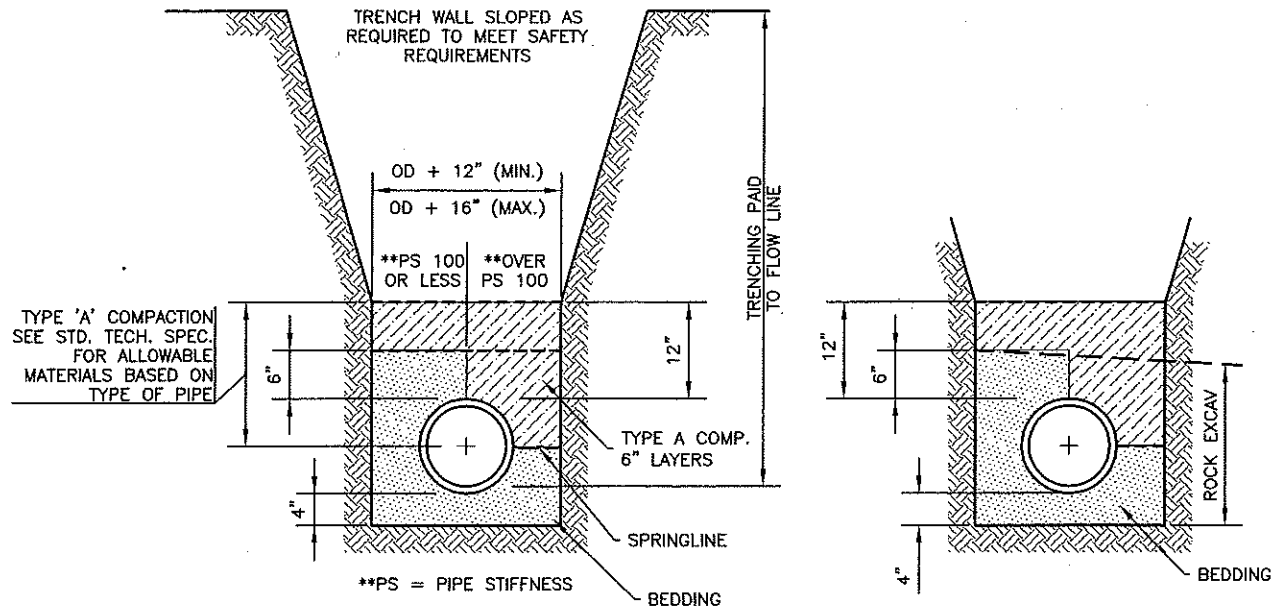


PAVEMENT PLACEMENT SCHEDULE

SCHEDULE TO BE USED UNLESS OTHERWISE NOTED ON PLANS.

| ORIGINAL SURFACE | NEW PAVEMENT |
|---------------------------|---|
| ** CONCRETE | 8" REINFORCED CONCRETE 4,000psi |
| BRICK OVER CONCRETE | 7" REINFORCED CONC.BASE 4,000psi PLUS ONE-COURSE RELAID BRICK. |
| ASPHALT | MATCH EXISTING PAVEMENT THICKNESS WITH A MINIMUM OF 6" HOT-MIX ASPHALTIC CONCRETE. |
| ASPHALT OVER CONCRETE | 7" REINFORCED CONCRETE BASE 4000 psi PLUS 2" HOT MIX ASPHALTIC CONCRETE. 7" REINFORCED CONCRETE BASE SHALL BE JOINED TO ADJACENT PAVEMENT WITH #4 REBARS x 3'-0" AT 48" CENTERS, DRILLED AND EPOXY GROUTED INTO PLACE ALONG LONGITUDINAL AND TRANSVERSE EDGES. THE WEARING SURFACE WILL CONFORM TO CITY/COUNTY STANDARD SPECIFICATIONS. |
| BRICK OVER BRICK/SUBGRADE | 7" HOT-MIX ASPHALTIC CONCRETE PLUS ONE-COURSE RE-LAID BRICK. |
| GENERAL NOTES | <p>*SECOND PAVEMENT CUT TO BE MADE AND PAVEMENT REMOVED AFTER TRENCH IS PROPERLY BACKFILLED.</p> <p>**CONCRETE PAVEMENT SHALL BE JOINED TO ADJACENT CONCRETE PAVEMENT AS PER "FULL PANEL REPAIR AND UTILITY CUTS FOR CONCRETE PAVEMENT" AS SHOWN ON MISC. DETAILS 2.</p> |



TRENCHING DETAILS

STANDARDS FOR SETTING LINE AND GRADE FOR SEWER CONSTRUCTION:

1. STAKES, SPIKES, SHINERS, OR CROSSES SET BY TRANSIT AT THE SURFACE ON AN OFFSET FROM THE SEWER CENTER LINE.
2. STAKES ARE TO BE SET IN THE TRENCH BOTTOM ON THE SEWER LINE AS THE ROUGH GRADE FOR SEWER IS COMPLETED.
3. ELEVATIONS GIVEN FOR THE FINISHED TRENCH GRADE AND SEWER INVERT, WHILE SEWER LAYING PROGRESSES.

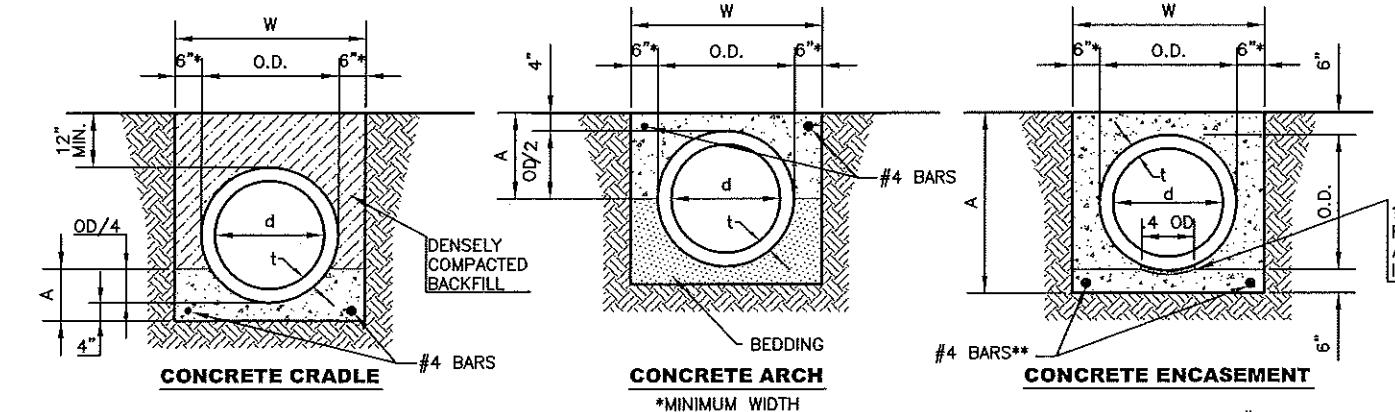
INSTALLATION OF SEWER UNDER EXISTING PAVEMENT

STANDARD METHODS FOR TRANSFERRING LINE AND GRADE TO SEWER TRENCH BOTTOM:

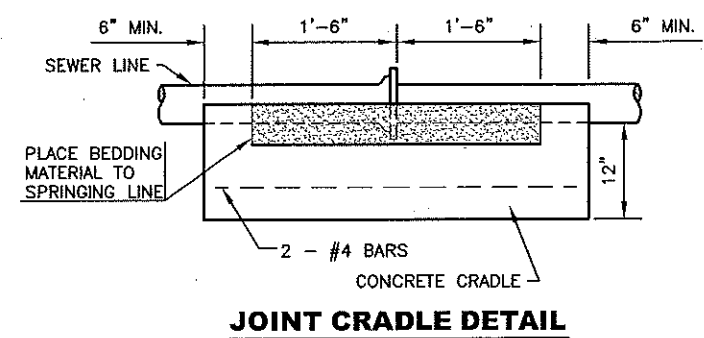
1. ELECTRONIC LASER EQUIPMENT-STAKING SHALL BE AT 25' INTERVALS FOR THE FIRST 100' AND EVERY 100' THEREAFTER UNTIL THE NEXT MANHOLE IS REACHED.
2. BATTER BOARDS AND BATTER BOARD SUPPORTS-STAKING SHALL BE EVERY 25'.

NOTES:

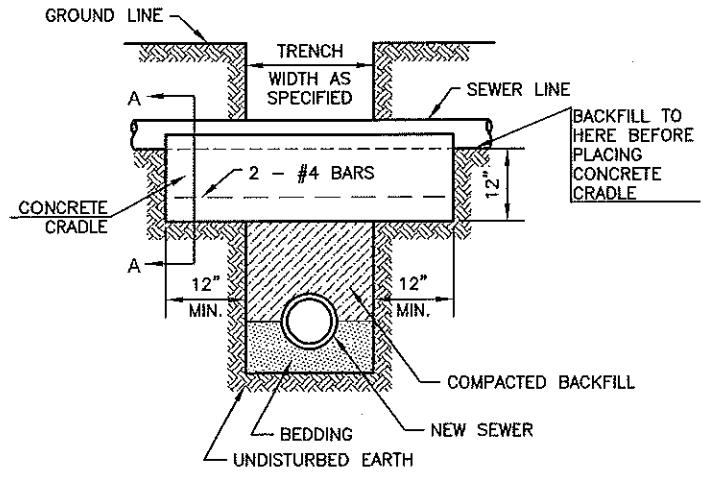
1. THE TRENCH SHALL BE EXCAVATED TO 4" BELOW BOTTOM OF THE PIPE BARREL & BACKFILLED AS SHOWN ABOVE WITH AN APPROVED BEDDING MATERIAL.
2. WHEN THE SEWER IS TO BE INSTALLED IN ROCK, THE TRENCH IS TO BE EXCAVATED TO A MINIMUM DEPTH OF 4" BELOW THE BOTTOM OF THE PIPE AND BACKFILLED IN 6" COMPACTED LAYERS WITH AN APPROVED BEDDING MATERIAL AS SHOWN. THE ROCK EXCAVATED TO BE PAID AS A SEPARATE BID ITEM. THE EMBEDMENT, IN ALL CASES, TO BE INCLUDED IN THE PRICE BID PER TRENCH, EXCAVATION, AND BACKFILL.



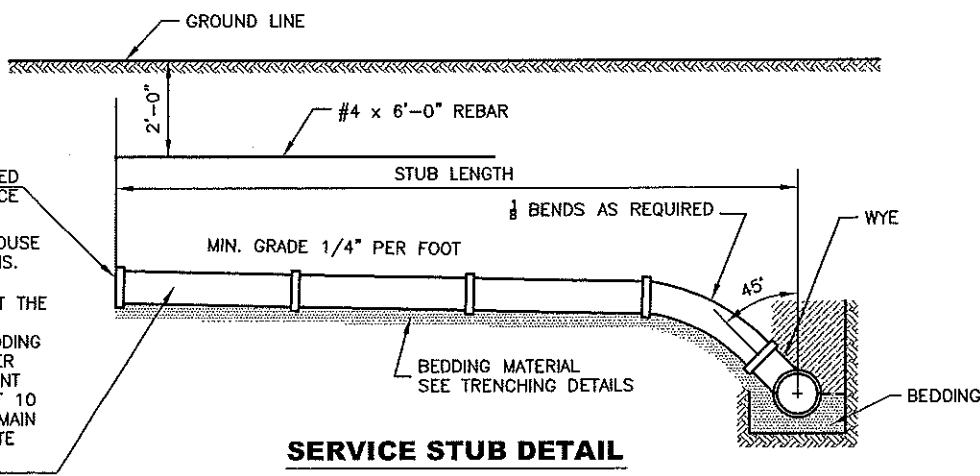
**REINFORCING SHALL BE TWO #4 BARS FOR PIPE UP TO 8" DIA; FOUR #4 BARS FOR 10" THROUGH 24" DIA; AND AS APPROVED BY THE ENGINEER FOR LARGER THAN 24" DIA.



JOINT CRADLE DETAIL



CRADLE DETAILS



SERVICE STUB DETAIL

| d | O.D. | t | W | CRADLE | | ARCH | | ENCASE. | |
|----|-------|------|------|--------|-------|------|-------|---------|-------|
| | | | | IN. | CY/FT | IN. | CY/FT | IN. | CY/FT |
| 8 | 9.50 | .750 | 24 | 6.4 | .036 | 8.8 | .039 | 21.5 | .102 |
| 10 | 11.75 | .875 | 24 | 6.9 | .038 | 9.9 | .047 | 23.8 | .117 |
| 12 | 14 | 1.00 | 26 | 7.5 | .043 | 11.0 | .054 | 26.0 | .134 |
| 15 | 17.5 | 1.25 | 29.5 | 8.4 | .051 | 12.8 | .066 | 29.5 | .162 |
| 18 | 21 | 1.50 | 33 | 9.3 | .061 | 14.5 | .078 | 33.0 | .191 |
| 21 | 24.5 | 1.75 | 36.5 | 10.1 | .071 | 16.3 | .093 | 36.5 | .222 |
| 24 | 28 | 2.00 | 40 | 11.0 | .085 | 18.0 | .106 | 40.0 | .256 |
| 27 | 31.5 | 2.25 | 43.5 | 11.9 | .095 | 19.8 | .121 | 43.5 | .286 |
| 30 | 35 | 2.50 | 47 | 12.8 | .106 | 21.5 | .136 | 47.0 | .321 |
| 36 | 41.5 | 2.75 | 53.5 | 14.4 | .129 | 24.8 | .167 | 53.5 | .388 |

SCHEDULE FOR CONCRETE CRADLE, CONCRETE ARCH AND CONCRETE ENCASEMENT FOR SANITARY SEWERS
NOTE: MIN. 2500 PSI CONCRETE USED FOR CRADLING.

MAXIMUM DEPTH AT PLUG LOCATION SHALL BE 14' BELOW TOP OF HOUSE FOUNDATION. LENGTH AND ELEVATION SHALL BE AS SHOWN ON PLANS. LINES SHALL BE PLACED AT RIGHT ANGLES FROM MAIN. ALIGNMENT CHANGES MUST BE MADE BY THE USE OF 1/8 BENDS CONNECTED AT THE WYE. UNIT PRICE BID PER LINEAL FOOT FOR SERVICE STUBS SHALL INCLUDE - TRENCHING, LAYING, BACKFILLING, PIPE, FITTINGS AND BEDDING MATERIAL. AT POINTS WHERE SEWERS CROSS WATER MAINS, THE SEWER SHALL BE CONSTRUCTED OF DUCTILE IRON, PLASTIC PIPE WITH SOLVENT WELDED JOINTS, OR PIPE ENCASED IN CONCRETE FOR A DISTANCE OF 10 FEET IN EACH DIRECTION FROM THE CROSSING UNLESS THE WATER MAIN IS AT LEAST 2 FEET ABOVE THE SEWER. FOR SIZING DATA SEE NOTE ELSEWHERE, THIS SHEET.

| | | | | |
|-----|-----------|--|-----|--------|
| NO. | DATE: | REVISION | BY: | APP'D: |
| 2 | Feb. 2008 | Mod. Cradle & Arch and Pvm. Place Sch. | DHS | SB |
| 1 | Dec. 2004 | Mod. Serv. Note | DHS | JH |

DRAWN BY: *rm/mc*
APP'D BY: *[Signature]*



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PUBLIC WORKS DEPARTMENT**
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STANDARD DETAILS

SANITARY SEWER
DETAILS
(DT-007)

DATE: Month Year
SHEET: X of X
PROJ.: X-XXXXXX.XX