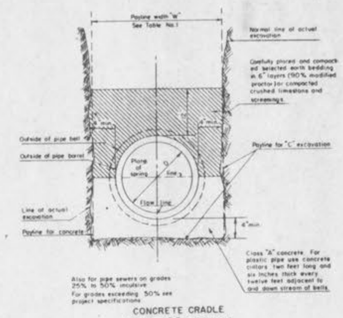
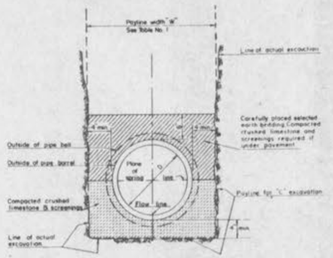
COPPERFIELD PHASE 2
CONSTRUCTION DETAILS
#82-9893B 12/1/82

| ROUND PIPE | | | | HORIZONTAL ELLIPTICAL PIPE | | | |
|---|---|---|---|---|---|---|---|
| Inside Diameter of Pipe (Inches) | "W" Payline Width of Trench (Inches) | "W" Payline Width of Trench (Feet) | Pay volumes cu ft per ft Concrete Encasement | Inside Dimensions of Pipe (Inches) | "W" Payline Width of Trench (Inches) | "W" Payline Width of Trench (Feet) | Pay volumes cu ft per ft Concrete Encasement |
| 4 | 28 | 2.33 | 3.20 | | | | |
| 6 | 28 | 2.33 | 3.46 | | | | |
| 8 | 28 | 2.33 | 3.70 | | | | |
| 10 | 28 | 2.33 | 3.86 | | | | |
| 12 | 28 | 2.33 | 3.98 | | | | |
| 15 | 32 | 2.67 | 4.89 | | | | |
| 18 | 35 | 2.92 | 5.63 | 14 x 23 | 41 | 3.42 | 5.94 |
| 21 | 39 | 3.75 | 6.61 | | | | |
| 24 | 42 | 3.50 | 7.39 | 19 x 30 | 49 | 4.08 | 7.68 |
| 27 | 45 | 3.75 | 8.18 | 22 x 34 | 53 | 4.42 | 8.61 |
| 30 | 49 | 4.08 | 9.30 | 24 x 38 | 58 | 4.83 | 9.70 |
| 33 | 53 | 4.42 | 10.53 | 27 x 42 | 62 | 5.17 | 10.71 |
| 36 | 56 | 4.67 | 11.43 | 29 x 45 | 66 | 5.50 | 11.72 |
| 39 | DISCONTINUED | | | 32 x 49 | 71 | 5.92 | 13.14 |
| 42 | 63 | 5.25 | 13.58 | 34 x 53 | 75 | 6.25 | 14.05 |
| 48 | 70 | 5.83 | 15.67 | 38 x 60 | 83 | 6.92 | 16.18 |
| 54 | 77 | 6.42 | 18.15 | 43 x 68 | 92 | 7.67 | 18.81 |
| 60 | 84 | 7.00 | 20.73 | 48 x 76 | 101 | 8.42 | 21.59 |
| 66 | 91 | 7.58 | 23.45 | 53 x 83 | 109 | 9.08 | 24.35 |
| 72 | 98 | 8.17 | 26.37 | 58 x 91 | 118 | 9.83 | 27.45 |
| 78 | 105 | 8.75 | 29.19 | 63 x 98 | 126 | 10.50 | 30.50 |
| 84 | 112 | 9.33 | 32.57 | 68 x 106 | 135 | 11.25 | 33.91 |
| 90 | 119 | 9.92 | 35.90 | 72 x 113 | 143 | 11.92 | 36.98 |
| 96 | 126 | 10.50 | 39.17 | 77 x 121 | 152 | 12.67 | 40.69 |
| 102 | 133 | 11.08 | 42.99 | 82 x 128 | 160 | 13.33 | 44.45 |
| 108 | 140 | 11.67 | 46.75 | 87 x 136 | 169 | 14.00 | 47.79 |
| 114 | 147 | 12.25 | 50.66 | 92 x 143 | 176 | 14.67 | 51.70 |
| 120 | 154 | 12.83 | 54.72 | 97 x 151 | 185 | 15.42 | 56.01 |
| 126 | 161 | 13.42 | 58.92 | | | | |
| 132 | 168 | 14.00 | 63.27 | 106 x 166 | 202 | 16.83 | 64.48 |
| 144 | 182 | 15.17 | 72.90 | 116 x 180 | 218 | 18.17 | 73.59 |

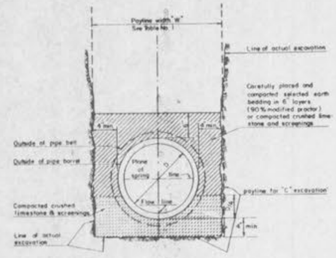
TABLE NO.1
PAYLINE WIDTHS OF TRENCH AND PAY-QUANTITIES OF CONCRETE



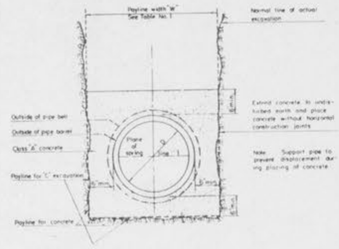

CONCRETE CRADLE
( CLASS "A" BEDDING )




PIPE BEDDING CLASS "C"
( MODIFIED FOR REINFORCED CONCRETE PIPE )



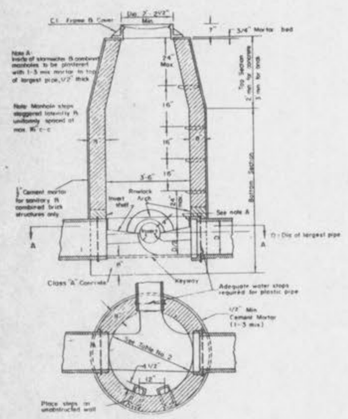

PIPE BEDDING CLASS "C"
( FOR ALL PIPE EXCEPT REINFORCED CONCRETE PIPE )




CONCRETE ENCASEMENT

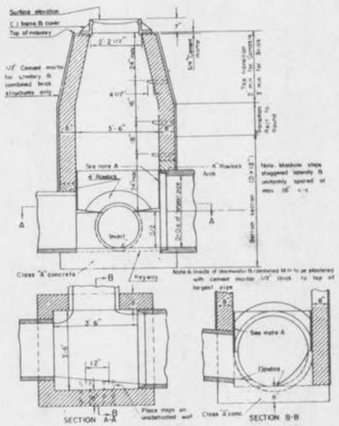
| Section of Manhole | | Dimension |
|---|---|---|
| Top Transition | Upper | 2'-2½" Dia |
| | Lower | 3'-6" Dia |
| Bottom Section | 8" thru 24" Dia. Pipe | 3'-6" Dia |
| Bottom Section | 27" thru 36" Dia. Pipe | 5'-6" Square |

TABLE NO.2
STANDARD MANHOLE DIMENSIONS



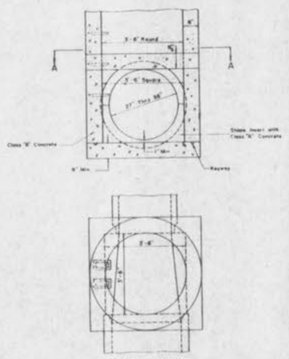

SECTION A-A

LINE MANHOLE
PIPE SEWERS 8"-24" DIA.



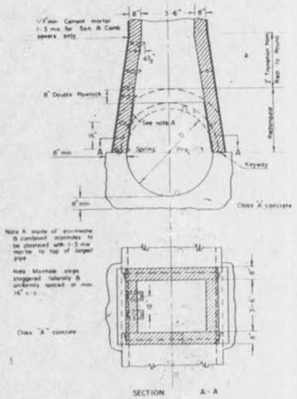

SECTION A-A SECTION B-B

TYPICAL LINE MANHOLE
ON PIPE SEWER 27" THRU 36" IN DIAMETER

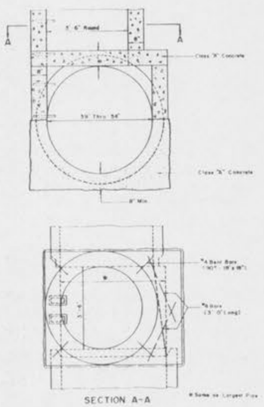



SECTION A-A

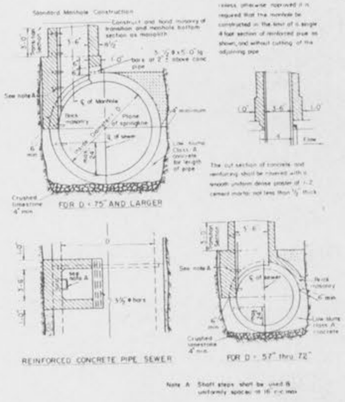
MANHOLE ON PIPE SEWER
27" THRU 36" (ALTERNATE)



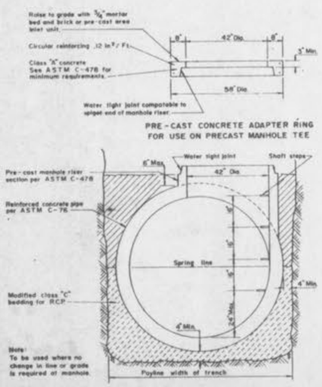

MANHOLE ON CONCRETE PIPE
SEWERS 39" THRU 54" DIAMETER




MANHOLE ON CONC. PIPE
39" THRU 54" (ALTERNATE)




TYPICAL MANHOLE BASE
REINFORCED CONCRETE PIPE
SEWERS 57" AND LARGER
IN DIAMETER




TYPICAL PRE-CAST M.H. TEE
FOR REINFORCED CONCRETE
PIPE SEWERS 48" AND
LARGER IN DIAMETER







TYPICAL PRE-CAST M.H. TEE
FOR REINFORCED CONCRETE
PIPE SEWERS 48" AND
LARGER IN DIAMETER