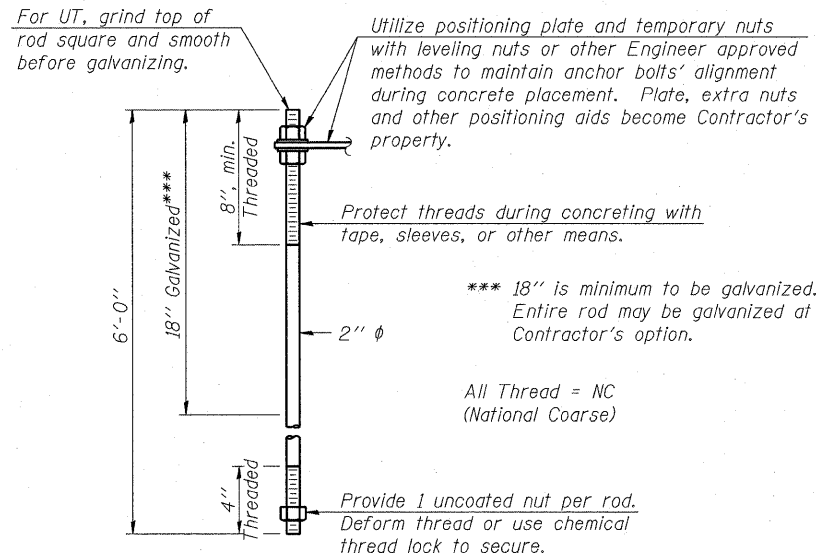


SUGGESTED POSITIONING PLATE

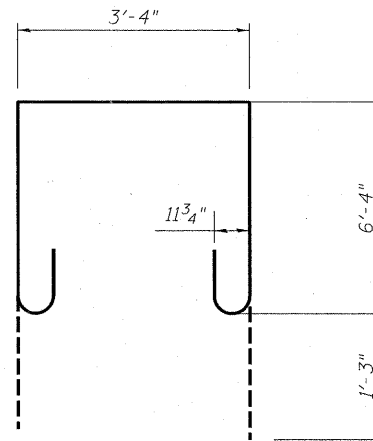


ANCHOR ROD DETAIL

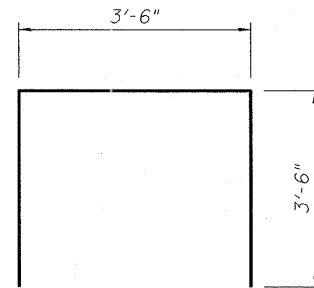
Anchor rods shall conform to AASHTO M314 Grade 105 and meet Charpy V-Notch (CVN) energy of 15 lb.-ft. at 10° F. before galvanizing. Galvanize the upper 18" (minimum***) and associated M291, Grade A, C or DH heavy hex nuts and hardened washers per AASHTO M232. No welding shall be permitted on rods. Provide an unfinished nut at bottom, a hexagon locknut and washer above base plate and a leveling nut and washer below base plate. Nuts shall each be tightened with 200 lb.-ft. minimum torque against base plate. Before or after threading, but before galvanizing, each anchor rod shall be ultrasonically tested (UT) by a Level II or III inspector, qualified in accord with ANSI guidelines, using a straight beam, 1/2" φ 3.5 mhz. transducer, to insure no rejectable flaws exist in the upper 18" (tension criteria).

NOTES:

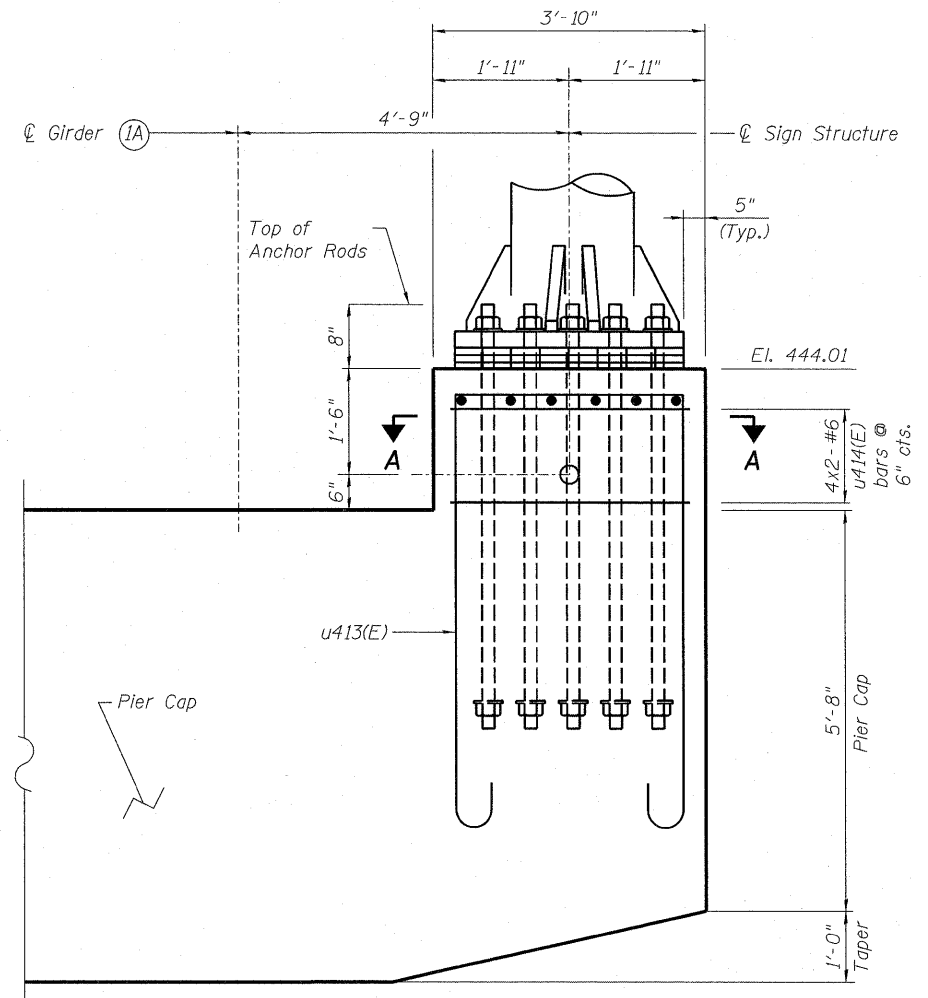
1. Work this sheet with sheet S-110.
2. Place pedestal reinforcement to miss anchor rods.
3. Anchor rods are incidental to Concrete Structures pay item.



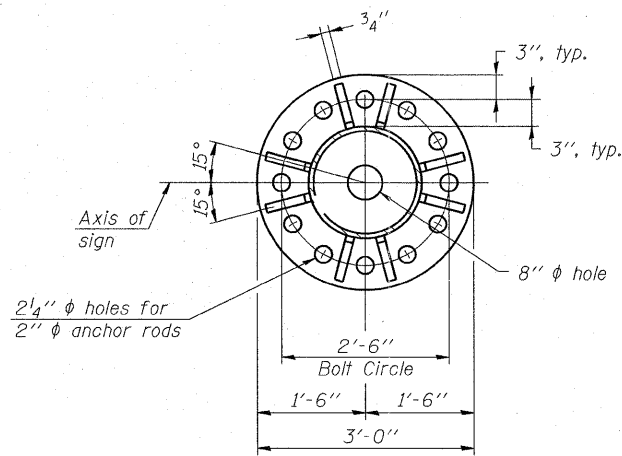
BAR u413(E)



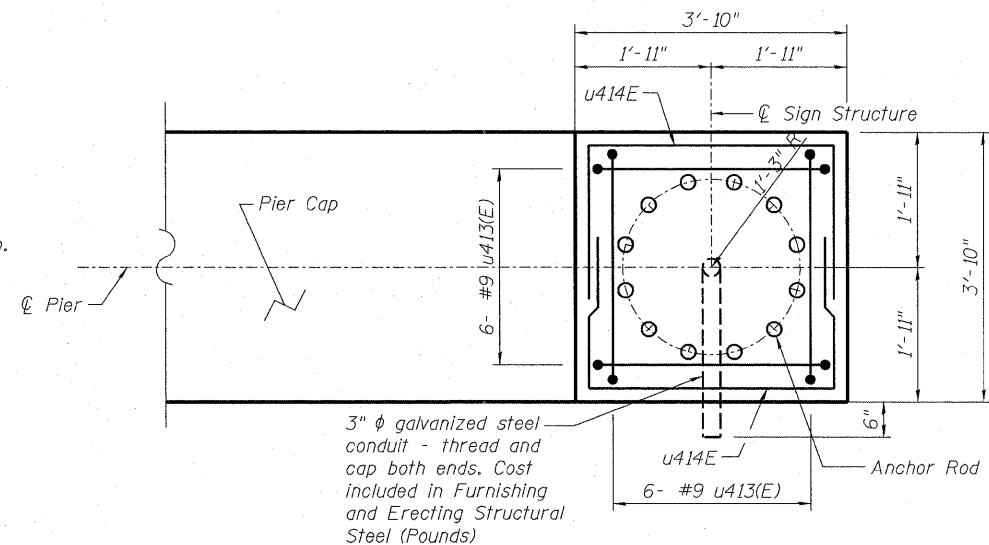
BAR u414(E)



DETAIL 1



BASE PLATE



SECTION A-A



| | | |
|---------------------------|-------------------|-----------|
| USER NAME = BhattA | DESIGNED - EJO | REVISED - |
| PLOT SCALE = 1/2" = 1'-0" | DRAWN - JHR | REVISED - |
| PLOT DATE = #DATE# | CHECKED - | REVISED - |
| | DATE - 03/18/2011 | REVISED - |

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

| | |
|--------------------------------------|--|
| PIER 4 DETAILS - S.N. 082-0325 | |
| I-70W OVER I-55, CSX & KCS RAILROADS | |
| SCALE: NONE | SHEET NO. S-111 OF S-138 SHEETS STA. TO STA. |

| | | | | |
|---|------------------|--------------------|------------------|---------------|
| F.A.I. RTE. 70 | SECTION 82-1-B-1 | COUNTY ST. CLAIR | TOTAL SHEETS 319 | SHEET NO. 226 |
| S.N. 082-0323 & S.N. 082-0325 | | CONTRACT NO. 76C75 | | |
| FED. ROAD DIST. NO. [ILLINOIS] FED. AID PROJECT | | | | |

P:\66846609\908.CAD\901.Draining\76C02-Master-Comp\1\det\Structural\082-0323\Sheets\111_082-0325_76C75_Per-1A.dgn