

Plotted By : \$USER\$NAME\$
Plot File : \$\$\$\$DGN\$SPEC\$\$\$\$\$\$\$\$\$
Plot Date : \$\$\$\$STIME\$\$\$\$\$
Srd. Base File : /usr2/stand/sr/bt/10si.dgn
Working File :
Back Up File : View= PLOTT

O D 275 T. = 6 mm
O D 325 T. = 6 mm Min.
O D 355 T. = 6 mm Min.

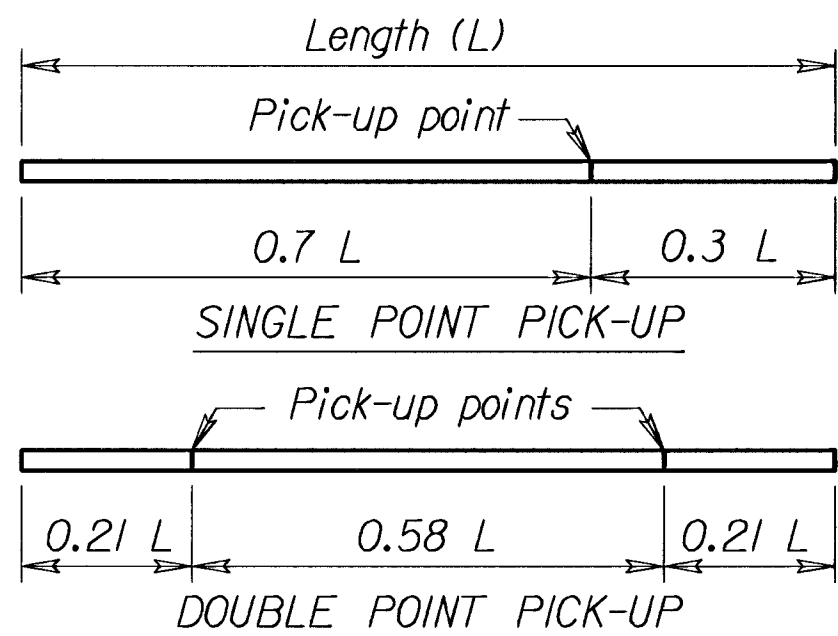
Note:
Pile shall be driven
with a steel head
having a projecting
ring fitting inside
the pipe. Clearance
between ring and
pipe should be 5 mm.

PIPE PILE
SPlice DETAIL

Note:
Pile pipe may be spiral
welded, longitudinal welded,
or seamless steel pipe.

20 mm Driving $\varnothing$
20 mm Round $\varnothing$

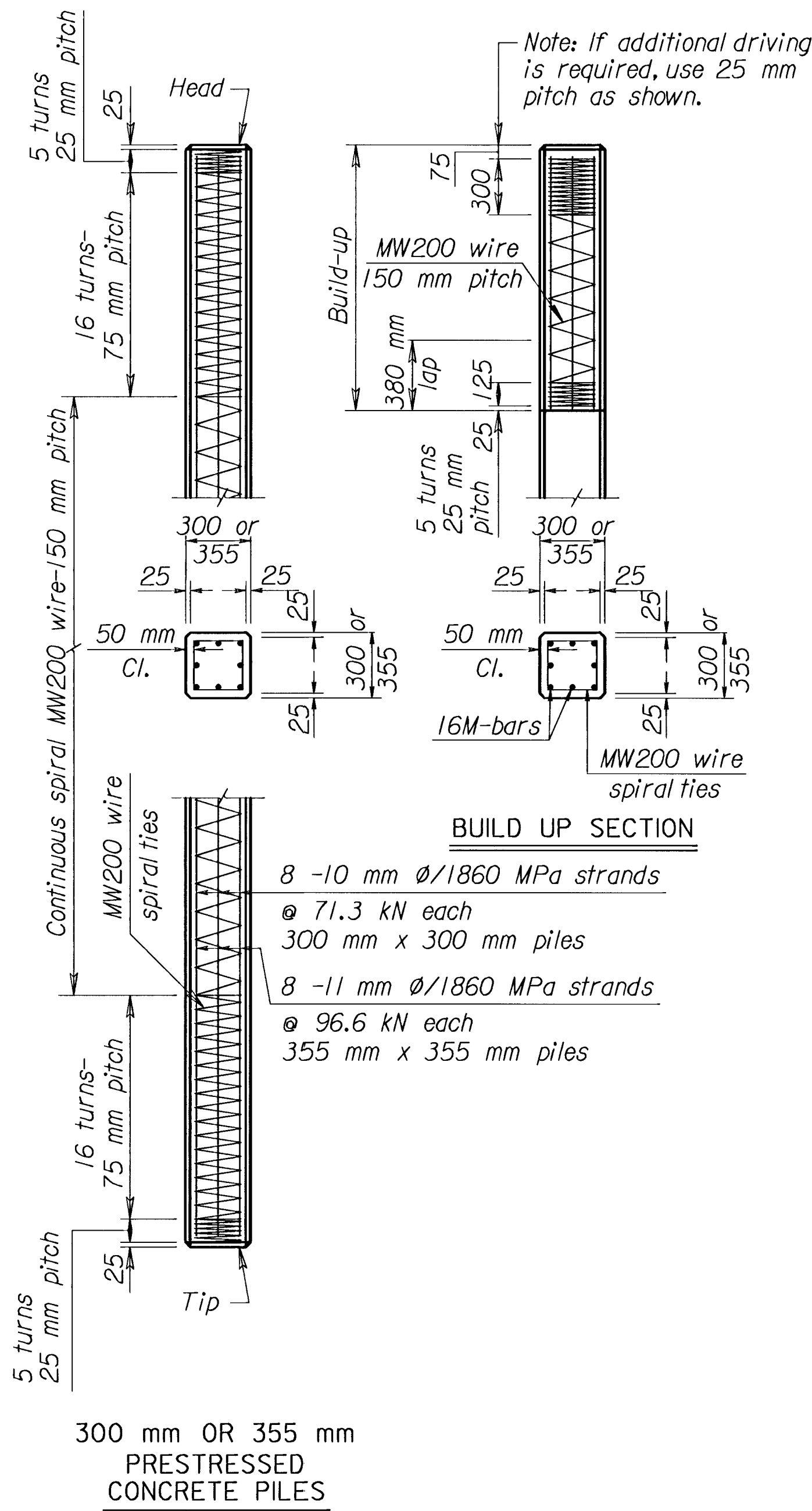
PLAIN ROUND
CAST-IN-PLACE CONCRETE PILES



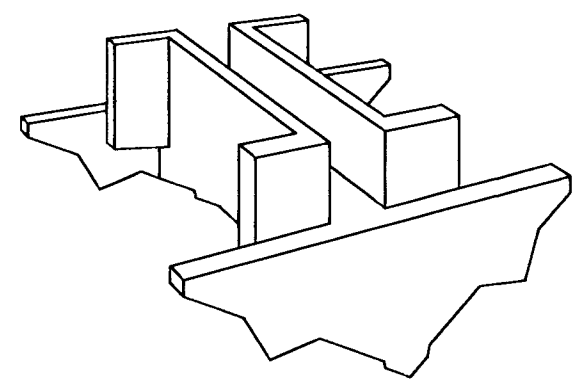
PICK-UP POINTS FOR PRESTRESSED PILING

Max. length - 16 m single point pick-up
Max. length - 24 m double point pick-up

Note: Mark piles at pick-up points
to indicate proper points for attaching
handling lines.

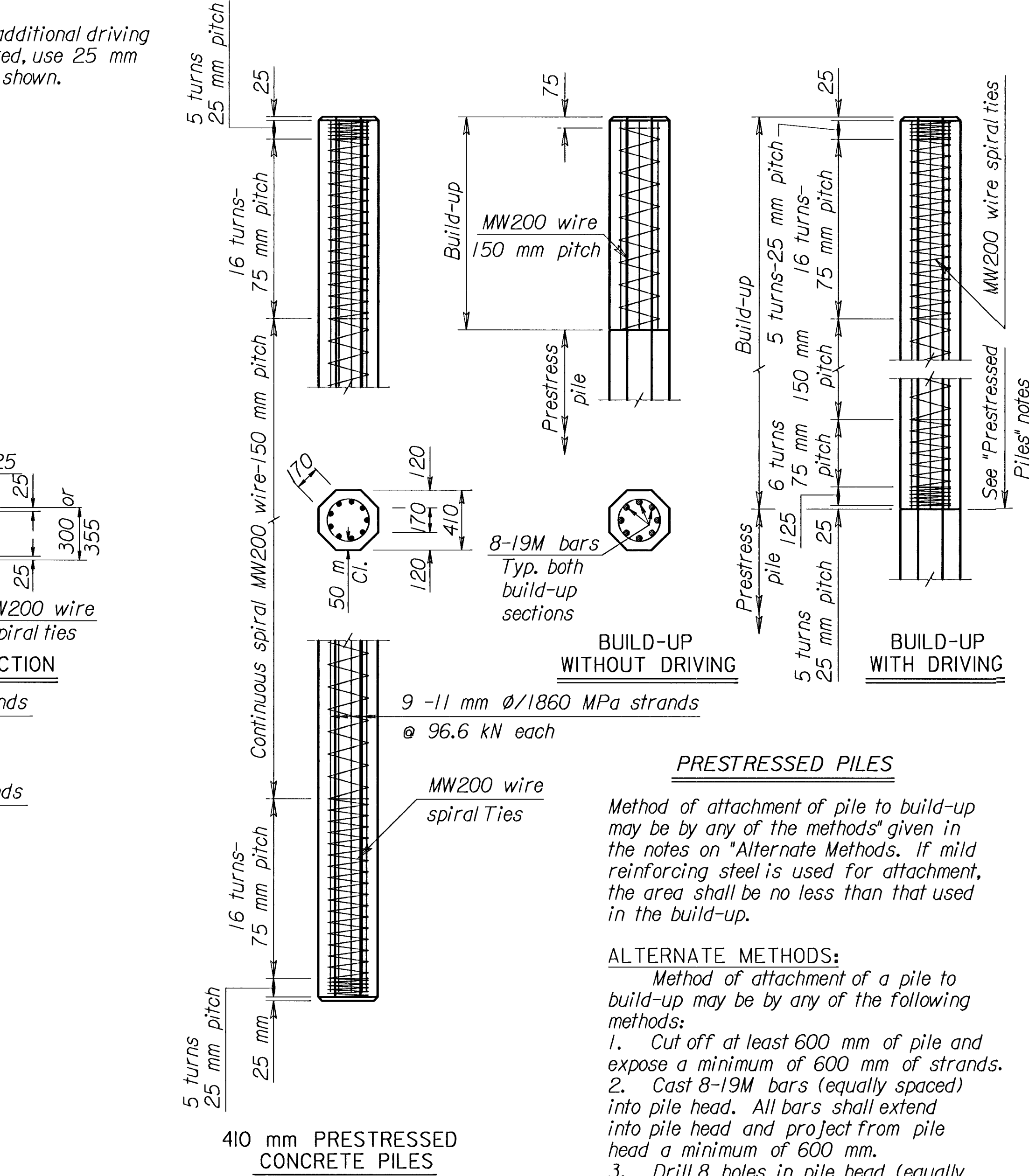


300 mm OR 355 mm
PRESTRESSED
CONCRETE PILES

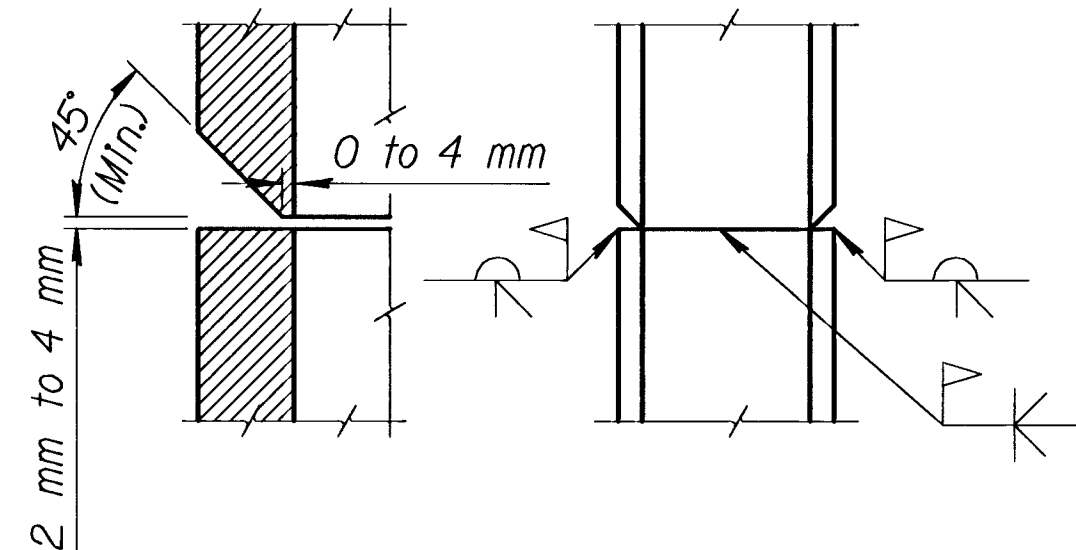


CAST STEEL PILE POINT

The pile point shall be a one-piece unit of cast steel.
Weld pile points in accordance with manufacture's
recommendations to each steel pile before driving.



410 mm PRESTRESSED
CONCRETE PILES



SECTION THRU FLANGE

PILE SPlice DETAIL
(H-PILE)

FOR INFORMATION ONLY EQUIVALENT POINT BEARING PILES		
STEEL PILES	CONCRETE PILES	
	Pipe	Pre-stress
250x62	275	
310x79	325	
360x108	355	300
360x152		355
360x174		410

SPECIFICATIONS: Standard Specifications for State Road and Bridge
Construction as currently used by the Kansas Department of
Transportation. The following items are covered in Division 700 of
the Standard Specifications:

CONCRETE: Concrete for cast-in-place shall be $f'c = 20$ MPa.
Concrete for prestressed shall be $f'c = 35$ MPa.

WELDING: All field welding shall meet the requirements of the
Standard Specifications.

TEST PILES: Drive test piles where called for on the bridge plans.
The test piles located within the limits of the substructure will
become a part of the bridge pile system.

SPLICES: Splices for steel piles and shell piling shall be in
accordance with details shown on this sheet and the Standard
Specifications.

Fabricate prestressed concrete pile splices in accordance with the
Manufacturer's recommendations subject to the approval of the
Engineer.

DRIVING FORMULA: Driving formula shall conform to the Standard
Specifications.

MEASUREMENT AND PAYMENT: Measurement and payment for all piles
shall comply with the Standard Specifications.

The following items are covered in Division 1000 of the
Standard Specifications:

REINFORCEMENT: Use reinforcing steel conforming to ASTM
A615M-96, Grade 420. Hoops and spirals may be either plain or
deformed bars.

PRESTRESSING STEEL: Use uncoated seven-wire stress relieved or low
relaxation prestressing strand conforming to ASTM A416M, Gr. 1860.

CAST-IN-PLACE SHELLS: Steel shells for cast-in-place piles
shall conform to the requirements of the Standard
Specifications.

All piles driven without a mandrel shall be of the minimum
thicknesses shown. Piles driven with a mandrel shall be of
sufficient strength and thickness to withstand driving without
injury and to resist harmful distortion and/or buckling due to
soil pressure after the mandrel is removed.

Remove, replace or correct to the satisfaction of the Engineer
improperly driven, broken or otherwise defective pipe piles.
Otherwise drive an additional pile at no extra cost.

The Contractor shall maintain a light suitable for visual
inspection of the pile on the Job at all times prior to and
during the filling of the pipe.

STEEL PILE: Steel pile shall conform to the requirements of the
Standard Specifications.

PILE POINTS: Pile points shall conform to the dimensions shown
and to requirements of the Standard Specifications.

PAINT: All paint shall comply with the Standard Specifications, or
as specified on the plans.

MILL TEST REPORTS: Steel piles test reports and steel shell
test reports shall comply with the Standard Specifications.

3	6-23-97	Change resteel grade	LRR	KFH
2	3-27-96	ASTM A615M-96 Changes	LRR	KFH
1	6-30-95	Correct spiral wire size	LRR	KFH
NO.	DATE	REVISIONS	BY	APP'D

KANSAS DEPARTMENT OF TRANSPORTATION

STANDARD PILE DETAILS

BRIIO SI		7-9-97	APP'D
DESIGNED	DETAILED	JK QUANTITIES	CADD
DESIGN CK.	DETAIL CK.	LRR QUAN. CK.	CADD CK.