


| LAST REVISION $11 / 01 / 18$ | $\mid$ | DESCRIPTION: |  | FY 2024-25 <br> STANDARD PLANS | PRECAST CONCRETE SHEET PILE WALL (CONVENTIONAL) | $\begin{gathered} \text { INDEX } \\ 455-400 \end{gathered}$ | $\begin{aligned} & \text { SHEET } \\ & 2 \text { of } 4 \end{aligned}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |


| BAR BENDING DIAGRAMS |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| STIRRUP DIMENSIONS ( $T=10^{\prime \prime}$ ) |  |  |  |  |  |  |  |  |  | STIRRUP DIMENSIONS ( $T=12$ ') |  |  |  |  |  |  |  |  |  |
| $\theta$ | BAR MARK | R1 | R2 | R3 | R4 | R5 | R6 | R7 | R8 | $\varnothing$ | BAR MARK | R1 | R2 | R3 | R4 | R5 | R6 | R7 | R8 |
| $30^{\circ}$ | 51 | 11/4" | 93/41 | $1^{\prime}-61 / 2^{\prime \prime}$ | 21/2" | $5^{\prime \prime}$ | 43/411 | 5/2" | $4{ }^{1 / 41}$ | $30^{\circ}$ | S1 | 111/2" | $10^{\prime \prime}$ | 1'-6' $^{\prime \prime}$ | 31/2" | $7{ }^{\prime \prime}$ | $43 / 41$ | 53/41 | $6^{\prime \prime}$ |
|  | S2 | $1^{\prime}-1 /{ }^{1 / \prime \prime}$ | 93/4" | $1^{\prime}-83 / 4$ | 21/2" | 4/2" | 51/2" | 53/4" | 41/7" |  | S2 | $1^{\prime}-1 \frac{3}{4} /{ }^{\prime \prime}$ | $10^{\prime \prime}$ | $1^{1}-8 / 4 /{ }^{11}$ | 31/2" | 61/2" | 51/4" | 53/4 | $6^{\prime \prime}$ |
|  | 53 | 111/4" | $8^{\prime \prime}$ | $1^{\prime}-6^{\prime \prime}$ | 1/1/4 | $5^{\prime \prime}$ | 41/2" | 4/2" | $5^{\prime \prime}$ |  | S3 | 111/2" | $8{ }^{1 / 4} 1$ | $1^{1}-5 \frac{3}{1 / 1}$ | $2^{\prime \prime}$ | $7{ }^{\prime \prime}$ | $43 / 41$ | 41/2" | 71/411 |
|  | 54 | 11/1/4 | 4/411 | $1^{\prime}-1 \frac{13}{}{ }^{\prime \prime}$ | 13/4 | $5^{\prime \prime}$ | 33/4" | 21/2" | 61/4' |  | S4 | 111/2" | $4^{\prime \prime}$ | $1^{1}-1 / 1 /{ }^{1 /}$ | 21/4" | $7{ }^{7}$ | 33/4 ${ }^{11}$ | 21/2" | 81/411 |
| $45^{\circ}$ | 51 | 111/2" | $8^{\prime \prime}$ | $1^{\prime}-4^{\prime \prime}$ | $4^{\prime \prime}$ | 5/211 | $61 /{ }^{\prime \prime}$ | $8^{\prime \prime}$ | $4^{\prime \prime}$ | $45^{\circ}$ | S1 | 1'-0" | 81/2" | ${ }^{1}-31 / 4^{11}$ | 51/4" | $71 / 2^{\prime \prime}$ | 61/41 | $81 / 2^{\prime \prime}$ | 51/71 |
|  | S2 | $1^{\prime}-1 \frac{3}{4} /{ }^{\prime \prime}$ | $8{ }^{\prime \prime}$ | 1'-53/4' | $4{ }^{\prime \prime}$ | 4/2" | 71/2" | $8^{\prime \prime}$ | 4" |  | S2 | $1^{\prime}-2 / 1 /{ }^{\prime \prime}$ | 81/2" | $1^{\prime}-51 /{ }^{\prime \prime}$ | 51/4" | $61 / 21$ | 71/4" | 81/2" | 51/4" |
|  | 53 | 11/1/2' | $63 / 4{ }^{11}$ | $1^{\prime}-4^{\prime \prime}$ | 21/4" | 5/211 | 63/41 | 63/4" | 51/2" |  | 53 | $1^{\prime}-0^{\prime \prime}$ | $7{ }^{\prime \prime}$ | $1^{\prime}-4^{\prime \prime}$ | $3^{\prime \prime}$ | 71/21 | 63/41 | $7{ }^{\prime \prime}$ | 71/411 |
|  | 54 | 111/2" | $31 / 2{ }^{\prime \prime}$ | 1'-0" | $3{ }^{\prime \prime}$ | 5/2/1 | $5^{\prime \prime}$ | 3/2" | $7{ }^{\prime \prime}$ |  | S4 | $1^{\prime}-0^{\prime \prime}$ | 31/2" | 113/4" | 33/41 | 71/2" | $5^{\prime \prime}$ | 3/212 | $9{ }^{\prime \prime}$ |
| $60^{\circ}$ | S1 | $1^{1}-0^{\prime \prime}$ | $6^{\prime \prime}$ | 1'-03/4' | 51/411 | $6^{\prime \prime}$ | 71/4" | 101/4" | $3{ }^{\prime \prime}$ | $60^{\circ}$ | S1 | $1^{\prime}-01 /{ }^{\prime \prime}$ | 61/4" | 113/4 ${ }^{11}$ | $7{ }^{7}$ | $8^{\prime \prime}$ | 63/41 | 103/4/ | $4{ }^{\prime \prime}$ |
|  | S2 | $1^{1}-2^{\prime \prime}$ | $6^{\prime \prime}$ | $1^{\prime}-23 / 4^{\prime \prime}$ | 51/411 | 43/4" | 83/41 | 101/2" | $3^{\prime \prime}$ |  | S2 | $1^{\prime}-23 / 4$ | 61/7" | 1'-2' | $7{ }^{7}$ | $6^{3 / 11}$ | $8^{\prime \prime}$ | 103/4" | $4{ }^{\prime \prime}$ |
|  | 53 | $1^{1-00^{\prime \prime}}$ | 43/41 | $1^{\prime}-1 /{ }^{1 / 1 /}$ | 31/4 | $6^{\prime \prime}$ | $8^{\prime \prime}$ | 83/4" | 51/4" |  | 53 | $1^{1}-01 / 2^{\prime \prime}$ | $5^{\prime \prime}$ | $1^{\prime}-1 /{ }^{1 / 1 / 2}$ | $4^{\prime \prime}$ | $8^{\prime \prime}$ | $8^{\prime \prime}$ | $9^{\prime \prime}$ | $7{ }^{\prime \prime}$ |
|  | 54 | $1^{1}-0^{\prime \prime}$ | $21 / 2^{\prime \prime}$ | 10" | 41/2" | $6^{\prime \prime}$ | 53/4" | $4^{\prime \prime}$ | 71/21 |  | 54 | $1^{1}-0^{1 / 2}$ | 21/2" | 91/2" | $51 / 21$ | $8^{\prime \prime}$ | 51/2" | 41/411 | 91/4" |

> (TYPE "B1" PILE ShOWN, TYPE "B2" PILE OPposite HAND)
> NOTES:
> 1. This drawing includes detals for precast concrete corner piles for $10^{\prime \prime}$.
> 2. The bar configurations shown in Sections $A-A$ and $B-B$ shall be used for
> dimensions may be interpolated or extrapolated from the stirrup dimensions shown.
> $\begin{aligned} & \text { 3. All bar dimensions are out-to-out. } \\ & \text { 4. Bars } \mathrm{A} \text { are } \# 8 \text { and Bars } 5 \text { are } \# 4 \text {. }\end{aligned}$
> 4. Values for Stirrup Dimensions are shown for $\varnothing$ equal to $30^{\circ}, 45^{\circ} \& 60^{\circ}$ only
> 6. At the Contractor's option Bars $S$ may be fabricated as a 2 piece bar with
> 7. If Type "B1" or "B2" pile is used as a Starter Pile show tongue on both sides of pile
> from Dim. X down. Show dimensions for Bars S2, S3 \& S4 in shop drawings.
> 9. For Dimensions $L$, $X$ and Angle $\varnothing$, see Sheet Pile Data Table in Structures Plans.
> TYPE "B1" AND "B2" - VARIABLE ANGLE CORNER PILE

| $\begin{gathered} \hline \text { LAST } \\ \text { REVISION } \\ 11 / 01 / 16 \end{gathered}$ |  | F |
| :---: | :---: | :---: |



