TREATED TIMBER PILE DECKING

HEAVY HEX. NUT

60 d NAILS. BACKING PLANK ALTERNATE ATTACHMENT

SECTION THRU DEADMAN STEEL "HP" PILING

BODY & WING PLANK CONNECTION DETAILS

CONCRETE CAST-IN-PLACE PILING

PILE CAP DETAIL TIMBER PILING STEEL "HP" PILING SECTION PI

STEEL "HP" PILING ALTERNATE ATTACHMENT

BODY & WING PLANK CONNECTION DETAILS

PLANK BACKING PLATE.

SHOWN WITH 2-40 d NAILS PER APPROVED EQUAL AT LOCATIONS STANLEY ANCHOR PLATES OR ATTACH BACKING TO PILES WITH FULL LENGTH #4 BARS WASHER PLATE.

NAILING STRIP 6" X 6" NAILING STRIP 8" X 6" 3'-0"

PILE CAP 12" X 12" PILE STAY 8" X 8" X 5'-0" 1'-6"

6" DIA. DRIFT BOLT X 2'-6" LONG 1" DIA. PIPE 1" DIA. TIE ROD

WHEN PILES ARE EXPOSED THRU REINFORCED CAST-IN-PLACE PILING REFER TO STANDARD 11.01 FOR SECTION WEARING SURFACE 2'-0" LONG .25" DIA. X 2'-6" LONG SLEEVE.

.25" DIA. BOLT WITH PLATE WASHERS.

WELD ROD TO PILE SHELL AS SHOWN. PILING, WITH SQUARE NUT & WASHER.

4'-0" CENTERS FOR WING & BODY .25" DIA. THREADED BOLT, PLACE AT ALTERNATE CENTERS. WITH .25" DIA. BOLTS AT 3'-0"

BOLT NAILING STRIP TO PILING NOW 0" STRAPS AT 1'-0" CENTERS AT 3'-0"

Approved: Date: 7-16

STANDARD 23.03

BUREAU OF STRUCTURES

TIMBER ABUTMENT DETAILS

Bill Oliva

TREATED TIMBER PILE DECKING

HEAVY HEX. NUT

60 d NAILS. BACKING PLANK ALTERNATE ATTACHMENT

SECTION THRU DEADMAN STEEL "HP" PILING

BODY & WING PLANK CONNECTION DETAILS

CONCRETE CAST-IN-PLACE PILING

PILE CAP DETAIL TIMBER PILING STEEL "HP" PILING SECTION PI

STEEL "HP" PILING ALTERNATE ATTACHMENT

BODY & WING PLANK CONNECTION DETAILS

PLANK BACKING PLATE.

SHOWN WITH 2-40 d NAILS PER APPROVED EQUAL AT LOCATIONS STANLEY ANCHOR PLATES OR ATTACH BACKING TO PILES WITH FULL LENGTH #4 BARS WASHER PLATE.

NAILING STRIP 6" X 6" NAILING STRIP 8" X 6" 3'-0"

PILE CAP 12" X 12" PILE STAY 8" X 8" X 5'-0" 1'-6"

6" DIA. DRIFT BOLT X 2'-6" LONG 1" DIA. PIPE 1" DIA. TIE ROD

WHEN PILES ARE EXPOSED THRU REINFORCED CAST-IN-PLACE PILING REFER TO STANDARD 11.01 FOR SECTION WEARING SURFACE 2'-0" LONG .25" DIA. X 2'-6" LONG SLEEVE.

.25" DIA. BOLT WITH PLATE WASHERS.

WELD ROD TO PILE SHELL AS SHOWN. PILING, WITH SQUARE NUT & WASHER.

4'-0" CENTERS FOR WING & BODY .25" DIA. THREADED BOLT, PLACE AT ALTERNATE CENTERS. WITH .25" DIA. BOLTS AT 3'-0"

BOLT NAILING STRIP TO PILING NOW 0" STRAPS AT 1'-0" CENTERS AT 3'-0"

Approved: Date: 7-16

STANDARD 23.03

BUREAU OF STRUCTURES

TIMBER ABUTMENT DETAILS

Bill Oliva

TREATED TIMBER PILE DECKING

HEAVY HEX. NUT

60 d NAILS. BACKING PLANK ALTERNATE ATTACHMENT

SECTION THRU DEADMAN STEEL "HP" PILING

BODY & WING PLANK CONNECTION DETAILS

CONCRETE CAST-IN-PLACE PILING

PILE CAP DETAIL TIMBER PILING STEEL "HP" PILING SECTION PI

STEEL "HP" PILING ALTERNATE ATTACHMENT

BODY & WING PLANK CONNECTION DETAILS

PLANK BACKING PLATE.

SHOWN WITH 2-40 d NAILS PER APPROVED EQUAL AT LOCATIONS STANLEY ANCHOR PLATES OR ATTACH BACKING TO PILES WITH FULL LENGTH #4 BARS WASHER PLATE.

NAILING STRIP 6" X 6" NAILING STRIP 8" X 6" 3'-0"

PILE CAP 12" X 12" PILE STAY 8" X 8" X 5'-0" 1'-6"

6" DIA. DRIFT BOLT X 2'-6" LONG 1" DIA. PIPE 1" DIA. TIE ROD

WHEN PILES ARE EXPOSED THRU REINFORCED CAST-IN-PLACE PILING REFER TO STANDARD 11.01 FOR SECTION WEARING SURFACE 2'-0" LONG .25" DIA. X 2'-6" LONG SLEEVE.

.25" DIA. BOLT WITH PLATE WASHERS.

WELD ROD TO PILE SHELL AS SHOWN. PILING, WITH SQUARE NUT & WASHER.

4'-0" CENTERS FOR WING & BODY .25" DIA. THREADED BOLT, PLACE AT ALTERNATE CENTERS. WITH .25" DIA. BOLTS AT 3'-0"

BOLT NAILING STRIP TO PILING NOW 0" STRAPS AT 1'-0" CENTERS AT 3'-0"

Approved: Date: 7-16

STANDARD 23.03

BUREAU OF STRUCTURES

TIMBER ABUTMENT DETAILS

Bill Oliva

TREATED TIMBER PILE DECKING

HEAVY HEX. NUT

60 d NAILS. BACKING PLANK ALTERNATE ATTACHMENT

SECTION THRU DEADMAN STEEL "HP" PILING

BODY & WING PLANK CONNECTION DETAILS

CONCRETE CAST-IN-PLACE PILING

PILE CAP DETAIL TIMBER PILING STEEL "HP" PILING SECTION PI

STEEL "HP" PILING ALTERNATE ATTACHMENT

BODY & WING PLANK CONNECTION DETAILS

PLANK BACKING PLATE.

SHOWN WITH 2-40 d NAILS PER APPROVED EQUAL AT LOCATIONS STANLEY ANCHOR PLATES OR ATTACH BACKING TO PILES WITH FULL LENGTH #4 BARS WASHER PLATE.

NAILING STRIP 6" X 6" NAILING STRIP 8" X 6" 3'-0"

PILE CAP 12" X 12" PILE STAY 8" X 8" X 5'-0" 1'-6"

6" DIA. DRIFT BOLT X 2'-6" LONG 1" DIA. PIPE 1" DIA. TIE ROD

WHEN PILES ARE EXPOSED THRU REINFORCED CAST-IN-PLACE PILING REFER TO STANDARD 11.01 FOR SECTION WEARING SURFACE 2'-0" LONG .25" DIA. X 2'-6" LONG SLEEVE.

.25" DIA. BOLT WITH PLATE WASHERS.

WELD ROD TO PILE SHELL AS SHOWN. PILING, WITH SQUARE NUT & WASHER.

4'-0" CENTERS FOR WING & BODY .25" DIA. THREADED BOLT, PLACE AT ALTERNATE CENTERS. WITH .25" DIA. BOLTS AT 3'-0"

BOLT NAILING STRIP TO PILING NOW 0" STRAPS AT 1'-0" CENTERS AT 3'-0"

Approved: Date: 7-16

STANDARD 23.03

BUREAU OF STRUCTURES

TIMBER ABUTMENT DETAILS

Bill Oliva

TREATED TIMBER PILE DECKING

HEAVY HEX. NUT

60 d NAILS. BACKING PLANK ALTERNATE ATTACHMENT

SECTION THRU DEADMAN STEEL "HP" PILING

BODY & WING PLANK CONNECTION DETAILS

CONCRETE CAST-IN-PLACE PILING

PILE CAP DETAIL TIMBER PILING STEEL "HP" PILING SECTION PI

STEEL "HP" PILING ALTERNATE ATTACHMENT

BODY & WING PLANK CONNECTION DETAILS

PLANK BACKING PLATE.

SHOWN WITH 2-40 d NAILS PER APPROVED EQUAL AT LOCATIONS STANLEY ANCHOR PLATES OR ATTACH BACKING TO PILES WITH FULL LENGTH #4 BARS WASHER PLATE.

NAILING STRIP 6" X 6" NAILING STRIP 8" X 6" 3'-0"

PILE CAP 12" X 12" PILE STAY 8" X 8" X 5'-0" 1'-6"

6" DIA. DRIFT BOLT X 2'-6" LONG 1" DIA. PIPE 1" DIA. TIE ROD

WHEN PILES ARE EXPOSED THRU REINFORCED CAST-IN-PLACE PILING REFER TO STANDARD 11.01 FOR SECTION WEARING SURFACE 2'-0" LONG .25" DIA. X 2'-6" LONG SLEEVE.

.25" DIA. BOLT WITH PLATE WASHERS.

WELD ROD TO PILE SHELL AS SHOWN. PILING, WITH SQUARE NUT & WASHER.

4'-0" CENTERS FOR WING & BODY .25" DIA. THREADED BOLT, PLACE AT ALTERNATE CENTERS. WITH .25" DIA. BOLTS AT 3'-0"

BOLT NAILING STRIP TO PILING NOW 0" STRAPS AT 1'-0" CENTERS AT 3'-0"