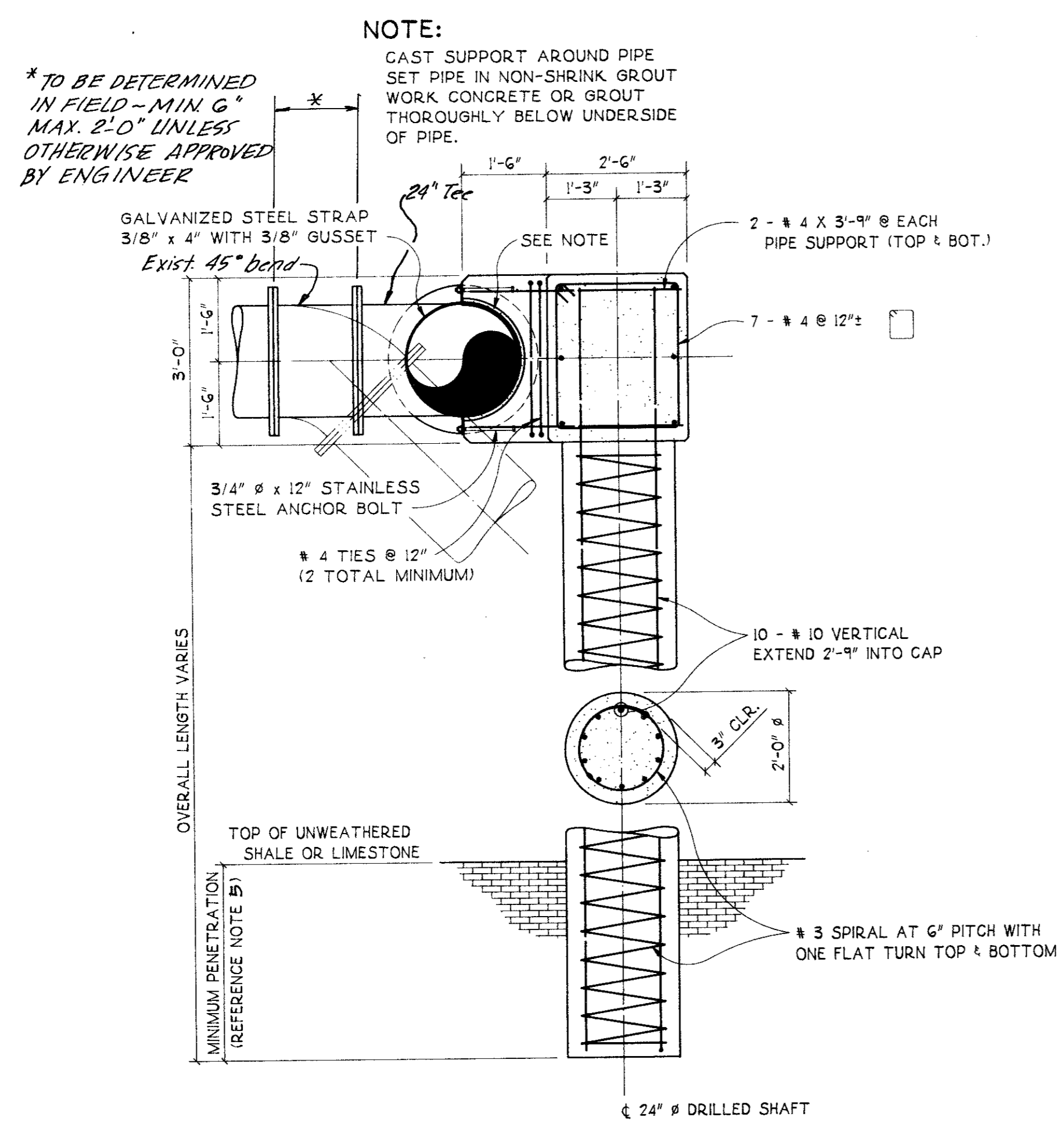
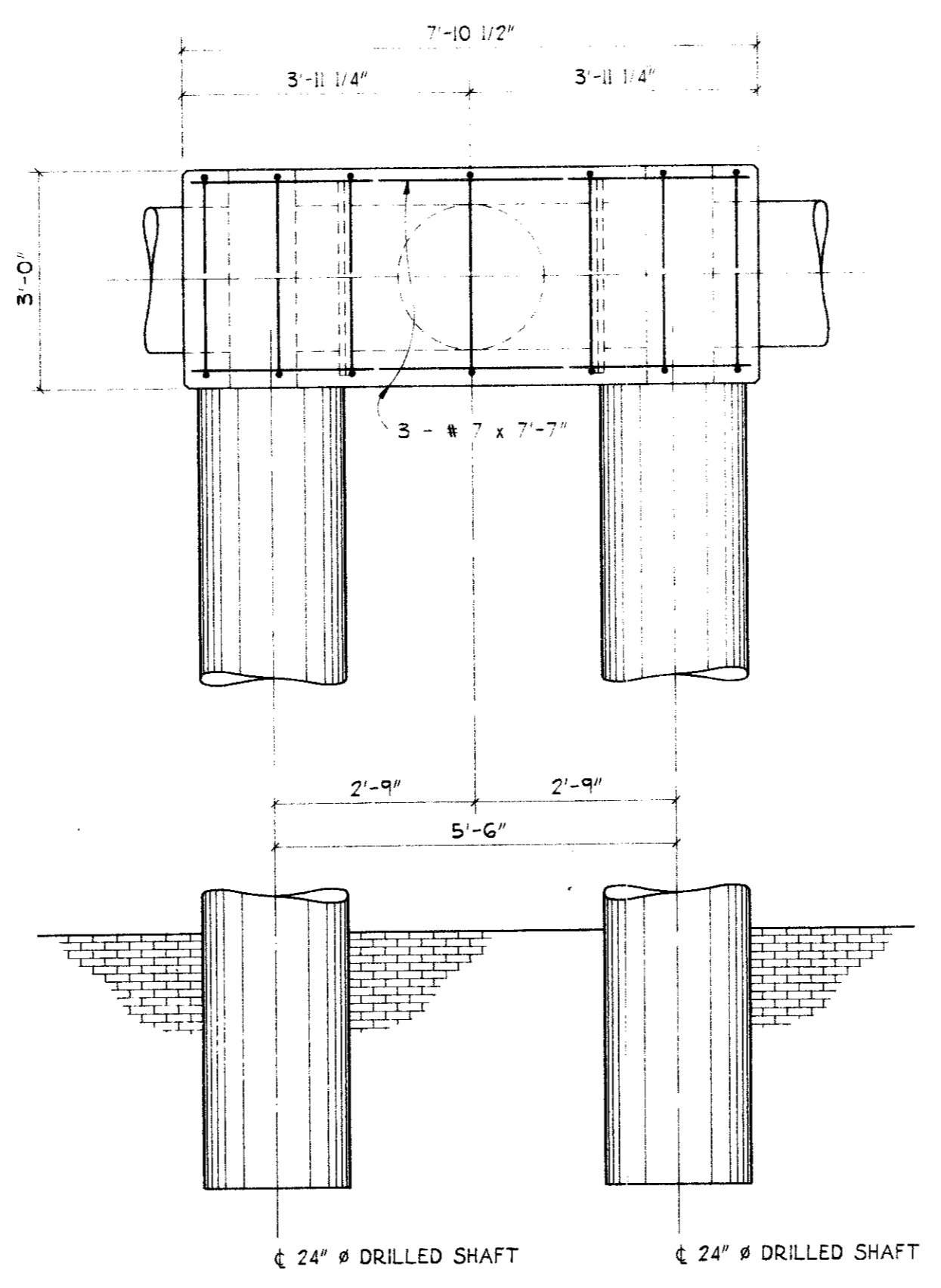


PLAN
SCALE: 1/2" = 1'-0"



DETAIL OF DRILLED SHAFT
SCALE: 1/2" = 1'-0"



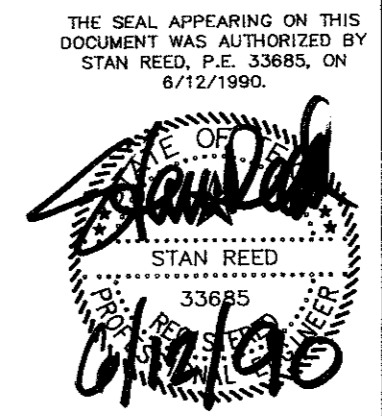
ELEVATION
SCALE: 1/2" = 1'-0"

GENERAL NOTES:

1. CONCRETE SHALL HAVE SAND AND GRAVEL OR CRUSHED STONE AGGREGATES, TYPE I PORTLAND CEMENT, AND A DESIGNATED COMPRESSIVE STRENGTH OF 4000 PSI IN 28 DAYS. NORMAL WEIGHT AGGREGATE SHALL CONFORM TO THE REQUIREMENTS OF ASTM C33.
2. CHAMFER ALL EXPOSED EDGES OF CONCRETE 3/4".
3. ALL CONCRETE REINFORCING BARS SHALL BE OF DOMESTIC MANUFACTURE AND SHALL CONFORM TO THE REQUIREMENTS OF ASTM A615, GRADE 60. FIELD BENT DOWELS AND NO. 3 BARS WHEN USED AS STIRRUPS, SHALL CONFORM TO ASTM A615, GRADE 40.
4. CONCRETE SHALL BE PLACED IN PIER HOLES WITHIN 8 HOURS OF COMPLETION OF DRILLING. IF CONCRETE IS NOT PLACED WITHIN 8 HOURS, THEN THE PIER HOLE SHALL BE EXTENDED AN ADDITIONAL 8 FEET DOWNWARD. CASING OF THE PIER HOLES MAY BE REQUIRED BY FIELD CONDITIONS. EXTRA DEPTH AND CASING AT CONTRACTOR'S EXPENSE.
5. BOTTOM ELEVATIONS OF DRILLED SHAFTS ARE SHOWN FOR BIDDING PURPOSES ONLY. THE REQUIRED LENGTH FOR THE DRILLED SHAFTS SHALL BE BASED ON THE FOLLOWING CRITERIA:
 - (A) MINIMUM LENGTH BELOW BOTTOM OF GRADE BEAM SHALL BE 15'-0".
 - (B) MINIMUM PENETRATION INTO UNWEATHERED LIMESTONE SHALL BE 6'-0".
 THE REQUIRED LENGTH OF THE DRILLED SHAFTS SHALL BE THE LONGER LENGTH THAT CAN BE OBTAINED USING THE ABOVE LISTED CRITERIA. REQUIRED LENGTHS OF THE DRILLED SHAFTS SHALL BE DETERMINED DURING DRILLING OPERATIONS.

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STRUCTURAL ENGINEERS

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No.	Revision	By	Date
TOWN OF ADDISON DALLAS COUNTY, TEXAS 24" Ø WATER LINE RELOCATION 24" W.L. THRUST RESTRAINT DETAILS			
GINN, INC. Consulting Engineers Dallas, Texas			
Designed - S.C.R.	Drawn - S.C.R.	Date - JUNE, 1990	Job No. - 90442
Approved -	Checked - S.C.R.	Scale -	Sheet 4 of 6