

GENERAL NOTES

DESIGN SPECIFICATIONS
 This Standard Drawing conforms to "Standard Specifications for Highway Bridges" adopted by the American Association of State Highway and Transportation Officials, 1992, including the 1993 Interim specifications and the ODOT Bridge Design Manual.

DESIGN LOADING: HS20-44 and the Alternate Military Loading.

DESIGN DATA:
CONCRETE CLASS "S" - Compressive Strength 4500 P.S.I.
REINFORCING STEEL - ASTM A615, A616 or A617 Grade 60, with a minimum yield strength of 60,000 P.S.I. and shall be epoxy coated.
SPIRAL REINFORCEMENT may be plain bars, ASTM A82 or A615 and shall be epoxy coated.
ITEM SPECIAL - PILE ENCASEMENT: All Steel H Piles shall be encased or galvanized as shown.
 The encasement option shall consist of a pipe filled with either Class C or Class S concrete as per 507.06.
 The galvanizing option shall be as per 711.02. The galvanizing coating minimum thickness shall be 4 mils. Gouges, scrapes, scratches or other surface imperfections caused by handling or driving of the H pile shall be repaired to the satisfaction of the Engineer. Additional galvanizing length beyond plan dimensions shall be at the Contractor's expense.

GENERAL NOTES (CONTINUED)

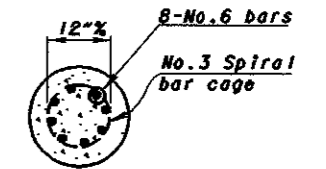
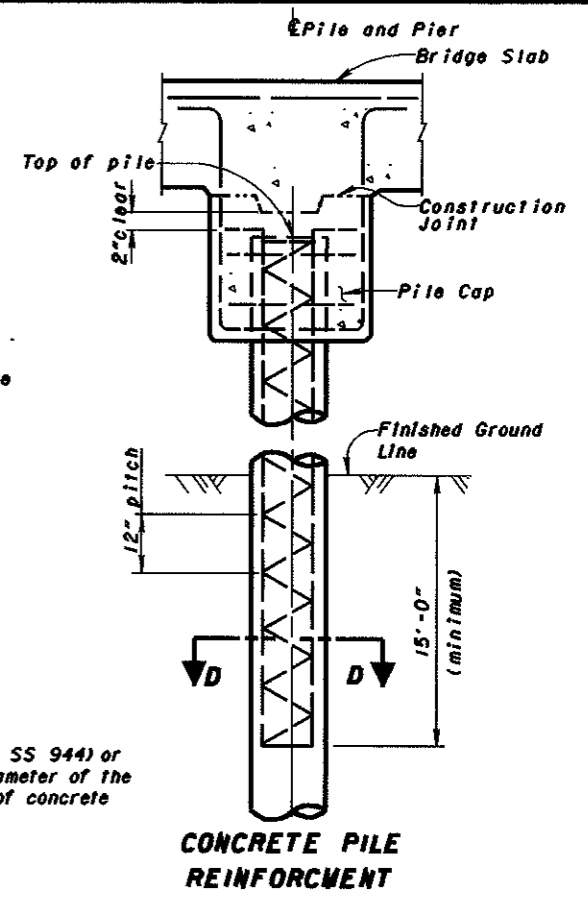
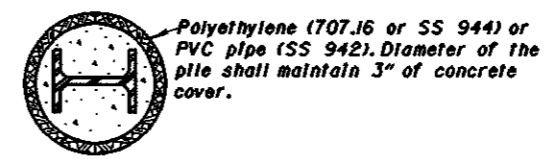
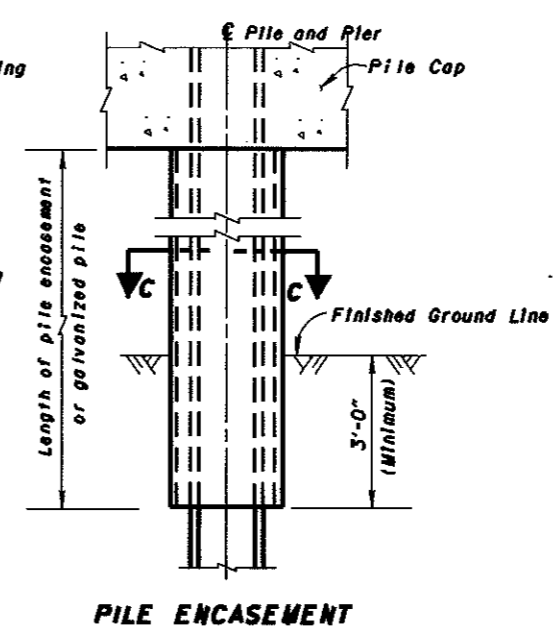
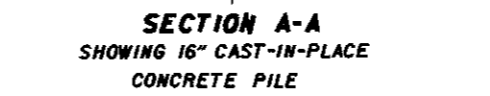
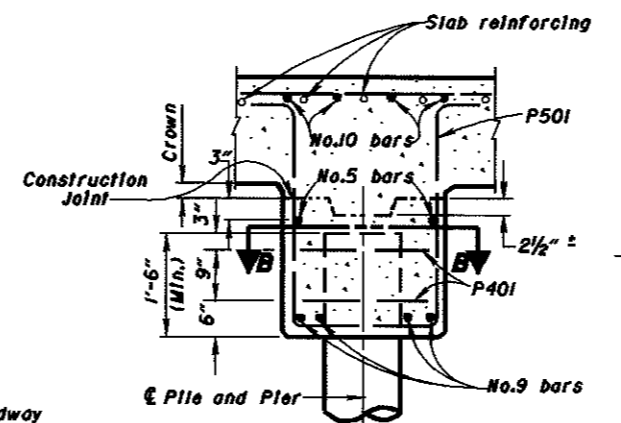
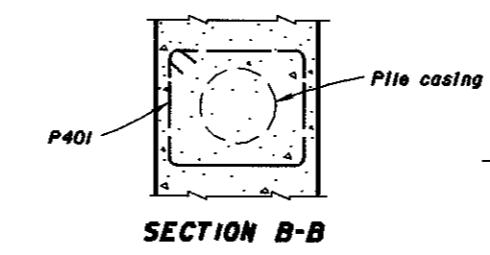
The length of pile encasement shall be measured in feet along the length of the pile. This item shall include all work and materials necessary to furnish the required encasement. Payment for pile encasement or galvanizing will be made at the contract unit price linear foot as item Special, Pile Encasement.

FALSEWORK SUPPORT: Attachment of the falsework support members to pier piles will be permitted if the attachment is made to the portion of pile encased in the pier cap. There shall be no eccentric loads produced in the piles by attached falsework support members.

DESIGN INSTRUCTIONS

GENERAL: This drawing provides general construction details. The project plans for each structure shall show Stations, Span Lengths, Roadway Width, Skew, Curve and Super-elevation (if any) Elevations, Superstructure Details, Estimated Quantities, Reinforcing Steel List, Pile Encasement and other necessary details and special notes.

REINFORCING STEEL: The longitudinal No. 10, No. 9 and No. 5 bars, at the option of the Contractor, may be furnished either in one length as shown hereon, or spliced, if the splice option is chosen, the No. 10 bar shall be lapped 9'-3", the No. 9 bar shall be lapped 8'-0" and the No. 5 bar shall be lapped 2'-11". A staggered lap splice arrangement should be used.



DESIGN INSTRUCTIONS (CONTINUED.)

Payment for reinforcing shall be the plan quantity. Do not adjust the plan quantity to include bar weights furnished to provide lap splices.

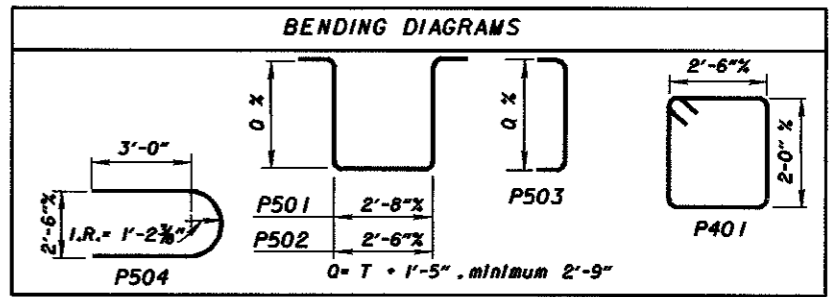
PILE TYPE AND SIZE: The pile type and size shall be specified on the project plans. For example a 16" diameter cast-in-place reinforced concrete pile, as shown in Section D-D, or a HPI2X53 pile.

PILE DESIGN LOADS: The pile design loads and estimated pay lengths shall be given in the Structure General Notes. Pile spacings shall not exceed 7'-6".

SLAB THICKNESS: See Slab Standard Drawing for value of "T".

LIMITS OF DESIGN: This Standard Drawing should not be used for for any bridge in which the following limits are exceeded.

- Skew angle equals 35°
- Exposed height of piles equals 20 feet (consider scour depths and soil density)
- To support a continuous span arrangement of greater than 55'
- Sloped embankment, debris or ice flow loads which would cause appreciable horizontal force against the pile bent
- Rock or other firm material would prevent driving piles at least ten feet below finished ground line



Legend:
 I.R. = Inside Radius
 X = Out to Out
 R = Radius
 T = Slab Thickness