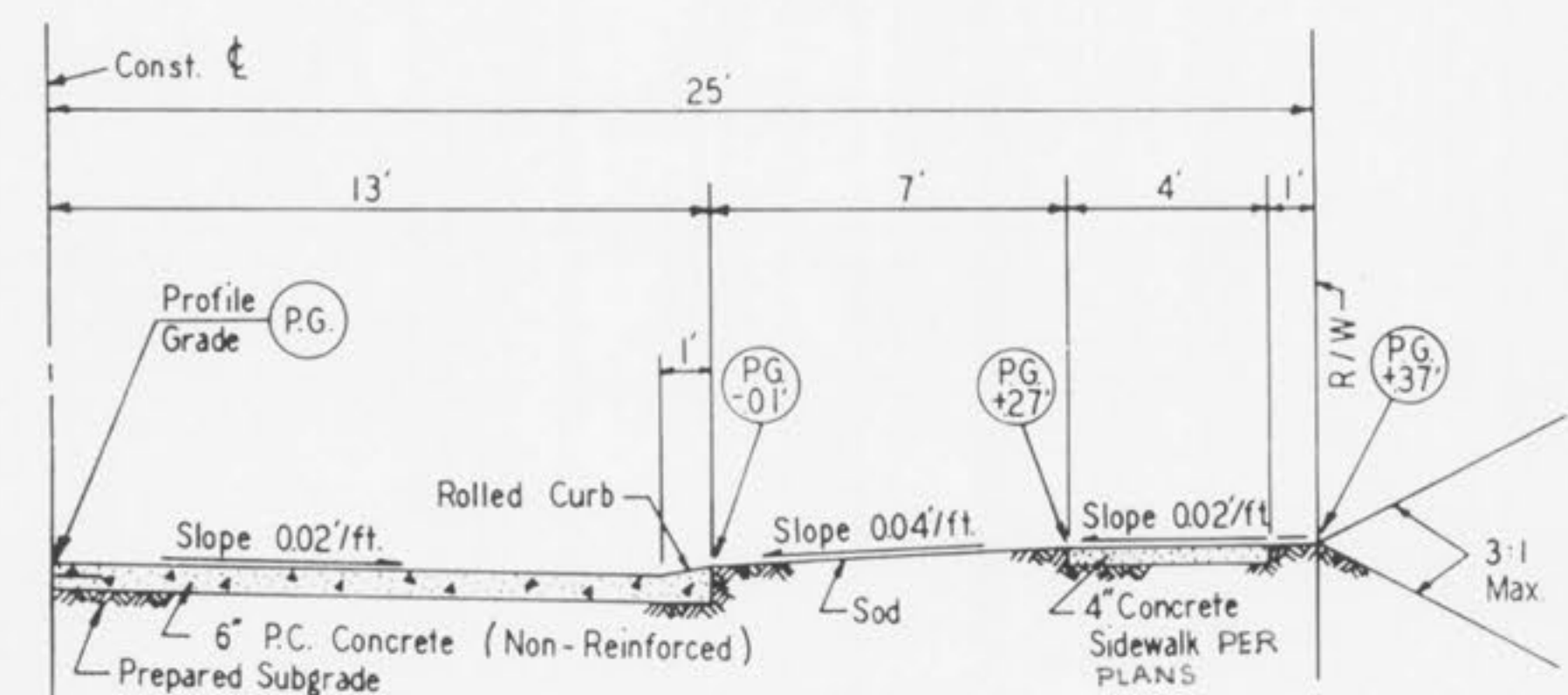
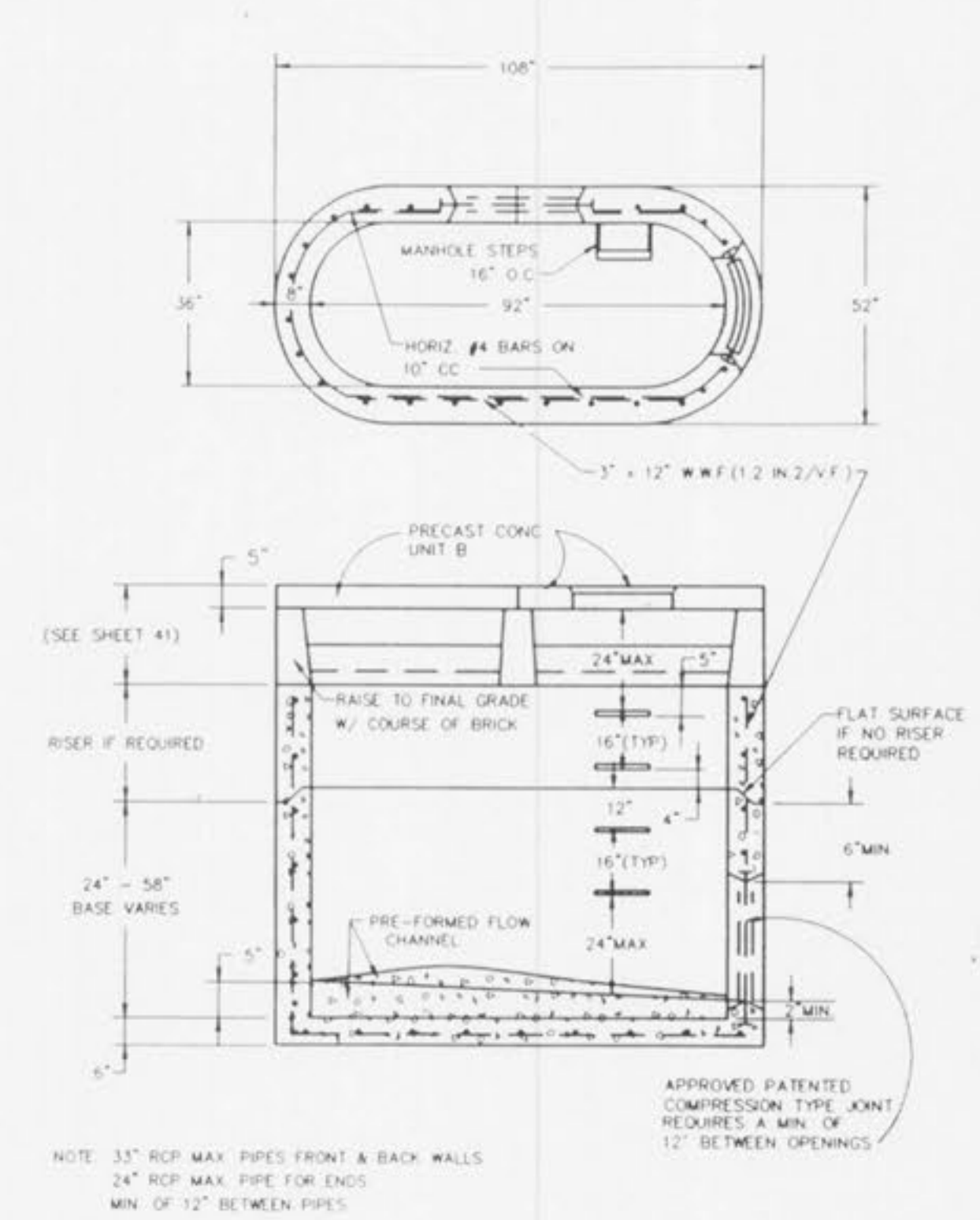
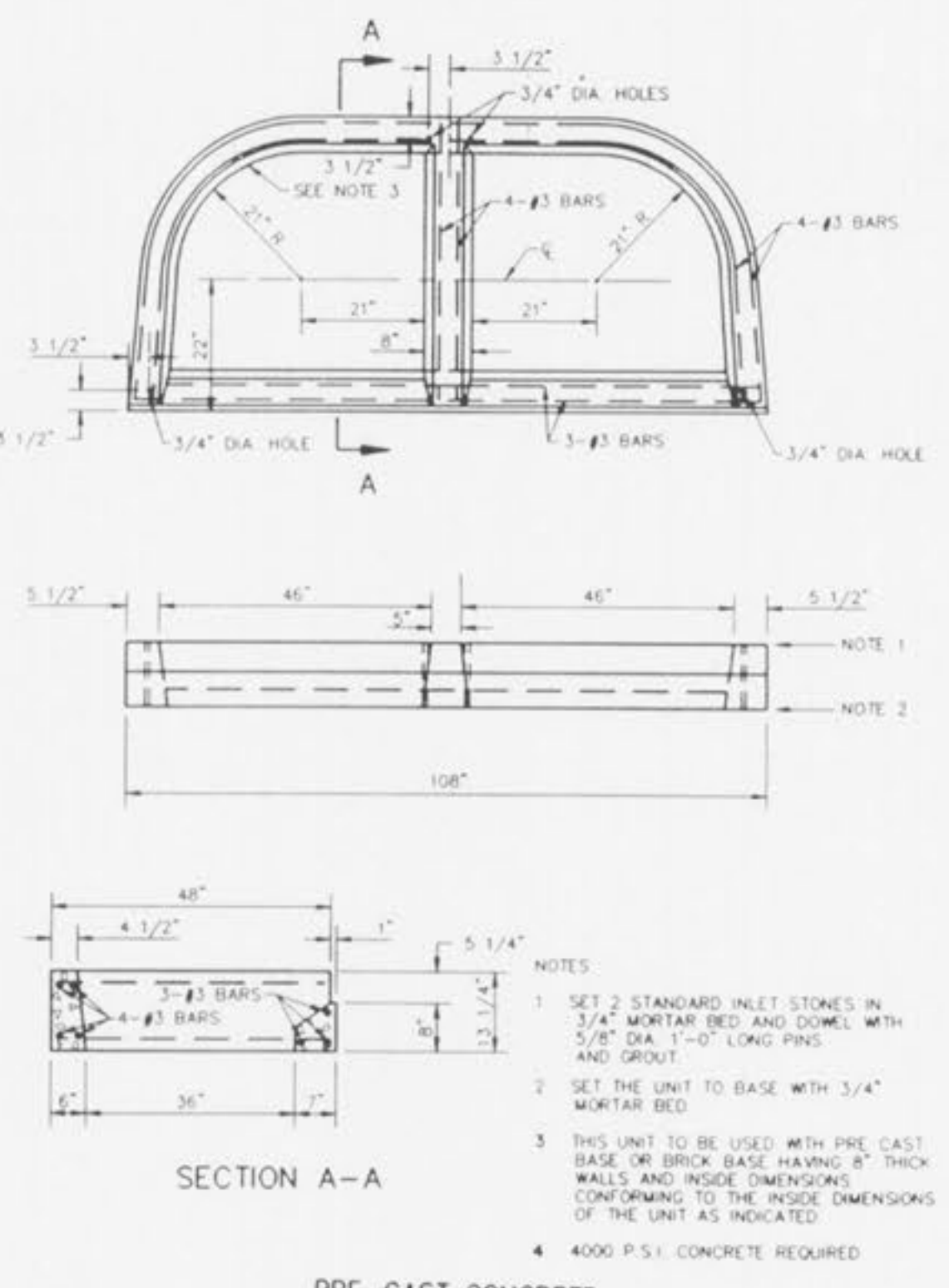


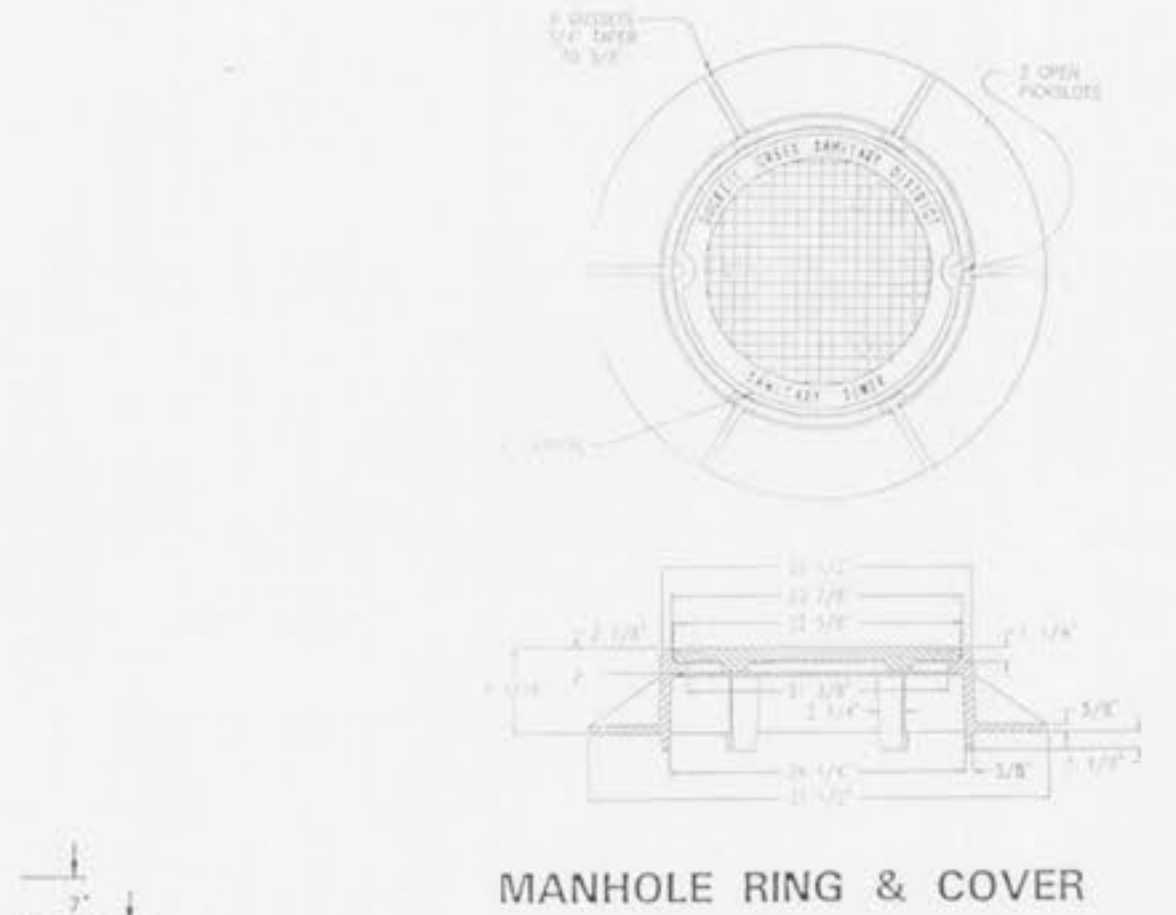
ROUND PIPE				HORIZONTAL ELLIPTICAL PIPE			
PIPE DIAMETER (INCHES)	PAVING WIDTH OF TRENCH (INCHES)	PAVING DEPTH OF TRENCH (FEET)	PAVING DEPTH OF TRENCH (INCHES)	PIPE DIAMETER (INCHES)	PAVING WIDTH OF TRENCH (INCHES)	PAVING DEPTH OF TRENCH (FEET)	PAVING DEPTH OF TRENCH (INCHES)
4	30	2.50	2.50	8	30	2.50	2.50
6	30	2.50	2.50	12	30	2.50	2.50
8	30	2.50	2.50	18	30	2.50	2.50
10	30	2.50	2.50	24	30	2.50	2.50
12	30	2.50	2.50	30	30	2.50	2.50
15	36	3.00	3.00	36	36	3.00	3.00
18	36	3.00	3.00	42	36	3.00	3.00
20	36	3.00	3.00	48	36	3.00	3.00
24	42	3.50	3.50	54	42	3.50	3.50
27	42	3.50	3.50	60	42	3.50	3.50
30	42	3.50	3.50	66	42	3.50	3.50
36	48	4.00	4.00	72	48	4.00	4.00
42	48	4.00	4.00	78	48	4.00	4.00
48	54	4.50	4.50	84	54	4.50	4.50
54	54	4.50	4.50	90	54	4.50	4.50
60	60	5.00	5.00	96	60	5.00	5.00
66	60	5.00	5.00	102	60	5.00	5.00
72	66	5.50	5.50	108	66	5.50	5.50
78	66	5.50	5.50	114	66	5.50	5.50
84	72	6.00	6.00	120	72	6.00	6.00
90	72	6.00	6.00	126	72	6.00	6.00
96	78	6.50	6.50	132	78	6.50	6.50
102	78	6.50	6.50	138	78	6.50	6.50
108	84	7.00	7.00	144	84	7.00	7.00
114	84	7.00	7.00	150	84	7.00	7.00
120	90	7.50	7.50	156	90	7.50	7.50
126	90	7.50	7.50	162	90	7.50	7.50
132	96	8.00	8.00	168	96	8.00	8.00
138	96	8.00	8.00	174	96	8.00	8.00
144	102	8.50	8.50	180	102	8.50	8.50
150	102	8.50	8.50	186	102	8.50	8.50
156	108	9.00	9.00	192	108	9.00	9.00
162	108	9.00	9.00	198	108	9.00	9.00

SECTION OF MANHOLE	DIMENSION
TOP TRANSITION	26 1/2" DIA.
LOWER	42" DIA.
BOTTOM SECTION	8" THRU 24" DIA. PIPE
BOTTOM SECTION	27" THRU 36" DIA. PIPE
BOTTOM SECTION	42" SQUARE

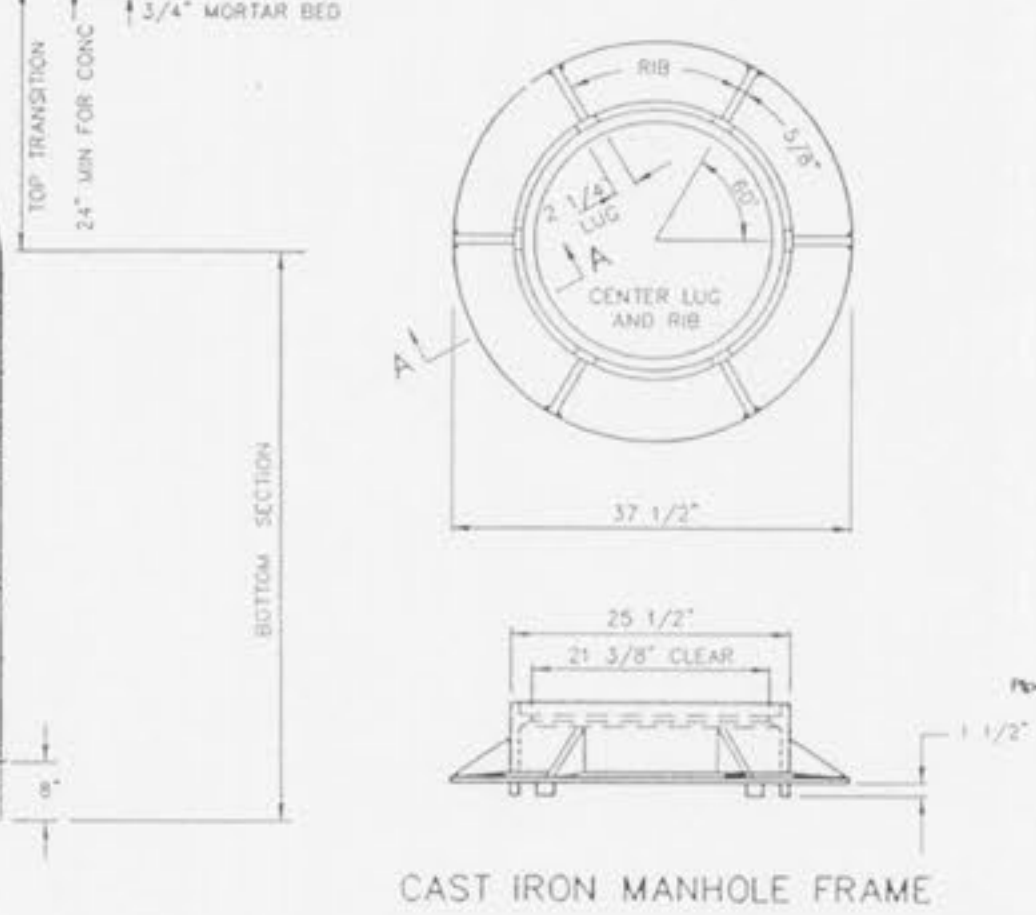
TABLE NO. 2  
STANDARD MANHOLE DIMENSIONS



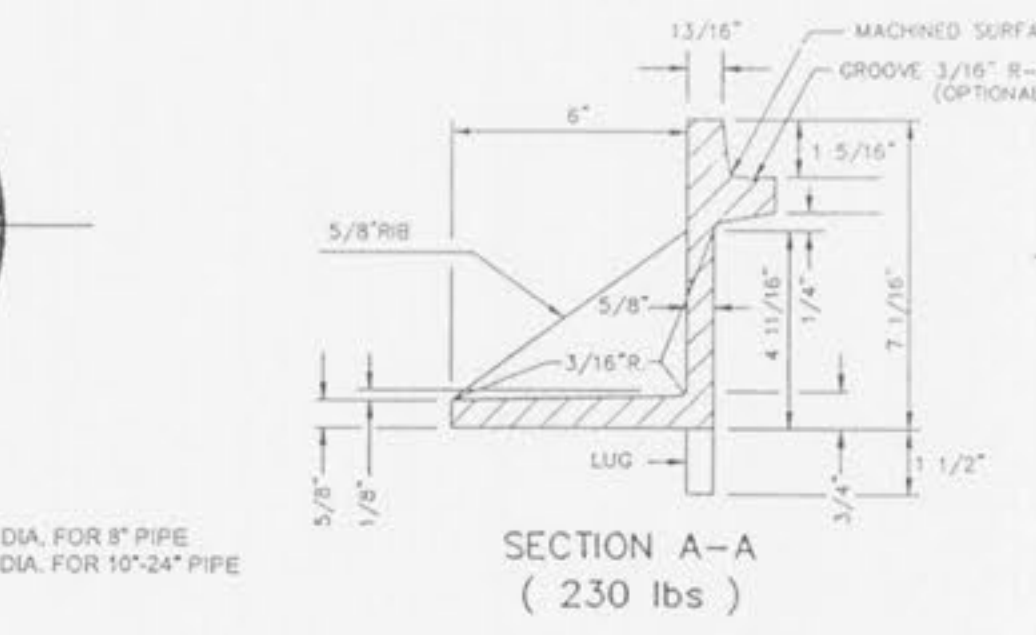
STANDARD TYPICAL SECTION  
RESIDENTIAL  
50' R/W 26' PAVT.



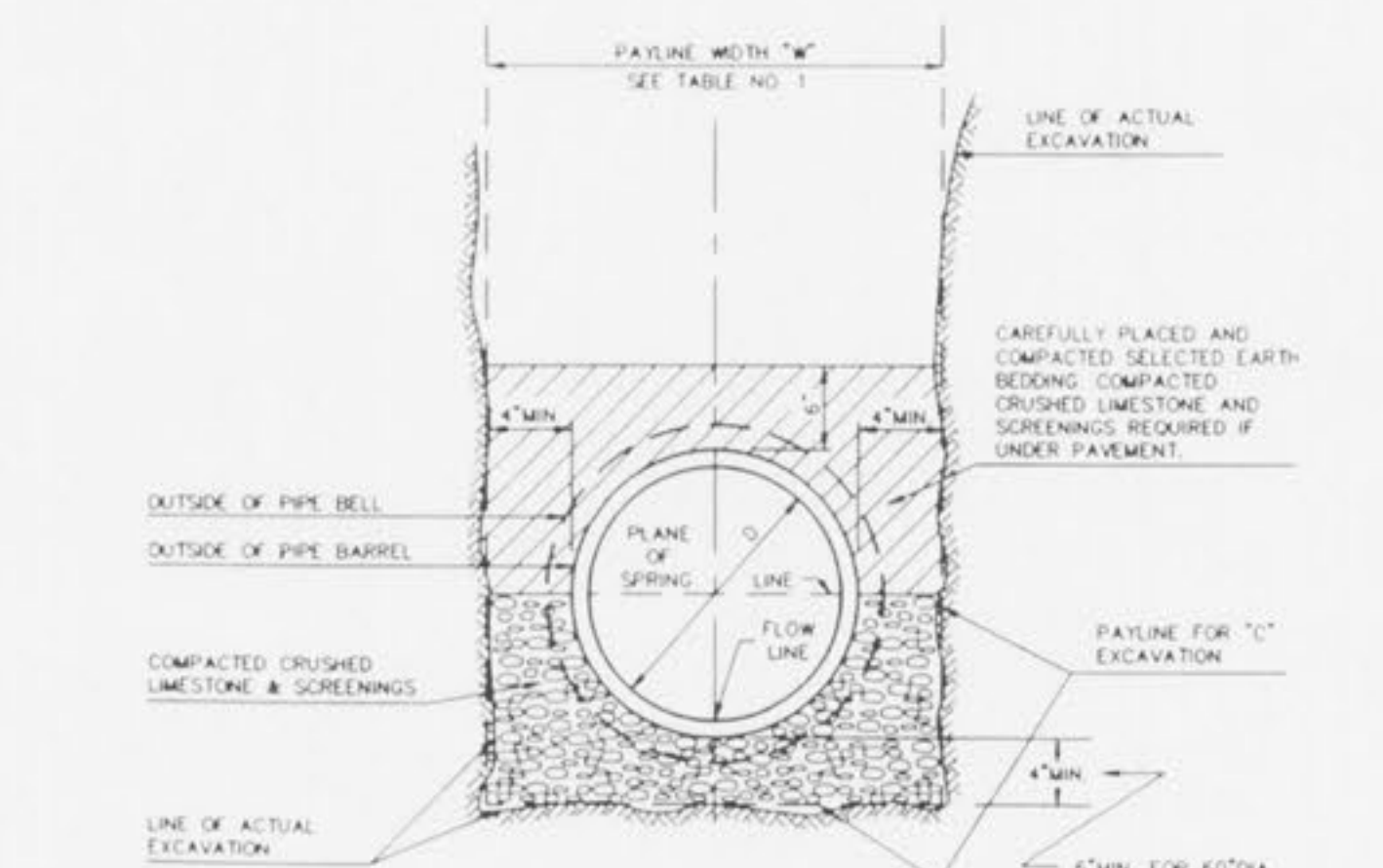
MANHOLE RING & COVER



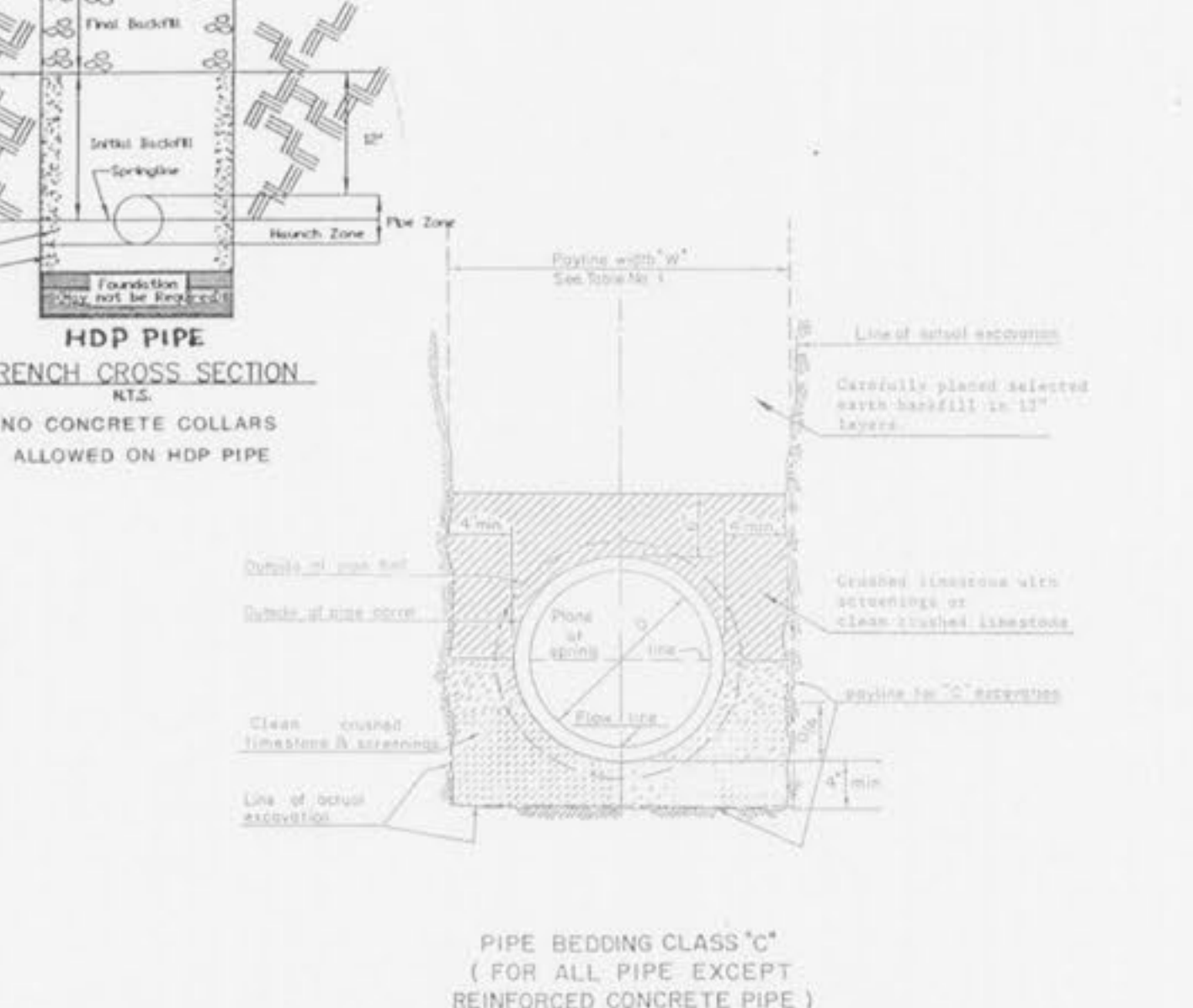
CAST IRON MANHOLE FRAME



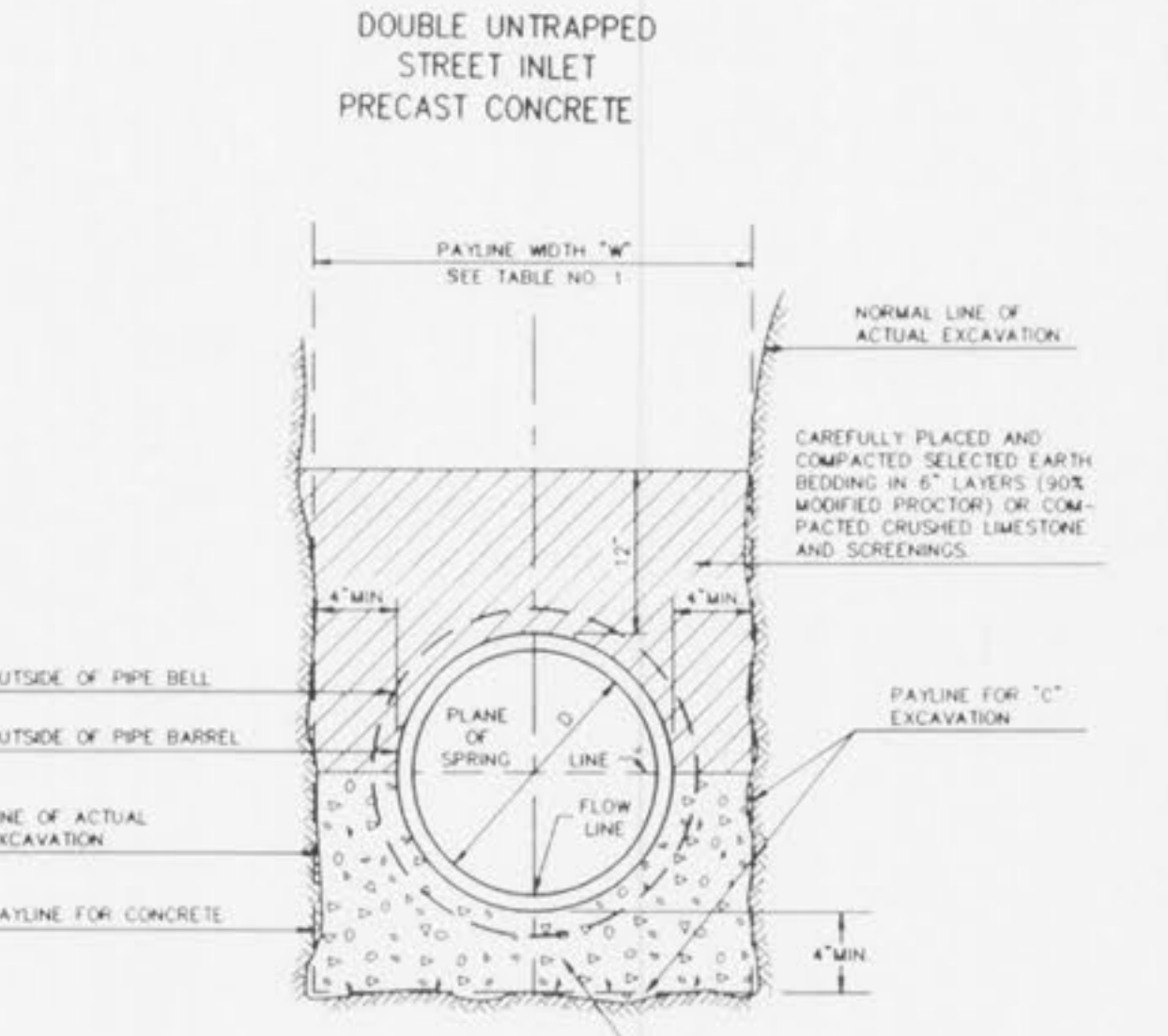
TERMINAL MANHOLE



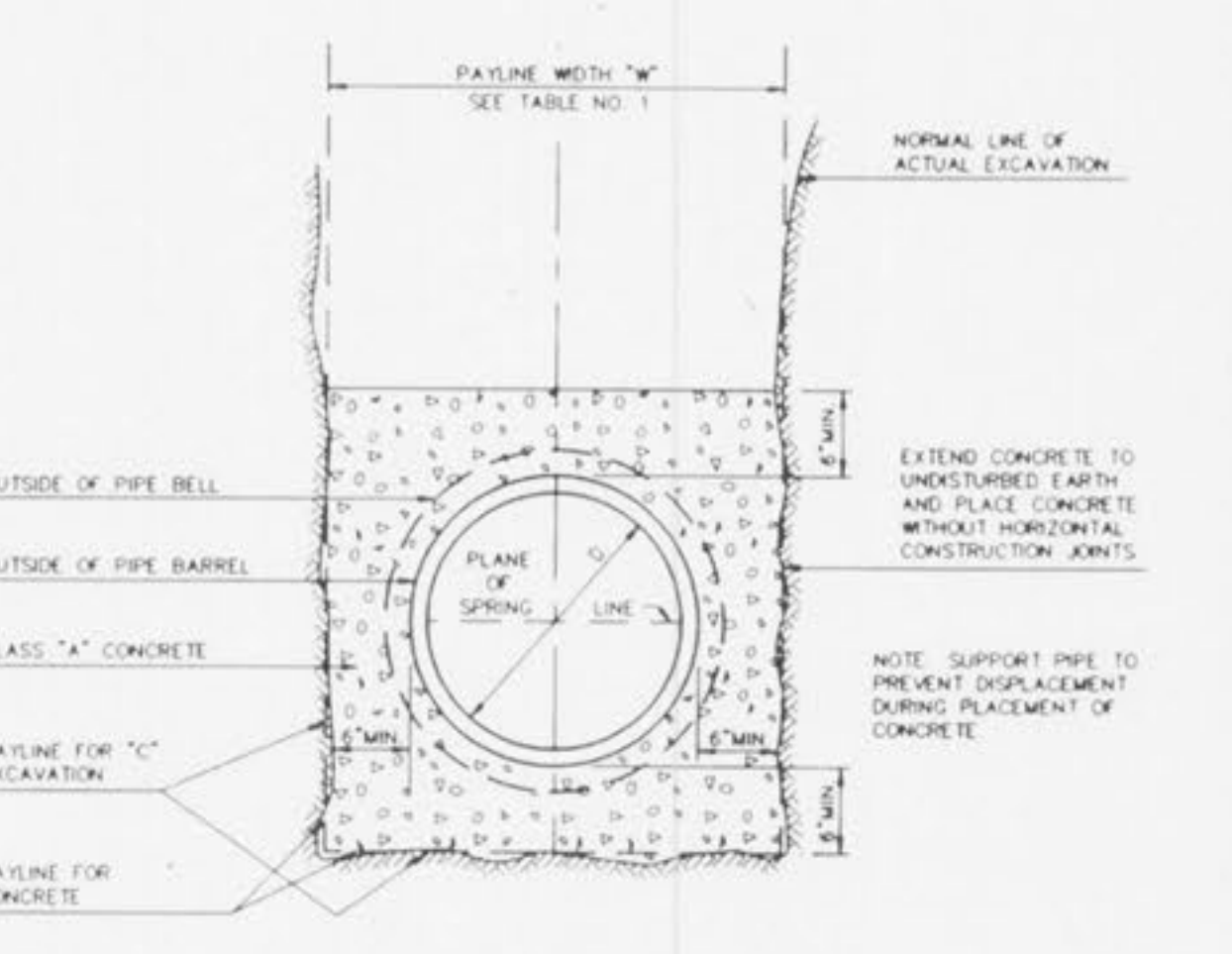
PIPE BEDDING CLASS "C"  
(MODIFIED FOR REINFORCED  
CONCRETE PIPE)



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



(CLASS "A" BEDDING)  
CONCRETE CRADLE



CONCRETE ENCASEMENT

**WINGHAVEN PHASE I  
IMPROVEMENT PLANS FOR  
CYPRESS KNOLL VILLAGE**  
PART OF U.S. SURVEY NO. 1669  
AND PART OF SECTIONS 11 & 12  
TOWNSHIP 46 NORTH RANGE 2 EAST  
CITY OF FALLON, MISSOURI

**Kuhlmann  
Design  
Group, Inc.**  
#6 Westbury Drive  
St. Charles, Missouri 63301  
Tel: (314) 946-5566  
St. Louis, Missouri  
Baltimore, Illinois  
St. Charles, Missouri

**KdG**

**DISCLAIMER OF RESPONSIBILITY**  
I hereby specify that the documents intended to be authorized by my seal are limited to this sheet, and I hereby disclaim any responsibility for all other drawings, specifications, estimates, reports or other documents or instruments relating to or intended to be used for any part or parts of the architectural or engineering project or survey.

**SALIM ELKOTT  
REGISTERED PROFESSIONAL ENGINEER**

NO.	DATE	BY	CHKD.
1	6/25/98	P.B.K.	S.E.L.
PROJECT NO.	CONTRACT NO.		
970221	092		
DRAWN	CHECKED		
DATE	6/24/98		

**CONSTRUCTION DETAILS**