

SERVICES 4" THROUGH 8"
NO SCALE

TRENCH REQUIREMENTS
FOR MAKING 4 INCH TO 12 INCH TAP
ON WATER MAIN
NO SCALE

LACING DETAILS

NO SCALE

TYPICAL RESTRAINED JOINTS
NO SCALE

The technical drawing consists of two parts: a plan view and an elevation view.

- PLAN View:** Shows a cross-section of the pipe joint. A horizontal section labeled "TYPICAL ENVELOPE MANHOLE" has a diameter of "12\" D.I. CL-94". It features a "PIPE JOINT" where a "1\" MIN APPROVED ELASTIC MATERIAL ARROUND PIPE" is applied. The width of the elastic material is indicated as "6\"".
- ELEVATION View:** Shows the side profile of the pipe assembly. Key dimensions include:
 - A vertical height of "18\" from the ground level to the top of the manhole structure.
 - A horizontal distance of "2'-0\"" from the pipe joint to the start of the manhole structure.
 - A horizontal distance of "1'-0\"" from the pipe joint to the centerline of the manhole.
 - A horizontal distance of "3'" from the pipe joint to the base of the manhole structure.
 - A horizontal distance of "6' MIN" from the pipe joint to the end of the manhole structure.
 - A horizontal distance of "9' MIN" from the pipe joint to the end of the manhole structure.
 - A total length of "320'" for the main pipe section.

Labels and notes include:

- "STANDARD MANHOLE FRAME & COVER MARKED WATER"
- "ENVELOPE MANHOLE TYPE II"
- "PRESENT FINISHED SURFACE OVER PAVEMENT"
- "24\" ENVELOPE PIPE PRE-STRESSED CONCRETE WITH RESTRAINED J"
- "PIPE JOINT"
- "PLAN"
- "ELEVATION"
- "PRE-STRESSED CONCRETE ENVELOPE PIPE DETAIL"
- "NOT TO SCALE"

STANDARD GATE BOX
SLIP TYPE
NO SCALE

STANDARD SERVICE CURB BOX
NO SCALE

HYDRANT DETAIL
TYPICAL RODDING INSTALLATION
NO SCALE

12" OR LESS VERTICAL GATE VALVE
IN A GATE BOX
NO SCALE

TYPICAL TRENCH CROSS SECTION
FOR WATER MAIN OR SERVICE
WITH LESS THAN 4' OF COVER

NOTES:
TRAPPING SLEEVES & TRAPPING GATE TO BE INSTALLED
UPPER ARM BY THE CONTRACTOR TO THE DISTRICT
WILL TEST INSTALLATION PRIOR TO MARKING TAP.
TRAPPING GATE TO HAVE HAND OF OPERATION AS DIRECTED
BY THE DISTRICT. IF VALVE HAND OF OPERATION IS
NOT CORRECT, NO TAP WILL BE MADE.
TRENCH TO BE DEMATERED AND IN COMPLIANCE WITH
STATE OF CALIFORNIA EXCAVATION.

TEE BOLTS/NUTS
 SET SCREWS, TORQUE TO
 70 FT. LBS. MAX.
 RUBBER-GASKET JOINT PIPE
 ANS1/RWHR C111/R 2111-20
 D.I. CLASS 354
 TEE BOLTS - "STARK NATIONAL PRODUCTS
 OR EQUIV. NUTS AND 3/4" THREADED
 ROD, TYPICAL LENGTH 24"
 EBAR IRON INC.
 STUDS #200 RETRAINING
 GLAND OR APPROVED EQUIV.
 M.J. FOLLOWER GLAND
 M.J. RETRAINER GLAND "EBAR IRON INC."
 SERIES 1800 DUCTILE IRON, OR
 APPROVED EQUIV.

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CITY OF HARTFORD, CONNECTICUT
DEPARTMENT OF PUBLIC WORKS
BUREAU OF ENGINEERING SERVICES

TYPICAL DETAILS FOR
8" WATER MAIN
ON
WEST CLAY STREET

HARTFORD, CONN.		
SUBMITTED	RECOMMENDED	APPROVED
<i>Mason K. Adams</i>	<i>S. F. S.</i>	<i>Anthony P. ...</i>
PROJECT ENGINEER	DIVISION MANAGER	CITY ENGINEER ESB

SHEET 3 OF 7	DRAWN <u>MK.</u> CHECKED <u>C.B.</u>	SCALE AS NOTED	DAYBOOK NO. 011234B DATE <u>APRIL 1991</u>
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