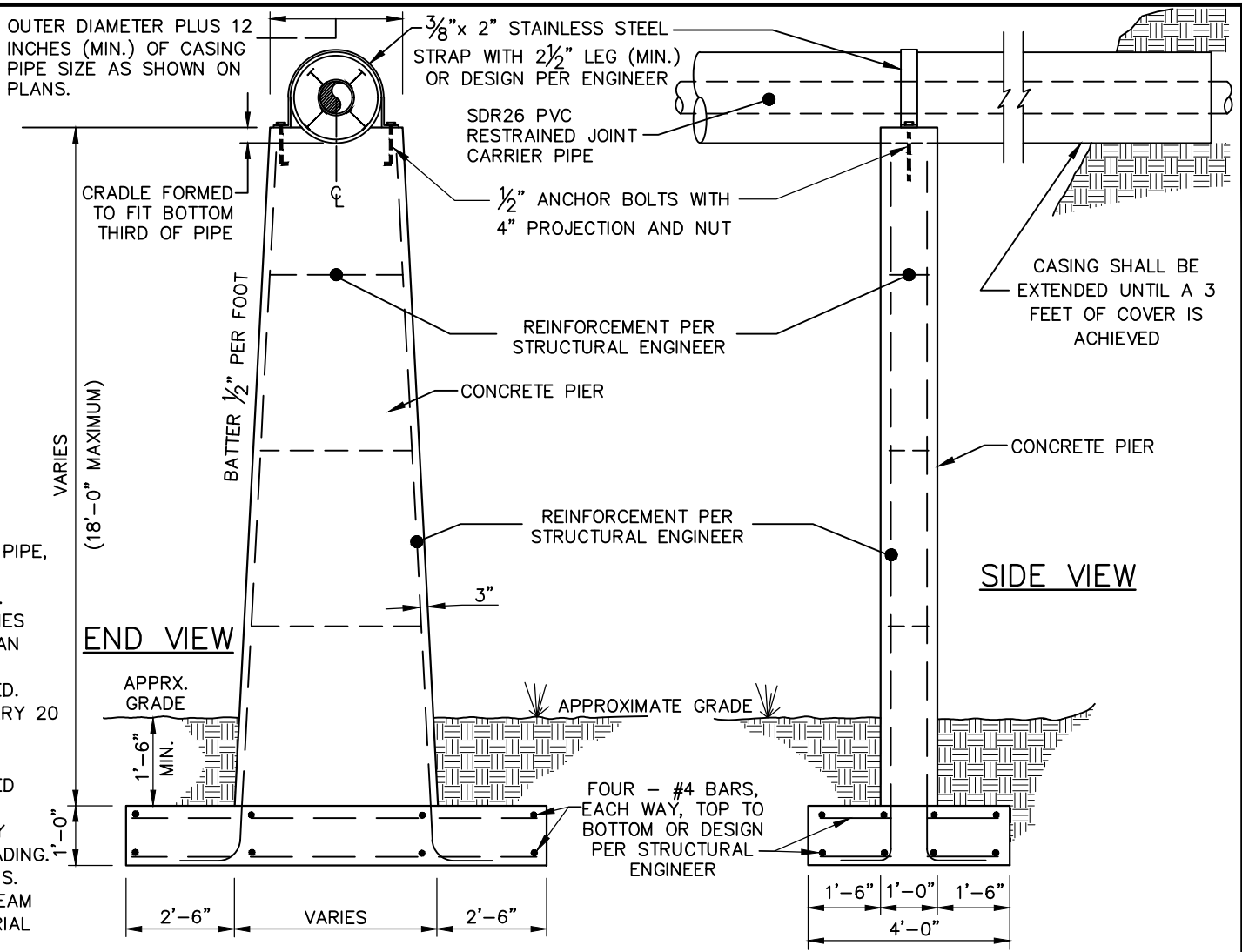


$\frac{3}{8}$ " x 2" STAINLESS STEEL STRAP W/ $\frac{1}{2}$ " LEG

PLAN VIEW

NOTES:
 1. STEEL SHALL BE GRADE 40.
 2. CONCRETE SHALL BE 3,000 P.S.I. OR GREATER.

- NOTES:**
- CARRIER PIPE SHALL BE INSTALLED IN A CASING PIPE, MEETING SPEC SECTION 7050.
 - PIERS OVER 3 FEET IN HEIGHT TO BE REINFORCED.
 - BOTTOM OF PIPE MUST BE A MINIMUM OF 24 INCHES ABOVE NORMAL WATER LEVEL BUT NO LOWER THAN THE 25-YEAR FLOOD ELEVATION.
 - CAST-IN-PLACE CONCRETE SHALL BE FIELD TESTED.
 - AT A MINIMUM, ONE PIER MUST BE INSTALLED EVERY 20 FEET OR AS DIRECTED BY CARY'S UTILITIES DEPARTMENT.
 - FOOTING DESIGN SHALL BE CONFIRMED BY LICENSED N.C. PROFESSIONAL ENGINEER.
 - SUBSURFACE CONDITIONS SHALL BE CONFIRMED BY LICENSED N.C. GEOTECH ENGINEER TO VERIFY LOADING.
 - PRECAST PIERS REVIEWED ON CASE BY CASE BASIS.
 - CARRIER PIPE SHALL BE SDR26 PVC FROM UPSTREAM MANHOLE TO DOWNSTREAM MANHOLE AT THE AERIAL CROSSING.



- PIER FOUNDATION SUPPORT TYPE SHALL BE DETERMINED BY LICENSED NC PE BASED ON SUBGRADE CONDITIONS AND AT EACH PIER LOCATION INUNDATED IN THE 100-YEAR DESIGN STORM EVENT INCLUDE FOUNDATION ANCHOR DESIGN.
- EACH PIER EXPOSED TO THE 100-YEAR DESIGN STORM EVENT SHALL BE PROTECTED BY APPROPRIATELY SIZED RIP RAP THAT EXTENDS A MINIMUM OF 6- FEET BEYOND THE PIER.
- STREAM BANK SLOPES BENEATH THE AERIAL CROSSING SHALL BE PROTECTED BY APPROPRIATELY SIZED RIP RAP AND EXTEND A MINIMUM OF 6- FEET BEYOND THE CENTERLINE OF THE PIPE UPSTREAM AND DOWNSTREAM. RIP RAP SHALL NOT BE ALLOWED IN THE STREAM BED.



EFFECTIVE: 07/01/24

STANDARD AERIAL CROSSING

DETAIL No.
7000.27