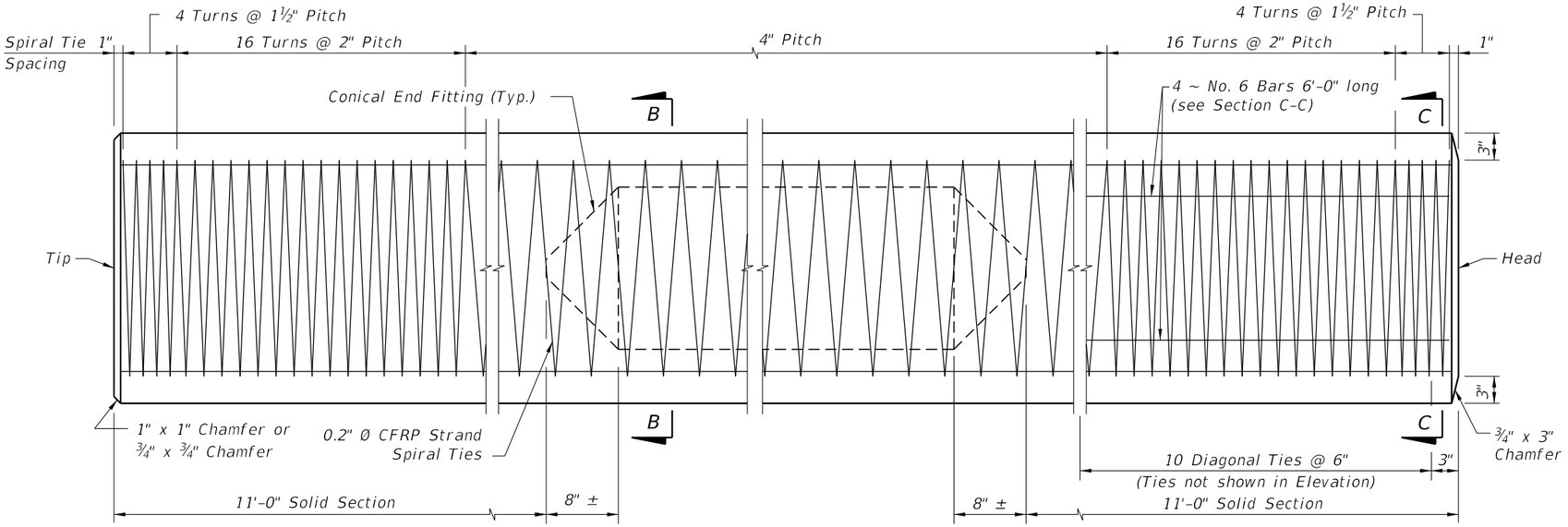
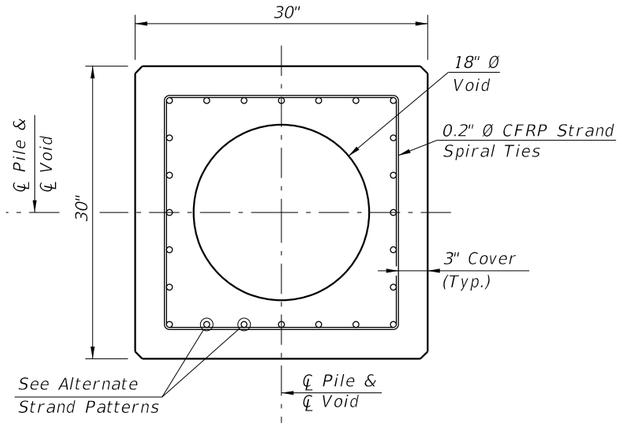
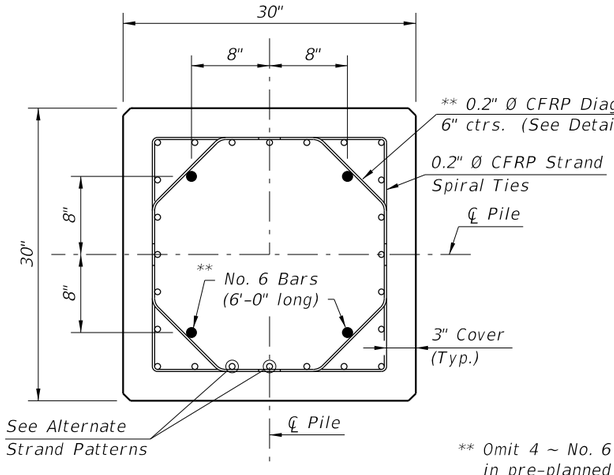


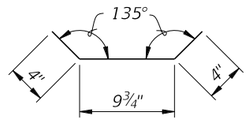

ELEVATION




SECTION B-B
(See Pile Splice Reinforcement Details)




SECTION C-C
(See Pile Splice Reinforcement Details)



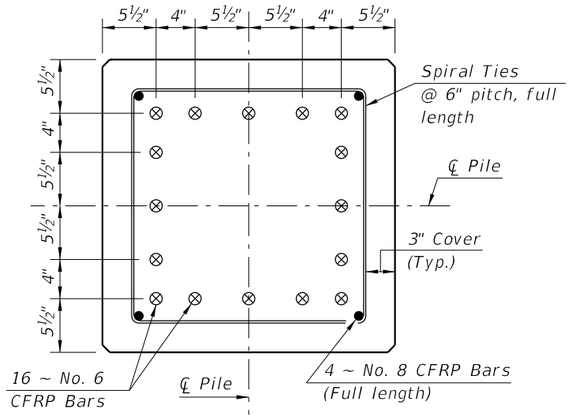

0.2" Ø DIAGONAL TIE DETAIL

** Omit 4 ~ No. 6 Bars and Diagonal Ties in pre-planned mechanical splice.

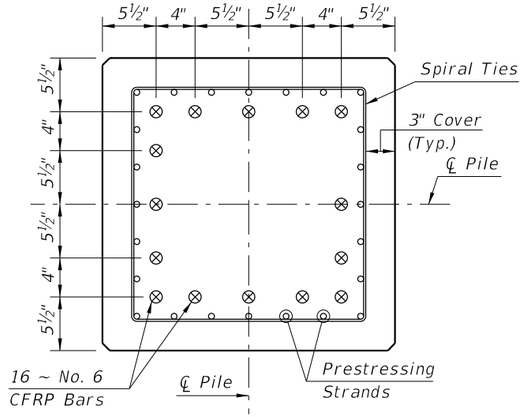
## ALTERNATE STRAND PATTERNS

20 ~ 0.6" Ø, CFRP 7-Strand at 38 kips
20 ~ ½" Ø, CFRP Single-Strand at 37 kips

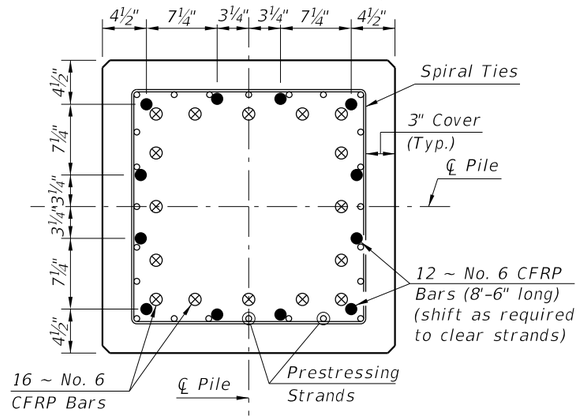
NOTES:
1. Any of the given Strand Patterns may be utilized. The strands shall be located as follows: Place one strand at each corner and place the remaining strands equally spaced between the corner strands. The total strand pattern shall be concentric with the nominal concrete section of the pile.
2. CONTRACTOR OPTION: The 30" pile may be cast SOLID by omitting the 18" Ø void. In this event, the Contractor shall submit calculations for approval and a proposed strand configuration that provide net prestressing after losses equal to 1000 psi. Alternate configurations for the Diagonal Ties, to maintain the position of the 4 ~ #6 Bars, may be approved by the Engineer.
3. Work this Index with Index 455-101 – Typical Details and Notes for Square CFRP & SS Prestressed Concrete Piles and Index 455-102 – Square CFRP & SS Prestressed Concrete Pile Splices.




SECTION D-D
(See Non-Drivable Unforeseen Reinforced Precast Pile Build-Up Detail)




SECTION E-E
(See Drivable Prestressed Precast Pile Splice Detail)



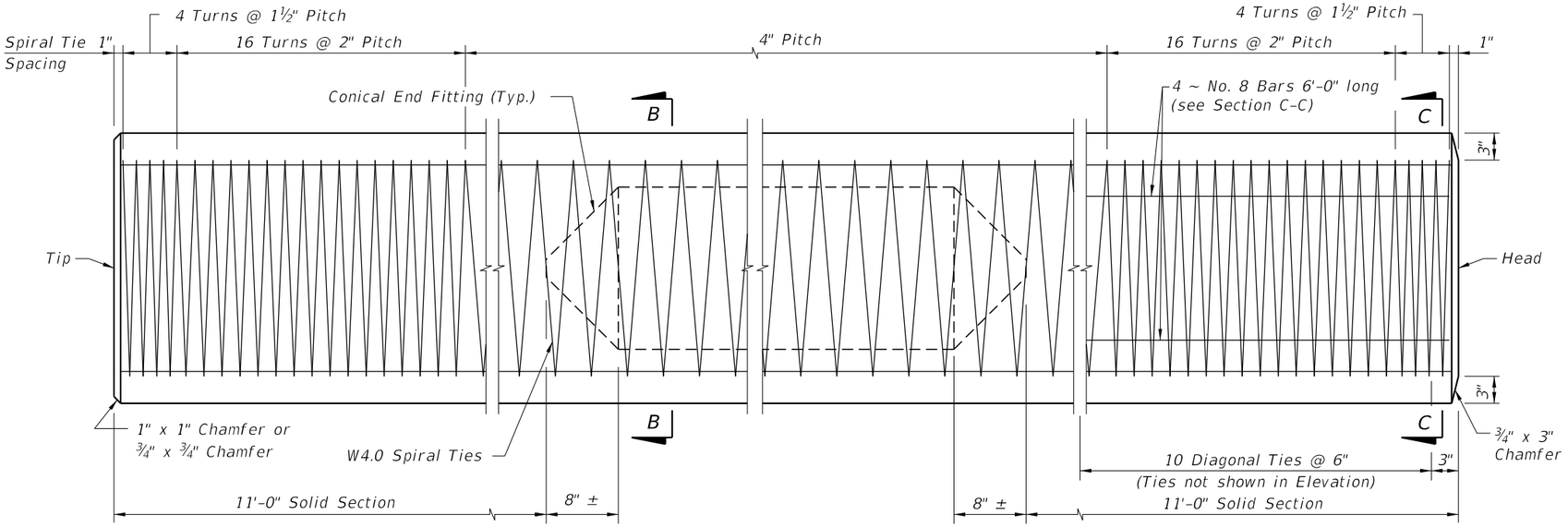

SECTION F-F
(See Drivable Preplanned Prestressed Precast Pile Splice Detail)

CFRP PILE SPLICE DETAILS

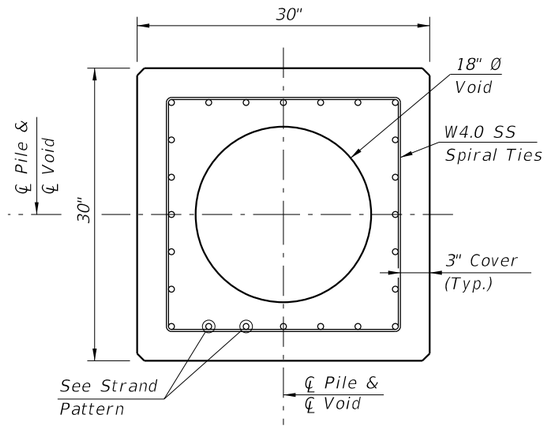
CFRP PRESTRESSED PILE DETAILS

10/17/2024 10:08:36 AM

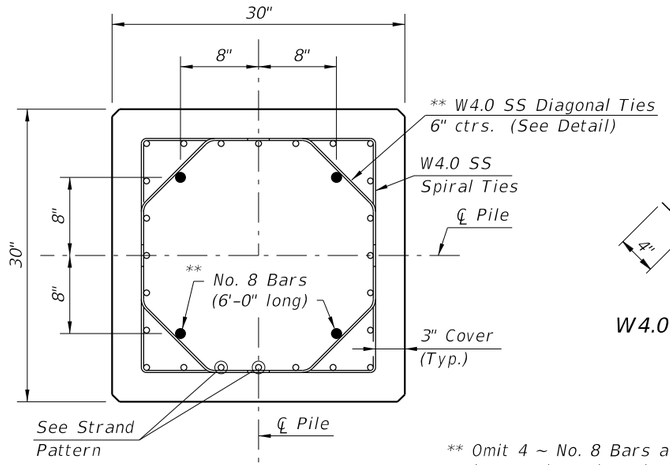
| LAST REVISION | REVISION | DESCRIPTION: | FY 2025-26 STANDARD PLANS | 30" SQUARE CFRP & SS PRESTRESSED CONCRETE PILE | INDEX | SHEET |
|---|---|---|---|---|---|---|
| 11/01/16 | | | | | 455-130 | 1 of 2 |



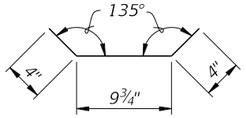

ELEVATION




SECTION B-B
(See Pile Splice Reinforcement Details)




SECTION C-C
(See Pile Splice Reinforcement Details)



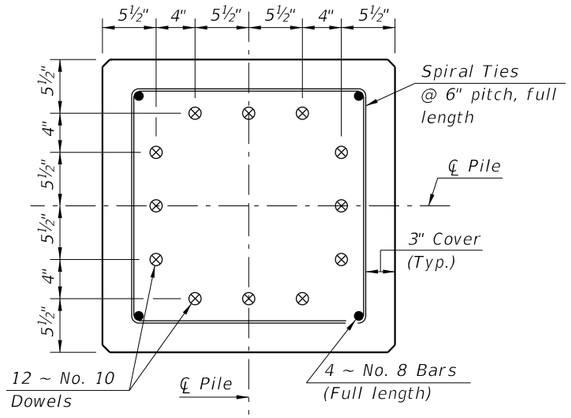

W4.0 DIAGONAL TIE DETAIL

** Omit 4 ~ No. 8 Bars and Diagonal Ties in pre-planned mechanical splice.

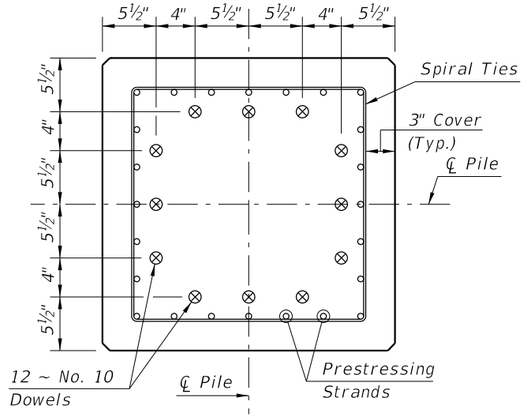
## STRAND PATTERN

32 ~ 0.52" Ø, HSSS at 26 kips
24 ~ 0.62" Ø, HSSS at 35 kips

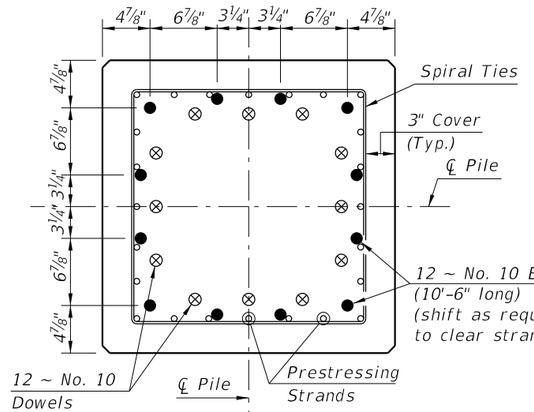
NOTES:
1. Any of the given Strand Patterns may be utilized. The strands shall be located as follows: Place one strand at each corner and place the remaining strands equally spaced between the corner strands. The total strand pattern shall be concentric with the nominal concrete section of the pile.
2. CONTRACTOR OPTION: The 30" pile may be cast SOLID by omitting the 18" Ø void. In this event, the Contractor shall submit calculations for approval and a proposed strand configuration that provide net prestressing after losses equal to 1000 psi. Alternate configurations for the Diagonal Ties, to maintain the position of the 4 ~ #8 Bars, may be approved by the Engineer.
3. Work this Index with Index 455-101 – Typical Details and Notes for Square CFRP & SS Prestressed Concrete Piles and Index 455-102 – Square CFRP & SS Prestressed Concrete Pile Splices.




SECTION D-D
(See Non-Drivable Unforeseen Reinforced Precast Pile Build-Up Detail)




SECTION E-E
(See Drivable Prestressed Precast Pile Splice Detail)




SECTION F-F
(See Drivable Preplanned Prestressed Precast Pile Splice Detail)

SS PILE SPLICE DETAILS

SS PRESTRESSED PILE DETAILS

10/17/2024 10:08:42 AM

| LAST REVISION | REVISION | DESCRIPTION: | FY 2025-26 STANDARD PLANS | 30" SQUARE CFRP & SS PRESTRESSED CONCRETE PILE | INDEX | SHEET |
|---|---|---|---|---|---|---|
| 11/01/24 | | | | | 455-130 | 2 of 2 |