

**LEVEL-5 AREA-B SLAB ON DECK REINFORCEMENT DETAILS**  
 REF: S2.2.5B  
 SCALE: 1/8"=1'-0"

**ALL BARS IN THIS DRAWING  
 ASTM A615 GRADE 60  
 BLACK UNCOATED**

| TYPICAL REINFORCING BAR CLEARANCE TABLE |            |
|---|------------|
| LOCATION                                | MIN. COVER |
| SLAB TOP & BOTTOM                       | 2" CLR     |
| SLAB EDGE                               | 2" CLR     |

**LAP SCHEDULE**  
 4000 PSI (CLASS-B) CASE - 1  
 Per ACI 318 (12.2.2)

| BAR# | LENGTHS |        |
|------|---------|--------|
|      | TOP     | OTHERS |
| #3   | 2'-0"   | 1'-7"  |
| #4   | 2'-8"   | 2'-1"  |
| #5   | 3'-4"   | 2'-7"  |
| #6   | 4'-0"   | 3'-1"  |
| #7   | 5'-10"  | 4'-6"  |
| #8   | 6'-8"   | 5'-2"  |
| #9   | 7'-7"   | 5'-10" |
| #10  | 8'-6"   | 6'-7"  |
| #11  | 9'-5"   | 7'-3"  |

ALL TOP BARS ARE DEFINED AS HORIZ BARS WITH MORE THAN 12" OF CONCRETE BELOW BARS.

**REBAR GRADE 60 ASTM A-615**

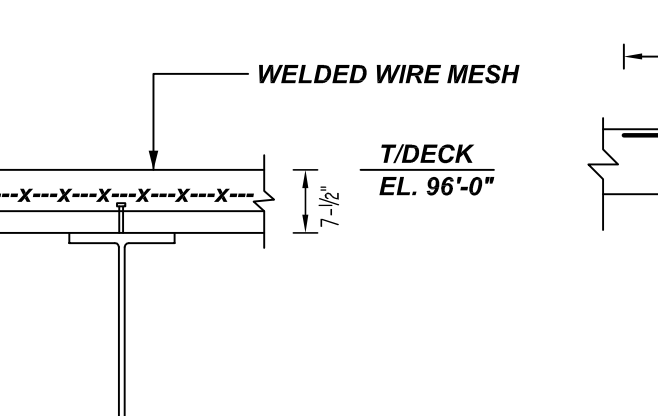
| SPLICES USED          |            | ABBREVIATIONS |                | BAR MARK SIZE EQUIVALENT |             |
|-----------------------|------------|---------------|----------------|--------------------------|-------------|
| CLASS B 4,000 psi UNO |            |               |                | Imperial                 | Soft Metric |
| TOP BARS              | OTHER BARS | ADD.          | Additional     | #3                       | #10         |
| #3                    | #3         | B.O.W.        | Bottom of wall | #4                       | #13         |
| #4                    | #4         | C.B.          | Corner Bars    | #5                       | #16         |
| #5                    | #5         | DIAG.         | Diagonal       | #6                       | #19         |
| #6                    | #6         | D.O.          | Door Opening   | #7                       | #22         |
| #7                    | #7         | D.W.S.        | Dowels         | #8                       | #25         |
| #8                    | #8         | E.F.          | Each Face      | #9                       | #29         |
| #9                    | #9         | E.S.          | Each Side      | #10                      | #32         |
| #10                   | #10        | E.W.          | Each Way       | #11                      | #36         |
| #11                   | #11        | FTG.          | Footings       |                          |             |
| #12                   | #12        | F.F.          | Far Face       |                          |             |
| #13                   | #13        | HORIZ.        | Horizontal     |                          |             |
| #14                   | #14        | I.F.          | Inside Face    |                          |             |
|                       |            | INTERSE.      | Intersection   |                          |             |
|                       |            | L.W.          | Long Way       |                          |             |
|                       |            | N.F.          | Near Face      |                          |             |
|                       |            | O.F.          | Outside Face   |                          |             |
|                       |            | S.W.          | Short Way      |                          |             |
|                       |            | T&B           | Top & Bottom   |                          |             |
|                       |            | T.O.W.        | Top of Wall    |                          |             |
|                       |            | Trans.        | Transverse     |                          |             |
|                       |            | VERT.         | Vertical       |                          |             |

| REV NO | DATE     | APPROVAL | REV NO | DATE | SENT FOR |
|--------|----------|----------|--------|------|----------|
| 0      | 04.13.22 |          |        |      |          |

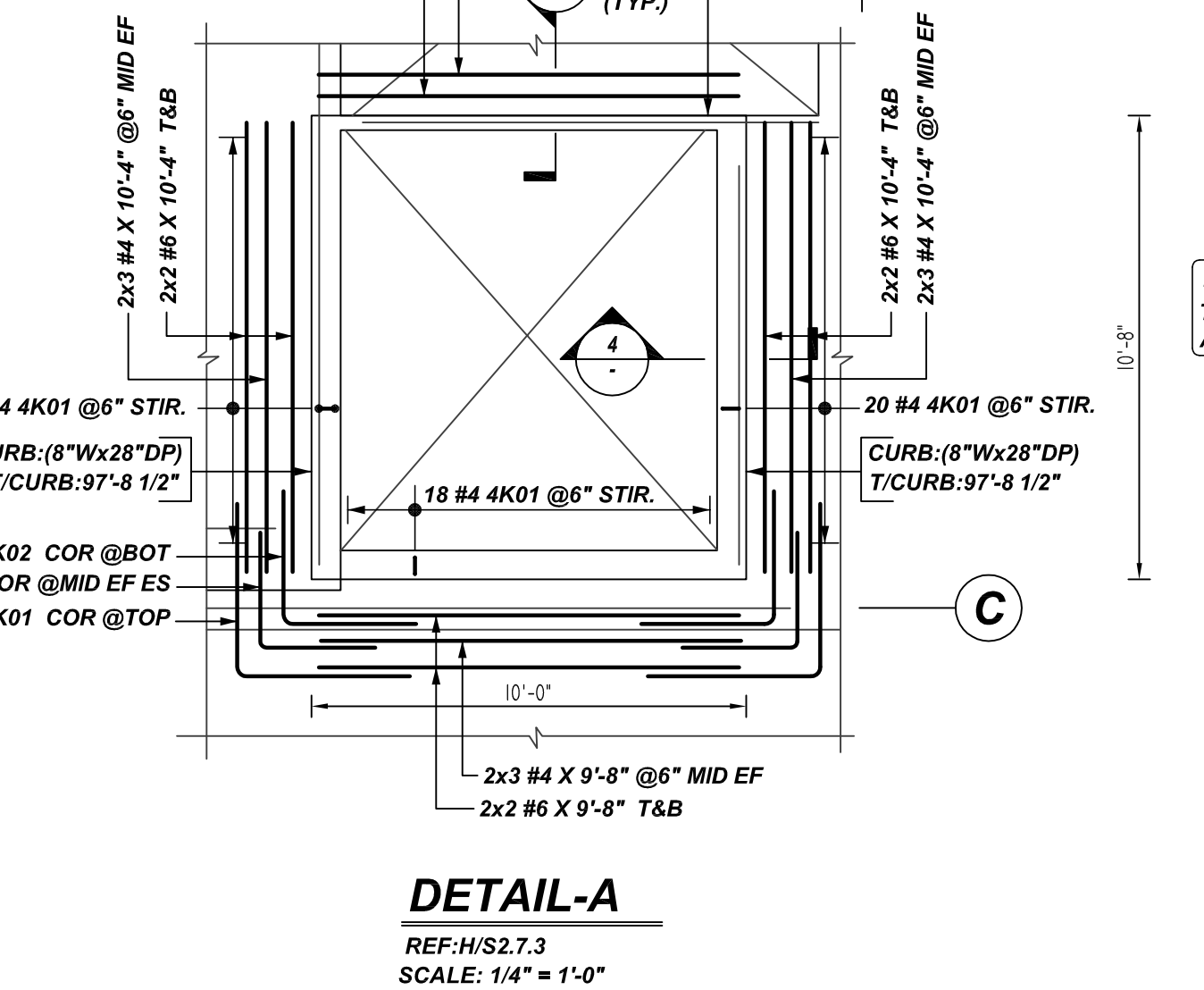
**1 SECTION**  
 REF: S2.2.2A  
 SCALE: 1/2" = 1'-0"



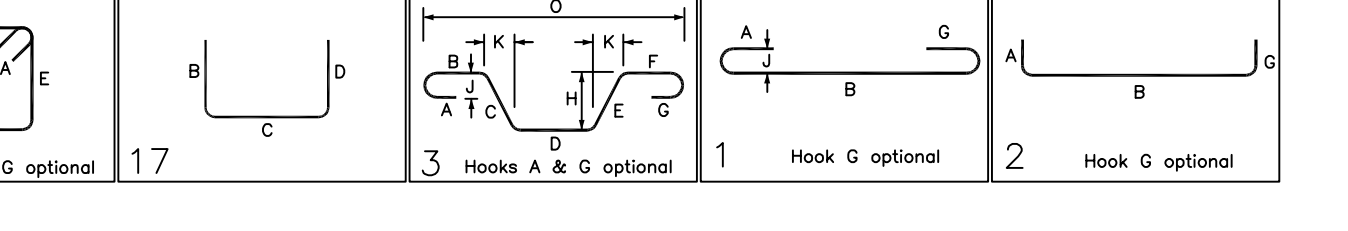
**2 SECTION**  
 REF: S4.0.1  
 SCALE: 1/2" = 1'-0"



**DETAIL-A**  
 REF: H/S2.7.3  
 SCALE: 1/4" = 1'-0"

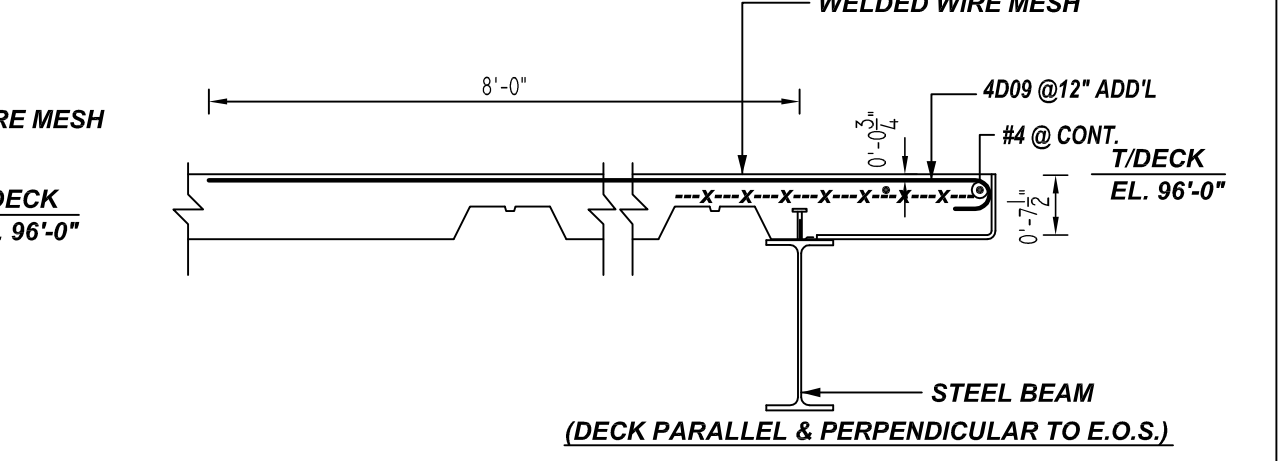


| Bar Mark | Qty | Size | Total Length | Type | X         | Y         | Z     | W     | V     | U | T | S | R | Q | P | O | N | M | L | K | J | I | H | G | F | E | D | C | B | A |
|----------|-----|------|--------------|------|-----------|-----------|-------|-------|-------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4001     | 56  | #4   | 5'-9"        | 11   | 0'-4 1/2" | 2'-1"     | 0'-5" | 7'-1" | 0'-5" |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 4002     | 12  | #4   | 8'-3 1/2"    | 3    | 2'-3"     | 2'-5"     |       |       |       |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 4003     | 2   | #4   | 9'-5"        | 1    | 0'-6"     | 9'-0"     |       |       |       |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 4004     | 588 | #4   | 9'-5"        | 1    | 0'-6"     | 9'-0"     |       |       |       |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 4005     | 24  | #4   | 6'-10"       | 1    | 0'-6"     | 6'-4"     |       |       |       |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 4006     | 2   | #4   | 4'-11 1/2"   | 3    | 2'-6"     | 2'-5 1/2" |       |       |       |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 4007     | 2   | #4   | 5'-11 1/2"   | 3    | 3'-5"     | 2'-5 1/2" |       |       |       |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 4008     | 20  | #4   | 2'-4"        | 1    | 0'-6"     | 1'-4"     |       |       |       |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 4009     | 40  | #4   | 5'-0"        | 17   | 2'-6"     | 2'-6"     |       |       |       |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 4010     | 1   | #4   | 6'-0"        | 17   | 4'-0"     | 4'-0"     |       |       |       |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 4011     | 2   | #4   | 4'-8"        | 2    | 0'-8"     | 4'-0"     |       |       |       |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 8011     | 2   | #6   | 8'-0"        | 17   | 4'-0"     | 4'-0"     |       |       |       |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 8012     | 2   | #6   | 6'-2"        | 17   | 3'-1"     | 3'-1"     |       |       |       |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |

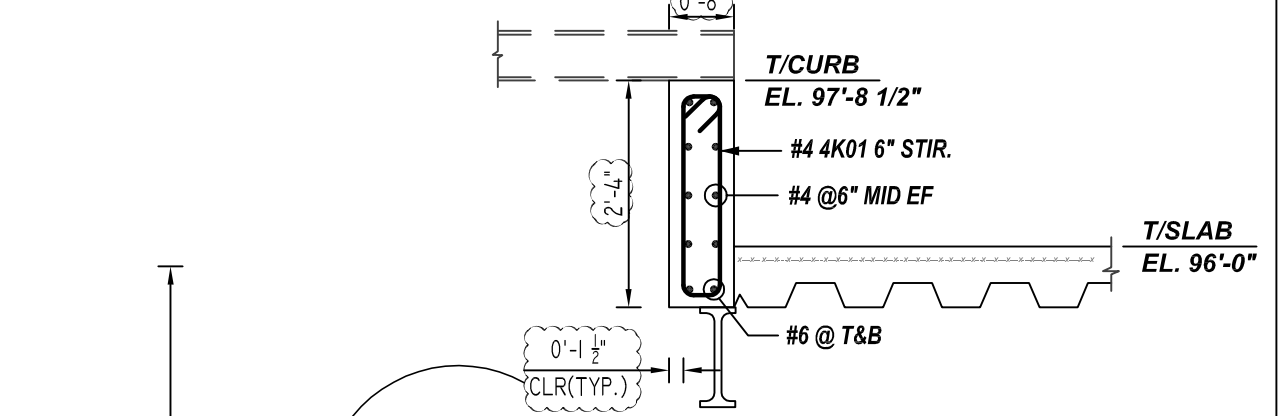


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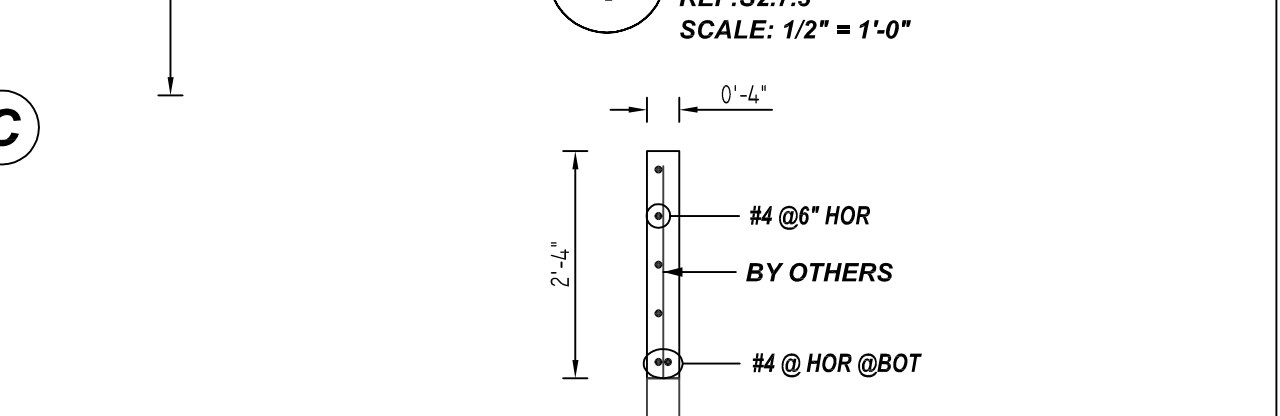
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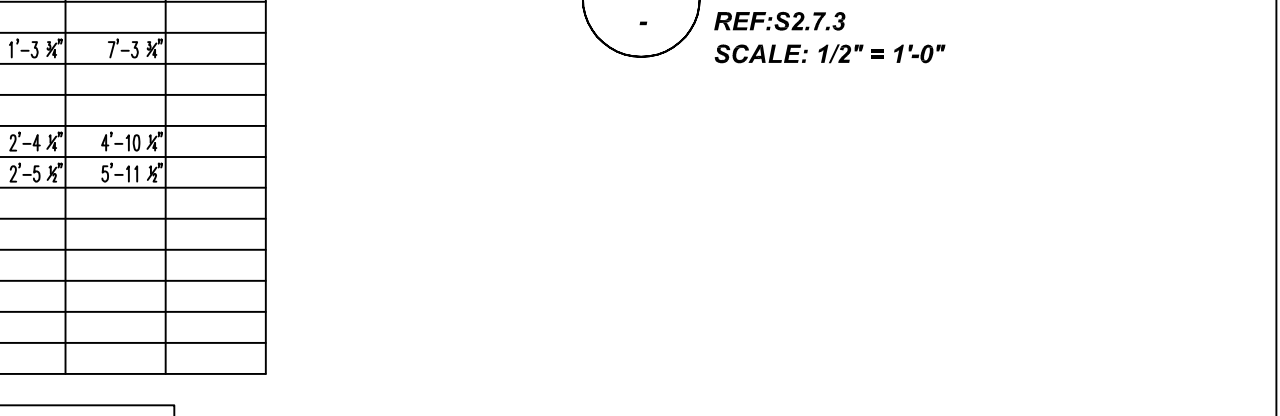
**3 SECTION**  
 REF: S4.0.1  
 SCALE: 1/2" = 1'-0"



**4 SECTION**  
 REF: S2.7.3  
 SCALE: 1/2" = 1'-0"



**5 SECTION**  
 REF: S2.7.3  
 SCALE: 1/2" = 1'-0"



**VIRGINIA TECH**  
 LEVEL-5 AREA-B SLAB ON DECK REINFORCEMENT DETAILS  
**ALEXANDRIA, VIRGINIA**

CUSTOMER: -  
 DESIGNER: A&F ENGINEER

| DRAWN BY | DATE     | JOB NO | SHEET NO. |
|----------|----------|--------|-----------|
| GOW/MET  | 04.13.22 | -      | R13       |