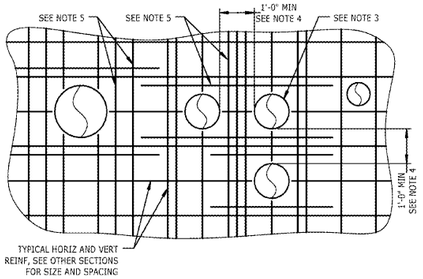


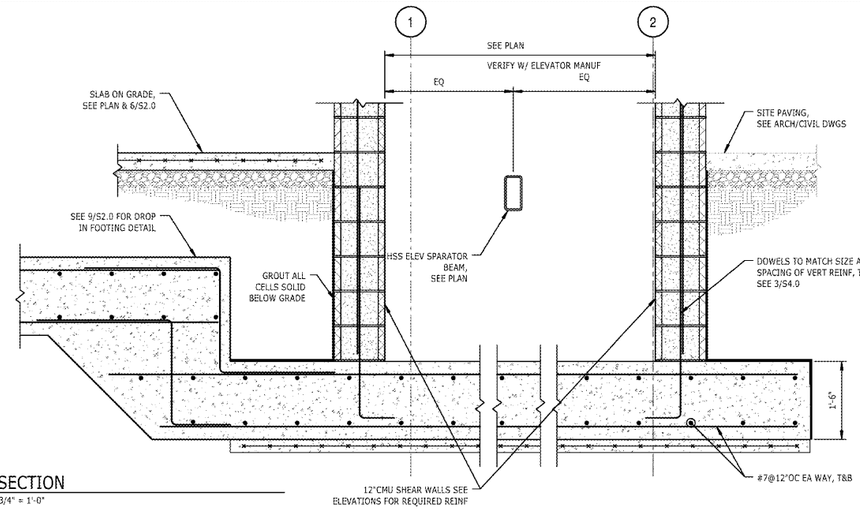

8 / S2.1 **DETAIL**

PENETRATIONS IN CONCRETE WALLS

NTS

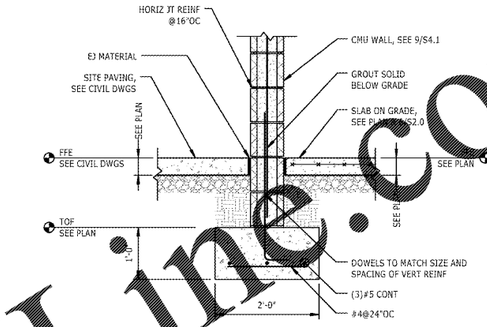
NOTES:

1. WALL OPENINGS SHALL BE COORDINATED AND DETAILED ON THE REINFORCEMENT SHOP DRAWINGS.
2. PROVIDE SLEEVES FOR ALL OPENINGS EXCEEDING 6" IN DIAMETER.
3. NO ADDITIONAL REINFORCING IS REQUIRED FOR OPENINGS NOT EXCEEDING 6" IN DIAMETER, PROVIDED NO TYPICAL REINFORCING IS INTERRUPTED.
4. PROVIDE 1'-0" MINIMUM SPACING BETWEEN EDGES OF OPENINGS, TYPICAL IN ALL DIRECTIONS FOR OPENINGS NOT EXCEEDING 18" IN DIAMETER. FOR OPENINGS BETWEEN 18" AND 30" IN DIAMETER, PROVIDE 2'-0" MINIMUM SPACING BETWEEN EDGES OF OPENINGS.
5. FOR OPENINGS EXCEEDING 6" IN DIAMETER AND FOR OPENINGS THAT INTERRUPT TYPICAL REINFORCING, PROVIDE ADDITIONAL VERTICAL REINFORCING BAR EACH SIDE OF OPENING. BAR SIZE TO MATCH TYPICAL VERTICAL REINFORCING. SPACING BETWEEN BARS SHALL BE 3". PROVIDE (2)#5 HORIZONTAL BARS EACH SIDE OF OPENING. MAINTAIN 3" SPACING BETWEEN BARS. BAR LENGTH SHALL BE TWO TIMES THE OPENING SIZE PLUS TWO TIMES THE BAR SPLICE LENGTH.
6. ALL PENETRATIONS TO BE CORE DRILLED SHALL BE SUBMITTED FOR APPROVAL PRIOR TO PROCEEDING WITH THE WORK.




4 / S2.1 **SECTION**

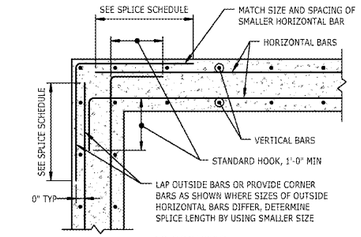
3/4" = 1'-0"



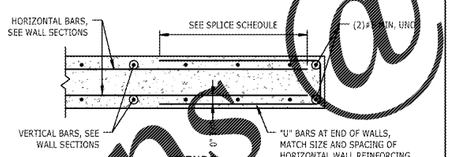

1 / S2.1 **DETAIL**

INTERIOR MASONRY BEARING WALL

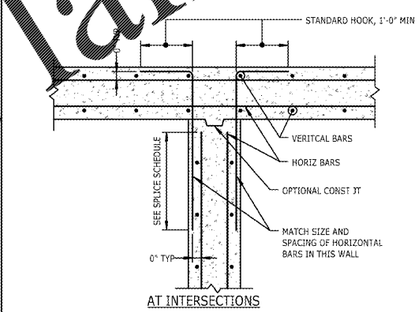
NTS




AT CORNERS




AT ENDS

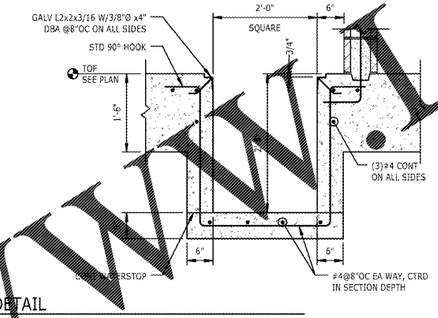



AT INTERSECTIONS

7 / S2.1 **DETAIL**

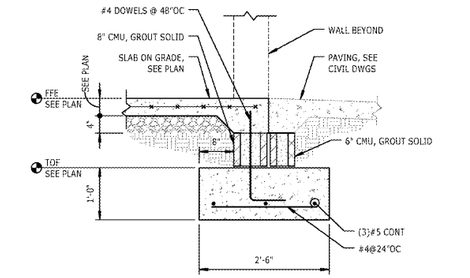
TYPICAL HORIZONTAL WALL REINFORCING, TWO LAYERS

NTS




DETAIL

ELEVATOR SUMP PIT




2 / S2.1 **DETAIL**

TYPICAL WALL FOOTING AT PAVING

NTS

MINIMUM SPLICE AND EMBEDMENT LENGTH SCHEDULE

TENSION SPLICE BASED ON ACI 12.2.2, $f_y$ = 60,000 PSI

| BAR SIZE | $f'_c$ = 3000 PSI (NORMAL WT) | | $f'_c$ = 4000 PSI (NORMAL WT) | | $f'_c$ = 4500 PSI (NORMAL WT) | |
|---|---|---|---|---|---|---|
| | OTHER BARS | | OTHER BARS | | OTHER BARS | |
| | CASE | | CASE | | CASE | |
| | I | II | I | II | I | II |
| #3 | 22" | 32" | 19" | 28" | 18" | 27" |
| #4 | 29" | 43" | 25" | 37" | 24" | 35" |
| #5 | 36" | 54" | 31" | 47" | 30" | 45" |
| #6 | 43" | 64" | 37" | 56" | 35" | 53" |
| #7 | 63" | 94" | 54" | 81" | 52" | 77" |
| #8 | 72" | 107" | 62" | 93" | 59" | 88" |
| #9 | 81" | 121" | 70" | 105" | 67" | 100" |

NOTES:

1. AVOID SPLICES IN REGIONS OF MAXIMUM MOMENT. IF THIS IS NOT POSSIBLE STAGGER SPLICES SO THAT NOT MORE THAN 50% OF THE BARS ARE SPLICED WITHIN A REQUIRED SPLICE LENGTH, OTHERWISE INCREASE SPLICE LENGTH BY 30%.
2. TOP BARS = HORIZONTAL BARS PLACED WITH MORE THAN 12" OF CONCRETE IN THE MEMBER BELOW THE SPLICE.

s = C-C SPACING OF BARS BEING DEVELOPED OR SPLICED

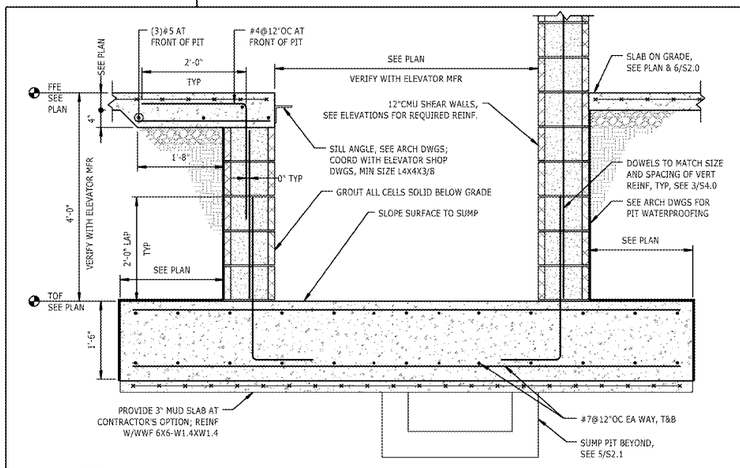
clr = CLEAR COVER OF BARS

| CATEGORY | CASE I | CASE II |
|---|---|---|
| BEAMS AND COLUMNS | $s \geq 2d_b$, clr $\geq d_b$, AND STIRRUPS PROVIDED THROUGHOUT $l_d$ | $s < 2d_b$, AND clr $< d_b$ |
| OTHER MEMBERS | clr $> d_b$ AND $s \geq 3d_b$ | clr $< d_b$ OR $s < 3d_b$ |

6 / S2.1 **SCHEDULE**

TYPICAL MINIMUM SPLICE AND EMBEDMENT LENGTH SCHEDULE

NTS




3 / S2.1 **DETAIL**

MASONRY ELEVATOR PIT, 4'-0" DEPTH

NTS



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FINLEYDESIGNARCH.COM

STEWART

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NORTH CAROLINA PROFESSIONAL SEAL 036157 ENGINEER DANIEL THOMPSON

04/06/2017

**Westpoint 2 Durham, NC**

**REVISIONS**

| PROJECT: | S16038.00 |
|---|---|
| DATE: | 04/06/2017 |
| DRAWN BY: | DR |
| CHECKED BY: | DJT |

FOUNDATION SECTIONS AND DETAILS

S2.1

/VOLUMES/F DRIVE/FINLEY DESIGN/PROJECTS/1342 WESTPOINT 2/DRAWINGS/TITLEBLOCKS/1342-X-TB.DWG