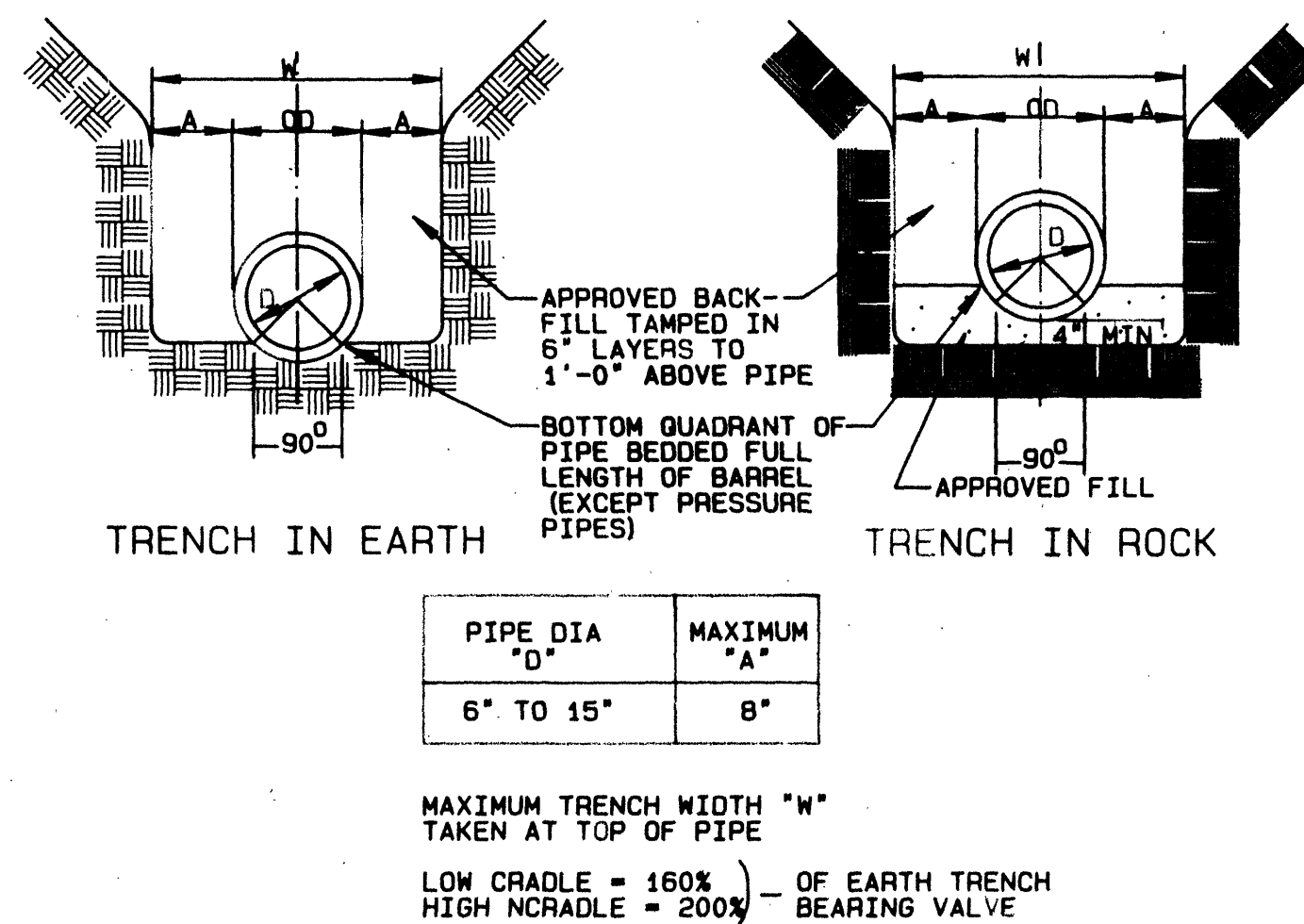
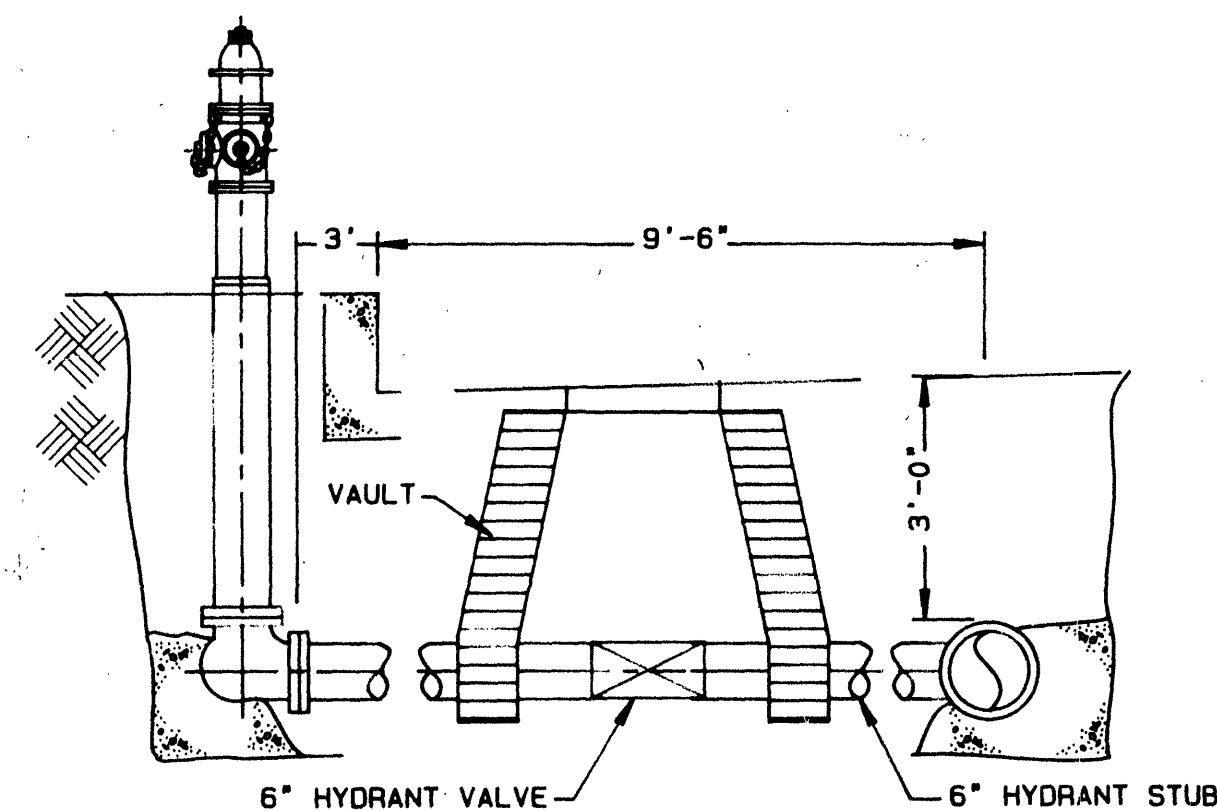


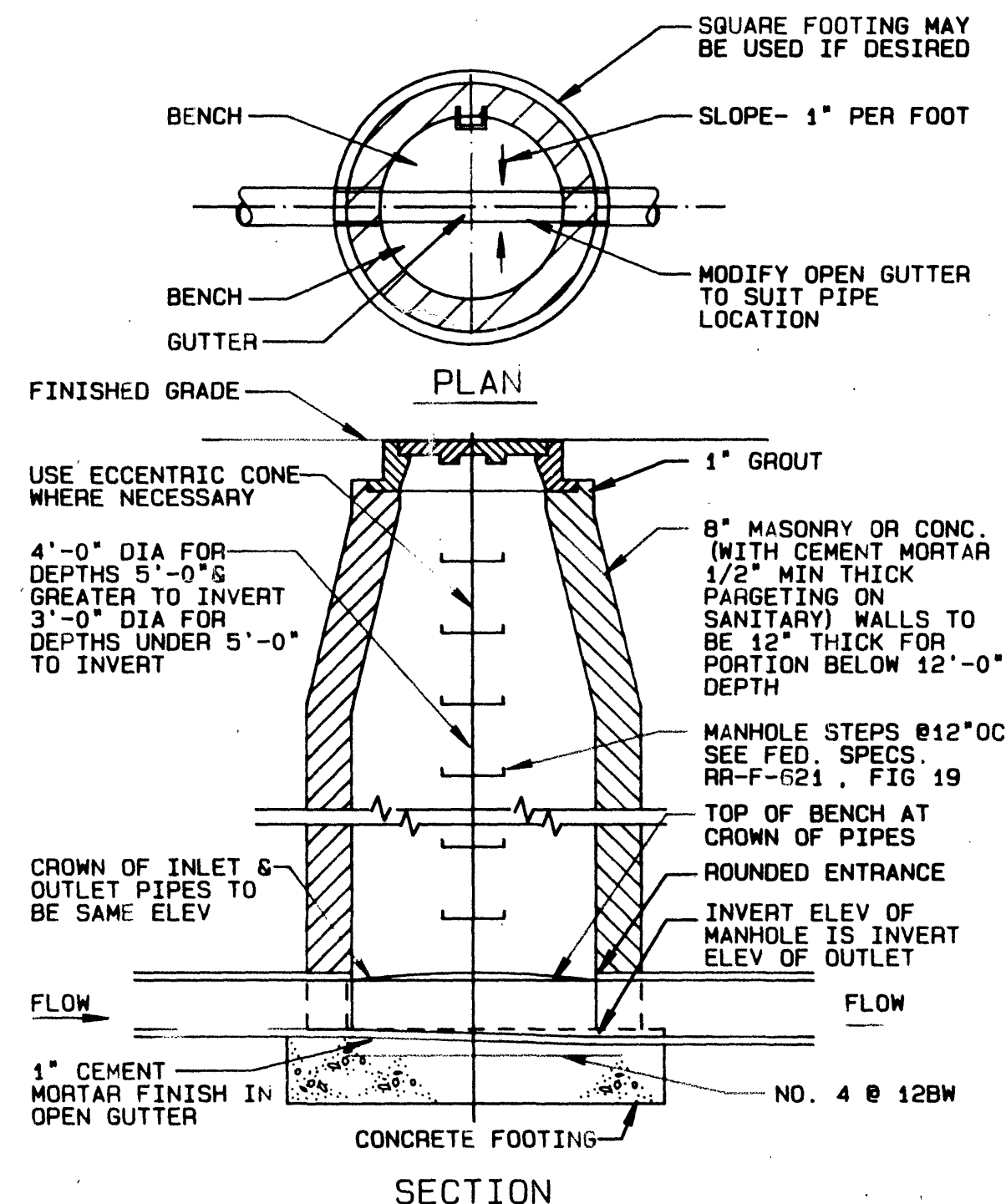
1 TRENCH DETAILS FOR GRAVITY PIPES  
P-6 NO SCALE



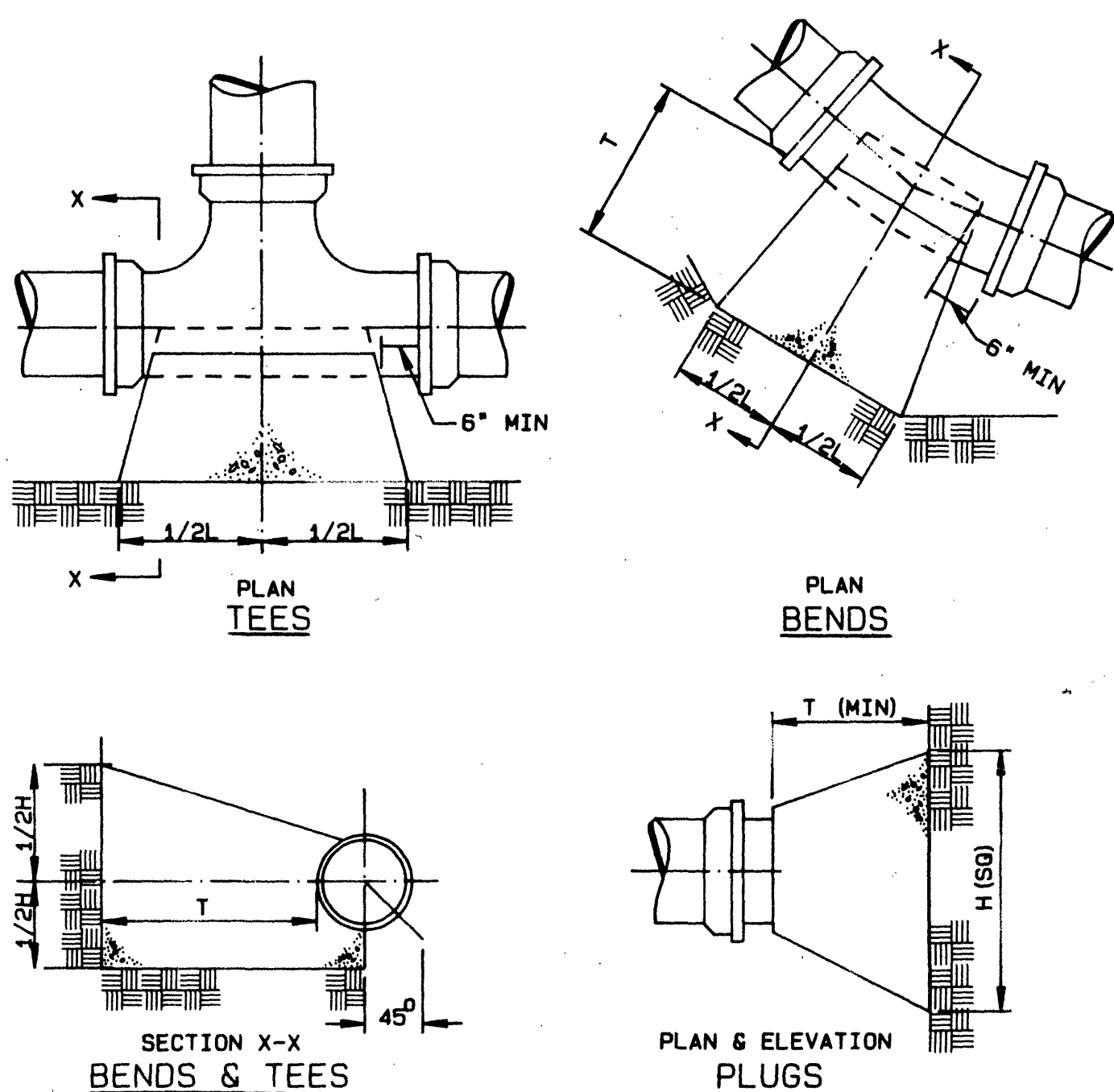
2 PIPE TRENCH BEDDING  
P-6 NO SCALE



3 STANDARD WATER HYDRANT STUB  
P-6 NO SCALE



4 STANDARD MANHOLE  
P-6 NO SCALE



5 STANDARD THRUST BLOCKS FOR WATER MAINS  
P-6 NO SCALE

PIPE SIZE	DEGREE OF BEND	BEND DIMENSIONS (FEET)			TEE AND PLUGS (FEET)		
		L	H	T	L	H	T
4" & 6"	90	2.50	2.50	3.01			
	45	2.00	2.25	2.60			
	22.1/2	1.50	2.00	2.52			
	11.1/4	1.50	2.00	2.50	2.00	2.25	2.50
8"	90	3.66	3.16	3.21			
	45	2.66	2.66	2.77			
	22.1/2	1.66	2.16	2.69	3.16	2.91	2.66
	11.1/4	1.66	2.16	2.67			
10" & 12"	90	4.83	3.83	3.42			
	45	3.33	3.33	3.35			
	22.1/2	2.33	2.58	2.86	3.83	4.00	2.83
	11.1/4	1.83	2.33	2.84			

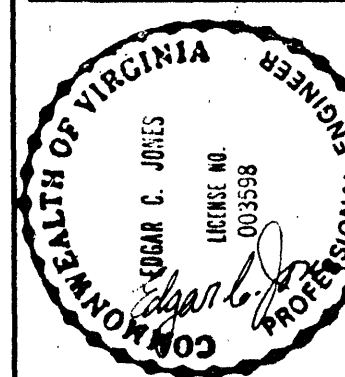
SYMBOL LEGEND	
SYMBOL	DESCRIPTION
---	EXISTING STORM DRAIN
---	SANITARY SEWER (NEW)
---	EXISTING WATER LINE
---	WATER LINE (NEW)
---	EXISTING GATE VALVE
---	GATE VALVE (NEW)
---	EXISTING MANHOLE
---	MANHOLE (NEW)
---	FIRE HYDRANT
---	PL - PROPERTY LINE
---	R/W - RIGHT-OF-WAY
---	D.I.P. - DUCTILE IRON PIPE

- GENERAL NOTES**
- CONSTRUCTION OF SANITARY SEWER AND PAVEMENT REPLACEMENT TO BE IN ACCORDANCE WITH CITY OF ROANOKE SPECIFICATIONS.
  - A PRECONSTRUCTION CONFERENCE SHOULD BE SCHEDULED WITH THE CITY OF ROANOKE ENGINEERING DEPARTMENT (MR. BILL DIVERS, TELEPHONE 981-2731) TO BE HELD AT LEAST ONE DAY PRIOR TO CONSTRUCTION.
  - A STREET OPENING PERMIT MUST BE OBTAINED FROM THE CITY OF ROANOKE BUILDING DEPT. PRIOR TO CONSTRUCTION IN THE PUBLIC RIGHT-OF-WAY.
  - AN APPROVED SET OF PLANS AND ALL PERMITS MUST BE AVAILABLE AT THE CONSTRUCTION SITE.
  - THE DEVELOPER OR CONTRACTOR SHALL SUPPLY THE CITY OF ROANOKE ENGINEERING DEPT. WITH A CORRECT SET OF AS-BUILT PLANS BEFORE FINAL ACCEPTANCE.
  - ALL WORK SHALL BE SUBJECT TO INSPECTION BY ROANOKE CITY INSPECTORS.
  - ANY FIELD CHANGES SHALL BE APPROVED BY THE CITY OF ROANOKE ENGINEERING DEPT. PRIOR TO SUCH CONSTRUCTION.
  - CONTRACTOR OR DEVELOPER SHALL VERIFY LOCATION OF ALL UTILITIES PRIOR TO CONSTRUCTION.
  - THE CONTRACTOR SHALL PROVIDE ADEQUATE MEANS OF CLEANING MUD FROM TRUCKS AND/OR OTHER EQUIPMENT PRIOR TO ENTERING PUBLIC STREET. IT IS THE CONTRACTORS RESPONSIBILITY TO INSURE THAT THE STREETS ARE IN A CLEAN, MUD AND DUST FREE CONDITION AT ALL TIME.
  - CONTRACTOR SHALL FURNISH ALL BARRICADES AND MAINTAIN THE DITCH AT ALL TIME.
  - A FORMAL WATER MAIN EXTENSION AGREEMENT WITH THE WATER DEPARTMENT MUST BE COMPLETED, FEES PAID, APPROVED AND SIGNED BY THE CITY MANAGER BEFORE ANY WATERLINE WORK CAN BEGIN.

WATER DEPARTMENT #87-02

ENGINEERING CONSULTANTS  
P.O. BOX 2885  
8000 Corporate Center Drive  
Charlotte, N.C. 28211  
(704) 542-5513

M E P S  
ASSOCIATES, INC.



SANITARY SEWER AND WATER MAIN  
EXTENSIONS DETAILS & LEGENDS  
VALLEY VIEW SUB-DIVISION

Project No. 348.01  
Date 09/03/86  
Drawn By CAD  
Checked By ECJ  
Approved By ECJ

P 6

Sheet Number 6