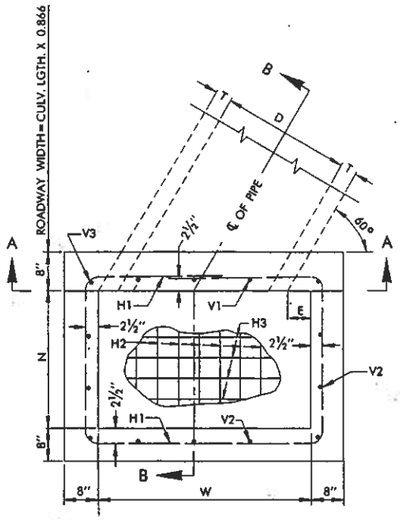
| REVISIONS | |
|---|---|
| DESCRIPTION | DATE |
| RE-ISSUE W/ENGLISH 1999 SPECS. | 7/99 |

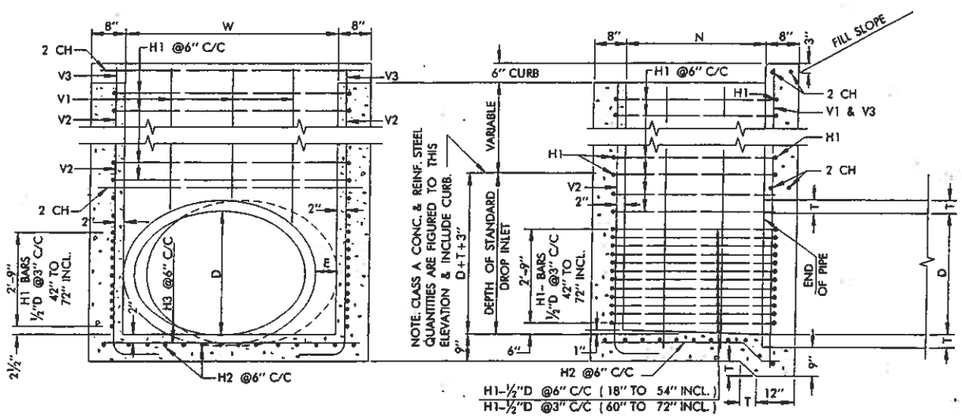
| DIMENSIONS | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| DESIGN NO. | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
| DIAM.(D) & N | 18" | 24" | 30" | 36" | 42" | 48" | 54" | 60" | 66" | 72" |
| AREA (SQ. FEET) | 1.77 | 3.14 | 4.91 | 7.07 | 9.62 | 12.57 | 15.90 | 19.63 | 23.76 | 28.27 |
| T | 2½" | 3" | 3½" | 4" | 4½" | 5" | 5½" | 6" | 6½" | 7" |
| E | 4½" | 4½" | 4½" | 4½" | 4½" | 4½" | 4½" | 4½" | 4½" | 4½" |
| W | 2'-7" | 3'-3" | 3'-11" | 4'-7" | 5'-3" | 5'-11" | 6'-7" | 7'-4" | 8'-0" | 8'-8" |

| REINFORCING STEEL | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| DESCRIPTION | NO. | LGTH. | NO. | LGTH. | NO. | LGTH. | NO. | LGTH. | NO. | LGTH. | NO. | LGTH. | NO. | LGTH. | NO. | LGTH. | NO. | LGTH. | NO. | LGTH. |
| CH1–STR. #4 BAR | 4 | 42" | 4 | 50" | 4 | 58" | 4 | 65" | 4 | 74" | 4 | 81" | 4 | 90" | 4 | 98" | 4 | 105" | 4 | 113" |
| H1–BENT #4 BAR | 5 | 136" | 6 | 164" | 7 | 192" | 8 | 220" | 14 | 248" | 15 | 276" | 16 | 304" | 17 | 334" | 18 | 362" | 19 | 390" |
| H2–BENT #4 BAR @6" C/C | 7 | 30" | 8 | 36" | 9 | 42" | 10 | 48" | 11 | 54" | 12 | 60" | 13 | 66" | 14 | 72" | 15 | 78" | 16 | 84" |
| H3–STR. #4 BAR @6" C/C | 7 | 39" | 8 | 47" | 9 | 55" | 10 | 62" | 11 | 71" | 12 | 78" | 13 | 86" | 14 | 95" | 15 | 102" | 16 | 110" |
| V1–STR. #4 BAR | 2 | 11½" | 3 | 13" | 4 | 14½" | 4 | 16" | 5 | 16½" | 5 | 19" | 6 | 20" | 6 | 21½" | 7 | 23" | 7 | 24½" |
| V2–BENT #4 BAR | 5 | 42" | 5 | 48" | 5 | 54" | 6 | 60" | 8 | 66" | 9 | 72" | 10 | 78" | 12 | 84" | 12 | 90" | 13 | 96" |
| V3–BENT #4 BAR | 2 | 48" | 2 | 54" | 2 | 59" | 2 | 66" | 2 | 72" | 2 | 77" | 2 | 84" | 2 | 90" | 2 | 96" | 2 | 102" |

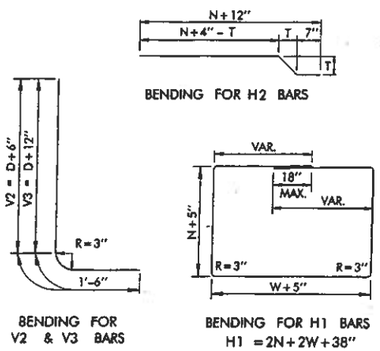
| QUANTITIES | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| CLASS A CONCRETE , CUBIC YARDS | | | | | | | | | | |
| STANDARD DROP INLETS | 0.80 | 1.15 | 1.57 | 2.07 | 2.62 | 3.23 | 3.92 | 4.68 | 5.51 | 6.38 |
| PER FOOT OF ADD'L DEPTH | 0.26 | 0.31 | 0.37 | 0.43 | 0.49 | 0.54 | 0.60 | 0.65 | 0.71 | 0.77 |
| REINFORCING STEEL , POUNDS ( LBS. ) | | | | | | | | | | |
| STANDARD DROP INLETS | 92.4 | 124.4 | 161.2 | 204.6 | 328.3 | 390.6 | 460.3 | 541.4 | 616.2 | 700.8 |
| PER FOOT OF ADD'L DEPTH | 18.9 | 24.9 | 28.6 | 32.9 | 40.0 | 42.3 | 50.6 | 57.3 | 63.6 | 69.5 |



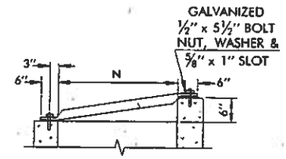

PLAN



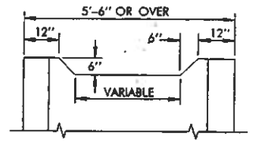

SECTION A–A SECTION B–B




■ BAR BENDING DIAGRAMS




TYPICAL GRATE DETAIL




BUILD NOTCH AS SHOWN ON ALL DROP INLETS WHERE DIMENSION "W" IS 4'-0" OR MORE. NOTCHES TO BE PLACED IN THE LINE OF FLOW AS DIRECTED BY THE ENGINEER.

FLOW NOTCH DETAIL

## GENERAL NOTES

1. ALL CONSTRUCTION AND MATERIAL REQUIREMENTS SHALL BE IN ACCORDANCE WITH THE 1999 ENGLISH STANDARD SPECIFICATIONS.
2. ALL EXPOSED CONCRETE EDGES SHALL HAVE A 3/4" CHAMFER.
3. TOTAL QUANTITIES AS SHOWN IN TABLE ARE COMPUTED TO TOP OF THE PIPE PLUS 3" AND INCLUDES CURB. FOR DROP INLETS OF GREATER DEPTH, MULTIPLY THE FIGURE IN THE PER METER COLUMN BY THE DIFFERENCE IN HEIGHT FROM TOP OF PIPE PLUS 3" TO TOP OF DROP INLET AND ADD THE RESULT TO THE STANDARD DROP INLET QUANTITY.
4. MAXIMUM DEPTH OF DROP INLETS FOR 42" TO 72" R.C.P. SHALL BE AS FOLLOWS: 42" RCP - 22'-0"
   48" RCP - 18'-0"
   54" RCP - 16'-0"
   60" RCP - 14'-0"
   66" RCP - 12'-0"
   72" RCP - 11'-0"
5. ALL EXPOSED CONCRETE SURFACES SHALL HAVE A FINISH IN ACCORDANCE WITH 1999 ENGLISH STANDARD SPECIFICATIONS, UNLESS SPECIFIED OTHERWISE.
6. INLET TOP OPENING SHALL HAVE 3" x 7.58 LBS./FT. STD. WEIGHT STEEL PIPE, GALVANIZED, SCHEDULE 40, PIPE SAFETY GRATES INSTALLED PERPENDICULAR TO THE DIRECTION OF TRAFFIC AT 12" ( MAXIMUM ) CENTERS WITH THE COST OF PIPE SAFETY GRATES & ALL HARDWARE NEEDED FOR INSTALLATION TO BE INCLUDED IN THE PRICE BID FOR THE INLET.
7. PIPE GRATE ENDS SHALL BE HELD DOWN WITH 1/2" x 5 1/2" GALVANIZED BOLT, WASHER & NUT MEETING THE REQUIREMENTS OF ASTM-A-325. BOLT THREADS, 3/4", SHALL REMAIN EXPOSED FOR INSTALLING GRATE.
8. ■ BAR BENDING DIAGRAMS AND DIMENSIONS, AS SHOWN THIS SHEET, ARE FOR STANDARD DEPTH DROP INLETS.
9. ALL REIFORCING STEEL SHALL BE 1/2" DIAMETER ( #4 BARS ).

| BASIS OF PAYMENT | | |
|---|---|---|
| ITEM NO. | ITEM | UNIT |
| 611.06( E ) | INLET ● | EA. |
| 611.06( F ) | ADDITIONAL DEPTH IN INLET ● | V. F. |
| | | |

● INLET TYPE AND DESIGN NUMBER SHALL BE SPECIFIED.

APPROVED BY ROADWAY ENGINEER C. M. Lukowski DATE 9/1/99

OKLAHOMA DEPT. OF TRANSPORTATION
ROADWAY STANDARD ( ENGLISH )
REINFORCED CONCRETE DROP INLETS FOR
18" TO 72" REINFORCED CONCRETE PIPES

1999 SPECIFICATIONS | ( 30° SKEW ) | CDI6-1 | 00E, R-70E