   |   | 15 @300 HOR EF     | 97      |
| 1880 |    |    |     |                        |      |     |      |   | 2 | 12  | 15m Gr420        | 8400   |   | 15 @300 HOR EF     | 316     |
| 1881 |    |    |     |                        |      | 2   |      |   | 2 | 12  | 15m Gr420        | 2900   |   | 15 @300 HOR EF     | 218     |
| 1882 |    |    |     |                        |      |     |      |   | 2 | 12  | 15m Gr420        | 5100   |   | 15 @300 HOR EF     | 192     |
| 1883 |    |    |     |                        |      | 8   |      |   | 2 | 12  | 15m Gr420        | 2000   | H | 15 @300 COR EF     | 602     |
| 1884 |    |    |     |                        |      |     |      |   | 2 | 163 | 15m Gr420        | 1390   | H | 15 @200 DWL EF     | 711     |
| 1885 |    |    |     |                        |      |     |      |   | 3 | 6   | 15m Gr420        | 4210   |   | 6 15@150 ADDL VERT | 118     |
| 1886 |    |    |     |                        |      |     |      |   | 3 | 12  | 10m Gr420        | 1350   | L | 10 @300 TIES       | 38      |

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## \*\* ESTIMATING BAR LIST \*\*

| LINE                    | LA | EP | A/D | STRUCTURE | MULT | REQ | CODE | + | X | QTY | SZ/GR     | LENGTH | B | COMMENT             | LINE KG |
|-------------------------|----|----|-----|-----------|------|-----|------|---|---|-----|-----------|--------|---|---------------------|---------|
| 1887                    |    |    |     |           |      |     |      |   | 2 | 4   | 15m Gr420 | 4210   |   | 4 15@150 ADDL VERT  | 53      |
| 1888                    |    |    |     |           |      |     |      |   | 2 | 12  | 10m Gr420 | 1000   | L | 10 @300 TIES        | 18      |
| 1889                    |    |    |     |           |      |     |      |   | 5 | 12  | 15m Gr420 | 4210   |   | 12 15@150 ADDL VERT | 396     |
| 1890                    |    |    |     |           |      |     |      |   | 5 | 12  | 10m Gr420 | 2260   | L | 10 @300 TIES        | 106     |
| 1891                    |    |    |     |           |      |     |      |   | 5 | 12  | 10m Gr420 | 1000   | L | 10 @300 TIES        | 47      |
| 1892                    |    |    |     |           |      |     |      |   |   | 20  | 15m Gr420 | 4210   |   | 20 15@150 ADDL VERT | 131     |
| 1893                    |    |    |     |           |      |     |      |   |   | 12  | 10m Gr420 | 2175   | L | 10 @300 TIES        | 20      |
| 1894                    |    |    |     |           |      |     |      |   |   | 12  | 10m Gr420 | 1975   | L | 10 @300 TIES        | 18      |
| 1895                    |    |    |     |           |      |     |      |   | 2 | 12  | 10m Gr420 | 1000   | L | 10 @300 TIES        | 18      |
| 1896                    |    |    |     |           |      |     |      |   |   | 14  | 15m Gr420 | 4210   |   | 14 15@150 ADDL VERT | 92      |
| 1897                    |    |    |     |           |      |     |      |   |   | 12  | 10m Gr420 | 2200   | L | 10 @300 TIES        | 20      |
| 1898                    |    |    |     |           |      |     |      |   |   | 12  | 10m Gr420 | 1850   | L | 10 @300 TIES        | 17      |
| 1899                    |    |    |     |           |      |     |      |   |   | 12  | 10m Gr420 | 900    | L | 10 @300 TIES        | 8       |
| 1900                    |    |    |     |           |      |     |      |   | 2 | 163 | 15m Gr420 | 1390   | H | 15 @200 DWL EF      | 711     |
| 1901 STAIR CORE WALL W1 |    |    |     |           |      |     |      |   |   |     |           |        |   |                     |         |
| 1902                    |    |    |     |           |      |     |      |   | 2 | 56  | 15m Gr420 | 4210   |   | 15 @350 VERT EF     | 740     |
| 1903                    |    |    |     |           |      |     |      |   | 2 | 12  | 15m Gr420 | 5920   |   | 15 @300 HOR EF      | 223     |
| 1904                    |    |    |     |           |      | 2   |      |   | 2 | 12  | 15m Gr420 | 5100   |   | 15 @300 HOR EF      | 384     |
| 1905                    |    |    |     |           |      |     |      |   | 2 | 12  | 15m Gr420 | 2910   |   | 15 @300 HOR EF      | 109     |
| 1906                    |    |    |     |           |      | 4   |      |   | 2 | 12  | 15m Gr420 | 2000   | H | 15 @300 COR EF      | 301     |
| 1907                    |    |    |     |           |      | 3   |      |   |   | 20  | 20m Gr420 | 4210   |   | 20 20@150 ADDL VERT | 594     |
| 1908                    |    |    |     |           |      | 3   |      |   | 2 | 12  | 10m Gr420 | 2200   | L | 10 @300 TIES        | 124     |
| 1909                    |    |    |     |           |      | 3   |      |   | 2 | 12  | 10m Gr420 | 900    | L | 10 @300 TIES        | 50      |

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## \*\* ESTIMATING BAR LIST \*\*

| LINE | LA | EP | A/D | STRUCTURE     | MULT | REQ              | CODE | + | X  | QTY  | SZ/GR     | LENGTH | B | COMMENT           | LINE KG |
|------|----|----|-----|---------------|------|------------------|------|---|----|------|-----------|--------|---|-------------------|---------|
| 1933 |    |    |     |               |      |                  |      |   | 2  | 109  | 15m Gr420 | 4210   |   | 15 @350 VERT EF   | 1441    |
| 1934 |    |    |     |               |      |                  |      |   | 2  | 12   | 15m Gr420 | 39590  |   | 15 @300 HOR EF    | 1491    |
| 1935 |    |    |     |               |      |                  |      |   | 6  | 16   | 15m Gr420 | 4210   |   | 16 15 ADDL VERT   | 634     |
| 1936 |    |    |     |               |      |                  |      |   | 6  | 14   | 10m Gr420 | 1600   | L | 10 @250 TIES      | 105     |
| 1937 |    |    |     |               |      |                  |      |   | 2  | 190  | 15m Gr420 | 1390   | H | 15 @200 DWL EF    | 829     |
| 1938 |    |    |     |               |      |                  |      |   |    |      |           |        |   |                   |         |
| 1939 |    |    |     | >6TH FLR SLAB |      | SIXTH FLOOR SLAB |      |   |    |      |           |        |   |                   |         |
| 1940 |    |    |     |               |      |                  |      |   | 2  | 685  | 15m Gr420 | 12192  |   | 15@450 T&B EW     | 26224   |
| 1941 |    |    |     |               |      |                  |      |   |    | 1130 | 15m Gr420 | 1625   | L | 15 STANDEE        | 2883    |
| 1942 |    |    |     |               |      |                  |      |   |    | 27   | 15m Gr420 | 7000   |   | 27 15@450 T ADDL  | 296     |
| 1943 |    |    |     |               |      |                  |      |   |    | 27   | 15m Gr420 | 1750   | L | 15@450 T ADDL     | 74      |
| 1944 |    |    |     |               |      |                  |      |   | 2  | 2    | 15m Gr420 | 6335   |   | 2 15@300 T&B ADDL | 39      |
| 1945 |    |    |     |               |      |                  |      |   | 10 | 2    | 15m Gr420 | 3270   |   | 2 15@300 T&B ADDL | 102     |
| 1946 |    |    |     |               |      |                  |      |   |    | 6    | 10m Gr420 | 6700   |   | 10@450 B ADDL     | 31      |
| 1947 |    |    |     |               |      |                  |      |   |    | 27   | 10m Gr420 | 5900   |   | 10@450 B ADDL     | 124     |
| 1948 |    |    |     |               |      |                  |      |   | 12 | 2    | 15m Gr420 | 2500   |   | 2 15 T ADDL       | 94      |
| 1949 |    |    |     |               |      |                  |      |   | 2  | 8    | 15m Gr420 | 2500   |   | 1 15 MT ADDL      | 62      |
| 1950 |    |    |     |               |      |                  |      |   |    | 8    | 15m Gr420 | 5000   |   | 1 15 MB ADDL      | 62      |
| 1951 |    |    |     |               |      |                  |      |   |    | 14   | 10m Gr420 | 5000   |   | 10@450 B ADDL     | 54      |
| 1952 |    |    |     |               |      |                  |      |   |    | 31   | 20m Gr420 | 3500   |   | 31 20@450 T ADDL  | 255     |
| 1953 |    |    |     |               |      |                  |      |   |    | 23   | 10m Gr420 | 6500   |   | 10@450 B ADDL     | 117     |
| 1954 |    |    |     |               |      |                  |      |   |    | 8    | 10m Gr420 | 7500   |   | 10@450 B ADDL     | 47      |
| 1955 |    |    |     |               |      |                  |      |   |    | 5    | 15m Gr420 | 2750   |   | 5 15@450 T ADDL   | 21      |

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| LINE | LA | EP | A/D | STRUCTURE | MULT | REQ | CODE | + | X | QTY | SZ/GR     | LENGTH | B | COMMENT           | LINE KG |
|------|----|----|-----|-----------|------|-----|------|---|---|-----|-----------|--------|---|-------------------|---------|
| 1956 |    |    |     |           |      |     |      |   |   | 7   | 15m Gr420 | 13500  |   | 10@450 B ADDL     | 148     |
| 1957 |    |    |     |           |      |     |      |   | 2 | 7   | 15m Gr420 | 1700   | L | 15@450 T ADDL     | 37      |
| 1958 |    |    |     |           |      |     |      |   |   | 2   | 15m Gr420 | 13000  |   | 2 15@300 T&B ADDL | 40      |
| 1959 |    |    |     |           |      |     |      |   |   | 2   | 15m Gr420 | 5000   | L | 2 15@450 T ADDL   | 15      |
| 1960 |    |    |     |           |      |     |      |   | 2 | 6   | 20m Gr420 | 7000   |   | 6 20@450 T ADDL   | 197     |
| 1961 |    |    |     |           |      |     |      |   |   | 7   | 20m Gr420 | 4500   |   | 7 20@450 T ADDL   | 73      |
| 1962 |    |    |     |           |      |     |      |   |   | 20  | 10m Gr420 | 4500   |   | 10@450 B ADDL     | 70      |
| 1963 |    |    |     |           |      |     |      |   |   | 6   | 15m Gr420 | 2600   |   | 6 15@600 MT ADDL  | 24      |
| 1964 |    |    |     |           |      |     |      |   |   | 2   | 15m Gr420 | 2000   |   | 2 15@300 T&B ADDL | 6       |
| 1965 |    |    |     |           |      |     |      |   |   | 7   | 15m Gr420 | 6700   |   | 15@450 B ADDL     | 73      |
| 1966 |    |    |     |           |      |     |      |   |   | 2   | 15m Gr420 | 3400   |   | 2 15@300 T&B ADDL | 10      |
| 1967 |    |    |     |           |      |     |      |   |   | 8   | 10m Gr420 | 7500   |   | 10@450 B ADDL     | 47      |
| 1968 |    |    |     |           |      |     |      |   |   | 5   | 20m Gr420 | 10000  |   | 5 20@450 T ADDL   | 117     |
| 1969 |    |    |     |           |      |     |      |   |   | 14  | 10m Gr420 | 5000   |   | 10@450 B ADDL     | 54      |
| 1970 |    |    |     |           |      |     |      |   |   | 9   | 20m Gr420 | 4000   |   | 9 20@450 T ADDL   | 84      |
| 1971 |    |    |     |           |      |     |      |   |   | 2   | 15m Gr420 | 3500   |   | 2 15@450 T ADDL   | 10      |
| 1972 |    |    |     |           |      |     |      |   |   | 8   | 20m Gr420 | 3500   |   | 8 20@450 T ADDL   | 65      |
| 1973 |    |    |     |           |      |     |      |   |   | 23  | 10m Gr420 | 8000   |   | 10@450 B ADDL     | 144     |
| 1974 |    |    |     |           |      |     |      |   |   | 4   | 10m Gr420 | 5000   |   | 10@450 B ADDL     | 15      |
| 1975 |    |    |     |           |      |     |      |   |   | 4   | 10m Gr420 | 6000   |   | 10@450 B ADDL     | 18      |
| 1976 |    |    |     |           |      |     |      |   |   | 8   | 20m Gr420 | 3000   | L | 8 20@450 T ADDL   | 56      |
| 1977 |    |    |     |           |      |     |      |   |   | 17  | 20m Gr420 | 3500   |   | 17 20@450 T ADDL  | 140     |
| 1978 |    |    |     |           |      |     |      |   |   | 15  | 10m Gr420 | 5500   |   | 10@450 B ADDL     | 64      |

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## \*\* ESTIMATING BAR LIST \*\*

| LINE | LA | EP | A/D | STRUCTURE | MULT | REQ | CODE | + | X | QTY | SZ/GR     | LENGTH | B | COMMENT           | LINE KG |
|------|----|----|-----|-----------|------|-----|------|---|---|-----|-----------|--------|---|-------------------|---------|
| 1979 |    |    |     |           |      |     |      |   |   | 2   | 20m Gr420 | 6000   |   | 2 20@450 T ADDL   | 28      |
| 1980 |    |    |     |           |      |     |      |   |   | 4   | 15m Gr420 | 1750   | L | 4 15@450 T ADDL   | 10      |
| 1981 |    |    |     |           |      |     |      |   |   | 5   | 15m Gr420 | 6330   |   | 15@450 B ADDL     | 49      |
| 1982 |    |    |     |           |      |     |      |   | 2 | 2   | 15m Gr420 | 6000   |   | 2 15@450 T&B ADDL | 37      |
| 1983 |    |    |     |           |      |     |      |   |   | 4   | 15m Gr420 | 6050   |   | 15@450 B ADDL     | 38      |
| 1984 |    |    |     |           |      |     |      |   |   | 2   | 20m Gr420 | 3700   |   | 2 20@450 T ADDL   | 17      |
| 1985 |    |    |     |           |      |     |      |   |   | 4   | 20m Gr420 | 3000   |   | 4 20@450 T ADDL   | 28      |
| 1986 |    |    |     |           |      |     |      |   |   | 10  | 20m Gr420 | 3500   |   | 10 20@450 T ADDL  | 82      |
| 1987 |    |    |     |           |      |     |      |   |   | 5   | 15m Gr420 | 3500   |   | 5 15@450 T ADDL   | 27      |
| 1988 |    |    |     |           |      |     |      |   |   | 8   | 15m Gr420 | 3500   |   | 8 15@450 T ADDL   | 43      |
| 1989 |    |    |     |           |      |     |      |   | 2 | 2   | 20m Gr420 | 9000   |   | 2 20 ADDL         | 84      |
| 1990 |    |    |     |           |      |     |      |   |   | 9   | 20m Gr420 | 3500   |   | 9 20@450 T ADDL   | 73      |
| 1991 |    |    |     |           |      |     |      |   | 2 | 9   | 15m Gr420 | 1750   | L | 15@450 T ADDL     | 49      |
| 1992 |    |    |     |           |      |     |      |   |   | 6   | 15m Gr420 | 2000   | L | 6 15@500 MT ADDL  | 19      |
| 1993 |    |    |     |           |      |     |      |   |   | 10  | 20m Gr420 | 7000   |   | 10 20 ADDL        | 164     |
| 1994 |    |    |     |           |      |     |      |   |   | 16  | 15m Gr420 | 5000   |   | 15@450 B ADDL     | 125     |
| 1995 |    |    |     |           |      |     |      |   |   | 20  | 15m Gr420 | 4500   |   | 20 15@450 MT ADDL | 141     |
| 1996 |    |    |     |           |      |     |      |   |   | 35  | 15m Gr420 | 7000   |   | 15@450 T ADDL     | 384     |
| 1997 |    |    |     |           |      |     |      |   | 2 | 2   | 15m Gr420 | 3000   |   | 2 15 T ADDL       | 19      |
| 1998 |    |    |     |           |      |     |      |   |   | 16  | 20m Gr420 | 3500   |   | 16 20@450 T ADDL  | 131     |
| 1999 |    |    |     |           |      |     |      |   |   | 26  | 10m Gr420 | 5000   |   | 10@450 B ADDL     | 102     |
| 2000 |    |    |     |           |      |     |      |   |   | 5   | 15m Gr420 | 3500   |   | 5 15@450 MT ADDL  | 27      |
| 2001 |    |    |     |           |      |     |      |   |   | 17  | 20m Gr420 | 3500   |   | 17 20@450 T ADDL  | 140     |

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## \*\* ESTIMATING BAR LIST \*\*

| LINE | LA | EP | A/D | STRUCTURE | MULT | REQ | CODE | + | X  | QTY | SZ/GR     | LENGTH | B | COMMENT           | LINE KG |
|------|----|----|-----|-----------|------|-----|------|---|----|-----|-----------|--------|---|-------------------|---------|
| 2002 |    |    |     |           |      |     |      |   |    | 8   | 20m Gr420 | 3000   | L | 8 20@450 T ADDL   | 56      |
| 2003 |    |    |     |           |      |     |      |   |    | 4   | 10m Gr420 | 6000   |   | 10@450 B ADDL     | 18      |
| 2004 |    |    |     |           |      |     |      |   |    | 4   | 15m Gr420 | 5000   |   | 15@450 B ADDL     | 31      |
| 2005 |    |    |     |           |      |     |      |   |    | 16  | 10m Gr420 | 5500   |   | 10@450 B ADDL     | 68      |
| 2006 |    |    |     |           |      |     |      |   |    | 8   | 20m Gr420 | 6000   |   | 2 20@450 T ADDL   | 112     |
| 2007 |    |    |     |           |      |     |      |   |    | 4   | 15m Gr420 | 1750   | L | 4 15@450 T ADDL   | 10      |
| 2008 |    |    |     |           |      |     |      |   |    | 8   | 15m Gr420 | 6400   |   | 15@450 B ADDL     | 80      |
| 2009 |    |    |     |           |      |     |      |   |    | 4   | 15m Gr420 | 6000   |   | 15@450 B ADDL     | 37      |
| 2010 |    |    |     |           |      |     |      |   | 2  | 2   | 15m Gr420 | 6070   |   | 15@300 T&B ADDL   | 38      |
| 2011 |    |    |     |           |      |     |      |   |    | 10  | 20m Gr420 | 3500   |   | 10 20@450 T ADDL  | 82      |
| 2012 |    |    |     |           |      |     |      |   |    | 4   | 20m Gr420 | 3000   |   | 4 20@450 T ADDL   | 28      |
| 2013 |    |    |     |           |      |     |      |   |    | 2   | 20m Gr420 | 2170   |   | 4 20@450 T ADDL   | 10      |
| 2014 |    |    |     |           |      |     |      |   | 2  | 2   | 15m Gr420 | 3260   |   | 2 15@450 T&B ADDL | 20      |
| 2015 |    |    |     |           |      |     |      |   |    | 9   | 15m Gr420 | 1700   | L | 15@450 T ADDL     | 24      |
| 2016 |    |    |     |           |      |     |      |   | 2  | 6   | 10m Gr420 | 6700   |   | 10@450 B ADDL     | 63      |
| 2017 |    |    |     |           |      |     |      |   | 10 | 2   | 15m Gr420 | 3300   |   | 2 15@300 T&B ADDL | 103     |
| 2018 |    |    |     |           |      |     |      |   | 2  | 2   | 15m Gr420 | 27950  |   | 2 15@300 T&B ADDL | 175     |
| 2019 |    |    |     |           |      |     |      |   | 2  | 30  | 15m Gr420 | 7000   |   | 30 15@450 T ADDL  | 659     |
| 2020 |    |    |     |           |      |     |      |   |    | 9   | 10m Gr420 | 5000   |   | 10@450 B ADDL     | 35      |
| 2021 |    |    |     |           |      |     |      |   |    | 39  | 10m Gr420 | 5000   |   | 10@450 B ADDL     | 152     |
| 2022 |    |    |     |           |      |     |      |   | 2  | 2   | 15m Gr420 | 5000   |   | 2 15 T ADDL       | 31      |
| 2023 |    |    |     |           |      |     |      |   |    | 33  | 15m Gr420 | 5100   |   | 10@450 B ADDL     | 264     |
| 2024 |    |    |     |           |      |     |      |   |    | 29  | 15m Gr420 | 1750   | L | 15@450 T ADDL     | 79      |

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## \*\* ESTIMATING BAR LIST \*\*

| LINE | LA | EP | A/D | STRUCTURE | MULT | REQ | CODE | + | X  | QTY | SZ/GR     | LENGTH | B | COMMENT           | LINE KG |
|------|----|----|-----|-----------|------|-----|------|---|----|-----|-----------|--------|---|-------------------|---------|
| 2025 |    |    |     |           |      |     |      |   |    | 13  | 15m Gr420 | 7500   |   | 15@450 B ADDL     | 152     |
| 2026 |    |    |     |           |      |     |      |   |    | 8   | 15m Gr420 | 5000   |   | 15@450 B ADDL     | 62      |
| 2027 |    |    |     |           |      |     |      |   | 4  | 2   | 15m Gr420 | 4500   |   | 2 15@300 T&B ADDL | 56      |
| 2028 |    |    |     |           |      |     |      |   | 2  | 2   | 15m Gr420 | 6550   |   | 2 15@300 T&B ADDL | 41      |
| 2029 |    |    |     |           |      |     |      |   |    | 2   | 15m Gr420 | 2500   |   | 2 15 MT ADDL      | 7       |
| 2030 |    |    |     |           |      |     |      |   |    | 30  | 15m Gr420 | 4000   |   | 30 15@450 T ADDL  | 188     |
| 2031 |    |    |     |           |      |     |      |   |    | 26  | 10m Gr420 | 10330  |   | 10@450 B ADDL     | 210     |
| 2032 |    |    |     |           |      |     |      |   |    | 5   | 15m Gr420 | 8500   |   | 5 15@450 T ADDL   | 66      |
| 2033 |    |    |     |           |      |     |      |   |    | 6   | 20m Gr420 | 5000   | L | 6 20@450 T ADDL   | 70      |
| 2034 |    |    |     |           |      |     |      |   |    | 6   | 20m Gr420 | 1750   | L | 6 20@450 T ADDL   | 24      |
| 2035 |    |    |     |           |      |     |      |   |    | 14  | 15m Gr420 | 1750   | L | 15@450 T ADDL     | 38      |
| 2036 |    |    |     |           |      |     |      |   |    | 3   | 15m Gr420 | 1700   | L | 3 15@450 T ADDL   | 8       |
| 2037 |    |    |     |           |      |     |      |   |    | 16  | 15m Gr420 | 3500   | L | 4 15@450 T ADDL   | 87      |
| 2038 |    |    |     |           |      |     |      |   |    | 5   | 15m Gr420 | 7000   |   | 5 15@450 T ADDL   | 54      |
| 2039 |    |    |     |           |      |     |      |   |    | 11  | 10m Gr420 | 5000   |   | 10@450 B ADDL     | 43      |
| 2040 |    |    |     |           |      |     |      |   |    | 7   | 15m Gr420 | 6700   |   | 15@450 B ADDL     | 73      |
| 2041 |    |    |     |           |      |     |      |   | 2  | 2   | 15m Gr420 | 6400   |   | 2 15@300 T&B ADDL | 40      |
| 2042 |    |    |     |           |      |     |      |   | 2  | 2   | 15m Gr420 | 1930   |   | 2 15@300 T&B ADDL | 12      |
| 2043 |    |    |     |           |      |     |      |   | 2  | 2   | 15m Gr420 | 3330   |   | 2 15@300 T&B ADDL | 20      |
| 2044 |    |    |     |           |      |     |      |   | 2  | 2   | 15m Gr420 | 6400   |   | 2 15@300 T&B ADDL | 40      |
| 2045 |    |    |     |           |      |     |      |   |    | 6   | 15m Gr420 | 1700   | L | 15@450 T ADDL     | 15      |
| 2046 |    |    |     |           |      |     |      |   | 40 | 3   | 10m Gr420 | 700    | L | 3 10@100 STIRR    | 65      |
| 2047 |    |    |     |           |      |     |      |   | 2  | 18  | 15m Gr420 | 12192  |   | 1 15 CONT T&B     | 689     |

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## \*\* ESTIMATING BAR LIST \*\*

| LINE                        | LA | EP | A/D | STRUCTURE | MULT | REQ | CODE | + | X | QTY | SZ/GR     | LENGTH | B | COMMENT             | LINE KG |
|-----------------------------|----|----|-----|-----------|------|-----|------|---|---|-----|-----------|--------|---|---------------------|---------|
| 2071                        |    |    |     |           |      |     |      |   | 2 | 35  | 15m Gr420 | 4500   |   | 15 @350 VERT EF     | 494     |
| 2072                        |    |    |     |           |      |     |      |   | 2 | 13  | 15m Gr420 | 11730  |   | 15 @300 HOR EF      | 479     |
| 2073                        |    |    |     |           |      |     |      |   | 6 | 4   | 15m Gr420 | 4500   |   | 4 15 ADDL VERT      | 169     |
| 2074                        |    |    |     |           |      |     |      |   | 6 | 15  | 10m Gr420 | 700    | L | 10 @250 TIES        | 49      |
| 2075                        |    |    |     |           |      |     |      |   | 2 | 66  | 15m Gr420 | 1390   | H | 15 @200 DWL EF      | 288     |
| 2076 ELEVATOR SHAFT WALL W1 |    |    |     |           |      |     |      |   |   |     |           |        |   |                     |         |
| 2077                        |    |    |     |           |      |     |      |   | 2 | 94  | 15m Gr420 | 4500   |   | 15 @350 VERT EF     | 1328    |
| 2078                        |    |    |     |           |      |     |      |   | 2 | 13  | 15m Gr420 | 5730   |   | 15 @300 HOR EF      | 234     |
| 2079                        |    |    |     |           |      |     |      |   | 2 | 13  | 15m Gr420 | 4680   |   | 15 @300 HOR EF      | 190     |
| 2080                        |    |    |     |           |      |     |      |   | 2 | 13  | 15m Gr420 | 2580   |   | 15 @300 HOR EF      | 105     |
| 2081                        |    |    |     |           |      |     |      |   | 2 | 13  | 15m Gr420 | 8400   |   | 15 @300 HOR EF      | 342     |
| 2082                        |    |    |     |           |      | 2   |      |   | 2 | 13  | 15m Gr420 | 2900   |   | 15 @300 HOR EF      | 236     |
| 2083                        |    |    |     |           |      |     |      |   | 2 | 13  | 15m Gr420 | 5100   |   | 15 @300 HOR EF      | 208     |
| 2084                        |    |    |     |           |      | 8   |      |   | 2 | 13  | 15m Gr420 | 2000   | H | 15 @300 COR EF      | 653     |
| 2085                        |    |    |     |           |      |     |      |   | 2 | 163 | 15m Gr420 | 1390   | H | 15 @200 DWL EF      | 711     |
| 2086                        |    |    |     |           |      |     |      |   | 3 | 6   | 15m Gr420 | 4500   |   | 6 15@150 ADDL VERT  | 127     |
| 2087                        |    |    |     |           |      |     |      |   | 3 | 13  | 10m Gr420 | 1350   | L | 10 @300 TIES        | 41      |
| 2088                        |    |    |     |           |      |     |      |   | 2 | 8   | 15m Gr420 | 4500   |   | 4 15@150 ADDL VERT  | 112     |
| 2089                        |    |    |     |           |      |     |      |   | 2 | 13  | 10m Gr420 | 1000   | L | 10 @300 TIES        | 20      |
| 2090                        |    |    |     |           |      |     |      |   | 5 | 12  | 15m Gr420 | 4500   |   | 12 15@150 ADDL VERT | 424     |
| 2091                        |    |    |     |           |      |     |      |   | 5 | 13  | 10m Gr420 | 2260   | L | 10 @300 TIES        | 115     |
| 2092                        |    |    |     |           |      |     |      |   | 5 | 13  | 10m Gr420 | 1000   | L | 10 @300 TIES        | 50      |
| 2093                        |    |    |     |           |      |     |      |   |   | 20  | 15m Gr420 | 4500   |   | 20 15@150 ADDL VERT | 141     |

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## \*\* ESTIMATING BAR LIST \*\*

| LINE                    | LA | EP | A/D | STRUCTURE | MULT | REQ | CODE | + | X | QTY | SZ/GR     | LENGTH | B | COMMENT             | LINE KG |
|-------------------------|----|----|-----|-----------|------|-----|------|---|---|-----|-----------|--------|---|---------------------|---------|
| 2094                    |    |    |     |           |      |     |      |   |   | 13  | 10m Gr420 | 2175   | L | 10 @300 TIES        | 22      |
| 2095                    |    |    |     |           |      |     |      |   |   | 13  | 10m Gr420 | 1975   | L | 10 @300 TIES        | 19      |
| 2096                    |    |    |     |           |      |     |      |   | 2 | 13  | 10m Gr420 | 1000   | L | 10 @300 TIES        | 20      |
| 2097                    |    |    |     |           |      |     |      |   |   | 14  | 15m Gr420 | 4500   |   | 14 15@150 ADDL VERT | 98      |
| 2098                    |    |    |     |           |      |     |      |   |   | 13  | 10m Gr420 | 2200   | L | 10 @300 TIES        | 22      |
| 2099                    |    |    |     |           |      |     |      |   |   | 13  | 10m Gr420 | 1850   | L | 10 @300 TIES        | 19      |
| 2100                    |    |    |     |           |      |     |      |   |   | 13  | 10m Gr420 | 900    | L | 10 @300 TIES        | 9       |
| 2101                    |    |    |     |           |      |     |      |   | 2 | 163 | 15m Gr420 | 1390   | H | 15 @200 DWL EF      | 711     |
| 2102 STAIR CORE WALL W1 |    |    |     |           |      |     |      |   |   |     |           |        |   |                     |         |
| 2103                    |    |    |     |           |      |     |      |   | 2 | 56  | 15m Gr420 | 4500   |   | 15 @350 VERT EF     | 791     |
| 2104                    |    |    |     |           |      |     |      |   | 2 | 13  | 15m Gr420 | 5920   |   | 15 @300 HOR EF      | 241     |
| 2105                    |    |    |     |           |      | 2   |      |   | 2 | 13  | 15m Gr420 | 5100   |   | 15 @300 HOR EF      | 416     |
| 2106                    |    |    |     |           |      |     |      |   | 2 | 13  | 15m Gr420 | 2910   |   | 15 @300 HOR EF      | 118     |
| 2107                    |    |    |     |           |      | 4   |      |   | 2 | 13  | 15m Gr420 | 2000   | H | 15 @300 COR EF      | 326     |
| 2108                    |    |    |     |           |      | 3   |      |   |   | 20  | 20m Gr420 | 4500   |   | 20 20@150 ADDL VERT | 635     |
| 2109                    |    |    |     |           |      | 3   |      |   | 2 | 13  | 10m Gr420 | 2200   | L | 10 @300 TIES        | 134     |
| 2110                    |    |    |     |           |      | 3   |      |   | 2 | 13  | 10m Gr420 | 900    | L | 10 @300 TIES        | 54      |
| 2111                    |    |    |     |           |      | 2   |      |   |   | 16  | 20m Gr420 | 4500   |   | 16 20@150 ADDL VERT | 338     |
| 2112                    |    |    |     |           |      | 2   |      |   |   | 13  | 10m Gr420 | 2840   | L | 10 @300 TIES        | 58      |
| 2113                    |    |    |     |           |      | 2   |      |   |   | 13  | 10m Gr420 | 900    | L | 10 @300 TIES        | 18      |
| 2114 WALL W2 (3850 mm)  |    |    |     |           |      |     |      |   |   |     |           |        |   |                     |         |
| 2115                    |    |    |     |           |      |     |      |   | 2 | 13  | 15m Gr420 | 4500   |   | 15 @350 VERT EF     | 183     |
| 2116                    |    |    |     |           |      |     |      |   | 2 | 13  | 15m Gr420 | 3430   |   | 15 @300 HOR EF      | 140     |

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## \*\* ESTIMATING BAR LIST \*\*

| LINE | LA | EP | A/D | STRUCTURE     | MULT | REQ | CODE | + | X  | QTY  | SZ/GR              | LENGTH | B | COMMENT           | LINE KG |
|------|----|----|-----|---------------|------|-----|------|---|----|------|--------------------|--------|---|-------------------|---------|
| 2140 |    |    |     | >7TH FLR SLAB |      |     |      |   |    |      | SEVENTH FLOOR SLAB |        |   |                   |         |
| 2141 |    |    |     |               |      |     |      |   | 2  | 665  | 15m Gr420          | 12192  |   | 15@450 T&B EW     | 25458   |
| 2142 |    |    |     |               |      |     |      |   |    | 1130 | 15m Gr420          | 1625   | L | 15 STANDEE        | 2883    |
| 2143 |    |    |     |               |      |     |      |   |    | 27   | 15m Gr420          | 7000   |   | 27 15@450 T ADDL  | 296     |
| 2144 |    |    |     |               |      |     |      |   |    | 27   | 15m Gr420          | 1750   | L | 15@450 T ADDL     | 74      |
| 2145 |    |    |     |               |      |     |      |   | 2  | 2    | 15m Gr420          | 6335   |   | 2 15@300 T&B ADDL | 39      |
| 2146 |    |    |     |               |      |     |      |   | 10 | 2    | 15m Gr420          | 3270   |   | 2 15@300 T&B ADDL | 102     |
| 2147 |    |    |     |               |      |     |      |   |    | 6    | 10m Gr420          | 6700   |   | 10@450 B ADDL     | 31      |
| 2148 |    |    |     |               |      |     |      |   |    | 27   | 10m Gr420          | 5900   |   | 10@450 B ADDL     | 124     |
| 2149 |    |    |     |               |      |     |      |   | 12 | 2    | 15m Gr420          | 2500   |   | 2 15 T ADDL       | 94      |
| 2150 |    |    |     |               |      |     |      |   | 2  | 8    | 15m Gr420          | 2500   |   | 1 15 MT ADDL      | 62      |
| 2151 |    |    |     |               |      |     |      |   |    | 6    | 15m Gr420          | 5000   |   | 1 15 MB ADDL      | 47      |
| 2152 |    |    |     |               |      |     |      |   |    | 14   | 10m Gr420          | 5000   |   | 10@450 B ADDL     | 54      |
| 2153 |    |    |     |               |      |     |      |   |    | 31   | 20m Gr420          | 3500   |   | 31 20@450 T ADDL  | 255     |
| 2154 |    |    |     |               |      |     |      |   |    | 23   | 10m Gr420          | 6500   |   | 10@450 B ADDL     | 117     |
| 2155 |    |    |     |               |      |     |      |   |    | 8    | 10m Gr420          | 7500   |   | 10@450 B ADDL     | 47      |
| 2156 |    |    |     |               |      |     |      |   |    | 5    | 15m Gr420          | 2750   |   | 5 15@450 T ADDL   | 21      |
| 2157 |    |    |     |               |      |     |      |   |    | 7    | 15m Gr420          | 13500  |   | 10@450 B ADDL     | 148     |
| 2158 |    |    |     |               |      |     |      |   | 2  | 7    | 15m Gr420          | 1700   | L | 15@450 T ADDL     | 37      |
| 2159 |    |    |     |               |      |     |      |   |    | 2    | 15m Gr420          | 13000  |   | 2 15@300 T&B ADDL | 40      |
| 2160 |    |    |     |               |      |     |      |   |    | 2    | 15m Gr420          | 5000   | L | 2 15@450 T ADDL   | 15      |
| 2161 |    |    |     |               |      |     |      |   | 2  | 6    | 20m Gr420          | 7000   |   | 6 20@450 T ADDL   | 197     |
| 2162 |    |    |     |               |      |     |      |   |    | 7    | 20m Gr420          | 4500   |   | 7 20@450 T ADDL   | 73      |

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| LINE | LA | EP | A/D | STRUCTURE | MULT | REQ | CODE | + | X | QTY | SZ/GR     | LENGTH | B | COMMENT           | LINE KG |
|------|----|----|-----|-----------|------|-----|------|---|---|-----|-----------|--------|---|-------------------|---------|
| 2163 |    |    |     |           |      |     |      |   |   | 20  | 10m Gr420 | 4500   |   | 10@450 B ADDL     | 70      |
| 2164 |    |    |     |           |      |     |      |   |   | 6   | 15m Gr420 | 2600   |   | 6 15@600 MT ADDL  | 24      |
| 2165 |    |    |     |           |      |     |      |   |   | 2   | 15m Gr420 | 2000   |   | 2 15@300 T&B ADDL | 6       |
| 2166 |    |    |     |           |      |     |      |   |   | 7   | 15m Gr420 | 6700   |   | 15@450 B ADDL     | 73      |
| 2167 |    |    |     |           |      |     |      |   |   | 2   | 15m Gr420 | 3400   |   | 2 15@300 T&B ADDL | 10      |
| 2168 |    |    |     |           |      |     |      |   |   | 8   | 10m Gr420 | 7500   |   | 10@450 B ADDL     | 47      |
| 2169 |    |    |     |           |      |     |      |   |   | 5   | 20m Gr420 | 10000  |   | 5 20@450 T ADDL   | 117     |
| 2170 |    |    |     |           |      |     |      |   |   | 14  | 10m Gr420 | 5000   |   | 10@450 B ADDL     | 54      |
| 2171 |    |    |     |           |      |     |      |   |   | 9   | 20m Gr420 | 4000   |   | 9 20@450 T ADDL   | 84      |
| 2172 |    |    |     |           |      |     |      |   |   | 2   | 15m Gr420 | 3500   |   | 2 15@450 T ADDL   | 10      |
| 2173 |    |    |     |           |      |     |      |   |   | 8   | 20m Gr420 | 3500   |   | 8 20@450 T ADDL   | 65      |
| 2174 |    |    |     |           |      |     |      |   |   | 23  | 10m Gr420 | 8000   |   | 10@450 B ADDL     | 144     |
| 2175 |    |    |     |           |      |     |      |   |   | 4   | 10m Gr420 | 5000   |   | 10@450 B ADDL     | 15      |
| 2176 |    |    |     |           |      |     |      |   |   | 4   | 10m Gr420 | 6000   |   | 10@450 B ADDL     | 18      |
| 2177 |    |    |     |           |      |     |      |   |   | 8   | 20m Gr420 | 3000   | L | 8 20@450 T ADDL   | 56      |
| 2178 |    |    |     |           |      |     |      |   |   | 17  | 20m Gr420 | 3500   |   | 17 20@450 T ADDL  | 140     |
| 2179 |    |    |     |           |      |     |      |   |   | 15  | 10m Gr420 | 5500   |   | 10@450 B ADDL     | 64      |
| 2180 |    |    |     |           |      |     |      |   |   | 2   | 20m Gr420 | 6000   |   | 2 20@450 T ADDL   | 28      |
| 2181 |    |    |     |           |      |     |      |   |   | 8   | 15m Gr420 | 1750   | L | 4 15@450 T ADDL   | 21      |
| 2182 |    |    |     |           |      |     |      |   |   | 5   | 15m Gr420 | 6330   |   | 15@450 B ADDL     | 49      |
| 2183 |    |    |     |           |      |     |      |   | 2 | 2   | 15m Gr420 | 6000   |   | 2 15@450 T&B ADDL | 37      |
| 2184 |    |    |     |           |      |     |      |   |   | 4   | 15m Gr420 | 6050   |   | 15@450 B ADDL     | 38      |
| 2185 |    |    |     |           |      |     |      |   |   | 2   | 20m Gr420 | 3700   |   | 2 20@450 T ADDL   | 17      |

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## \*\* ESTIMATING BAR LIST \*\*

| LINE | LA | EP | A/D | STRUCTURE | MULT | REQ | CODE | + | X | QTY | SZ/GR     | LENGTH | B | COMMENT           | LINE KG |
|------|----|----|-----|-----------|------|-----|------|---|---|-----|-----------|--------|---|-------------------|---------|
| 2186 |    |    |     |           |      |     |      |   |   | 4   | 20m Gr420 | 3000   |   | 4 20@450 T ADDL   | 28      |
| 2187 |    |    |     |           |      |     |      |   |   | 10  | 20m Gr420 | 3500   |   | 10 20@450 T ADDL  | 82      |
| 2188 |    |    |     |           |      |     |      |   |   | 5   | 15m Gr420 | 3500   |   | 5 15@450 T ADDL   | 27      |
| 2189 |    |    |     |           |      |     |      |   |   | 8   | 15m Gr420 | 3500   |   | 8 15@450 T ADDL   | 43      |
| 2190 |    |    |     |           |      |     |      |   | 2 | 2   | 20m Gr420 | 9000   |   | 2 20 ADDL         | 84      |
| 2191 |    |    |     |           |      |     |      |   |   | 9   | 20m Gr420 | 3500   |   | 9 20@450 T ADDL   | 73      |
| 2192 |    |    |     |           |      |     |      |   | 2 | 9   | 15m Gr420 | 1750   | L | 15@450 T ADDL     | 49      |
| 2193 |    |    |     |           |      |     |      |   |   | 6   | 15m Gr420 | 2000   | L | 6 15@500 MT ADDL  | 19      |
| 2194 |    |    |     |           |      |     |      |   |   | 10  | 20m Gr420 | 7000   |   | 10 20 ADDL        | 164     |
| 2195 |    |    |     |           |      |     |      |   |   | 16  | 15m Gr420 | 5000   |   | 15@450 B ADDL     | 125     |
| 2196 |    |    |     |           |      |     |      |   |   | 20  | 15m Gr420 | 4500   |   | 20 15@450 MT ADDL | 141     |
| 2197 |    |    |     |           |      |     |      |   |   | 35  | 15m Gr420 | 7000   |   | 15@450 T ADDL     | 384     |
| 2198 |    |    |     |           |      |     |      |   | 2 | 2   | 15m Gr420 | 3000   |   | 2 15 T ADDL       | 19      |
| 2199 |    |    |     |           |      |     |      |   |   | 16  | 20m Gr420 | 3500   |   | 16 20@450 T ADDL  | 131     |
| 2200 |    |    |     |           |      |     |      |   |   | 26  | 10m Gr420 | 5000   |   | 10@450 B ADDL     | 102     |
| 2201 |    |    |     |           |      |     |      |   |   | 5   | 15m Gr420 | 3500   |   | 5 15@450 MT ADDL  | 27      |
| 2202 |    |    |     |           |      |     |      |   |   | 17  | 20m Gr420 | 3500   |   | 17 20@450 T ADDL  | 140     |
| 2203 |    |    |     |           |      |     |      |   |   | 8   | 20m Gr420 | 3000   | L | 8 20@450 T ADDL   | 56      |
| 2204 |    |    |     |           |      |     |      |   |   | 4   | 10m Gr420 | 6000   |   | 10@450 B ADDL     | 18      |
| 2205 |    |    |     |           |      |     |      |   |   | 4   | 15m Gr420 | 5000   |   | 15@450 B ADDL     | 31      |
| 2206 |    |    |     |           |      |     |      |   |   | 16  | 10m Gr420 | 5500   |   | 10@450 B ADDL     | 68      |
| 2207 |    |    |     |           |      |     |      |   |   | 2   | 20m Gr420 | 6000   |   | 2 20@450 T ADDL   | 28      |
| 2208 |    |    |     |           |      |     |      |   |   | 4   | 15m Gr420 | 1750   | L | 4 15@450 T ADDL   | 10      |

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## \*\* ESTIMATING BAR LIST \*\*

| LINE | LA | EP | A/D | STRUCTURE | MULT | REQ | CODE | + | X  | QTY | SZ/GR     | LENGTH | B | COMMENT           | LINE KG |
|------|----|----|-----|-----------|------|-----|------|---|----|-----|-----------|--------|---|-------------------|---------|
| 2209 |    |    |     |           |      |     |      |   |    | 8   | 15m Gr420 | 6400   |   | 15@450 B ADDL     | 80      |
| 2210 |    |    |     |           |      |     |      |   |    | 4   | 15m Gr420 | 6000   |   | 15@450 B ADDL     | 37      |
| 2211 |    |    |     |           |      |     |      |   | 2  | 2   | 15m Gr420 | 6070   |   | 15@300 T&B ADDL   | 38      |
| 2212 |    |    |     |           |      |     |      |   |    | 10  | 20m Gr420 | 3500   |   | 10 20@450 T ADDL  | 82      |
| 2213 |    |    |     |           |      |     |      |   |    | 8   | 20m Gr420 | 3000   |   | 4 20@450 T ADDL   | 56      |
| 2214 |    |    |     |           |      |     |      |   |    | 2   | 20m Gr420 | 2170   |   | 4 20@450 T ADDL   | 10      |
| 2215 |    |    |     |           |      |     |      |   | 2  | 2   | 15m Gr420 | 3260   |   | 2 15@450 T&B ADDL | 20      |
| 2216 |    |    |     |           |      |     |      |   |    | 9   | 15m Gr420 | 1700   | L | 15@450 T ADDL     | 24      |
| 2217 |    |    |     |           |      |     |      |   | 2  | 6   | 10m Gr420 | 6700   |   | 10@450 B ADDL     | 63      |
| 2218 |    |    |     |           |      |     |      |   | 10 | 2   | 15m Gr420 | 3300   |   | 2 15@300 T&B ADDL | 103     |
| 2219 |    |    |     |           |      |     |      |   | 2  | 2   | 15m Gr420 | 27950  |   | 2 15@300 T&B ADDL | 175     |
| 2220 |    |    |     |           |      |     |      |   | 2  | 30  | 15m Gr420 | 7000   |   | 30 15@450 T ADDL  | 659     |
| 2221 |    |    |     |           |      |     |      |   |    | 39  | 10m Gr420 | 5000   |   | 10@450 B ADDL     | 152     |
| 2222 |    |    |     |           |      |     |      |   | 2  | 2   | 15m Gr420 | 5000   |   | 2 15 T ADDL       | 31      |
| 2223 |    |    |     |           |      |     |      |   |    | 33  | 15m Gr420 | 5100   |   | 10@450 B ADDL     | 264     |
| 2224 |    |    |     |           |      |     |      |   |    | 29  | 15m Gr420 | 1750   | L | 15@450 T ADDL     | 79      |
| 2225 |    |    |     |           |      |     |      |   |    | 13  | 15m Gr420 | 7500   |   | 15@450 B ADDL     | 152     |
| 2226 |    |    |     |           |      |     |      |   | 4  | 2   | 15m Gr420 | 4500   |   | 2 15@300 T&B ADDL | 56      |
| 2227 |    |    |     |           |      |     |      |   | 2  | 2   | 15m Gr420 | 6550   |   | 2 15@300 T&B ADDL | 41      |
| 2228 |    |    |     |           |      |     |      |   |    | 2   | 15m Gr420 | 2500   |   | 2 15 MT ADDL      | 7       |
| 2229 |    |    |     |           |      |     |      |   |    | 30  | 15m Gr420 | 4000   |   | 30 15@450 T ADDL  | 188     |
| 2230 |    |    |     |           |      |     |      |   |    | 26  | 10m Gr420 | 10330  |   | 10@450 B ADDL     | 210     |
| 2231 |    |    |     |           |      |     |      |   |    | 14  | 15m Gr420 | 1750   | L | 15@450 T ADDL     | 38      |

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**\*\* ESTIMATING BAR LIST \*\***

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## \*\* ESTIMATING BAR LIST \*\*

| LINE               | LA | EP | A/D | STRUCTURE              | MULT | REQ | CODE | + | X  | QTY | SZ/GR     | LENGTH | B | COMMENT             | LINE KG |
|--------------------|----|----|-----|------------------------|------|-----|------|---|----|-----|-----------|--------|---|---------------------|---------|
| 2255               |    |    |     | >7TH FLR WALL          |      |     |      |   |    |     |           |        |   |                     |         |
| SEVENTH FLOOR WALL |    |    |     |                        |      |     |      |   |    |     |           |        |   |                     |         |
| 2256               |    |    |     | WALL W1 (21790 mm)     |      |     |      |   |    |     |           |        |   |                     |         |
| 2257               |    |    |     |                        |      |     |      |   | 2  | 64  | 15m Gr420 | 4360   |   | 15 @350 VERT EF     | 876     |
| 2258               |    |    |     |                        |      |     |      |   | 2  | 13  | 15m Gr420 | 21790  |   | 15 @300 HOR EF      | 889     |
| 2259               |    |    |     |                        |      |     |      |   | 22 | 4   | 15m Gr420 | 4360   |   | 4 15 ADDL VERT      | 602     |
| 2260               |    |    |     |                        |      |     |      |   | 22 | 15  | 10m Gr420 | 700    | L | 10 @250 TIES        | 180     |
| 2261               |    |    |     |                        |      |     |      |   | 2  | 110 | 15m Gr420 | 1390   | H | 15 @200 DWL EF      | 479     |
| 2262               |    |    |     | ELEVATOR SHAFT WALL W1 |      |     |      |   |    |     |           |        |   |                     |         |
| 2263               |    |    |     |                        |      |     |      |   | 2  | 94  | 15m Gr420 | 4360   |   | 15 @350 VERT EF     | 1286    |
| 2264               |    |    |     |                        |      |     |      |   | 2  | 13  | 15m Gr420 | 5730   |   | 15 @300 HOR EF      | 234     |
| 2265               |    |    |     |                        |      |     |      |   | 2  | 13  | 15m Gr420 | 4680   |   | 15 @300 HOR EF      | 190     |
| 2266               |    |    |     |                        |      |     |      |   | 2  | 13  | 15m Gr420 | 2580   |   | 15 @300 HOR EF      | 105     |
| 2267               |    |    |     |                        |      |     |      |   | 2  | 13  | 15m Gr420 | 8400   |   | 15 @300 HOR EF      | 342     |
| 2268               |    |    |     |                        |      | 2   |      |   | 2  | 13  | 15m Gr420 | 2900   |   | 15 @300 HOR EF      | 236     |
| 2269               |    |    |     |                        |      |     |      |   | 2  | 13  | 15m Gr420 | 5100   |   | 15 @300 HOR EF      | 208     |
| 2270               |    |    |     |                        |      | 8   |      |   | 2  | 13  | 15m Gr420 | 2000   | H | 15 @300 COR EF      | 653     |
| 2271               |    |    |     |                        |      |     |      |   | 2  | 163 | 15m Gr420 | 1390   | H | 15 @200 DWL EF      | 711     |
| 2272               |    |    |     |                        |      |     |      |   | 3  | 6   | 15m Gr420 | 4360   |   | 6 15@150 ADDL VERT  | 123     |
| 2273               |    |    |     |                        |      |     |      |   | 3  | 13  | 10m Gr420 | 1350   | L | 10 @300 TIES        | 41      |
| 2274               |    |    |     |                        |      |     |      |   | 2  | 6   | 15m Gr420 | 4360   |   | 4 15@150 ADDL VERT  | 82      |
| 2275               |    |    |     |                        |      |     |      |   | 2  | 13  | 10m Gr420 | 1000   | L | 10 @300 TIES        | 20      |
| 2276               |    |    |     |                        |      |     |      |   | 5  | 13  | 15m Gr420 | 4360   |   | 12 15@150 ADDL VERT | 444     |
| 2277               |    |    |     |                        |      |     |      |   | 5  | 13  | 10m Gr420 | 2260   | L | 10 @300 TIES        | 115     |

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| LINE                    | LA | EP | A/D | STRUCTURE | MULT | REQ | CODE | + | X | QTY | SZ/GR     | LENGTH | B | COMMENT             | LINE KG |
|-------------------------|----|----|-----|-----------|------|-----|------|---|---|-----|-----------|--------|---|---------------------|---------|
| 2278                    |    |    |     |           |      |     |      |   | 5 | 13  | 10m Gr420 | 1000   | L | 10 @300 TIES        | 50      |
| 2279                    |    |    |     |           |      |     |      |   |   | 20  | 15m Gr420 | 4360   |   | 20 15@150 ADDL VERT | 136     |
| 2280                    |    |    |     |           |      |     |      |   |   | 13  | 10m Gr420 | 2175   | L | 10 @300 TIES        | 22      |
| 2281                    |    |    |     |           |      |     |      |   |   | 13  | 10m Gr420 | 1975   | L | 10 @300 TIES        | 19      |
| 2282                    |    |    |     |           |      |     |      |   | 2 | 13  | 10m Gr420 | 1000   | L | 10 @300 TIES        | 20      |
| 2283                    |    |    |     |           |      |     |      |   |   | 14  | 15m Gr420 | 4360   |   | 14 15@150 ADDL VERT | 95      |
| 2284                    |    |    |     |           |      |     |      |   |   | 13  | 10m Gr420 | 2200   | L | 10 @300 TIES        | 22      |
| 2285                    |    |    |     |           |      |     |      |   |   | 12  | 10m Gr420 | 1850   | L | 10 @300 TIES        | 17      |
| 2286                    |    |    |     |           |      |     |      |   |   | 13  | 10m Gr420 | 900    | L | 10 @300 TIES        | 9       |
| 2287                    |    |    |     |           |      |     |      |   | 2 | 163 | 15m Gr420 | 1390   | H | 15 @200 DWL EF      | 711     |
| 2288 STAIR CORE WALL W1 |    |    |     |           |      |     |      |   |   |     |           |        |   |                     |         |
| 2289                    |    |    |     |           |      |     |      |   | 2 | 56  | 15m Gr420 | 4360   |   | 15 @350 VERT EF     | 766     |
| 2290                    |    |    |     |           |      |     |      |   | 2 | 13  | 15m Gr420 | 5920   |   | 15 @300 HOR EF      | 241     |
| 2291                    |    |    |     |           |      | 2   |      |   | 2 | 13  | 15m Gr420 | 5100   |   | 15 @300 HOR EF      | 416     |
| 2292                    |    |    |     |           |      |     |      |   | 2 | 13  | 15m Gr420 | 2910   |   | 15 @300 HOR EF      | 118     |
| 2293                    |    |    |     |           |      | 4   |      |   | 2 | 13  | 15m Gr420 | 2000   | H | 15 @300 COR EF      | 326     |
| 2294                    |    |    |     |           |      | 3   |      |   |   | 20  | 20m Gr420 | 4360   |   | 20 20@150 ADDL VERT | 615     |
| 2295                    |    |    |     |           |      | 3   |      |   | 2 | 13  | 10m Gr420 | 2200   | L | 10 @300 TIES        | 134     |
| 2296                    |    |    |     |           |      | 3   |      |   | 2 | 13  | 10m Gr420 | 900    | L | 10 @300 TIES        | 54      |
| 2297                    |    |    |     |           |      | 2   |      |   |   | 16  | 20m Gr420 | 4360   |   | 16 20@150 ADDL VERT | 328     |
| 2298                    |    |    |     |           |      | 2   |      |   |   | 13  | 10m Gr420 | 2840   | L | 10 @300 TIES        | 58      |
| 2299                    |    |    |     |           |      | 2   |      |   |   | 13  | 10m Gr420 | 900    | L | 10 @300 TIES        | 18      |
| 2300                    |    |    |     |           |      |     |      |   | 2 | 98  | 15m Gr420 | 1390   | H | 15 @200 DWL EF      | 427     |

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|-------------------------|----|----|-----|-----------|------|-----|------|---|----|-----|-----------|--------|---|-----------------|---------|
| 2301 WALL W2 (5810 mm)  |    |    |     |           |      |     |      |   |    |     |           |        |   |                 |         |
| 2302                    |    |    |     |           |      |     |      |   | 2  | 18  | 15m Gr420 | 4360   |   | 15 @350 VERT EF | 246     |
| 2303                    |    |    |     |           |      |     |      |   | 2  | 13  | 15m Gr420 | 5810   |   | 15 @300 HOR EF  | 237     |
| 2304                    |    |    |     |           |      |     |      |   | 6  | 6   | 15m Gr420 | 4360   |   | 6 15 ADDL VERT  | 246     |
| 2305                    |    |    |     |           |      |     |      |   | 6  | 15  | 10m Gr420 | 800    | L | 10 @250 TIES    | 56      |
| 2306                    |    |    |     |           |      |     |      |   | 2  | 31  | 15m Gr420 | 1390   | H | 15 @200 DWL EF  | 135     |
| 2307 WALL W3 (42185 mm) |    |    |     |           |      |     |      |   |    |     |           |        |   |                 |         |
| 2308                    |    |    |     |           |      |     |      |   | 2  | 122 | 15m Gr420 | 4360   |   | 15 @350 VERT EF | 1670    |
| 2309                    |    |    |     |           |      |     |      |   | 2  | 13  | 15m Gr420 | 44265  |   | 15 @300 HOR EF  | 1807    |
| 2310                    |    |    |     |           |      |     |      |   | 32 | 8   | 15m Gr420 | 4360   |   | 8 15 ADDL VERT  | 1752    |
| 2311                    |    |    |     |           |      |     |      |   | 32 | 15  | 10m Gr420 | 1000   | L | 10 @250 TIES    | 376     |
| 2312                    |    |    |     |           |      |     |      |   | 2  | 212 | 15m Gr420 | 1390   | H | 15 @200 DWL EF  | 925     |
| 2313 WALL W4 (36300 mm) |    |    |     |           |      |     |      |   |    |     |           |        |   |                 |         |
| 2314                    |    |    |     |           |      |     |      |   | 2  | 105 | 15m Gr420 | 4360   |   | 15 @350 VERT EF | 1437    |
| 2315                    |    |    |     |           |      |     |      |   | 2  | 13  | 15m Gr420 | 39000  |   | 15 @300 HOR EF  | 1592    |
| 2316                    |    |    |     |           |      |     |      |   | 10 | 13  | 15m Gr420 | 4360   |   | 12 15 ADDL VERT | 889     |
| 2317                    |    |    |     |           |      |     |      |   | 10 | 15  | 10m Gr420 | 1300   | L | 10 @250 TIES    | 152     |
| 2318                    |    |    |     |           |      |     |      |   | 2  | 183 | 15m Gr420 | 1390   | H | 15 @200 DWL EF  | 798     |
| 2319 WALL W5 (26580 mm) |    |    |     |           |      |     |      |   |    |     |           |        |   |                 |         |
| 2320                    |    |    |     |           |      |     |      |   | 2  | 77  | 15m Gr420 | 4360   |   | 15 @350 VERT EF | 1054    |
| 2321                    |    |    |     |           |      |     |      |   | 2  | 13  | 15m Gr420 | 28000  |   | 15 @300 HOR EF  | 1143    |
| 2322                    |    |    |     |           |      |     |      |   | 6  | 16  | 15m Gr420 | 4360   |   | 16 15 ADDL VERT | 657     |
| 2323                    |    |    |     |           |      |     |      |   | 6  | 15  | 10m Gr420 | 1600   | L | 10 @250 TIES    | 112     |

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| LINE | LA | EP | A/D | STRUCTURE     | MULT | REQ | CODE | + | X  | QTY  | SZ/GR             | LENGTH | B | COMMENT           | LINE KG |
|------|----|----|-----|---------------|------|-----|------|---|----|------|-------------------|--------|---|-------------------|---------|
| 2324 |    |    |     |               |      |     |      |   | 2  | 133  | 15m Gr420         | 1390   | H | 15 @200 DWL EF    | 580     |
| 2325 |    |    |     |               |      |     |      |   |    |      |                   |        |   |                   |         |
| 2326 |    |    |     | >8TH FLR SLAB |      |     |      |   |    |      | EIGHTH FLOOR SLAB |        |   |                   |         |
| 2327 |    |    |     |               |      |     |      |   | 2  | 612  | 15m Gr420         | 12192  |   | 15@450 T&B EW     | 23429   |
| 2328 |    |    |     |               |      |     |      |   |    | 1110 | 15m Gr420         | 1625   | L | 15 STANDEE        | 2831    |
| 2329 |    |    |     |               |      |     |      |   |    | 27   | 15m Gr420         | 7000   |   | 27 15@450 T ADDL  | 296     |
| 2330 |    |    |     |               |      |     |      |   |    | 27   | 15m Gr420         | 1750   | L | 15@450 T ADDL     | 74      |
| 2331 |    |    |     |               |      |     |      |   | 2  | 2    | 15m Gr420         | 6335   |   | 2 15@300 T&B ADDL | 39      |
| 2332 |    |    |     |               |      |     |      |   | 10 | 2    | 15m Gr420         | 3270   |   | 2 15@300 T&B ADDL | 102     |
| 2333 |    |    |     |               |      |     |      |   |    | 6    | 10m Gr420         | 6700   |   | 10@450 B ADDL     | 31      |
| 2334 |    |    |     |               |      |     |      |   |    | 27   | 10m Gr420         | 5900   |   | 10@450 B ADDL     | 124     |
| 2335 |    |    |     |               |      |     |      |   | 12 | 2    | 15m Gr420         | 2500   |   | 2 15 T ADDL       | 94      |
| 2336 |    |    |     |               |      |     |      |   | 2  | 8    | 15m Gr420         | 2500   |   | 1 15 MT ADDL      | 62      |
| 2337 |    |    |     |               |      |     |      |   |    | 1    | 15m Gr420         | 5000   |   | 1 15 MB ADDL      | 7       |
| 2338 |    |    |     |               |      |     |      |   |    | 14   | 10m Gr420         | 5000   |   | 10@450 B ADDL     | 54      |
| 2339 |    |    |     |               |      |     |      |   |    | 31   | 20m Gr420         | 3500   |   | 31 20@450 T ADDL  | 255     |
| 2340 |    |    |     |               |      |     |      |   |    | 23   | 10m Gr420         | 6500   |   | 10@450 B ADDL     | 117     |
| 2341 |    |    |     |               |      |     |      |   |    | 8    | 10m Gr420         | 7500   |   | 10@450 B ADDL     | 47      |
| 2342 |    |    |     |               |      |     |      |   |    | 5    | 15m Gr420         | 2750   |   | 5 15@450 T ADDL   | 21      |
| 2343 |    |    |     |               |      |     |      |   |    | 7    | 15m Gr420         | 13500  |   | 10@450 B ADDL     | 148     |
| 2344 |    |    |     |               |      |     |      |   | 2  | 7    | 15m Gr420         | 1700   | L | 15@450 T ADDL     | 37      |
| 2345 |    |    |     |               |      |     |      |   |    | 2    | 15m Gr420         | 13000  |   | 2 15@300 T&B ADDL | 40      |
| 2346 |    |    |     |               |      |     |      |   |    | 2    | 15m Gr420         | 5000   | L | 2 15@450 T ADDL   | 15      |

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## \*\* ESTIMATING BAR LIST \*\*

| LINE | LA | EP | A/D | STRUCTURE | MULT | REQ | CODE | + | X | QTY | SZ/GR     | LENGTH | B | COMMENT           | LINE KG |
|------|----|----|-----|-----------|------|-----|------|---|---|-----|-----------|--------|---|-------------------|---------|
| 2347 |    |    |     |           |      |     |      |   | 2 | 6   | 20m Gr420 | 7000   |   | 6 20@450 T ADDL   | 197     |
| 2348 |    |    |     |           |      |     |      |   |   | 7   | 20m Gr420 | 4500   |   | 7 20@450 T ADDL   | 73      |
| 2349 |    |    |     |           |      |     |      |   |   | 20  | 10m Gr420 | 4500   |   | 10@450 B ADDL     | 70      |
| 2350 |    |    |     |           |      |     |      |   |   | 6   | 15m Gr420 | 2600   |   | 6 15@600 MT ADDL  | 24      |
| 2351 |    |    |     |           |      |     |      |   |   | 7   | 15m Gr420 | 6700   |   | 15@450 B ADDL     | 73      |
| 2352 |    |    |     |           |      |     |      |   |   | 8   | 10m Gr420 | 7500   |   | 10@450 B ADDL     | 47      |
| 2353 |    |    |     |           |      |     |      |   |   | 5   | 20m Gr420 | 10000  |   | 5 20@450 T ADDL   | 117     |
| 2354 |    |    |     |           |      |     |      |   |   | 14  | 10m Gr420 | 5000   |   | 10@450 B ADDL     | 54      |
| 2355 |    |    |     |           |      |     |      |   |   | 9   | 20m Gr420 | 4000   |   | 9 20@450 T ADDL   | 84      |
| 2356 |    |    |     |           |      |     |      |   |   | 8   | 20m Gr420 | 3500   |   | 8 20@450 T ADDL   | 65      |
| 2357 |    |    |     |           |      |     |      |   |   | 23  | 10m Gr420 | 8000   |   | 10@450 B ADDL     | 144     |
| 2358 |    |    |     |           |      |     |      |   |   | 8   | 20m Gr420 | 3000   | L | 8 20@450 T ADDL   | 56      |
| 2359 |    |    |     |           |      |     |      |   |   | 17  | 20m Gr420 | 3500   |   | 17 20@450 T ADDL  | 140     |
| 2360 |    |    |     |           |      |     |      |   |   | 15  | 10m Gr420 | 5500   |   | 10@450 B ADDL     | 64      |
| 2361 |    |    |     |           |      |     |      |   |   | 2   | 20m Gr420 | 6000   |   | 2 20@450 T ADDL   | 28      |
| 2362 |    |    |     |           |      |     |      |   |   | 4   | 15m Gr420 | 1750   | L | 4 15@450 T ADDL   | 10      |
| 2363 |    |    |     |           |      |     |      |   |   | 5   | 15m Gr420 | 6330   |   | 15@450 B ADDL     | 49      |
| 2364 |    |    |     |           |      |     |      |   | 2 | 2   | 15m Gr420 | 6000   |   | 2 15@450 T&B ADDL | 37      |
| 2365 |    |    |     |           |      |     |      |   |   | 4   | 15m Gr420 | 6050   |   | 15@450 B ADDL     | 38      |
| 2366 |    |    |     |           |      |     |      |   |   | 2   | 20m Gr420 | 3700   |   | 2 20@450 T ADDL   | 17      |
| 2367 |    |    |     |           |      |     |      |   |   | 8   | 20m Gr420 | 3000   |   | 4 20@450 T ADDL   | 56      |
| 2368 |    |    |     |           |      |     |      |   |   | 10  | 20m Gr420 | 3500   |   | 10 20@450 T ADDL  | 82      |
| 2369 |    |    |     |           |      |     |      |   |   | 5   | 15m Gr420 | 3500   |   | 5 15@450 T ADDL   | 27      |

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## \*\* ESTIMATING BAR LIST \*\*

| LINE | LA | EP | A/D | STRUCTURE | MULT | REQ | CODE | + | X | QTY | SZ/GR     | LENGTH | B | COMMENT           | LINE KG |
|------|----|----|-----|-----------|------|-----|------|---|---|-----|-----------|--------|---|-------------------|---------|
| 2370 |    |    |     |           |      |     |      |   |   | 8   | 15m Gr420 | 3500   |   | 8 15@450 T ADDL   | 43      |
| 2371 |    |    |     |           |      |     |      |   | 2 | 2   | 20m Gr420 | 9000   |   | 2 20 ADDL         | 84      |
| 2372 |    |    |     |           |      |     |      |   |   | 9   | 20m Gr420 | 3500   |   | 9 20@450 T ADDL   | 73      |
| 2373 |    |    |     |           |      |     |      |   | 2 | 9   | 15m Gr420 | 1750   | L | 15@450 T ADDL     | 49      |
| 2374 |    |    |     |           |      |     |      |   |   | 6   | 15m Gr420 | 2000   | L | 6 15@500 MT ADDL  | 19      |
| 2375 |    |    |     |           |      |     |      |   |   | 10  | 20m Gr420 | 7000   |   | 10 20 ADDL        | 164     |
| 2376 |    |    |     |           |      |     |      |   |   | 16  | 15m Gr420 | 5000   |   | 15@450 B ADDL     | 125     |
| 2377 |    |    |     |           |      |     |      |   |   | 20  | 15m Gr420 | 4500   |   | 20 15@450 MT ADDL | 141     |
| 2378 |    |    |     |           |      |     |      |   |   | 35  | 15m Gr420 | 7000   |   | 15@450 T ADDL     | 384     |
| 2379 |    |    |     |           |      |     |      |   | 2 | 2   | 15m Gr420 | 3000   |   | 2 15 T ADDL       | 19      |
| 2380 |    |    |     |           |      |     |      |   |   | 16  | 20m Gr420 | 3500   |   | 16 20@450 T ADDL  | 131     |
| 2381 |    |    |     |           |      |     |      |   |   | 26  | 10m Gr420 | 5000   |   | 10@450 B ADDL     | 102     |
| 2382 |    |    |     |           |      |     |      |   |   | 5   | 15m Gr420 | 3500   |   | 5 15@450 MT ADDL  | 27      |
| 2383 |    |    |     |           |      |     |      |   |   | 17  | 20m Gr420 | 3500   |   | 17 20@450 T ADDL  | 140     |
| 2384 |    |    |     |           |      |     |      |   |   | 8   | 20m Gr420 | 3000   | L | 8 20@450 T ADDL   | 56      |
| 2385 |    |    |     |           |      |     |      |   |   | 4   | 10m Gr420 | 6000   |   | 10@450 B ADDL     | 18      |
| 2386 |    |    |     |           |      |     |      |   |   | 4   | 15m Gr420 | 5000   |   | 15@450 B ADDL     | 31      |
| 2387 |    |    |     |           |      |     |      |   |   | 16  | 10m Gr420 | 5500   |   | 10@450 B ADDL     | 68      |
| 2388 |    |    |     |           |      |     |      |   |   | 2   | 20m Gr420 | 6000   |   | 2 20@450 T ADDL   | 28      |
| 2389 |    |    |     |           |      |     |      |   |   | 4   | 15m Gr420 | 1750   | L | 4 15@450 T ADDL   | 10      |
| 2390 |    |    |     |           |      |     |      |   |   | 8   | 15m Gr420 | 6400   |   | 15@450 B ADDL     | 80      |
| 2391 |    |    |     |           |      |     |      |   |   | 4   | 15m Gr420 | 6000   |   | 15@450 B ADDL     | 37      |
| 2392 |    |    |     |           |      |     |      |   | 2 | 2   | 15m Gr420 | 6070   |   | 15@300 T&B ADDL   | 38      |

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## \*\* ESTIMATING BAR LIST \*\*

| LINE | LA | EP | A/D | STRUCTURE | MULT | REQ | CODE | + | X  | QTY | SZ/GR     | LENGTH | B | COMMENT           | LINE KG |
|------|----|----|-----|-----------|------|-----|------|---|----|-----|-----------|--------|---|-------------------|---------|
| 2393 |    |    |     |           |      |     |      |   |    | 10  | 20m Gr420 | 3500   |   | 10 20@450 T ADDL  | 82      |
| 2394 |    |    |     |           |      |     |      |   |    | 4   | 20m Gr420 | 3000   |   | 4 20@450 T ADDL   | 28      |
| 2395 |    |    |     |           |      |     |      |   |    | 2   | 20m Gr420 | 2170   |   | 4 20@450 T ADDL   | 10      |
| 2396 |    |    |     |           |      |     |      |   | 2  | 2   | 15m Gr420 | 3260   |   | 2 15@450 T&B ADDL | 20      |
| 2397 |    |    |     |           |      |     |      |   |    | 9   | 15m Gr420 | 1700   | L | 15@450 T ADDL     | 24      |
| 2398 |    |    |     |           |      |     |      |   | 2  | 6   | 10m Gr420 | 6700   |   | 10@450 B ADDL     | 63      |
| 2399 |    |    |     |           |      |     |      |   | 10 | 8   | 15m Gr420 | 3300   |   | 2 15@300 T&B ADDL | 414     |
| 2400 |    |    |     |           |      |     |      |   | 2  | 8   | 15m Gr420 | 27950  |   | 2 15@300 T&B ADDL | 702     |
| 2401 |    |    |     |           |      |     |      |   | 2  | 30  | 15m Gr420 | 7000   |   | 30 15@450 T ADDL  | 659     |
| 2402 |    |    |     |           |      |     |      |   |    | 39  | 10m Gr420 | 5000   |   | 10@450 B ADDL     | 152     |
| 2403 |    |    |     |           |      |     |      |   | 2  | 2   | 15m Gr420 | 5000   |   | 2 15 T ADDL       | 31      |
| 2404 |    |    |     |           |      |     |      |   |    | 33  | 15m Gr420 | 5100   |   | 10@450 B ADDL     | 264     |
| 2405 |    |    |     |           |      |     |      |   |    | 29  | 15m Gr420 | 1750   | L | 15@450 T ADDL     | 79      |
| 2406 |    |    |     |           |      |     |      |   |    | 13  | 15m Gr420 | 7500   |   | 15@450 B ADDL     | 152     |
| 2407 |    |    |     |           |      |     |      |   | 4  | 2   | 15m Gr420 | 4500   |   | 2 15@300 T&B ADDL | 56      |
| 2408 |    |    |     |           |      |     |      |   | 2  | 2   | 15m Gr420 | 6550   |   | 2 15@300 T&B ADDL | 41      |
| 2409 |    |    |     |           |      |     |      |   |    | 2   | 15m Gr420 | 2500   |   | 2 15 MT ADDL      | 7       |
| 2410 |    |    |     |           |      |     |      |   |    | 30  | 15m Gr420 | 4000   |   | 30 15@450 T ADDL  | 188     |
| 2411 |    |    |     |           |      |     |      |   |    | 26  | 10m Gr420 | 10330  |   | 10@450 B ADDL     | 210     |
| 2412 |    |    |     |           |      |     |      |   |    | 14  | 15m Gr420 | 1750   | L | 15@450 T ADDL     | 38      |
| 2413 |    |    |     |           |      |     |      |   | 2  | 2   | 15m Gr420 | 6400   |   | 2 15@300 T&B ADDL | 40      |
| 2414 |    |    |     |           |      |     |      |   | 2  | 2   | 15m Gr420 | 1930   |   | 2 15@300 T&B ADDL | 12      |
| 2415 |    |    |     |           |      |     |      |   | 2  | 24  | 15m Gr420 | 3330   |   | 2 15@300 T&B ADDL | 250     |

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## \*\* ESTIMATING BAR LIST \*\*

| LINE | LA | EP | A/D | STRUCTURE                        | MULT | REQ | CODE | + | X  | QTY | SZ/GR     | LENGTH | B | COMMENT           | LINE KG |
|------|----|----|-----|----------------------------------|------|-----|------|---|----|-----|-----------|--------|---|-------------------|---------|
| 2416 |    |    |     |                                  |      |     |      |   | 2  | 2   | 15m Gr420 | 6400   |   | 2 15@300 T&B ADDL | 40      |
| 2417 |    |    |     |                                  |      |     |      |   |    | 6   | 15m Gr420 | 1700   | L | 15@450 T ADDL     | 15      |
| 2418 |    |    |     |                                  |      |     |      |   | 40 | 3   | 10m Gr420 | 700    | L | 3 10@100 STIRR    | 65      |
| 2419 |    |    |     |                                  |      |     |      |   | 2  | 18  | 15m Gr420 | 12192  |   | 1 15 CONT T&B     | 689     |
| 2420 |    |    |     |                                  |      |     |      |   | 2  | 18  | 15m Gr420 | 12192  |   | 2 15@200 B CONT   | 689     |
| 2421 |    |    |     |                                  |      |     |      |   |    |     |           |        |   |                   |         |
| 2422 |    |    |     | >8TH FLR COL EIGHTH FLOOR COLUMN |      |     |      |   |    |     |           |        |   |                   |         |
| 2423 |    |    |     | COLUMN MARK C5 (2 LOC)           |      |     |      |   |    |     |           |        |   |                   |         |
| 2424 |    |    |     |                                  |      |     |      |   | 2  | 14  | 20m Gr420 | 4850   | H | 14 20 VERT        | 319     |
| 2425 |    |    |     |                                  |      |     |      |   | 2  | 14  | 10m Gr420 | 2580   | L | 10 @250 TIES      | 56      |
| 2426 |    |    |     |                                  |      |     |      |   | 2  | 14  | 10m Gr420 | 1100   | L | 10 @250 TIES      | 24      |
| 2427 |    |    |     | COLUMN MARK C9 (4 LOC)           |      |     |      |   |    |     |           |        |   |                   |         |
| 2428 |    |    |     |                                  |      |     |      |   | 4  | 14  | 20m Gr420 | 4850   | H | 14 20 VERT        | 639     |
| 2429 |    |    |     |                                  |      |     |      |   | 4  | 14  | 10m Gr420 | 3000   | L | 10 @250 TIES      | 131     |
| 2430 |    |    |     |                                  |      | 2   |      |   | 4  | 14  | 10m Gr420 | 720    | L | 10 @250 TIES      | 63      |
| 2431 |    |    |     |                                  |      |     |      |   | 4  | 14  | 10m Gr420 | 300    | L | 10 @250 LINKS     | 13      |
| 2432 |    |    |     |                                  |      |     |      |   |    |     |           |        |   |                   |         |
| 2433 |    |    |     | >8TH FLR WALL EIGHTH FLOOR WALL  |      |     |      |   |    |     |           |        |   |                   |         |
| 2434 |    |    |     | WALL W1 (17830 mm)               |      |     |      |   |    |     |           |        |   |                   |         |
| 2435 |    |    |     |                                  |      |     |      |   | 2  | 52  | 15m Gr420 | 4850   |   | 15 @350 VERT EF   | 791     |
| 2436 |    |    |     |                                  |      |     |      |   | 2  | 14  | 15m Gr420 | 18830  |   | 15 @300 HOR EF    | 827     |
| 2437 |    |    |     |                                  |      |     |      |   | 16 | 4   | 15m Gr420 | 4850   |   | 4 15 ADDL VERT    | 487     |
| 2438 |    |    |     |                                  |      |     |      |   | 16 | 17  | 10m Gr420 | 700    | L | 10 @250 TIES      | 149     |

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## \*\* ESTIMATING BAR LIST \*\*

| LINE                        | LA | EP | A/D | STRUCTURE | MULT | REQ | CODE | + | X | QTY | SZ/GR     | LENGTH | B | COMMENT             | LINE KG |
|-----------------------------|----|----|-----|-----------|------|-----|------|---|---|-----|-----------|--------|---|---------------------|---------|
| 2439                        |    |    |     |           |      |     |      |   | 2 | 91  | 15m Gr420 | 1390   | H | 15 @200 DWL EF      | 397     |
| 2440 ELEVATOR SHAFT WALL W1 |    |    |     |           |      |     |      |   |   |     |           |        |   |                     |         |
| 2441                        |    |    |     |           |      |     |      |   | 2 | 94  | 15m Gr420 | 4850   |   | 15 @350 VERT EF     | 1431    |
| 2442                        |    |    |     |           |      |     |      |   | 2 | 14  | 15m Gr420 | 5730   |   | 15 @300 HOR EF      | 251     |
| 2443                        |    |    |     |           |      |     |      |   | 2 | 14  | 15m Gr420 | 4680   |   | 15 @300 HOR EF      | 205     |
| 2444                        |    |    |     |           |      |     |      |   | 2 | 14  | 15m Gr420 | 2580   |   | 15 @300 HOR EF      | 113     |
| 2445                        |    |    |     |           |      |     |      |   | 2 | 14  | 15m Gr420 | 8400   |   | 15 @300 HOR EF      | 369     |
| 2446                        |    |    |     |           |      | 2   |      |   | 2 | 14  | 15m Gr420 | 2900   |   | 15 @300 HOR EF      | 254     |
| 2447                        |    |    |     |           |      |     |      |   | 2 | 14  | 15m Gr420 | 5100   |   | 15 @300 HOR EF      | 224     |
| 2448                        |    |    |     |           |      | 8   |      |   | 2 | 14  | 15m Gr420 | 2000   | H | 15 @300 COR EF      | 703     |
| 2449                        |    |    |     |           |      |     |      |   | 2 | 163 | 15m Gr420 | 1390   | H | 15 @200 DWL EF      | 711     |
| 2450                        |    |    |     |           |      |     |      |   | 3 | 6   | 15m Gr420 | 4850   |   | 6 15@150 ADDL VERT  | 136     |
| 2451                        |    |    |     |           |      |     |      |   | 3 | 14  | 10m Gr420 | 1350   | L | 10 @300 TIES        | 44      |
| 2452                        |    |    |     |           |      |     |      |   | 2 | 16  | 15m Gr420 | 4850   |   | 4 15@150 ADDL VERT  | 243     |
| 2453                        |    |    |     |           |      |     |      |   | 2 | 14  | 10m Gr420 | 1000   | L | 10 @300 TIES        | 21      |
| 2454                        |    |    |     |           |      |     |      |   | 5 | 14  | 15m Gr420 | 4850   |   | 12 15@150 ADDL VERT | 532     |
| 2455                        |    |    |     |           |      |     |      |   | 5 | 14  | 10m Gr420 | 2260   | L | 10 @300 TIES        | 124     |
| 2456                        |    |    |     |           |      |     |      |   | 5 | 14  | 10m Gr420 | 1000   | L | 10 @300 TIES        | 54      |
| 2457                        |    |    |     |           |      |     |      |   |   | 20  | 15m Gr420 | 4850   |   | 20 15@150 ADDL VERT | 152     |
| 2458                        |    |    |     |           |      |     |      |   |   | 14  | 10m Gr420 | 2175   | L | 10 @300 TIES        | 24      |
| 2459                        |    |    |     |           |      |     |      |   |   | 14  | 10m Gr420 | 1975   | L | 10 @300 TIES        | 21      |
| 2460                        |    |    |     |           |      |     |      |   | 2 | 14  | 10m Gr420 | 1000   | L | 10 @300 TIES        | 21      |
| 2461                        |    |    |     |           |      |     |      |   |   | 14  | 15m Gr420 | 4850   |   | 14 15@150 ADDL VERT | 106     |

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| LINE                    | LA | EP | A/D | STRUCTURE | MULT | REQ | CODE | + | X | QTY | SZ/GR     | LENGTH | B | COMMENT             | LINE KG |
|-------------------------|----|----|-----|-----------|------|-----|------|---|---|-----|-----------|--------|---|---------------------|---------|
| 2462                    |    |    |     |           |      |     |      |   |   | 14  | 10m Gr420 | 2200   | L | 10 @300 TIES        | 24      |
| 2463                    |    |    |     |           |      |     |      |   |   | 14  | 10m Gr420 | 1850   | L | 10 @300 TIES        | 20      |
| 2464                    |    |    |     |           |      |     |      |   |   | 14  | 10m Gr420 | 900    | L | 10 @300 TIES        | 9       |
| 2465                    |    |    |     |           |      |     |      |   | 2 | 163 | 15m Gr420 | 1390   | H | 15 @200 DWL EF      | 711     |
| 2466 STAIR CORE WALL W1 |    |    |     |           |      |     |      |   |   |     |           |        |   |                     |         |
| 2467                    |    |    |     |           |      |     |      |   | 2 | 56  | 15m Gr420 | 4850   |   | 15 @350 VERT EF     | 852     |
| 2468                    |    |    |     |           |      |     |      |   | 2 | 14  | 15m Gr420 | 5920   |   | 15 @300 HOR EF      | 260     |
| 2469                    |    |    |     |           |      | 2   |      |   | 2 | 14  | 15m Gr420 | 5100   |   | 15 @300 HOR EF      | 448     |
| 2470                    |    |    |     |           |      |     |      |   | 2 | 14  | 15m Gr420 | 2910   |   | 15 @300 HOR EF      | 127     |
| 2471                    |    |    |     |           |      | 4   |      |   | 2 | 14  | 15m Gr420 | 2000   | H | 15 @300 COR EF      | 351     |
| 2472                    |    |    |     |           |      | 3   |      |   |   | 20  | 20m Gr420 | 4850   |   | 20 20@150 ADDL VERT | 684     |
| 2473                    |    |    |     |           |      | 3   |      |   | 2 | 14  | 10m Gr420 | 2200   | L | 10 @300 TIES        | 145     |
| 2474                    |    |    |     |           |      | 3   |      |   | 2 | 14  | 10m Gr420 | 900    | L | 10 @300 TIES        | 59      |
| 2475                    |    |    |     |           |      | 2   |      |   |   | 16  | 20m Gr420 | 4850   |   | 16 20@150 ADDL VERT | 365     |
| 2476                    |    |    |     |           |      | 2   |      |   |   | 14  | 10m Gr420 | 2840   | L | 10 @300 TIES        | 62      |
| 2477                    |    |    |     |           |      | 2   |      |   |   | 14  | 10m Gr420 | 900    | L | 10 @300 TIES        | 19      |
| 2478                    |    |    |     |           |      |     |      |   | 2 | 98  | 15m Gr420 | 1390   | H | 15 @200 DWL EF      | 427     |
| 2479 WALL W2 (5810 mm)  |    |    |     |           |      |     |      |   |   |     |           |        |   |                     |         |
| 2480                    |    |    |     |           |      |     |      |   | 2 | 18  | 15m Gr420 | 4850   |   | 15 @350 VERT EF     | 273     |
| 2481                    |    |    |     |           |      |     |      |   | 2 | 14  | 15m Gr420 | 5810   |   | 15 @300 HOR EF      | 255     |
| 2482                    |    |    |     |           |      |     |      |   | 6 | 6   | 15m Gr420 | 4850   |   | 6 15 ADDL VERT      | 273     |
| 2483                    |    |    |     |           |      |     |      |   | 6 | 17  | 10m Gr420 | 800    | L | 10 @250 TIES        | 63      |
| 2484                    |    |    |     |           |      |     |      |   | 2 | 31  | 15m Gr420 | 1390   | H | 15 @200 DWL EF      | 135     |

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## \*\* ESTIMATING BAR LIST \*\*

| LINE                    | LA | EP | A/D | STRUCTURE                 | MULT | REQ | CODE | + | X  | QTY | SZ/GR     | LENGTH | B | COMMENT         | LINE KG |
|-------------------------|----|----|-----|---------------------------|------|-----|------|---|----|-----|-----------|--------|---|-----------------|---------|
| 2485 WALL W3 (37770 mm) |    |    |     |                           |      |     |      |   |    |     |           |        |   |                 |         |
| 2486                    |    |    |     |                           |      |     |      |   | 2  | 109 | 15m Gr420 | 4850   |   | 15 @350 VERT EF | 1660    |
| 2487                    |    |    |     |                           |      |     |      |   | 2  | 14  | 15m Gr420 | 44265  |   | 15 @300 HOR EF  | 1945    |
| 2488                    |    |    |     |                           |      |     |      |   | 28 | 8   | 15m Gr420 | 4850   |   | 8 15 ADDL VERT  | 1705    |
| 2489                    |    |    |     |                           |      |     |      |   | 28 | 17  | 10m Gr420 | 1000   | L | 10 @250 TIES    | 373     |
| 2490                    |    |    |     |                           |      |     |      |   | 2  | 190 | 15m Gr420 | 1390   | H | 15 @200 DWL EF  | 829     |
| 2491 WALL W4 (34410 mm) |    |    |     |                           |      |     |      |   |    |     |           |        |   |                 |         |
| 2492                    |    |    |     |                           |      |     |      |   | 2  | 100 | 15m Gr420 | 4850   |   | 15 @350 VERT EF | 1522    |
| 2493                    |    |    |     |                           |      |     |      |   | 2  | 14  | 15m Gr420 | 36000  |   | 15 @300 HOR EF  | 1582    |
| 2494                    |    |    |     |                           |      |     |      |   | 10 | 14  | 15m Gr420 | 4850   |   | 12 15 ADDL VERT | 1065    |
| 2495                    |    |    |     |                           |      |     |      |   | 10 | 17  | 10m Gr420 | 1300   | L | 10 @250 TIES    | 173     |
| 2496                    |    |    |     |                           |      |     |      |   | 2  | 174 | 15m Gr420 | 1390   | H | 15 @200 DWL EF  | 759     |
| 2497 WALL W5 (26580 mm) |    |    |     |                           |      |     |      |   |    |     |           |        |   |                 |         |
| 2498                    |    |    |     |                           |      |     |      |   | 2  | 77  | 15m Gr420 | 4850   |   | 15 @350 VERT EF | 1172    |
| 2499                    |    |    |     |                           |      |     |      |   | 2  | 14  | 15m Gr420 | 28000  |   | 15 @300 HOR EF  | 1231    |
| 2500                    |    |    |     |                           |      |     |      |   | 4  | 16  | 15m Gr420 | 4850   |   | 16 15 ADDL VERT | 487     |
| 2501                    |    |    |     |                           |      |     |      |   | 4  | 17  | 10m Gr420 | 1600   | L | 10 @250 TIES    | 85      |
| 2502                    |    |    |     |                           |      |     |      |   | 2  | 133 | 15m Gr420 | 1390   | H | 15 @200 DWL EF  | 580     |
| 2503                    |    |    |     |                           |      |     |      |   |    |     |           |        |   |                 |         |
| >MECH. SLAB             |    |    |     | MECHANICAL PENTHOUSE SLAB |      |     |      |   |    |     |           |        |   |                 |         |
| 2505                    |    |    |     |                           |      |     |      |   | 2  | 785 | 15m Gr420 | 12192  |   | 15@300 T&B EW   | 30052   |
| 2506                    |    |    |     |                           |      |     |      |   |    | 900 | 15m Gr420 | 1625   | L | 15 STANDEE      | 2296    |
| 2507                    |    |    |     |                           |      |     |      |   |    | 37  | 15m Gr420 | 1750   | L | 15@300 T ADDL   | 101     |

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## \*\* ESTIMATING BAR LIST \*\*

| LINE | LA | EP | A/D | STRUCTURE | MULT | REQ | CODE | + | X | QTY | SZ/GR     | LENGTH | B | COMMENT          | LINE KG |
|------|----|----|-----|-----------|------|-----|------|---|---|-----|-----------|--------|---|------------------|---------|
| 2508 |    |    |     |           |      |     |      |   |   | 2   | 15m Gr420 | 4000   |   | 2 15@300 T ADDL  | 12      |
| 2509 |    |    |     |           |      |     |      |   |   | 6   | 15m Gr420 | 2000   | L | 15@300 T ADDL    | 19      |
| 2510 |    |    |     |           |      |     |      |   |   | 26  | 15m Gr420 | 4000   |   | 26 15 ADDL       | 163     |
| 2511 |    |    |     |           |      |     |      |   |   | 36  | 15m Gr420 | 5900   |   | 15@300 T ADDL    | 333     |
| 2512 |    |    |     |           |      |     |      |   |   | 40  | 20m Gr420 | 7000   |   | 20@300 T ADDL    | 659     |
| 2513 |    |    |     |           |      |     |      |   |   | 13  | 15m Gr420 | 3000   |   | 15@300 T ADDL    | 61      |
| 2514 |    |    |     |           |      |     |      |   | 2 | 14  | 15m Gr420 | 5000   |   | 15@900 B ADDL    | 219     |
| 2515 |    |    |     |           |      |     |      |   |   | 13  | 15m Gr420 | 6000   |   | 15@300 T ADDL    | 122     |
| 2516 |    |    |     |           |      |     |      |   |   | 45  | 20m Gr420 | 3500   |   | 20@300 T ADDL    | 370     |
| 2517 |    |    |     |           |      |     |      |   |   | 5   | 20m Gr420 | 5000   | H | 5 20@300 T ADDL  | 58      |
| 2518 |    |    |     |           |      |     |      |   |   | 5   | 20m Gr420 | 8500   | H | 5 20@300 T ADDL  | 100     |
| 2519 |    |    |     |           |      |     |      |   |   | 9   | 15m Gr420 | 7000   | H | 9 15@300 T ADDL  | 98      |
| 2520 |    |    |     |           |      |     |      |   |   | 6   | 15m Gr420 | 5000   |   | 6 15@300 T ADDL  | 47      |
| 2521 |    |    |     |           |      |     |      |   |   | 15  | 15m Gr420 | 5000   |   | 15 15@300 T ADDL | 117     |
| 2522 |    |    |     |           |      |     |      |   |   | 35  | 15m Gr420 | 4500   | H | 15@300 T ADDL    | 247     |
| 2523 |    |    |     |           |      |     |      |   |   | 33  | 15m Gr420 | 7000   |   | 15@300 B ADDL    | 362     |
| 2524 |    |    |     |           |      |     |      |   |   | 8   | 15m Gr420 | 4750   |   | 15@300 B ADDL    | 59      |
| 2525 |    |    |     |           |      |     |      |   |   | 31  | 15m Gr420 | 7500   |   | 15@300 B ADDL    | 365     |
| 2526 |    |    |     |           |      |     |      |   |   | 15  | 20m Gr420 | 7000   |   | 15 20@300 T ADDL | 247     |
| 2527 |    |    |     |           |      |     |      |   |   | 11  | 25m Gr420 | 2500   | H | 25@300 T ADDL    | 107     |
| 2528 |    |    |     |           |      |     |      |   |   | 3   | 20m Gr420 | 2000   | H | 3 20@300 T ADDL  | 14      |
| 2529 |    |    |     |           |      |     |      |   |   | 7   | 15m Gr420 | 3000   | H | 15@300 T ADDL    | 33      |
| 2530 |    |    |     |           |      |     |      |   |   | 16  | 15m Gr420 | 3500   |   | 16 15@300 T ADDL | 87      |

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## \*\* ESTIMATING BAR LIST \*\*

| LINE | LA | EP | A/D | STRUCTURE | MULT | REQ | CODE | + | X | QTY | SZ/GR     | LENGTH | B | COMMENT          | LINE KG |
|------|----|----|-----|-----------|------|-----|------|---|---|-----|-----------|--------|---|------------------|---------|
| 2531 |    |    |     |           |      |     |      |   |   | 34  | 15m Gr420 | 4000   | H | 15@300 T ADDL    | 213     |
| 2532 |    |    |     |           |      |     |      |   |   | 2   | 15m Gr420 | 3000   |   | 2 15 B ADDL      | 9       |
| 2533 |    |    |     |           |      |     |      |   |   | 40  | 25m Gr420 | 5000   |   | 25@300 T ADDL    | 784     |
| 2534 |    |    |     |           |      |     |      |   |   | 9   | 20m Gr420 | 5000   |   | 20@300 T ADDL    | 106     |
| 2535 |    |    |     |           |      |     |      |   |   | 13  | 15m Gr420 | 6000   |   | 15@300 T ADDL    | 122     |
| 2536 |    |    |     |           |      |     |      |   |   | 76  | 15m Gr420 | 5000   |   | 15@300 B ADDL    | 596     |
| 2537 |    |    |     |           |      |     |      |   |   | 7   | 15m Gr420 | 3000   | H | 15@600 T ADDL    | 33      |
| 2538 |    |    |     |           |      |     |      |   |   | 6   | 15m Gr420 | 1500   | H | 15@300 T ADDL    | 14      |
| 2539 |    |    |     |           |      |     |      |   |   | 35  | 15m Gr420 | 4500   | H | 15@300 T ADDL    | 247     |
| 2540 |    |    |     |           |      |     |      |   |   | 11  | 15m Gr420 | 3000   |   | 15@300 B ADDL    | 51      |
| 2541 |    |    |     |           |      |     |      |   |   | 39  | 15m Gr420 | 7500   |   | 15@300 B ADDL    | 459     |
| 2542 |    |    |     |           |      |     |      |   |   | 34  | 15m Gr420 | 10500  |   | 15@300 B ADDL    | 560     |
| 2543 |    |    |     |           |      |     |      |   |   | 18  | 20m Gr420 | 7000   | H | 18 20 T ADDL     | 296     |
| 2544 |    |    |     |           |      |     |      |   |   | 5   | 20m Gr420 | 8500   | H | 5 20@300 T ADDL  | 100     |
| 2545 |    |    |     |           |      |     |      |   |   | 5   | 20m Gr420 | 5000   | H | 5 20@300 T ADDL  | 58      |
| 2546 |    |    |     |           |      |     |      |   |   | 13  | 15m Gr420 | 5000   |   | 15@900 T ADDL    | 102     |
| 2547 |    |    |     |           |      |     |      |   |   | 6   | 15m Gr420 | 3000   |   | 6 15@300 T ADDL  | 28      |
| 2548 |    |    |     |           |      |     |      |   |   | 91  | 15m Gr420 | 6000   |   | 15@300 T ADDL    | 857     |
| 2549 |    |    |     |           |      |     |      |   |   | 45  | 15m Gr420 | 7000   |   | 45 15@300 T ADDL | 494     |
| 2550 |    |    |     |           |      |     |      |   |   | 38  | 15m Gr420 | 1750   |   | 15@300 T ADDL    | 104     |
| 2551 |    |    |     |           |      |     |      |   |   | 37  | 15m Gr420 | 5900   |   | 15@300 B ADDL    | 342     |
| 2552 |    |    |     |           |      |     |      |   |   | 6   | 15m Gr420 | 2000   | H | 15@300 T ADDL    | 19      |
| 2553 |    |    |     |           |      |     |      |   |   | 2   | 15m Gr420 | 4000   |   | 2 15@300 T ADDL  | 12      |

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## \*\* ESTIMATING BAR LIST \*\*

| LINE | LA                  | EP | A/D | STRUCTURE                          | MULT | REQ | CODE | + | X  | QTY | SZ/GR     | LENGTH | B | COMMENT          | LINE KG |
|------|---------------------|----|-----|------------------------------------|------|-----|------|---|----|-----|-----------|--------|---|------------------|---------|
| 2554 |                     |    |     |                                    |      |     |      |   |    | 12  | 15m Gr420 | 5000   |   | 15@300 T ADDL    | 94      |
| 2555 |                     |    |     |                                    |      |     |      |   |    | 45  | 20m Gr420 | 7000   |   | 45 20@300 T ADDL | 741     |
| 2556 |                     |    |     |                                    |      |     |      |   |    | 12  | 15m Gr420 | 5000   |   | 15@900 B ADDL    | 94      |
| 2557 |                     |    |     |                                    |      |     |      |   |    | 31  | 20m Gr420 | 1750   | H | 20@300 T ADDL    | 127     |
| 2558 |                     |    |     |                                    |      |     |      |   |    | 11  | 20m Gr420 | 5000   | H | 20@300 T ADDL    | 129     |
| 2559 |                     |    |     |                                    |      |     |      |   |    | 8   | 15m Gr420 | 7000   |   | 8 15@300 T ADDL  | 87      |
| 2560 |                     |    |     |                                    |      |     |      |   |    | 4   | 25m Gr420 | 5000   |   | 2 25 T ADDL      | 78      |
| 2561 |                     |    |     |                                    |      |     |      |   |    | 2   | 20m Gr420 | 3000   |   | 2 20@300 T ADDL  | 14      |
| 2562 |                     |    |     |                                    |      |     |      |   |    | 10  | 25m Gr420 | 2000   | H | 10 25 T ADDL     | 78      |
| 2563 |                     |    |     |                                    |      |     |      |   |    |     |           |        |   |                  |         |
| 2564 | >MECH WALL          |    |     | MECHANICAL PENTHOUSE CONCRETE WALL |      |     |      |   |    |     |           |        |   |                  |         |
| 2565 |                     |    |     |                                    |      |     |      |   | 2  | 665 | 15m Gr420 | 1970   | H | 15@300 DWL EF    | 4113    |
| 2566 |                     |    |     |                                    |      |     |      |   |    | 665 | 15m Gr420 | 800    | H | U-BAR            | 835     |
| 2567 |                     |    |     |                                    |      |     |      |   | 18 | 4   | 20m Gr420 | 12192  |   | 2 20 CONT T&B    | 2066    |
| 2568 |                     |    |     |                                    |      |     |      |   | 18 | 12  | 15m Gr420 | 12192  |   | 15@300 HOR EF    | 4134    |
| 2569 |                     |    |     |                                    |      |     |      |   | 33 | 4   | 20m Gr420 | 1200   | H | 20 COR T&B       | 372     |
| 2570 |                     |    |     |                                    |      |     |      |   | 33 | 12  | 15m Gr420 | 1200   | H | 15 COR T&B       | 746     |
| 2571 | ELEVATOR SHAFT WALL |    |     |                                    |      |     |      |   |    |     |           |        |   |                  |         |
| 2572 |                     |    |     |                                    |      |     |      |   | 2  | 94  | 15m Gr420 | 4850   |   | 15 @350 VERT EF  | 1431    |
| 2573 |                     |    |     |                                    |      |     |      |   | 2  | 14  | 15m Gr420 | 5730   |   | 15 @300 HOR EF   | 251     |
| 2574 |                     |    |     |                                    |      |     |      |   | 2  | 14  | 15m Gr420 | 4680   |   | 15 @300 HOR EF   | 205     |
| 2575 |                     |    |     |                                    |      |     |      |   | 2  | 14  | 15m Gr420 | 2580   |   | 15 @300 HOR EF   | 113     |
| 2576 |                     |    |     |                                    |      |     |      |   | 2  | 14  | 15m Gr420 | 8400   |   | 15 @300 HOR EF   | 369     |

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## \*\* ESTIMATING BAR LIST \*\*

| LINE                 | LA | EP | A/D | STRUCTURE | MULT | REQ | CODE | + | X | QTY | SZ/GR     | LENGTH | B | COMMENT             | LINE KG |
|----------------------|----|----|-----|-----------|------|-----|------|---|---|-----|-----------|--------|---|---------------------|---------|
| 2577                 |    |    |     |           |      | 2   |      |   | 2 | 14  | 15m Gr420 | 2900   |   | 15 @300 HOR EF      | 254     |
| 2578                 |    |    |     |           |      |     |      |   | 2 | 14  | 15m Gr420 | 5100   |   | 15 @300 HOR EF      | 224     |
| 2579                 |    |    |     |           |      | 8   |      |   | 2 | 14  | 15m Gr420 | 2000   | H | 15 @300 COR EF      | 703     |
| 2580                 |    |    |     |           |      |     |      |   | 2 | 163 | 15m Gr420 | 1390   | H | 15 @200 DWL EF      | 711     |
| 2581                 |    |    |     |           |      |     |      |   | 3 | 6   | 15m Gr420 | 4850   |   | 6 15@150 ADDL VERT  | 136     |
| 2582                 |    |    |     |           |      |     |      |   | 3 | 14  | 10m Gr420 | 1350   | L | 10 @300 TIES        | 44      |
| 2583                 |    |    |     |           |      |     |      |   | 2 | 4   | 15m Gr420 | 4850   |   | 4 15@150 ADDL VERT  | 60      |
| 2584                 |    |    |     |           |      |     |      |   | 2 | 14  | 10m Gr420 | 1000   | L | 10 @300 TIES        | 21      |
| 2585                 |    |    |     |           |      |     |      |   | 5 | 14  | 15m Gr420 | 4850   |   | 12 15@150 ADDL VERT | 532     |
| 2586                 |    |    |     |           |      |     |      |   | 5 | 14  | 10m Gr420 | 2260   | L | 10 @300 TIES        | 124     |
| 2587                 |    |    |     |           |      |     |      |   | 5 | 14  | 10m Gr420 | 1000   | L | 10 @300 TIES        | 54      |
| 2588                 |    |    |     |           |      |     |      |   |   | 20  | 15m Gr420 | 4850   |   | 20 15@150 ADDL VERT | 152     |
| 2589                 |    |    |     |           |      |     |      |   |   | 14  | 10m Gr420 | 2175   | L | 10 @300 TIES        | 24      |
| 2590                 |    |    |     |           |      |     |      |   |   | 14  | 10m Gr420 | 1975   | L | 10 @300 TIES        | 21      |
| 2591                 |    |    |     |           |      |     |      |   | 2 | 14  | 10m Gr420 | 1000   | L | 10 @300 TIES        | 21      |
| 2592                 |    |    |     |           |      |     |      |   |   | 14  | 15m Gr420 | 4850   |   | 14 15@150 ADDL VERT | 106     |
| 2593                 |    |    |     |           |      |     |      |   |   | 14  | 10m Gr420 | 2200   | L | 10 @300 TIES        | 24      |
| 2594                 |    |    |     |           |      |     |      |   |   | 14  | 10m Gr420 | 1850   | L | 10 @300 TIES        | 20      |
| 2595                 |    |    |     |           |      |     |      |   |   | 14  | 10m Gr420 | 900    | L | 10 @300 TIES        | 9       |
| 2596                 |    |    |     |           |      |     |      |   | 2 | 163 | 15m Gr420 | 1390   | H | 15 @200 DWL EF      | 711     |
| 2597 STAIR CORE WALL |    |    |     |           |      |     |      |   |   |     |           |        |   |                     |         |
| 2598                 |    |    |     |           |      |     |      |   | 2 | 56  | 15m Gr420 | 4850   |   | 15 @350 VERT EF     | 852     |
| 2599                 |    |    |     |           |      |     |      |   | 2 | 14  | 15m Gr420 | 5920   |   | 15 @300 HOR EF      | 260     |

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| LINE                               | LA | EP | A/D | STRUCTURE | MULT | REQ | CODE | + | X  | QTY | SZ/GR     | LENGTH | B | COMMENT             | LINE KG |
|------------------------------------|----|----|-----|-----------|------|-----|------|---|----|-----|-----------|--------|---|---------------------|---------|
| 2600                               |    |    |     |           |      | 2   |      |   | 2  | 14  | 15m Gr420 | 5100   |   | 15 @300 HOR EF      | 448     |
| 2601                               |    |    |     |           |      |     |      |   | 2  | 14  | 15m Gr420 | 2910   |   | 15 @300 HOR EF      | 127     |
| 2602                               |    |    |     |           |      | 4   |      |   | 2  | 14  | 15m Gr420 | 2000   | H | 15 @300 COR EF      | 351     |
| 2603                               |    |    |     |           |      | 3   |      |   |    | 20  | 20m Gr420 | 4850   |   | 20 20@150 ADDL VERT | 684     |
| 2604                               |    |    |     |           |      | 3   |      |   | 2  | 14  | 10m Gr420 | 2200   | L | 10 @300 TIES        | 145     |
| 2605                               |    |    |     |           |      | 3   |      |   | 2  | 14  | 10m Gr420 | 900    | L | 10 @300 TIES        | 59      |
| 2606                               |    |    |     |           |      | 2   |      |   |    | 16  | 20m Gr420 | 4850   |   | 16 20@150 ADDL VERT | 365     |
| 2607                               |    |    |     |           |      | 2   |      |   |    | 14  | 10m Gr420 | 2840   | L | 10 @300 TIES        | 62      |
| 2608                               |    |    |     |           |      | 2   |      |   |    | 14  | 10m Gr420 | 900    | L | 10 @300 TIES        | 19      |
| 2609                               |    |    |     |           |      |     |      |   | 2  | 98  | 15m Gr420 | 1390   | H | 15 @200 DWL EF      | 427     |
| 2610 REFER SEC 1/S410              |    |    |     |           |      |     |      |   |    |     |           |        |   |                     |         |
| 2611                               |    |    |     |           |      |     |      |   |    | 66  | 10m Gr420 | 410    |   | 10@1000 CMU VERT    | 21      |
| 2612 ELEVATOR TOP SLAB             |    |    |     |           |      |     |      |   |    |     |           |        |   |                     |         |
| 2613                               |    |    |     |           |      |     |      |   | 2  | 12  | 15m Gr420 | 12192  |   | 15#450 EW T&B       | 459     |
| 2614                               |    |    |     |           |      |     |      |   |    | 20  | 10m Gr420 | 1620   | L | 10 STANDEE          | 25      |
| 2615 >GF CMU GROUND FLOOR CMU WALL |    |    |     |           |      |     |      |   |    |     |           |        |   |                     |         |
| 2616                               |    |    |     |           |      |     |      |   |    | 70  | 15m Gr420 | 1045   | H | 15 @400 CMU DWL     | 114     |
| 2617                               |    |    |     |           |      |     |      |   |    | 70  | 15m Gr420 | 3760   |   | 15 @400 VERT        | 413     |
| 2618                               |    |    |     |           |      |     |      |   | 6  | 2   | 15m Gr420 | 6000   |   | 2-15 BB             | 112     |
| 2619                               |    |    |     |           |      |     |      |   | 15 | 2   | 15m Gr420 | 1300   | H | 2-15 BB COR         | 61      |
| 2620                               |    |    |     |           |      |     |      |   |    |     |           |        |   |                     |         |
| 2621 >3RD FL CMU 3rd FLOOR CMU     |    |    |     |           |      |     |      |   |    |     |           |        |   |                     |         |
| 2622                               |    |    |     |           |      |     |      |   |    | 180 | 15m Gr420 | 1110   | H | 15 @800 CMU DWL     | 313     |

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| LINE | LA | EP | A/D | STRUCTURE   | MULT | REQ | CODE | + | X  | QTY | SZ/GR         | LENGTH | B | COMMENT         | LINE KG |
|------|----|----|-----|-------------|------|-----|------|---|----|-----|---------------|--------|---|-----------------|---------|
| 2623 |    |    |     |             |      |     |      |   |    | 180 | 15m Gr420     | 3860   |   | 15 @800 VERT    | 1090    |
| 2624 |    |    |     |             |      |     |      |   | 28 | 2   | 15m Gr420     | 6000   |   | 2-15 BB         | 527     |
| 2625 |    |    |     |             |      |     |      |   | 5  | 2   | 15m Gr420     | 1300   | H | 2-15 BB COR     | 20      |
| 2626 |    |    |     |             |      |     |      |   |    |     |               |        |   |                 |         |
| 2627 |    |    |     | >4TH FL CMU |      |     |      |   |    |     | 4th FLOOR CMU |        |   |                 |         |
| 2628 |    |    |     |             |      |     |      |   |    | 180 | 15m Gr420     | 1110   | H | 15 @800 CMU DWL | 313     |
| 2629 |    |    |     |             |      |     |      |   |    | 180 | 15m Gr420     | 3860   |   | 15 @800 VERT    | 1090    |
| 2630 |    |    |     |             |      |     |      |   | 28 | 2   | 15m Gr420     | 6000   |   | 2-15 BB         | 527     |
| 2631 |    |    |     |             |      |     |      |   | 5  | 2   | 15m Gr420     | 1300   | H | 2-15 BB COR     | 20      |
| 2632 |    |    |     |             |      |     |      |   |    |     |               |        |   |                 |         |
| 2633 |    |    |     | >5TH FL CMU |      |     |      |   |    |     | 5th FLOOR CMU |        |   |                 |         |
| 2634 |    |    |     |             |      |     |      |   |    | 180 | 15m Gr420     | 1110   | H | 15 @800 CMU DWL | 313     |
| 2635 |    |    |     |             |      |     |      |   |    | 180 | 15m Gr420     | 3860   |   | 15 @800 VERT    | 1090    |
| 2636 |    |    |     |             |      |     |      |   | 28 | 2   | 15m Gr420     | 6000   |   | 2-15 BB         | 527     |
| 2637 |    |    |     |             |      |     |      |   | 5  | 2   | 15m Gr420     | 1300   | H | 2-15 BB COR     | 20      |
| 2638 |    |    |     |             |      |     |      |   |    |     |               |        |   |                 |         |
| 2639 |    |    |     | >6TH FL CMU |      |     |      |   |    |     | 6th FLOOR CMU |        |   |                 |         |
| 2640 |    |    |     |             |      |     |      |   |    | 180 | 15m Gr420     | 1110   | H | 15 @800 CMU DWL | 313     |
| 2641 |    |    |     |             |      |     |      |   |    | 180 | 15m Gr420     | 3860   |   | 15 @800 VERT    | 1090    |
| 2642 |    |    |     |             |      |     |      |   | 28 | 2   | 15m Gr420     | 6000   |   | 2-15 BB         | 527     |
| 2643 |    |    |     |             |      |     |      |   | 5  | 2   | 15m Gr420     | 1300   | H | 2-15 BB COR     | 20      |

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**\*\* TOTALS PAGE (KG) \*\***

| BLDG CONCRETE STRUCTURE TOTAL ----- STRAIGHT ----- LIGHT BENT ----- HEAVY BENT ----- STOCK/MILL ----- |     |           |    |         |    |        |    |         |   |                            |  |
|-------------------------------------------------------------------------------------------------------|-----|-----------|----|---------|----|--------|----|---------|---|----------------------------|--|
| SIZE                                                                                                  | %   | Weight    | %  | Weight  | %  | Weight | %  | Weight  | % | Weight                     |  |
| 10m Gr 420                                                                                            | 100 | 43,092    | 29 | 12,421  | 71 | 30,584 |    | 88      |   |                            |  |
| 15m Gr 420                                                                                            | 100 | 642,250   | 81 | 519,673 | 4  | 27,292 | 14 | 92,704  |   | 2,581                      |  |
| 20m Gr 420                                                                                            | 100 | 200,342   | 86 | 172,678 | 1  | 1,270  | 13 | 26,394  |   |                            |  |
| 25m Gr 420                                                                                            | 100 | 126,189   | 92 | 116,479 |    |        | 8  | 9,711   |   |                            |  |
| Average Lbs per Linear Feet = 1.1698                                                                  |     |           |    |         |    |        |    |         |   | Average Rebar Size = 17.02 |  |
| Total 1,011.9 MTons                                                                                   | 100 | 1,011,873 | 81 | 821,250 | 6  | 59,145 | 13 | 128,897 |   | 2,581                      |  |

| BLDG CONCRETE<br>>COL FOOTING        |     |        |                      |        |                        |        |                        |        |                        |        |
|--------------------------------------|-----|--------|----------------------|--------|------------------------|--------|------------------------|--------|------------------------|--------|
| ---- SubStructure ----               |     |        | ----- STRAIGHT ----- |        | ----- LIGHT BENT ----- |        | ----- HEAVY BENT ----- |        | ----- STOCK/MILL ----- |        |
| SIZE                                 | %   | Weight | %                    | Weight | %                      | Weight | %                      | Weight | %                      | Weight |
| 15m Gr 420                           | 100 | 261    |                      |        |                        |        | 100                    | 261    |                        |        |
| 20m Gr 420                           | 100 | 7,078  | 100                  | 7,078  |                        |        |                        |        |                        |        |
| 25m Gr 420                           | 100 | 17,122 | 100                  | 17,122 |                        |        |                        |        |                        |        |
| Average Lbs per Linear Feet = 2.1812 |     |        |                      |        |                        |        |                        |        |                        |        |
| Average Rebar Size = 23.45           |     |        |                      |        |                        |        |                        |        |                        |        |
| Total 24.5 MTons                     | 100 | 24,461 | 99                   | 24,200 |                        |        | 1                      | 261    |                        |        |

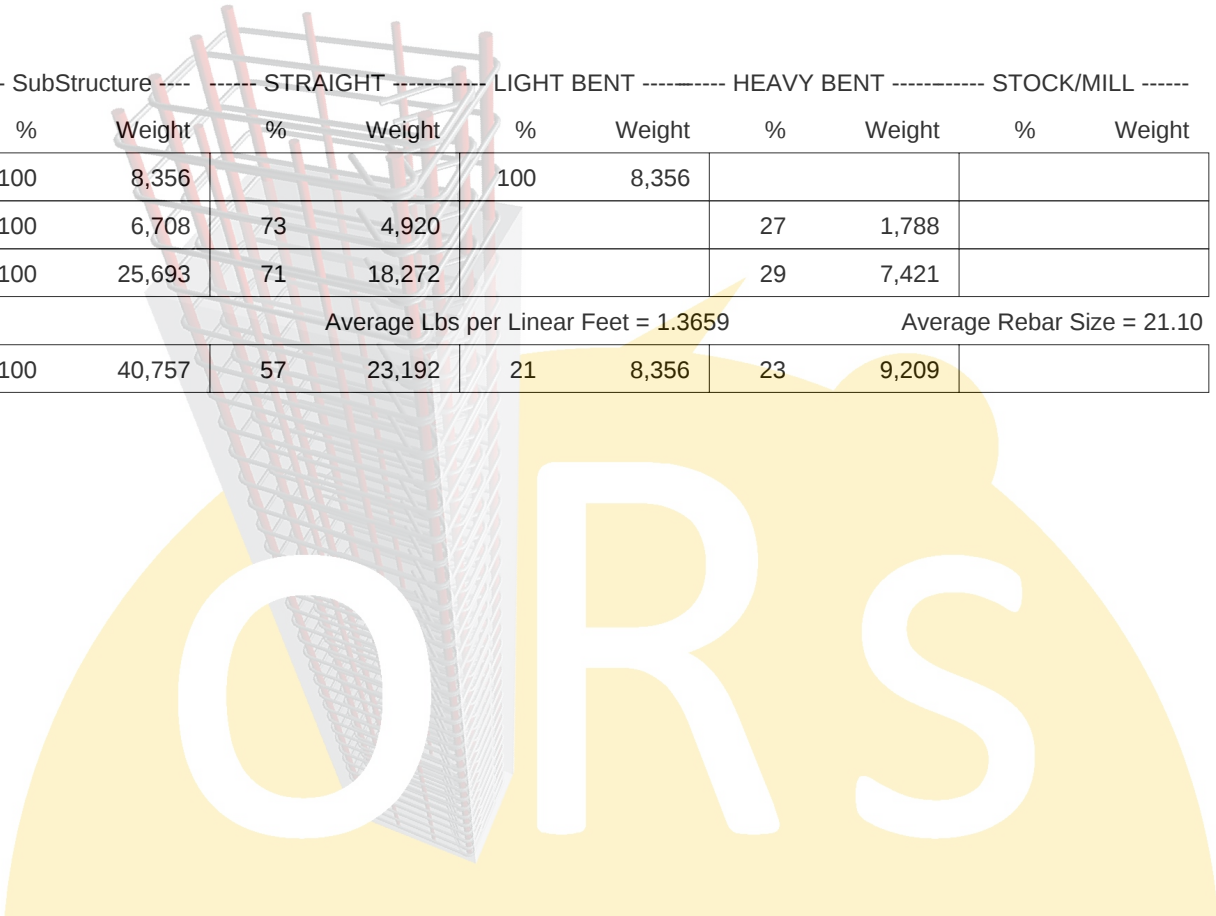
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**\*\* TOTALS PAGE (KG) \*\***

|                                     |     |                      |   |                        |                            |                        |     |                        |   |        |
|-------------------------------------|-----|----------------------|---|------------------------|----------------------------|------------------------|-----|------------------------|---|--------|
| BLDG CONCRETE                       |     |                      |   |                        |                            |                        |     |                        |   |        |
| >CON PILASTER                       |     |                      |   |                        |                            |                        |     |                        |   |        |
| ---- SubStructure ----              |     | ----- STRAIGHT ----- |   | ----- LIGHT BENT ----- |                            | ----- HEAVY BENT ----- |     | ----- STOCK/MILL ----- |   |        |
| SIZE                                | %   | Weight               | % | Weight                 | %                          | Weight                 | %   | Weight                 | % | Weight |
| 10m Gr 420                          | 100 | 285                  |   |                        | 69                         | 197                    | 31  | 88                     |   |        |
| 20m Gr 420                          | 100 | 385                  |   |                        |                            |                        | 100 | 385                    |   |        |
| Average Lbs per Linear Feet = .8540 |     |                      |   |                        | Average Rebar Size = 15.74 |                        |     |                        |   |        |
| Total .7 MTons                      | 100 | 670                  |   |                        | 29                         | 197                    | 71  | 473                    |   |        |

|                                      |     |                      |    |                        |                            |                        |    |                        |   |        |
|--------------------------------------|-----|----------------------|----|------------------------|----------------------------|------------------------|----|------------------------|---|--------|
| BLDG CONCRETE                        |     |                      |    |                        |                            |                        |    |                        |   |        |
| >BSMT COL                            |     |                      |    |                        |                            |                        |    |                        |   |        |
| ---- SubStructure ----               |     | ----- STRAIGHT ----- |    | ----- LIGHT BENT ----- |                            | ----- HEAVY BENT ----- |    | ----- STOCK/MILL ----- |   |        |
| SIZE                                 | %   | Weight               | %  | Weight                 | %                          | Weight                 | %  | Weight                 | % | Weight |
| 10m Gr 420                           | 100 | 8,356                |    |                        | 100                        | 8,356                  |    |                        |   |        |
| 20m Gr 420                           | 100 | 6,708                | 73 | 4,920                  |                            |                        | 27 | 1,788                  |   |        |
| 25m Gr 420                           | 100 | 25,693               | 71 | 18,272                 |                            |                        | 29 | 7,421                  |   |        |
| Average Lbs per Linear Feet = 1.3659 |     |                      |    |                        | Average Rebar Size = 21.10 |                        |    |                        |   |        |
| Total 40.8 MTons                     | 100 | 40,757               | 57 | 23,192                 | 21                         | 8,356                  | 23 | 9,209                  |   |        |



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## \*\* TOTALS PAGE (KG) \*\*

BLDG CONCRETE  
>MAT SLAB ---- SubStructure ---- STRAIGHT ----- LIGHT BENT ----- HEAVY BENT ----- STOCK/MILL -----

SIZE % Weight % Weight % Weight % Weight % Weight % Weight

|            |     |        |     |        |  |  |     |       |  |  |
|------------|-----|--------|-----|--------|--|--|-----|-------|--|--|
| 15m Gr 420 | 100 | 2,924  |     |        |  |  | 100 | 2,924 |  |  |
| 20m Gr 420 | 100 | 3,279  | 75  | 2,468  |  |  | 25  | 811   |  |  |
| 25m Gr 420 | 100 | 55,378 | 100 | 55,378 |  |  |     |       |  |  |

Average Lbs per Linear Feet = 2.3827

Average Rebar Size = 24.26

|                  |     |        |    |        |  |  |   |       |  |  |
|------------------|-----|--------|----|--------|--|--|---|-------|--|--|
| Total 61.6 MTons | 100 | 61,581 | 94 | 57,846 |  |  | 6 | 3,734 |  |  |
|------------------|-----|--------|----|--------|--|--|---|-------|--|--|

BLDG CONCRETE  
>BSMT WALL ---- SubStructure ---- STRAIGHT ----- LIGHT BENT ----- HEAVY BENT ----- STOCK/MILL -----

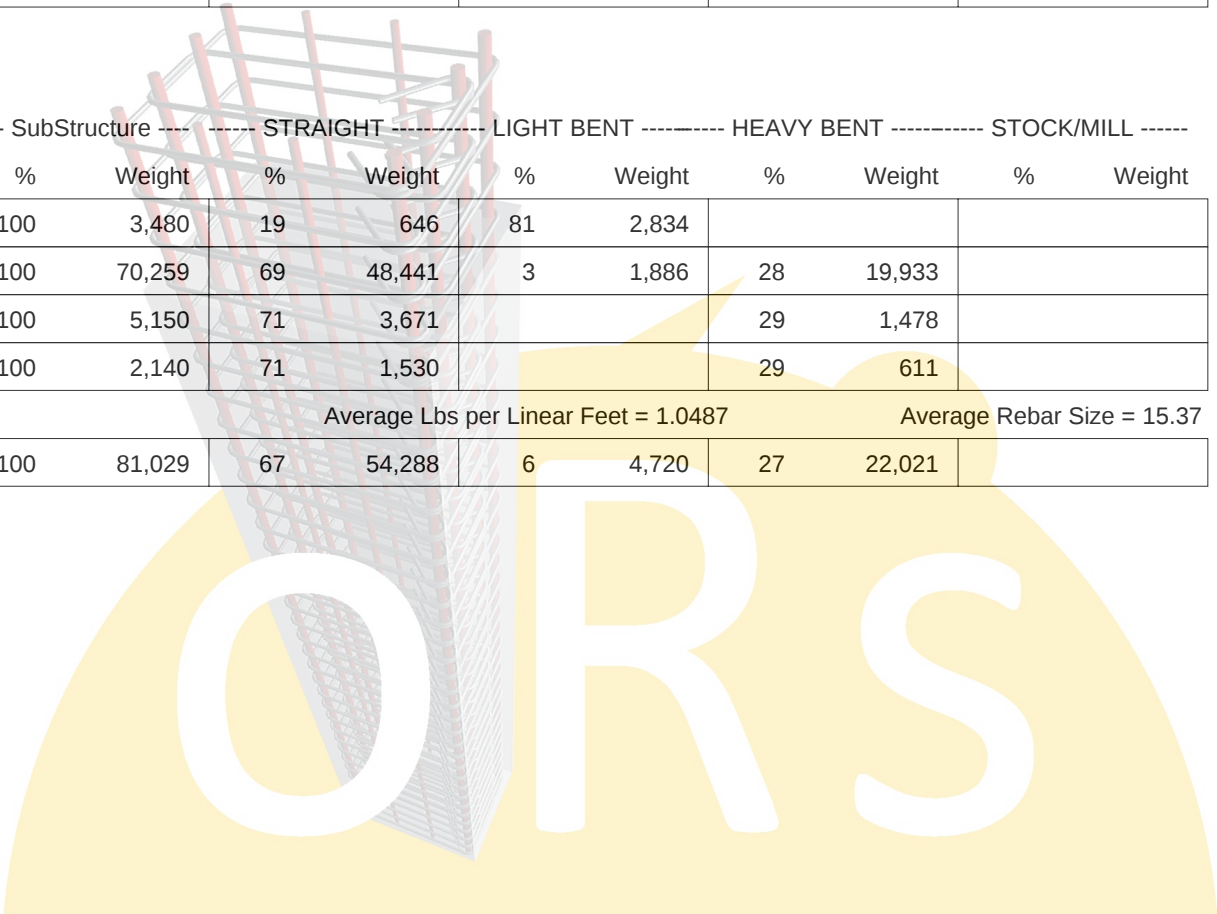
SIZE % Weight % Weight % Weight % Weight % Weight % Weight % Weight

|            |     |        |    |        |    |       |    |        |  |  |
|------------|-----|--------|----|--------|----|-------|----|--------|--|--|
| 10m Gr 420 | 100 | 3,480  | 19 | 646    | 81 | 2,834 |    |        |  |  |
| 15m Gr 420 | 100 | 70,259 | 69 | 48,441 | 3  | 1,886 | 28 | 19,933 |  |  |
| 20m Gr 420 | 100 | 5,150  | 71 | 3,671  |    |       | 29 | 1,478  |  |  |
| 25m Gr 420 | 100 | 2,140  | 71 | 1,530  |    |       | 29 | 611    |  |  |

Average Lbs per Linear Feet = 1.0487

Average Rebar Size = 15.37

|                  |     |        |    |        |   |       |    |        |  |  |
|------------------|-----|--------|----|--------|---|-------|----|--------|--|--|
| Total 81.1 MTons | 100 | 81,029 | 67 | 54,288 | 6 | 4,720 | 27 | 22,021 |  |  |
|------------------|-----|--------|----|--------|---|-------|----|--------|--|--|



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## \*\* TOTALS PAGE (KG) \*\*

| BLDG CONCRETE<br>>GF COLUMN                                          |     |        |                      |        |                        |        |                        |        |                        |        |
|----------------------------------------------------------------------|-----|--------|----------------------|--------|------------------------|--------|------------------------|--------|------------------------|--------|
| ---- SubStructure ----                                               |     |        | ----- STRAIGHT ----- |        | ----- LIGHT BENT ----- |        | ----- HEAVY BENT ----- |        | ----- STOCK/MILL ----- |        |
| SIZE                                                                 | %   | Weight | %                    | Weight | %                      | Weight | %                      | Weight | %                      | Weight |
| 10m Gr 420                                                           | 100 | 1,021  |                      |        | 100                    | 1,021  |                        |        |                        |        |
| 20m Gr 420                                                           | 100 | 3,033  | 93                   | 2,829  |                        |        | 7                      | 205    |                        |        |
| Average Lbs per Linear Feet = 1.0517      Average Rebar Size = 17.48 |     |        |                      |        |                        |        |                        |        |                        |        |
| Total 4.1 MTons                                                      | 100 | 4,054  | 70                   | 2,829  | 25                     | 1,021  | 5                      | 205    |                        |        |

| BLDG CONCRETE<br>>GF SLAB                                            |     |         |                      |         |                        |        |                        |        |                        |        |
|----------------------------------------------------------------------|-----|---------|----------------------|---------|------------------------|--------|------------------------|--------|------------------------|--------|
| ---- SubStructure ----                                               |     |         | ----- STRAIGHT ----- |         | ----- LIGHT BENT ----- |        | ----- HEAVY BENT ----- |        | ----- STOCK/MILL ----- |        |
| SIZE                                                                 | %   | Weight  | %                    | Weight  | %                      | Weight | %                      | Weight | %                      | Weight |
| 10m Gr 420                                                           | 100 | 1,540   | 100                  | 1,540   |                        |        |                        |        |                        |        |
| 15m Gr 420                                                           | 100 | 43,786  | 72                   | 31,664  |                        |        | 28                     | 12,075 |                        | 48     |
| 20m Gr 420                                                           | 100 | 125,555 | 99                   | 123,789 |                        |        | 1                      | 1,766  |                        |        |
| 25m Gr 420                                                           | 100 | 20,823  | 98                   | 20,461  |                        |        | 2                      | 362    |                        |        |
| Average Lbs per Linear Feet = 1.4558      Average Rebar Size = 19.32 |     |         |                      |         |                        |        |                        |        |                        |        |
| Total 191.8 MTons                                                    | 100 | 191,705 | 93                   | 177,454 |                        |        | 7                      | 14,203 |                        | 48     |

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BLDG CONCRETE  
>GF BEAM ---- SubStructure ---- ----- STRAIGHT ----- LIGHT BENT ----- HEAVY BENT ----- STOCK/MILL -----

| SIZE       | %   | Weight | %  | Weight | %   | Weight | %   | Weight | % | Weight |
|------------|-----|--------|----|--------|-----|--------|-----|--------|---|--------|
| 10m Gr 420 | 100 | 579    |    |        | 100 | 579    |     |        |   |        |
| 15m Gr 420 | 100 | 2,326  | 39 | 904    |     |        | 61  | 1,421  |   |        |
| 20m Gr 420 | 100 | 2,147  |    |        |     |        | 100 | 2,147  |   |        |
| 25m Gr 420 | 100 | 1,130  |    |        |     |        | 100 | 1,130  |   |        |

Average Lbs per Linear Feet = 1.2149

Average Rebar Size = 18.10

|                 |     |       |    |     |   |     |    |       |  |  |
|-----------------|-----|-------|----|-----|---|-----|----|-------|--|--|
| Total 6.2 MTons | 100 | 6,182 | 15 | 904 | 9 | 579 | 76 | 4,699 |  |  |
|-----------------|-----|-------|----|-----|---|-----|----|-------|--|--|

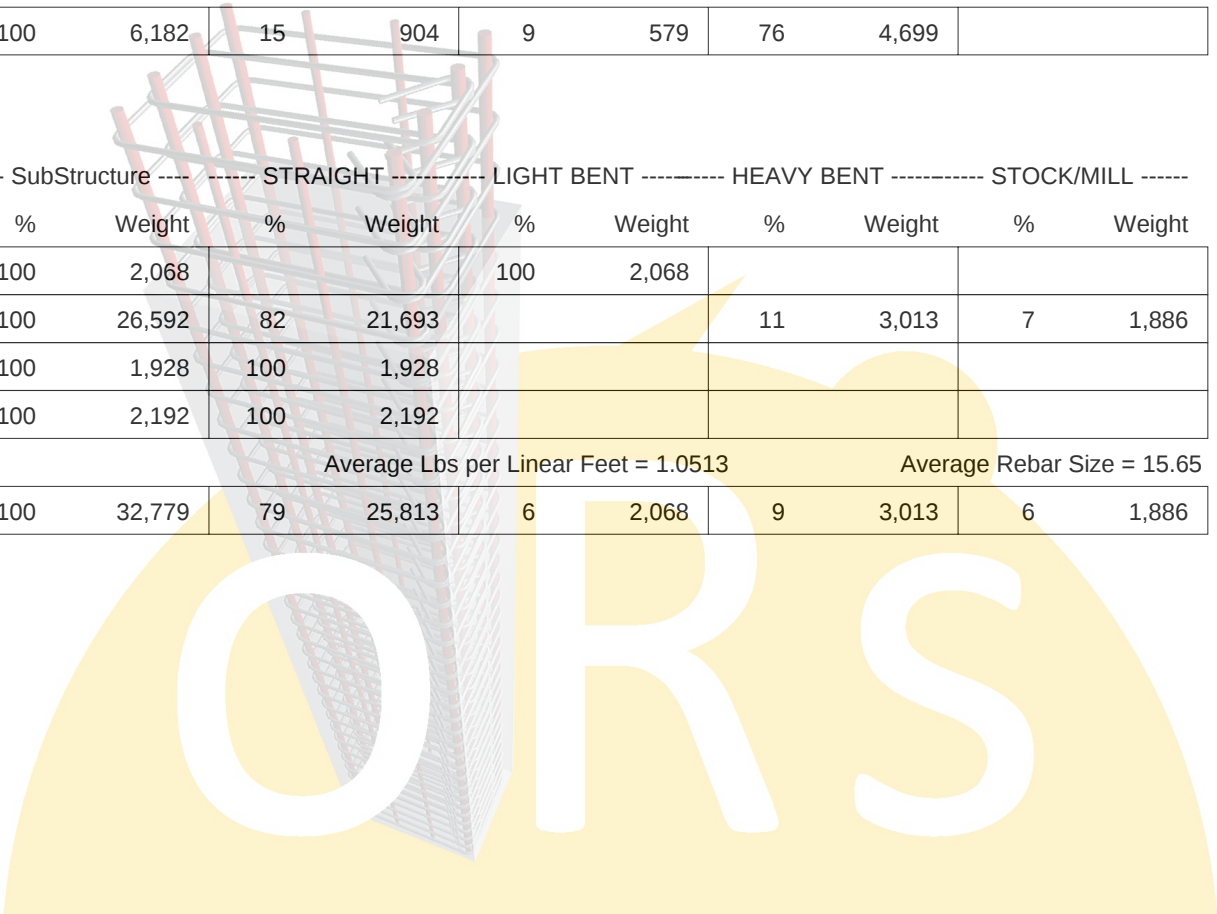
BLDG CONCRETE  
>GF CONC WALL ---- SubStructure ---- ----- STRAIGHT ----- LIGHT BENT ----- HEAVY BENT ----- STOCK/MILL -----

| SIZE       | %   | Weight | %   | Weight | %   | Weight | %  | Weight | % | Weight |
|------------|-----|--------|-----|--------|-----|--------|----|--------|---|--------|
| 10m Gr 420 | 100 | 2,068  |     |        | 100 | 2,068  |    |        |   |        |
| 15m Gr 420 | 100 | 26,592 | 82  | 21,693 |     |        | 11 | 3,013  | 7 | 1,886  |
| 20m Gr 420 | 100 | 1,928  | 100 | 1,928  |     |        |    |        |   |        |
| 25m Gr 420 | 100 | 2,192  | 100 | 2,192  |     |        |    |        |   |        |

Average Lbs per Linear Feet = 1.0513

Average Rebar Size = 15.65

|                  |     |        |    |        |   |       |   |       |   |       |
|------------------|-----|--------|----|--------|---|-------|---|-------|---|-------|
| Total 32.8 MTons | 100 | 32,779 | 79 | 25,813 | 6 | 2,068 | 9 | 3,013 | 6 | 1,886 |
|------------------|-----|--------|----|--------|---|-------|---|-------|---|-------|

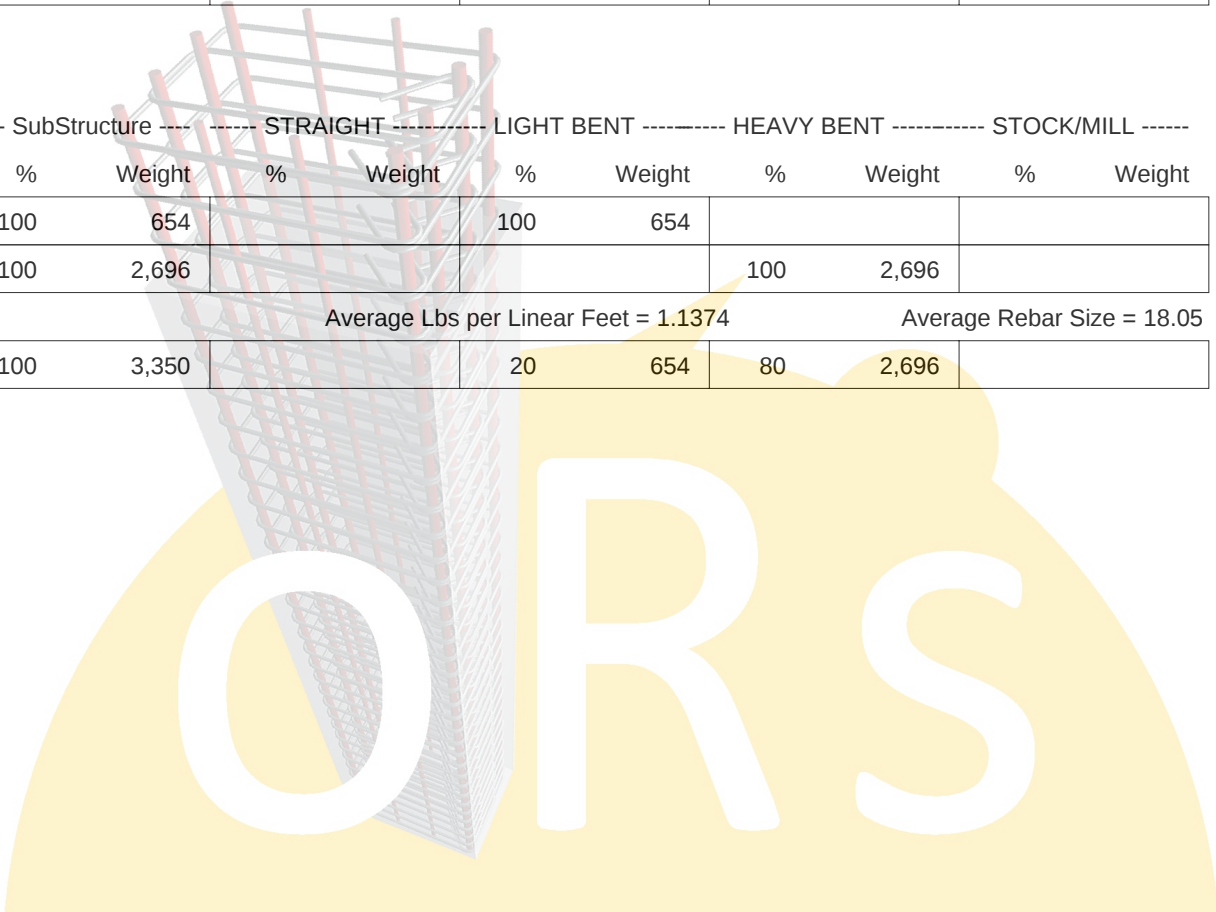


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**\*\* TOTALS PAGE (KG) \*\***

| BLDG CONCRETE<br>>2ND FLR SLAB       |     |                      |    |                        |    |                        |   |                        |   |        |
|--------------------------------------|-----|----------------------|----|------------------------|----|------------------------|---|------------------------|---|--------|
| ---- SubStructure ----               |     | ----- STRAIGHT ----- |    | ----- LIGHT BENT ----- |    | ----- HEAVY BENT ----- |   | ----- STOCK/MILL ----- |   |        |
| SIZE                                 | %   | Weight               | %  | Weight                 | %  | Weight                 | % | Weight                 | % | Weight |
| 10m Gr 420                           | 100 | 1,552                | 96 | 1,486                  | 4  | 66                     |   |                        |   |        |
| 15m Gr 420                           | 100 | 34,934               | 90 | 31,568                 | 9  | 3,289                  |   |                        |   | 76     |
| 20m Gr 420                           | 100 | 2,045                | 90 | 1,837                  | 10 | 209                    |   |                        |   |        |
| Average Lbs per Linear Feet = 1.0316 |     |                      |    |                        |    |                        |   |                        |   |        |
| Average Rebar Size = 15.06           |     |                      |    |                        |    |                        |   |                        |   |        |
| Total 38.6 MTons                     | 100 | 38,531               | 91 | 34,891                 | 9  | 3,563                  |   |                        |   | 76     |

| BLDG CONCRETE<br>>2ND FLR COL        |     |        |                      |        |                        |                            |                        |        |                        |        |
|--------------------------------------|-----|--------|----------------------|--------|------------------------|----------------------------|------------------------|--------|------------------------|--------|
| ---- SubStructure ----               |     |        | ----- STRAIGHT ----- |        | ----- LIGHT BENT ----- |                            | ----- HEAVY BENT ----- |        | ----- STOCK/MILL ----- |        |
| SIZE                                 | %   | Weight | %                    | Weight | %                      | Weight                     | %                      | Weight | %                      | Weight |
| 10m Gr 420                           | 100 | 654    |                      |        | 100                    | 654                        |                        |        |                        |        |
| 20m Gr 420                           | 100 | 2,696  |                      |        |                        |                            | 100                    | 2,696  |                        |        |
| Average Lbs per Linear Feet = 1.1374 |     |        |                      |        |                        | Average Rebar Size = 18.05 |                        |        |                        |        |
| Total 3.4 MTons                      | 100 | 3,350  |                      |        | 20                     | 654                        | 80                     | 2,696  |                        |        |



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## \*\* TOTALS PAGE (KG) \*\*

## BLDG CONCRETE

&gt;2ND FLR WALL ---- SubStructure ---- ----- STRAIGHT ----- LIGHT BENT ----- HEAVY BENT ----- STOCK/MILL -----

| SIZE       | %   | Weight | %   | Weight | %   | Weight | %  | Weight | % | Weight |
|------------|-----|--------|-----|--------|-----|--------|----|--------|---|--------|
| 10m Gr 420 | 100 | 1,582  |     |        | 100 | 1,582  |    |        |   |        |
| 15m Gr 420 | 100 | 25,663 | 77  | 19,665 |     |        | 23 | 5,998  |   |        |
| 20m Gr 420 | 100 | 1,863  | 100 | 1,863  |     |        |    |        |   |        |
| 25m Gr 420 | 100 | 661    | 100 | 661    |     |        |    |        |   |        |

Average Lbs per Linear Feet = 1.0352

Average Rebar Size = 15.27

|                  |     |        |    |        |   |       |    |       |  |  |
|------------------|-----|--------|----|--------|---|-------|----|-------|--|--|
| Total 29.8 MTons | 100 | 29,769 | 75 | 22,189 | 5 | 1,582 | 20 | 5,998 |  |  |
|------------------|-----|--------|----|--------|---|-------|----|-------|--|--|

## BLDG CONCRETE

&gt;3RD FLR SLAB ---- SubStructure ---- ----- STRAIGHT ----- LIGHT BENT ----- HEAVY BENT ----- STOCK/MILL -----

| SIZE       | %   | Weight | %  | Weight | %  | Weight | % | Weight | % | Weight |
|------------|-----|--------|----|--------|----|--------|---|--------|---|--------|
| 10m Gr 420 | 100 | 1,552  | 96 | 1,486  | 4  | 66     |   |        |   |        |
| 15m Gr 420 | 100 | 35,556 | 90 | 32,076 | 9  | 3,289  |   |        | 1 | 191    |
| 20m Gr 420 | 100 | 2,130  | 90 | 1,921  | 10 | 209    |   |        |   |        |

Average Lbs per Linear Feet = 1.0327

Average Rebar Size = 15.07

|                  |     |        |    |        |   |       |  |  |  |     |
|------------------|-----|--------|----|--------|---|-------|--|--|--|-----|
| Total 39.3 MTons | 100 | 39,238 | 90 | 35,484 | 9 | 3,563 |  |  |  | 191 |
|------------------|-----|--------|----|--------|---|-------|--|--|--|-----|

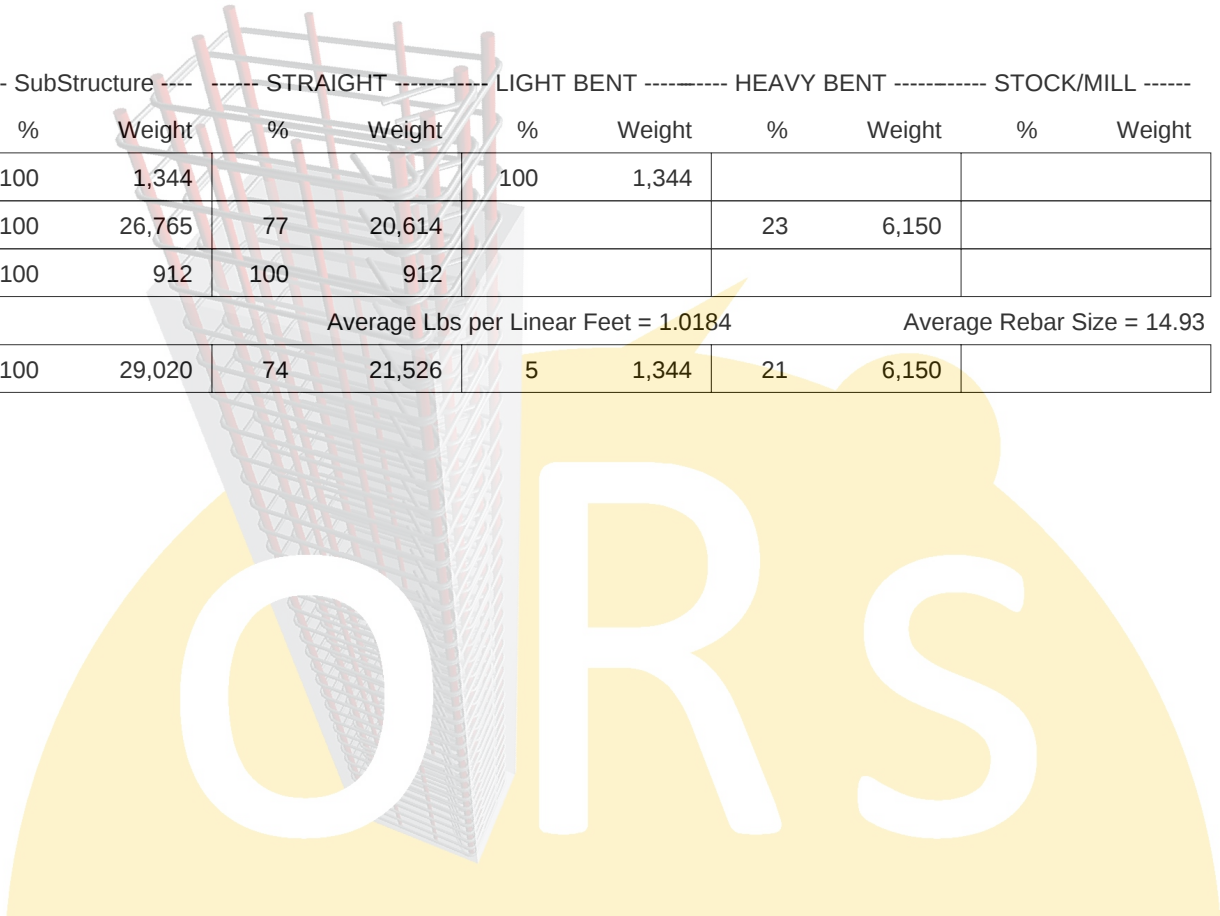
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**\*\* TOTALS PAGE (KG) \*\***

|                                                                                                             |     |        |   |        |     |        |     |        |   |        |
|-------------------------------------------------------------------------------------------------------------|-----|--------|---|--------|-----|--------|-----|--------|---|--------|
| BLDG CONCRETE                                                                                               |     |        |   |        |     |        |     |        |   |        |
| >3RD FLR COL ---- SubStructure ---- ----- STRAIGHT ----- LIGHT BENT ----- HEAVY BENT ----- STOCK/MILL ----- |     |        |   |        |     |        |     |        |   |        |
| SIZE                                                                                                        | %   | Weight | % | Weight | %   | Weight | %   | Weight | % | Weight |
| 10m Gr 420                                                                                                  | 100 | 654    |   |        | 100 | 654    |     |        |   |        |
| 20m Gr 420                                                                                                  | 100 | 2,696  |   |        |     |        | 100 | 2,696  |   |        |
| Average Lbs per Linear Feet = 1.1374 Average Rebar Size = 18.05                                             |     |        |   |        |     |        |     |        |   |        |
| Total 3.4 MTons                                                                                             | 100 | 3,350  |   |        | 20  | 654    | 80  | 2,696  |   |        |

|                                                                                                              |     |        |     |        |     |        |    |        |   |        |
|--------------------------------------------------------------------------------------------------------------|-----|--------|-----|--------|-----|--------|----|--------|---|--------|
| BLDG CONCRETE                                                                                                |     |        |     |        |     |        |    |        |   |        |
| >3RD FLR WALL ---- SubStructure ---- ----- STRAIGHT ----- LIGHT BENT ----- HEAVY BENT ----- STOCK/MILL ----- |     |        |     |        |     |        |    |        |   |        |
| SIZE                                                                                                         | %   | Weight | %   | Weight | %   | Weight | %  | Weight | % | Weight |
| 10m Gr 420                                                                                                   | 100 | 1,344  |     |        | 100 | 1,344  |    |        |   |        |
| 15m Gr 420                                                                                                   | 100 | 26,765 | 77  | 20,614 |     |        | 23 | 6,150  |   |        |
| 20m Gr 420                                                                                                   | 100 | 912    | 100 | 912    |     |        |    |        |   |        |
| Average Lbs per Linear Feet = 1.0184 Average Rebar Size = 14.93                                              |     |        |     |        |     |        |    |        |   |        |
| Total 29.1 MTons                                                                                             | 100 | 29,020 | 74  | 21,526 | 5   | 1,344  | 21 | 6,150  |   |        |

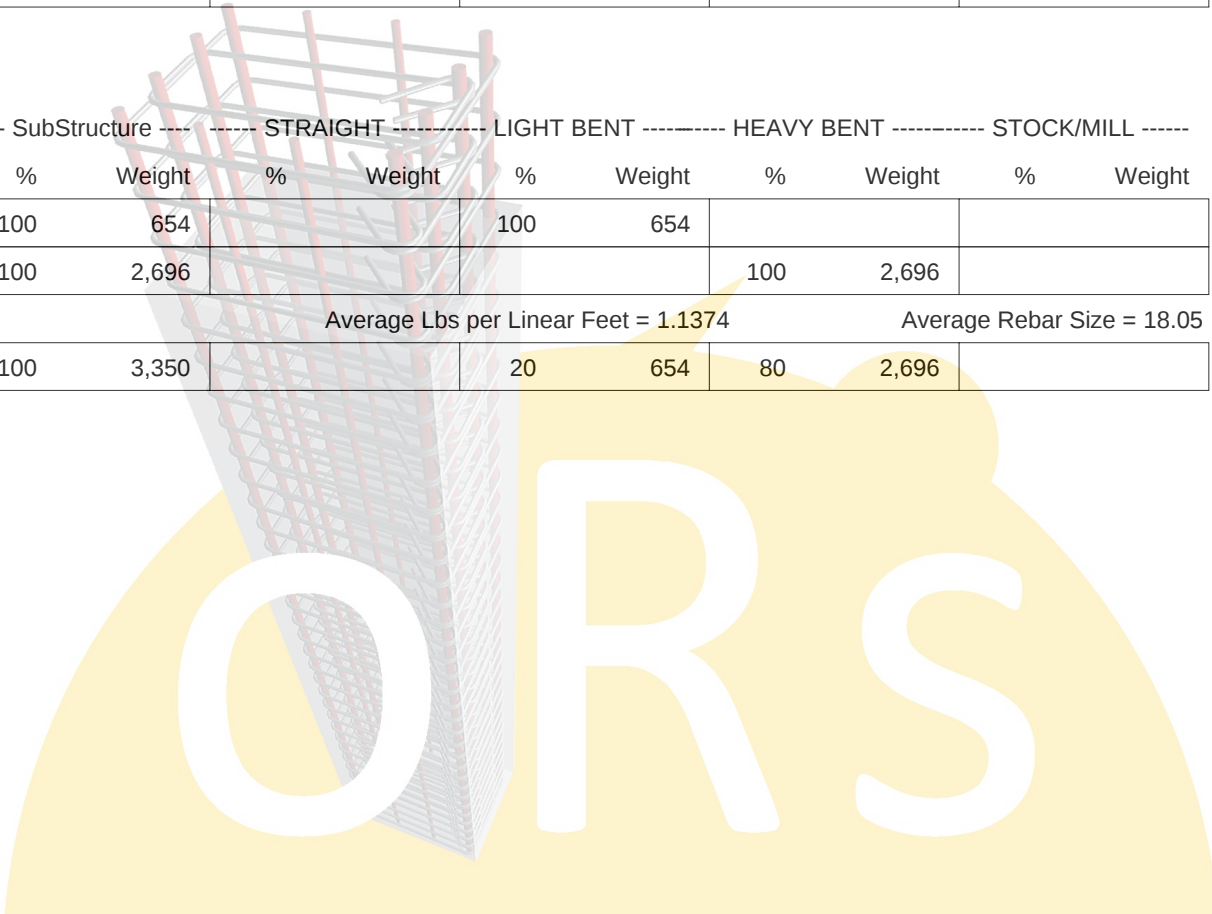


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**\*\* TOTALS PAGE (KG) \*\***

|                                                                                                              |     |        |    |        |    |        |   |        |   |        |
|--------------------------------------------------------------------------------------------------------------|-----|--------|----|--------|----|--------|---|--------|---|--------|
| BLDG CONCRETE                                                                                                |     |        |    |        |    |        |   |        |   |        |
| >4TH FLR SLAB ---- SubStructure ---- ----- STRAIGHT ----- LIGHT BENT ----- HEAVY BENT ----- STOCK/MILL ----- |     |        |    |        |    |        |   |        |   |        |
| SIZE                                                                                                         | %   | Weight | %  | Weight | %  | Weight | % | Weight | % | Weight |
| 10m Gr 420                                                                                                   | 100 | 1,794  | 83 | 1,486  | 17 | 308    |   |        |   |        |
| 15m Gr 420                                                                                                   | 100 | 35,059 | 90 | 31,693 | 9  | 3,289  |   |        |   | 76     |
| 20m Gr 420                                                                                                   | 100 | 2,133  | 90 | 1,925  | 10 | 209    |   |        |   |        |
| Average Lbs per Linear Feet = 1.0264 Average Rebar Size = 15.04                                              |     |        |    |        |    |        |   |        |   |        |
| Total 39.0 MTons                                                                                             | 100 | 38,986 | 90 | 35,105 | 10 | 3,805  |   |        |   | 76     |

|                                                                                                             |     |        |   |        |     |        |     |        |   |        |
|-------------------------------------------------------------------------------------------------------------|-----|--------|---|--------|-----|--------|-----|--------|---|--------|
| BLDG CONCRETE                                                                                               |     |        |   |        |     |        |     |        |   |        |
| >4TH FLR COL ---- SubStructure ---- ----- STRAIGHT ----- LIGHT BENT ----- HEAVY BENT ----- STOCK/MILL ----- |     |        |   |        |     |        |     |        |   |        |
| SIZE                                                                                                        | %   | Weight | % | Weight | %   | Weight | %   | Weight | % | Weight |
| 10m Gr 420                                                                                                  | 100 | 654    |   |        | 100 | 654    |     |        |   |        |
| 20m Gr 420                                                                                                  | 100 | 2,696  |   |        |     |        | 100 | 2,696  |   |        |
| Average Lbs per Linear Feet = 1.1374 Average Rebar Size = 18.05                                             |     |        |   |        |     |        |     |        |   |        |
| Total 3.4 MTons                                                                                             | 100 | 3,350  |   |        | 20  | 654    | 80  | 2,696  |   |        |



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**\*\* TOTALS PAGE (KG) \*\***

BLDG CONCRETE  
>4TH FLR WALL ---- SubStructure ---- ----- STRAIGHT ----- LIGHT BENT ----- HEAVY BENT ----- STOCK/MILL -----

| SIZE       | %   | Weight | %   | Weight | %   | Weight | %  | Weight | % | Weight |
|------------|-----|--------|-----|--------|-----|--------|----|--------|---|--------|
| 10m Gr 420 | 100 | 1,344  |     |        | 100 | 1,344  |    |        |   |        |
| 15m Gr 420 | 100 | 26,725 | 77  | 20,575 |     |        | 23 | 6,150  |   |        |
| 20m Gr 420 | 100 | 912    | 100 | 912    |     |        |    |        |   |        |

Average Lbs per Linear Feet = 1.0184

Average Rebar Size = 14.93

|                  |     |        |    |        |   |       |    |       |  |  |
|------------------|-----|--------|----|--------|---|-------|----|-------|--|--|
| Total 29.0 MTons | 100 | 28,981 | 74 | 21,487 | 5 | 1,344 | 21 | 6,150 |  |  |
|------------------|-----|--------|----|--------|---|-------|----|-------|--|--|

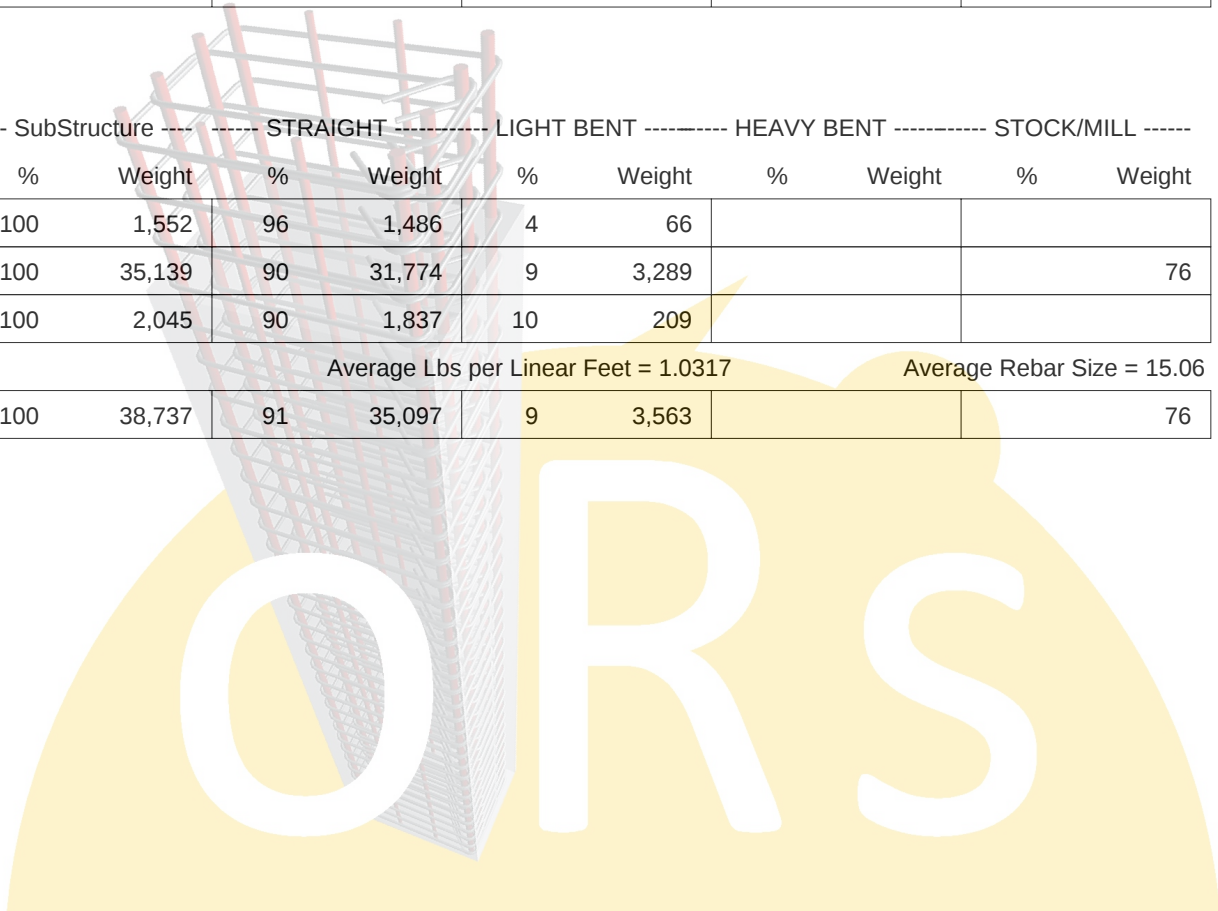
BLDG CONCRETE  
>5RD FLR SLAB ---- SubStructure ---- ----- STRAIGHT ----- LIGHT BENT ----- HEAVY BENT ----- STOCK/MILL -----

| SIZE       | %   | Weight | %  | Weight | %  | Weight | % | Weight | % | Weight |
|------------|-----|--------|----|--------|----|--------|---|--------|---|--------|
| 10m Gr 420 | 100 | 1,552  | 96 | 1,486  | 4  | 66     |   |        |   |        |
| 15m Gr 420 | 100 | 35,139 | 90 | 31,774 | 9  | 3,289  |   |        |   | 76     |
| 20m Gr 420 | 100 | 2,045  | 90 | 1,837  | 10 | 209    |   |        |   |        |

Average Lbs per Linear Feet = 1.0317

Average Rebar Size = 15.06

|                  |     |        |    |        |   |       |  |  |  |    |
|------------------|-----|--------|----|--------|---|-------|--|--|--|----|
| Total 38.8 MTons | 100 | 38,737 | 91 | 35,097 | 9 | 3,563 |  |  |  | 76 |
|------------------|-----|--------|----|--------|---|-------|--|--|--|----|

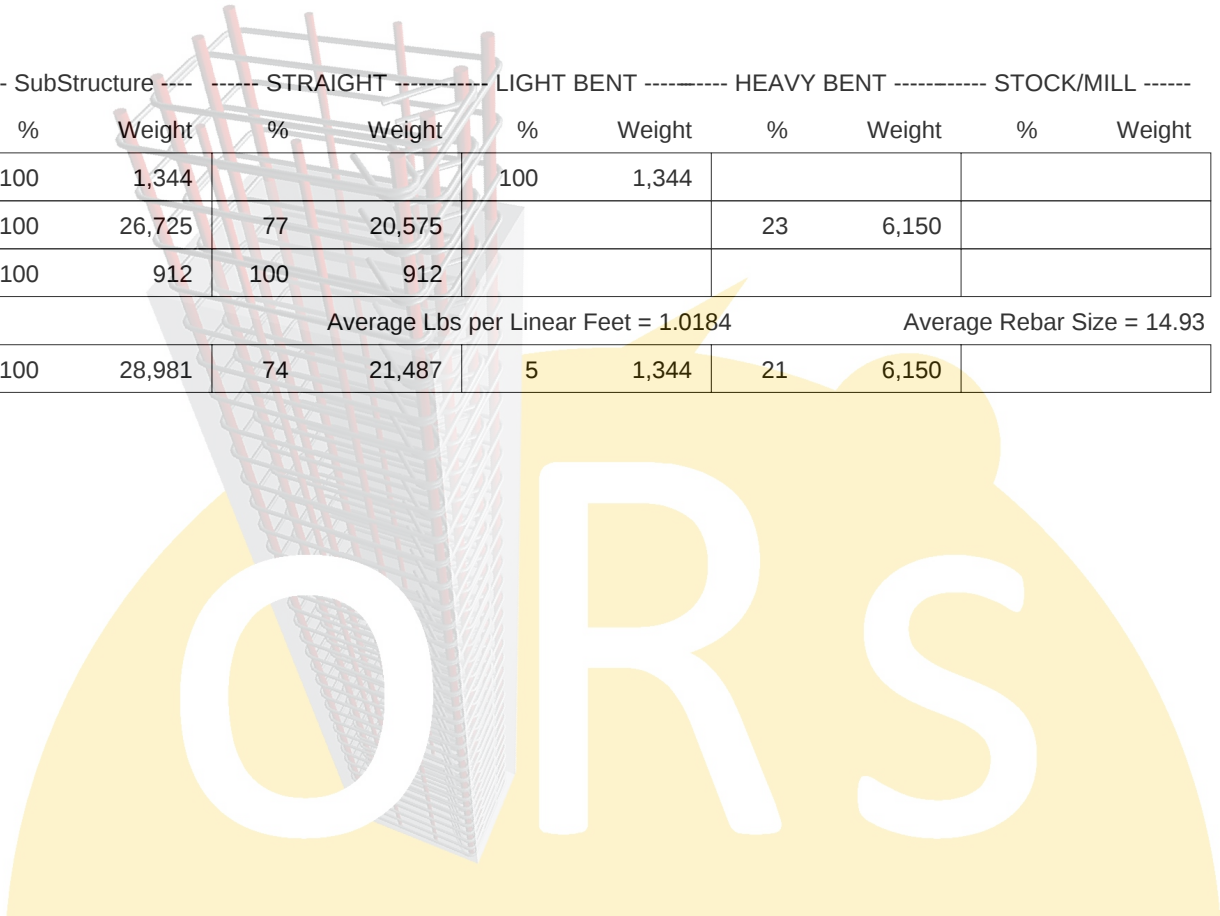


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**\*\* TOTALS PAGE (KG) \*\***

|                                      |     |                      |   |                        |     |                        |     |                        |   |        |
|--------------------------------------|-----|----------------------|---|------------------------|-----|------------------------|-----|------------------------|---|--------|
| BLDG CONCRETE                        |     |                      |   |                        |     |                        |     |                        |   |        |
| >5TH FLR COL                         |     |                      |   |                        |     |                        |     |                        |   |        |
| ---- SubStructure ----               |     | ----- STRAIGHT ----- |   | ----- LIGHT BENT ----- |     | ----- HEAVY BENT ----- |     | ----- STOCK/MILL ----- |   |        |
| SIZE                                 | %   | Weight               | % | Weight                 | %   | Weight                 | %   | Weight                 | % | Weight |
| 10m Gr 420                           | 100 | 654                  |   |                        | 100 | 654                    |     |                        |   |        |
| 20m Gr 420                           | 100 | 2,696                |   |                        |     |                        | 100 | 2,696                  |   |        |
| Average Lbs per Linear Feet = 1.1374 |     |                      |   |                        |     |                        |     |                        |   |        |
| Average Rebar Size = 18.05           |     |                      |   |                        |     |                        |     |                        |   |        |
| Total 3.4 MTons                      | 100 | 3,350                |   |                        | 20  | 654                    | 80  | 2,696                  |   |        |

|                                      |     |                      |     |                        |     |                        |    |                        |   |        |
|--------------------------------------|-----|----------------------|-----|------------------------|-----|------------------------|----|------------------------|---|--------|
| BLDG CONCRETE                        |     |                      |     |                        |     |                        |    |                        |   |        |
| >5TH FLR WALL                        |     |                      |     |                        |     |                        |    |                        |   |        |
| ---- SubStructure ----               |     | ----- STRAIGHT ----- |     | ----- LIGHT BENT ----- |     | ----- HEAVY BENT ----- |    | ----- STOCK/MILL ----- |   |        |
| SIZE                                 | %   | Weight               | %   | Weight                 | %   | Weight                 | %  | Weight                 | % | Weight |
| 10m Gr 420                           | 100 | 1,344                |     |                        | 100 | 1,344                  |    |                        |   |        |
| 15m Gr 420                           | 100 | 26,725               | 77  | 20,575                 |     |                        | 23 | 6,150                  |   |        |
| 20m Gr 420                           | 100 | 912                  | 100 | 912                    |     |                        |    |                        |   |        |
| Average Lbs per Linear Feet = 1.0184 |     |                      |     |                        |     |                        |    |                        |   |        |
| Average Rebar Size = 14.93           |     |                      |     |                        |     |                        |    |                        |   |        |
| Total 29.0 MTons                     | 100 | 28,981               | 74  | 21,487                 | 5   | 1,344                  | 21 | 6,150                  |   |        |



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**\*\* TOTALS PAGE (KG) \*\***

BLDG CONCRETE  
>6TH FLR SLAB ---- SubStructure ---- ----- STRAIGHT ----- LIGHT BENT ----- HEAVY BENT ----- STOCK/MILL -----

| SIZE       | %   | Weight | %  | Weight | %  | Weight | % | Weight | % | Weight |
|------------|-----|--------|----|--------|----|--------|---|--------|---|--------|
| 10m Gr 420 | 100 | 1,552  | 96 | 1,486  | 4  | 66     |   |        |   |        |
| 15m Gr 420 | 100 | 35,110 | 90 | 31,678 | 10 | 3,355  |   |        |   | 76     |
| 20m Gr 420 | 100 | 2,130  | 90 | 1,921  | 10 | 209    |   |        |   |        |

Average Lbs per Linear Feet = 1.0325

Average Rebar Size = 15.07

|                  |     |        |    |        |   |       |  |  |  |    |
|------------------|-----|--------|----|--------|---|-------|--|--|--|----|
| Total 38.8 MTons | 100 | 38,792 | 90 | 35,086 | 9 | 3,630 |  |  |  | 76 |
|------------------|-----|--------|----|--------|---|-------|--|--|--|----|

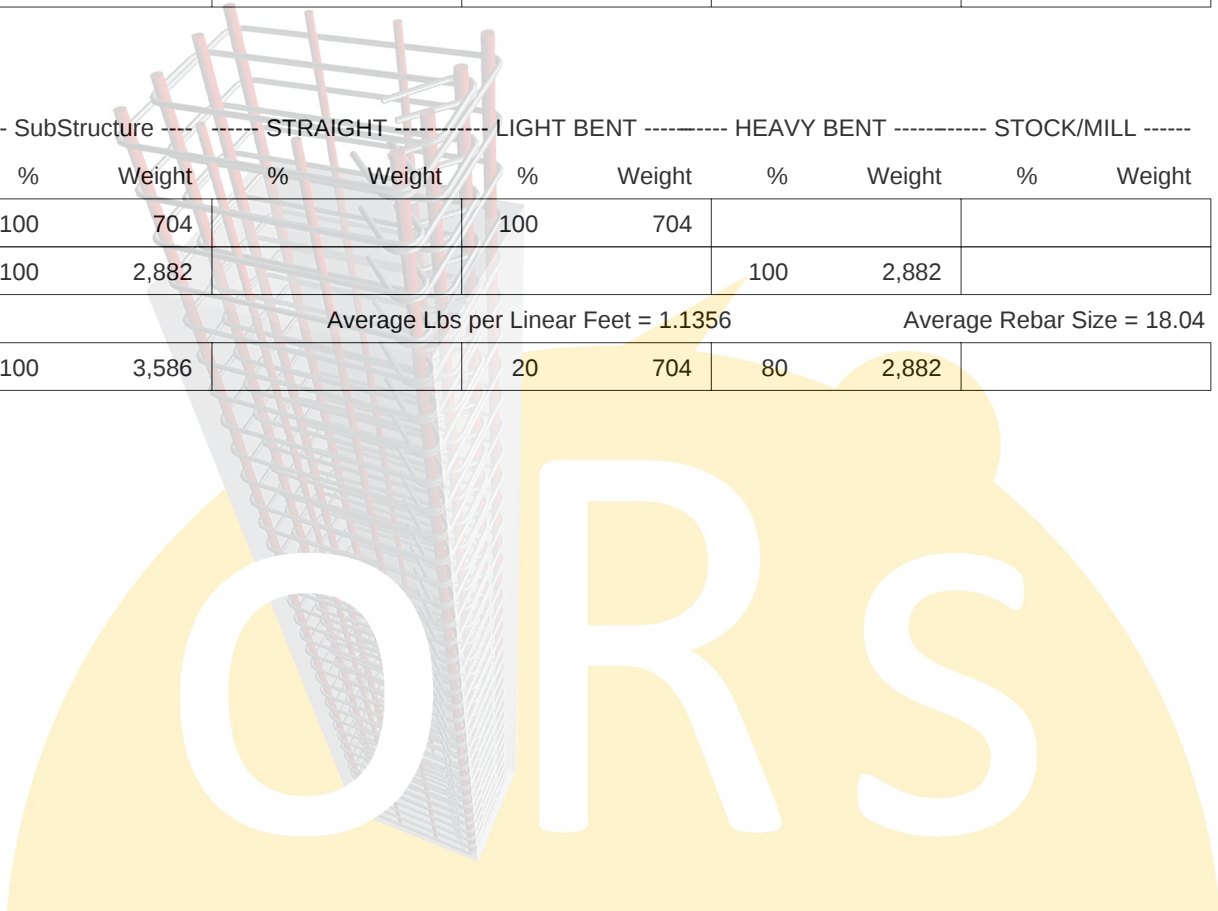
BLDG CONCRETE  
>6TH FLR COL ---- SubStructure ---- ----- STRAIGHT ----- LIGHT BENT ----- HEAVY BENT ----- STOCK/MILL -----

| SIZE       | %   | Weight | % | Weight | %   | Weight | %   | Weight | % | Weight |
|------------|-----|--------|---|--------|-----|--------|-----|--------|---|--------|
| 10m Gr 420 | 100 | 704    |   |        | 100 | 704    |     |        |   |        |
| 20m Gr 420 | 100 | 2,882  |   |        |     |        | 100 | 2,882  |   |        |

Average Lbs per Linear Feet = 1.1356

Average Rebar Size = 18.04

|                 |     |       |  |  |    |     |    |       |  |  |
|-----------------|-----|-------|--|--|----|-----|----|-------|--|--|
| Total 3.6 MTons | 100 | 3,586 |  |  | 20 | 704 | 80 | 2,882 |  |  |
|-----------------|-----|-------|--|--|----|-----|----|-------|--|--|



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BLDG CONCRETE  
>6TH FLR WALL ---- SubStructure ---- ----- STRAIGHT ----- LIGHT BENT ----- HEAVY BENT ----- STOCK/MILL -----

| SIZE       | %   | Weight | %   | Weight | %   | Weight | %  | Weight | % | Weight |
|------------|-----|--------|-----|--------|-----|--------|----|--------|---|--------|
| 10m Gr 420 | 100 | 1,447  |     |        | 100 | 1,447  |    |        |   |        |
| 15m Gr 420 | 100 | 28,472 | 78  | 22,221 |     |        | 22 | 6,252  |   |        |
| 20m Gr 420 | 100 | 974    | 100 | 974    |     |        |    |        |   |        |

Average Lbs per Linear Feet = 1.0179

Average Rebar Size = 14.92

|                  |     |        |    |        |   |       |    |       |  |  |
|------------------|-----|--------|----|--------|---|-------|----|-------|--|--|
| Total 30.9 MTons | 100 | 30,893 | 75 | 23,195 | 5 | 1,447 | 20 | 6,252 |  |  |
|------------------|-----|--------|----|--------|---|-------|----|-------|--|--|

BLDG CONCRETE  
>7TH FLR SLAB ---- SubStructure ---- ----- STRAIGHT ----- LIGHT BENT ----- HEAVY BENT ----- STOCK/MILL -----

| SIZE       | %   | Weight | %  | Weight | %  | Weight | % | Weight | % | Weight |
|------------|-----|--------|----|--------|----|--------|---|--------|---|--------|
| 10m Gr 420 | 100 | 1,474  | 96 | 1,408  | 4  | 66     |   |        |   |        |
| 15m Gr 420 | 100 | 33,986 | 90 | 30,639 | 10 | 3,270  |   |        |   | 76     |
| 20m Gr 420 | 100 | 1,979  | 94 | 1,865  | 6  | 113    |   |        |   |        |

Average Lbs per Linear Feet = 1.0325

Average Rebar Size = 15.07

|                  |     |        |    |        |   |       |  |  |  |    |
|------------------|-----|--------|----|--------|---|-------|--|--|--|----|
| Total 37.5 MTons | 100 | 37,438 | 91 | 33,912 | 9 | 3,449 |  |  |  | 76 |
|------------------|-----|--------|----|--------|---|-------|--|--|--|----|

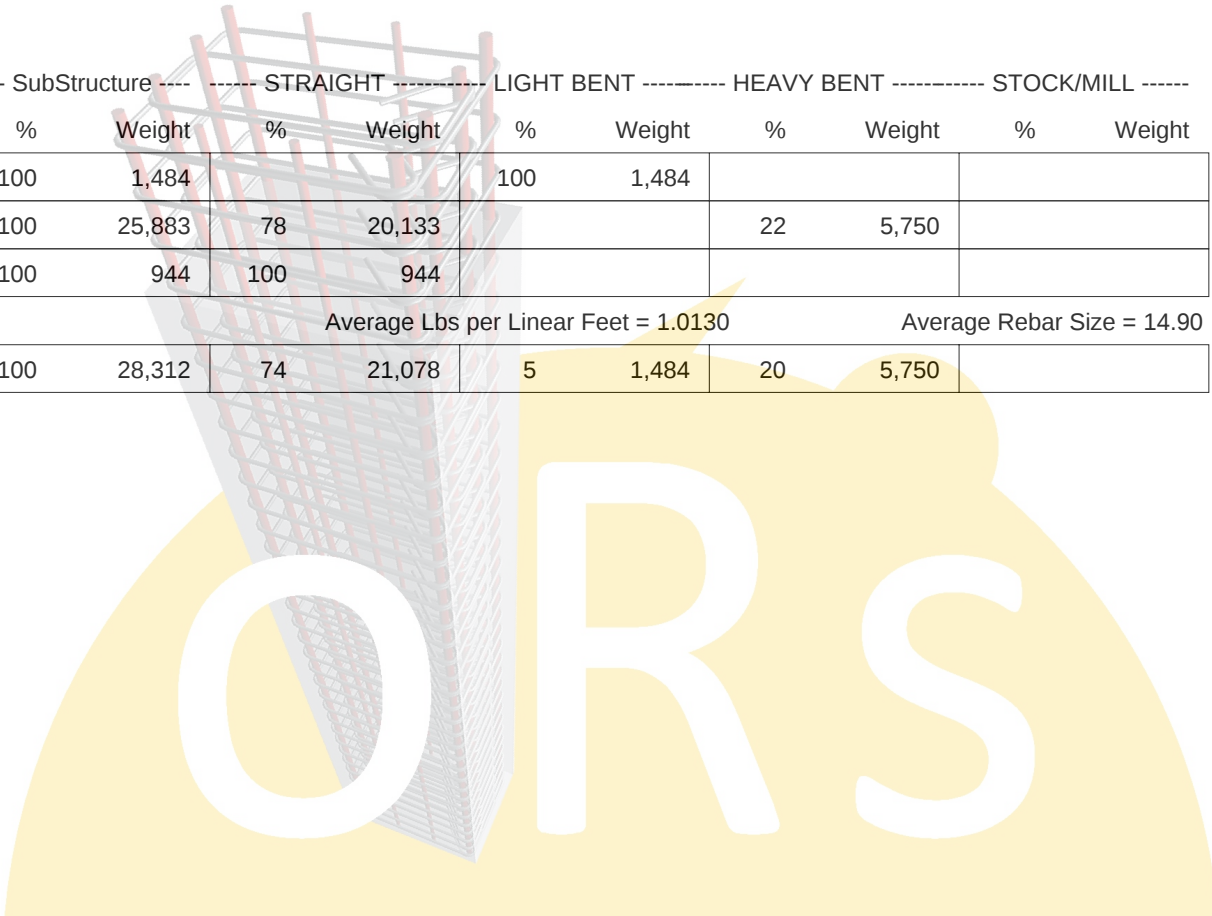
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**\*\* TOTALS PAGE (KG) \*\***

|                                      |     |                      |   |                        |     |                        |     |                        |   |        |
|--------------------------------------|-----|----------------------|---|------------------------|-----|------------------------|-----|------------------------|---|--------|
| BLDG CONCRETE                        |     |                      |   |                        |     |                        |     |                        |   |        |
| >7TH FLR COL                         |     |                      |   |                        |     |                        |     |                        |   |        |
| ---- SubStructure ----               |     | ----- STRAIGHT ----- |   | ----- LIGHT BENT ----- |     | ----- HEAVY BENT ----- |     | ----- STOCK/MILL ----- |   |        |
| SIZE                                 | %   | Weight               | % | Weight                 | %   | Weight                 | %   | Weight                 | % | Weight |
| 10m Gr 420                           | 100 | 495                  |   |                        | 100 | 495                    |     |                        |   |        |
| 20m Gr 420                           | 100 | 1,930                |   |                        |     |                        | 100 | 1,930                  |   |        |
| Average Lbs per Linear Feet = 1.1231 |     |                      |   |                        |     |                        |     |                        |   |        |
| Average Rebar Size = 17.96           |     |                      |   |                        |     |                        |     |                        |   |        |
| Total 2.5 MTons                      | 100 | 2,424                |   |                        | 20  | 495                    | 80  | 1,930                  |   |        |

|                                      |     |                      |     |                        |     |                        |    |                        |   |        |
|--------------------------------------|-----|----------------------|-----|------------------------|-----|------------------------|----|------------------------|---|--------|
| BLDG CONCRETE                        |     |                      |     |                        |     |                        |    |                        |   |        |
| >7TH FLR WALL                        |     |                      |     |                        |     |                        |    |                        |   |        |
| ---- SubStructure ----               |     | ----- STRAIGHT ----- |     | ----- LIGHT BENT ----- |     | ----- HEAVY BENT ----- |    | ----- STOCK/MILL ----- |   |        |
| SIZE                                 | %   | Weight               | %   | Weight                 | %   | Weight                 | %  | Weight                 | % | Weight |
| 10m Gr 420                           | 100 | 1,484                |     |                        | 100 | 1,484                  |    |                        |   |        |
| 15m Gr 420                           | 100 | 25,883               | 78  | 20,133                 |     |                        | 22 | 5,750                  |   |        |
| 20m Gr 420                           | 100 | 944                  | 100 | 944                    |     |                        |    |                        |   |        |
| Average Lbs per Linear Feet = 1.0130 |     |                      |     |                        |     |                        |    |                        |   |        |
| Average Rebar Size = 14.90           |     |                      |     |                        |     |                        |    |                        |   |        |
| Total 28.4 MTons                     | 100 | 28,312               | 74  | 21,078                 | 5   | 1,484                  | 20 | 5,750                  |   |        |



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**\*\* TOTALS PAGE (KG) \*\***

| BLDG CONCRETE<br>>8TH FLR SLAB       |     |                      |    |                        |    |                        |   |                        |   |        |
|--------------------------------------|-----|----------------------|----|------------------------|----|------------------------|---|------------------------|---|--------|
| ---- SubStructure ----               |     | ----- STRAIGHT ----- |    | ----- LIGHT BENT ----- |    | ----- HEAVY BENT ----- |   | ----- STOCK/MILL ----- |   |        |
| SIZE                                 | %   | Weight               | %  | Weight                 | %  | Weight                 | % | Weight                 | % | Weight |
| 10m Gr 420                           | 100 | 1,439                | 95 | 1,374                  | 5  | 66                     |   |                        |   |        |
| 15m Gr 420                           | 100 | 32,895               | 90 | 29,611                 | 10 | 3,208                  |   |                        |   | 76     |
| 20m Gr 420                           | 100 | 1,979                | 94 | 1,865                  | 6  | 113                    |   |                        |   |        |
| Average Lbs per Linear Feet = 1.0327 |     |                      |    |                        |    |                        |   |                        |   |        |
| Average Rebar Size = 15.07           |     |                      |    |                        |    |                        |   |                        |   |        |
| Total 36.4 MTons                     | 100 | 36,312               | 90 | 32,849                 | 9  | 3,387                  |   |                        |   | 76     |

| BLDG CONCRETE<br>>8TH FLR COL        |     |        |   |        |     |        |   |        |     |        | ---- SubStructure ----     |        | ----- STRAIGHT ----- |  | LIGHT BENT ----- |  | HEAVY BENT ----- |  | STOCK/MILL ----- |  |
|--------------------------------------|-----|--------|---|--------|-----|--------|---|--------|-----|--------|----------------------------|--------|----------------------|--|------------------|--|------------------|--|------------------|--|
| SIZE                                 | %   | Weight | % | Weight | %   | Weight | % | Weight | %   | Weight | %                          | Weight |                      |  |                  |  |                  |  |                  |  |
| 10m Gr 420                           | 100 | 288    |   |        | 100 | 288    |   |        |     |        |                            |        |                      |  |                  |  |                  |  |                  |  |
| 20m Gr 420                           | 100 | 959    |   |        |     |        |   | 100    | 959 |        |                            |        |                      |  |                  |  |                  |  |                  |  |
| Average Lbs per Linear Feet = 1.0815 |     |        |   |        |     |        |   |        |     |        | Average Rebar Size = 17.69 |        |                      |  |                  |  |                  |  |                  |  |
| Total 1.3 MTons                      | 100 | 1,248  |   |        | 23  | 288    |   | 77     | 959 |        |                            |        |                      |  |                  |  |                  |  |                  |  |



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BLDG CONCRETE  
>8TH FLR WALL ---- SubStructure ---- ----- STRAIGHT ----- LIGHT BENT ----- HEAVY BENT ----- STOCK/MILL -----

| SIZE       | %   | Weight | %   | Weight | %   | Weight | %  | Weight | % | Weight |
|------------|-----|--------|-----|--------|-----|--------|----|--------|---|--------|
| 10m Gr 420 | 100 | 1,499  |     |        | 100 | 1,499  |    |        |   |        |
| 15m Gr 420 | 100 | 26,604 | 79  | 20,997 |     |        | 21 | 5,607  |   |        |
| 20m Gr 420 | 100 | 1,051  | 100 | 1,051  |     |        |    |        |   |        |

Average Lbs per Linear Feet = 1.0149

Average Rebar Size = 14.92

|                  |     |        |    |        |   |       |    |       |  |  |
|------------------|-----|--------|----|--------|---|-------|----|-------|--|--|
| Total 29.2 MTons | 100 | 29,154 | 76 | 22,048 | 5 | 1,499 | 19 | 5,607 |  |  |
|------------------|-----|--------|----|--------|---|-------|----|-------|--|--|

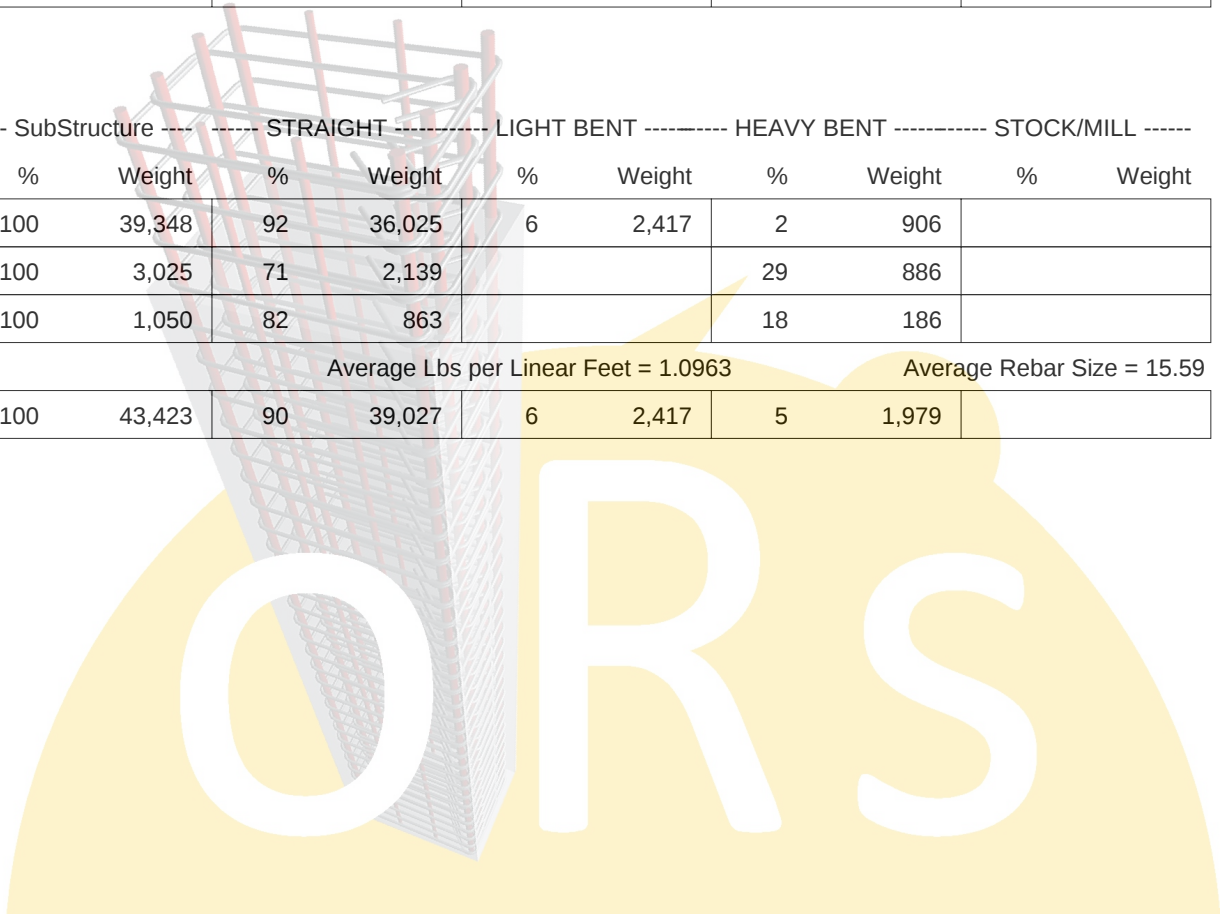
BLDG CONCRETE  
>MECH. SLAB ---- SubStructure ---- ----- STRAIGHT ----- LIGHT BENT ----- HEAVY BENT ----- STOCK/MILL -----

| SIZE       | %   | Weight | %  | Weight | % | Weight | %  | Weight | % | Weight |
|------------|-----|--------|----|--------|---|--------|----|--------|---|--------|
| 15m Gr 420 | 100 | 39,348 | 92 | 36,025 | 6 | 2,417  | 2  | 906    |   |        |
| 20m Gr 420 | 100 | 3,025  | 71 | 2,139  |   |        | 29 | 886    |   |        |
| 25m Gr 420 | 100 | 1,050  | 82 | 863    |   |        | 18 | 186    |   |        |

Average Lbs per Linear Feet = 1.0963

Average Rebar Size = 15.59

|                  |     |        |    |        |   |       |   |       |  |  |
|------------------|-----|--------|----|--------|---|-------|---|-------|--|--|
| Total 43.5 MTons | 100 | 43,423 | 90 | 39,027 | 6 | 2,417 | 5 | 1,979 |  |  |
|------------------|-----|--------|----|--------|---|-------|---|-------|--|--|

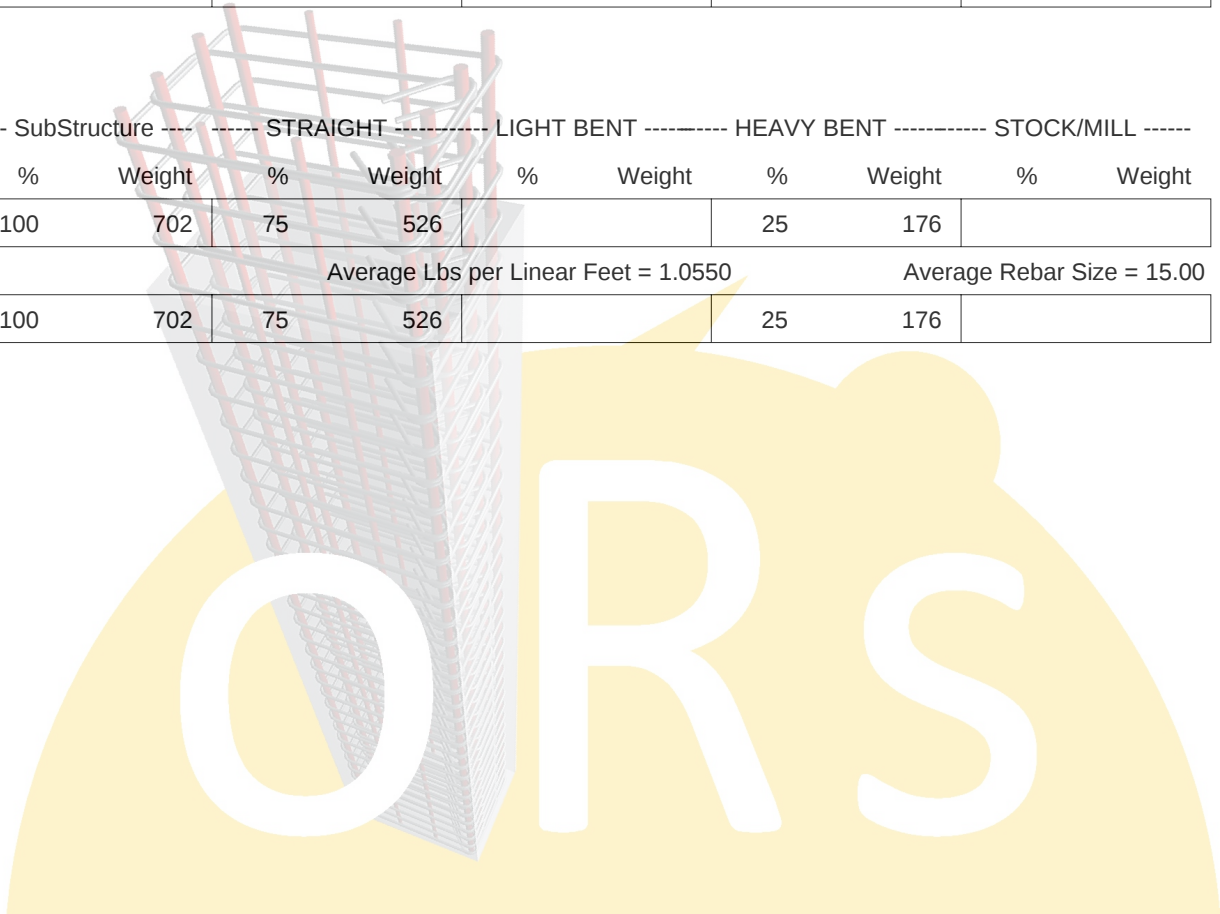


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**\*\* TOTALS PAGE (KG) \*\***

|                                      |     |                      |    |                        |    |                        |    |                        |   |        |
|--------------------------------------|-----|----------------------|----|------------------------|----|------------------------|----|------------------------|---|--------|
| BLDG CONCRETE                        |     |                      |    |                        |    |                        |    |                        |   |        |
| >MECH WALL                           |     |                      |    |                        |    |                        |    |                        |   |        |
| ---- SubStructure ----               |     | ----- STRAIGHT ----- |    | ----- LIGHT BENT ----- |    | ----- HEAVY BENT ----- |    | ----- STOCK/MILL ----- |   |        |
| SIZE                                 | %   | Weight               | %  | Weight                 | %  | Weight                 | %  | Weight                 | % | Weight |
| 10m Gr 420                           | 100 | 701                  | 3  | 21                     | 97 | 679                    |    |                        |   |        |
| 15m Gr 420                           | 100 | 18,725               | 54 | 10,124                 |    |                        | 46 | 8,600                  |   |        |
| 20m Gr 420                           | 100 | 3,490                | 89 | 3,117                  |    |                        | 11 | 373                    |   |        |
| Average Lbs per Linear Feet = 1.0766 |     |                      |    |                        |    |                        |    |                        |   |        |
| Average Rebar Size = 15.61           |     |                      |    |                        |    |                        |    |                        |   |        |
| Total 23.0 MTons                     | 100 | 22,915               | 58 | 13,263                 | 3  | 679                    | 39 | 8,973                  |   |        |

|                                      |                        |        |                      |        |                        |        |                        |        |                        |        |
|--------------------------------------|------------------------|--------|----------------------|--------|------------------------|--------|------------------------|--------|------------------------|--------|
| BLDG CONCRETE                        |                        |        |                      |        |                        |        |                        |        |                        |        |
| >GF CMU                              |                        |        |                      |        |                        |        |                        |        |                        |        |
|                                      | ---- SubStructure ---- |        | ----- STRAIGHT ----- |        | ----- LIGHT BENT ----- |        | ----- HEAVY BENT ----- |        | ----- STOCK/MILL ----- |        |
| SIZE                                 | %                      | Weight | %                    | Weight | %                      | Weight | %                      | Weight | %                      | Weight |
| 15m Gr 420                           | 100                    | 702    | 75                   | 526    |                        |        | 25                     | 176    |                        |        |
| Average Lbs per Linear Feet = 1.0550 |                        |        |                      |        |                        |        |                        |        |                        |        |
| Average Rebar Size = 15.00           |                        |        |                      |        |                        |        |                        |        |                        |        |
| Total .8 MTons                       | 100                    | 702    | 75                   | 526    |                        |        | 25                     | 176    |                        |        |



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## \*\* TOTALS PAGE (KG) \*\*

|                                                                                                                             |     |        |    |        |   |                            |    |        |   |        |
|-----------------------------------------------------------------------------------------------------------------------------|-----|--------|----|--------|---|----------------------------|----|--------|---|--------|
| BLDG CONCRETE<br>>3RD FL CMU ---- SubStructure ---- ----- STRAIGHT ----- LIGHT BENT ----- HEAVY BENT ----- STOCK/MILL ----- |     |        |    |        |   |                            |    |        |   |        |
| SIZE                                                                                                                        | %   | Weight | %  | Weight | % | Weight                     | %  | Weight | % | Weight |
| 15m Gr 420                                                                                                                  | 100 | 1,953  | 83 | 1,618  |   |                            | 17 | 334    |   |        |
| Average Lbs per Linear Feet = 1.0550                                                                                        |     |        |    |        |   | Average Rebar Size = 15.00 |    |        |   |        |
| Total 2.0 MTons                                                                                                             | 100 | 1,953  | 83 | 1,618  |   |                            | 17 | 334    |   |        |

|                                                                                                                             |     |        |    |        |   |                            |    |        |   |        |
|-----------------------------------------------------------------------------------------------------------------------------|-----|--------|----|--------|---|----------------------------|----|--------|---|--------|
| BLDG CONCRETE<br>>4TH FL CMU ---- SubStructure ---- ----- STRAIGHT ----- LIGHT BENT ----- HEAVY BENT ----- STOCK/MILL ----- |     |        |    |        |   |                            |    |        |   |        |
| SIZE                                                                                                                        | %   | Weight | %  | Weight | % | Weight                     | %  | Weight | % | Weight |
| 15m Gr 420                                                                                                                  | 100 | 1,953  | 83 | 1,618  |   |                            | 17 | 334    |   |        |
| Average Lbs per Linear Feet = 1.0550                                                                                        |     |        |    |        |   | Average Rebar Size = 15.00 |    |        |   |        |
| Total 2.0 MTons                                                                                                             | 100 | 1,953  | 83 | 1,618  |   |                            | 17 | 334    |   |        |

|                                                                                                                             |     |        |    |        |   |                            |    |        |   |        |
|-----------------------------------------------------------------------------------------------------------------------------|-----|--------|----|--------|---|----------------------------|----|--------|---|--------|
| BLDG CONCRETE<br>>5TH FL CMU ---- SubStructure ---- ----- STRAIGHT ----- LIGHT BENT ----- HEAVY BENT ----- STOCK/MILL ----- |     |        |    |        |   |                            |    |        |   |        |
| SIZE                                                                                                                        | %   | Weight | %  | Weight | % | Weight                     | %  | Weight | % | Weight |
| 15m Gr 420                                                                                                                  | 100 | 1,953  | 83 | 1,618  |   |                            | 17 | 334    |   |        |
| Average Lbs per Linear Feet = 1.0550                                                                                        |     |        |    |        |   | Average Rebar Size = 15.00 |    |        |   |        |
| Total 2.0 MTons                                                                                                             | 100 | 1,953  | 83 | 1,618  |   |                            | 17 | 334    |   |        |

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BLDG CONCRETE  
>6TH FL CMU ---- SubStructure ---- STRAIGHT ----- LIGHT BENT ----- HEAVY BENT ----- STOCK/MILL -----

| SIZE                                 | %   | Weight | %  | Weight | %                          | Weight | %  | Weight | % | Weight |
|--------------------------------------|-----|--------|----|--------|----------------------------|--------|----|--------|---|--------|
| 15m Gr 420                           | 100 | 1,953  | 83 | 1,618  |                            |        | 17 | 334    |   |        |
| Average Lbs per Linear Feet = 1.0550 |     |        |    |        | Average Rebar Size = 15.00 |        |    |        |   |        |
| Total 2.0 MTons                      | 100 | 1,953  | 83 | 1,618  |                            |        | 17 | 334    |   |        |

GRAND TOTALS ----- TOTAL ----- STRAIGHT ----- LIGHT BENT ----- HEAVY BENT ----- STOCK/MILL -----

| SIZE                                 | %   | Weight    | %  | Weight  | %                          | Weight | %  | Weight  | % | Weight |
|--------------------------------------|-----|-----------|----|---------|----------------------------|--------|----|---------|---|--------|
| 10m Gr 420                           | 100 | 43,092    | 29 | 12,421  | 71                         | 30,584 |    | 88      |   |        |
| 15m Gr 420                           | 100 | 642,250   | 81 | 519,673 | 4                          | 27,292 | 14 | 92,704  |   | 2,581  |
| 20m Gr 420                           | 100 | 200,342   | 86 | 172,678 | 1                          | 1,270  | 13 | 26,394  |   |        |
| 25m Gr 420                           | 100 | 126,189   | 92 | 116,479 |                            |        | 8  | 9,711   |   |        |
| Average Lbs per Linear Feet = 1.1698 |     |           |    |         | Average Rebar Size = 17.02 |        |    |         |   |        |
| Total 1,011.9 MTons                  | 100 | 1,011,873 | 81 | 821,250 | 6                          | 59,145 | 13 | 128,897 |   | 2,581  |