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## GENERAL NOTES:

EXCEPT AS NOTED ELSEWHERE, MATERIAL, CONSTRUCTION, DRIVING AND EXTENSIONS OR BUILD UPS WHEN NECESSARY SHALL BE IN ACCORDANCE WITH STANDARD SPECIFICATIONS OF THE IOWA D.O.T. AND CURRENT SUPPLEMENTAL SPECIFICATIONS AND SPECIAL PROVISIONS APPLICABLE.

CAP STEEL SHALL BE AS DETAILED ON THIS SHEET (D=PIN DIAMETER). IT SHOULD BE USED IF PILE EMBEDMENT IS LESS THAN 1'-6. "BEARING VALUES, "C", AND "H" AS GIVEN IN TABLES ARE RECOMMENDED DESIGN VALUES FOR ORDINARY CONDITIONS, BUT MAY BE MODIFIED FOR

SPECIAL CONDITIONS ON ANY GIVEN JOB. BEARING VALUE AND PILE SIZE REQUIRED SHALL IN ALL CASES BE AS

BEARING VALUES SHOWN ARE FOR FRICTION TYPE BEARING EXCEPT FOR TYPE 3 PLING WHERE THE BEARING VALUES SHOWN COULD BE EITHER

FRICTION OR POINT BEARING. COST OF ALL DRIVING POINTS AND CAP STEEL IS TO BE INCLUDED IN

THE PRICE BID PER LINEAL FOOT FOR PILING. WIRE SPIRAL SHALL CONFORM TO ASTM A-82.

## CAST IN PLACE PILE NOTES:

SHELL THICKNESSES SHOWN ARE MINIMUM REQUIREMENTS. THE METHOD OF DRIVING STEEL SHELL PILES SHALL BE ADAPTED TO THE TYPE AND THICKNESS OF SHELL SPECIFIED, ANY SHELLS WHICH HAVE BEEN IMPROPERLY DRIVEN. BROKEN OR ARE OTHERWISE DEFECTIVE SHALL BE REMOVED AND REPLACED BY THE BRIDGE CONTRACTOR. ALL CAST IN PLACE PILES SHALL HAVE A CLOSURE PLATE, DRIVING

POINTS SHALL BE USED IF SPECIFIED ON THE PLANS.

PRESTRESSED PILE NOTES:

EXCEPT AS OTHERWISE NOTED ALL EXPOSED CORNERS 90° OR SHARPER SHALL BE FILLETED 3".

DRIVING POINTS FOR PRESTRESSED PILES, IF CALLED FOR ON THE PLANS, SHALL BE AS DETAILED.

HEADS OF PRESTRESSED PILES TO BE FINISHED SMOOTH AND NORMAL TO AXIS OF PILE.

THE PLANS SHALL DESIGNATE THE SIZE OF PILE TO BE USED. THEY SHALL ALSO SPECIFY THE TYPE, EITHER TYPE 1, TYPE 2, OR TYPE 3. IF THE OPTION OF TYPE 1 OR 2 IS GIVEN ON THE PLANS, THE CONTRACTOR SHALL CHOOSE THE TYPE TO BE USED. IF TYPE 3 IS SPECIFIED, TYPE 3 SHALL BE USED. BUT THE CONTRACTOR MAY CHOOSE THE SHAPE OF THE ENCASEMENT. USEUS DUI THE CUNITACION WAI (DHOUSE INE SMARE OF THE ENCASSMENT). IT SHOLLD BE KEPT IN WIND THAT FOR A GIVEN SIZE AND BEARING VALUE, LENGTH MAY VARY WITH THE SHAPE (SQUARE OR ROUND). PILES SHALL BE BID DESIGNATING THE SIZE, TYPE AND LENGTH.

TYPE I PILING WILL BE BID PER LINEAL FOOT OF PILE. TYPE 2 PILING WILL BE BID PER LINEAL FOOT OF PILE.

TYPE 3 PILING WILL BE BID PER LINEAL FOOT OF PILE AND LINEAL FOOT OF ENCASEMENT, PRICE BID FOR ENCASEMENT SHALL BE FULL PAYMENT FOR NECESSARY EXCAVATION AND FOR FURNISHING AND PLACING ALL MATERIAL.

## DOWEL SETTING PROCEDURE:

IF CAP STEEL IS REQUIRED FOR THE PRESTRESSED PILES THE #8 DEFORMED BARS ARE TO BE SET AS DOWELS INTO THE FILES WITH POLYMER GROUT IN ACCORDANCE WITH ARTICLE 2301.03, E, OF THE STANDARD SPECIFICATIONS OR BY THE FOLLOWING PROCEDURE. A. DRILL HOLE APPROXIMATELY TWICE THE DIAMETER OF THE DOWEL

- BAR AND TO THE DEPTH INDICATED.
  - B. FILL HOLE WITH WATER AND ALLOW TO STAND LONG ENOUGH TO THOROUGHLY SATURATE THE SURROUNDING CONCRETE (ABOUT FOUR HOURS). BLOW OUT ALL FREE WATER AND FILL HOLE 2/3 FULL OF MORTAR.

D. INSERT DOWEL BY DRIVING, IF NECESSARY, AND MANIPULATE OR TAP WITH A HAMMER TO CONSOLIDATE MORTAR AND SECURE

COMPLETE EMBEDMENT. E. ADD MORE MORTAR, IF NECESSARY, TO FILL HOLE,

MORTAR SHALL CONSIST OF EQUAL PARTS PORTLAND CEMENT AND SAND WITH JUST ENOUGH WATER TO MAKE A WORKABLE MIX.

BRIDGE ENGINEER

STANDARD DESIGN

CAST IN PLACE, PRESTRESSED AND ENCASED

FOR USE IN

FILE NO.

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DESIGN NO.

SHEET NUMBER