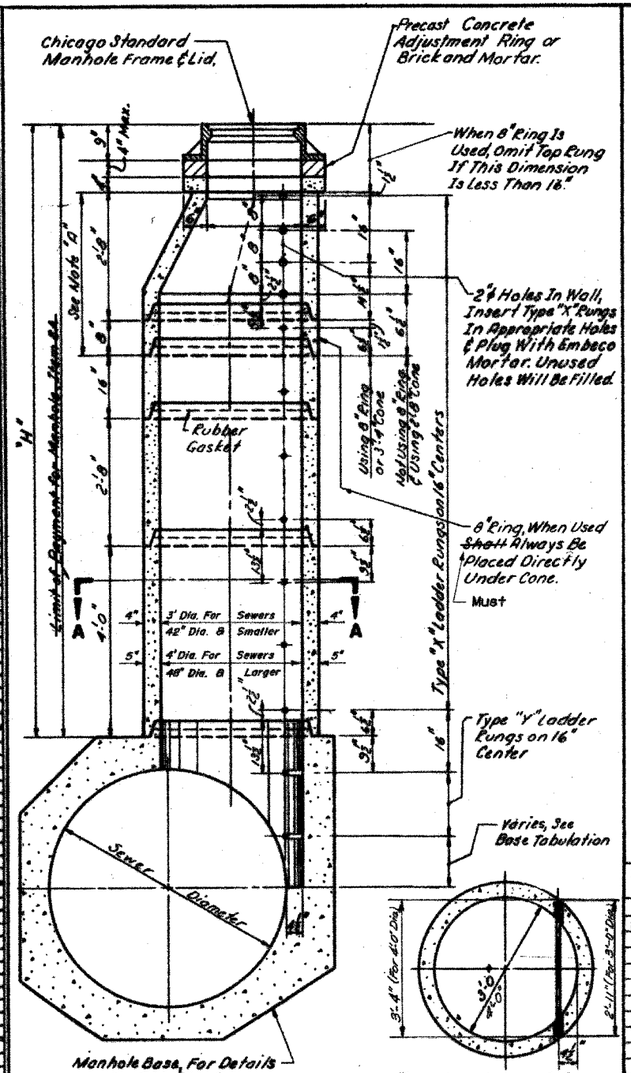
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	•	COOK	860	266F
STA. 2200+00.00	TO STA. 2362+00.00			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
• (1516.1, 1717 & 1818) R-8				62694

NUMBER OF PRECAST RINGS REQUIRED FOR MANHOLES OF VARIOUS HEIGHTS

TOTAL HEIGHT "H"	8" FRAME + 2'-0" CORRECTION + 3'-0"	PRECAST RINGS 4'-0"	3'-4"	2'-8"	1'-4"	0'-8"	0'-4"	BRICK AND/OR MORTAR
5'-0"	0'-5"				1			3"
6'-0"	3'-5"				1			3"
7'-0"	3'-5"				1			3"
8'-0"	3'-5"				1			3"
9'-0"	3'-5"				1			3"
10'-0"	3'-5"				1			3"
11'-0"	3'-5"				1			3"
12'-0"	3'-5"				2			3"
13'-0"	3'-5"				2			3"
14'-0"	3'-5"				2			3"
15'-0"	3'-5"				2			3"
16'-0"	3'-5"				2			3"
17'-0"	3'-5"				2			3"
18'-0"	3'-5"				2			3"
19'-0"	3'-5"				3			3"
20'-0"	3'-5"				3			3"
21'-0"	3'-5"				3			3"
22'-0"	3'-5"				3			3"
23'-0"	3'-5"				3			3"
24'-0"	3'-5"				3			3"

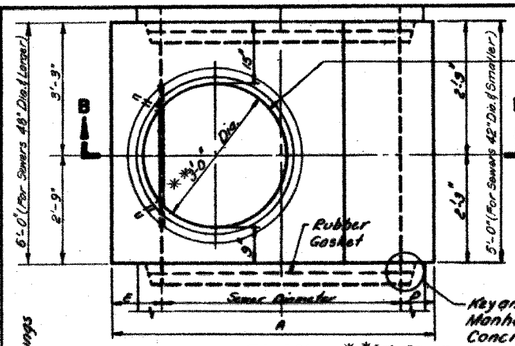


DETAIL OF PRECAST RINGS

~~Part of Item 8A~~
Scale: 3/4"=1'-0"

1" ø Ladder Rung, Type "X", Length 2'-11" or 3'-4" Inserted Into 2" ø Hole In Wall & Plugged By Mfgr. with Embeco Mortar.

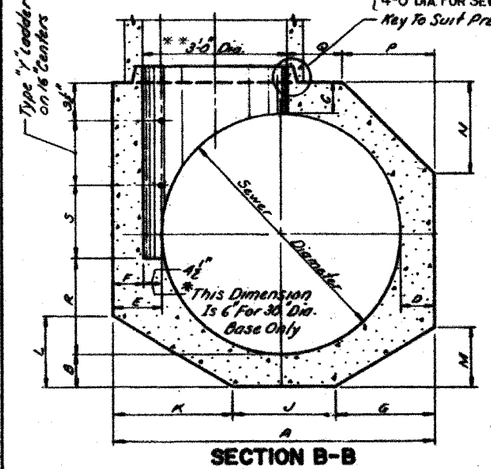
SECTION A-A



PLAN

** 3'-0" Dia. For Sewers 42" Dia. & Smaller.
4'-0" Dia. For Sewers 48" Dia. & Larger.

Key To Suit Precast Rings As Furnished.



SECTION B-B

* This Dimension Is 6" On Both Sides For A 24" Dia. Base.

DETAIL OF PRECAST BASE

Notes:
For General Notes See Sheet No. 1

For Reinforcement Steel of Manhole Base See Sheet No. S3

~~Reinforcement Steel In Manhole Base To Be Paid For Under Items 8~~

6" Minimum Granular Embedment Under All Precast Manhole Bases.

SEWER DIA.	PART OF ITEM	DIMENSIONS OF PRECAST MANHOLE BASE A	B	C	D	E	F	G	J	K	L	M	N	P	Q	R	S	No. "Y" RUNGS
120"	——	2'-4½"	12"	12"	12"	16½"	12"	4'-0"	4'-0"	4'-4½"	2'-7½"	2'-5"	3'-6"	3'-6"	3'-10½"	2'-0"	18½"	6
108"	——	11'-4½"	12"	12"	12"	16½"	12"	3'-8"	3'-8"	4'-0½"	2'-5"	2'-3"	3'-2½"	3'-2½"	3'-2"	2'-0"	6½"	6
102"	——	10'-10½"	12"	12"	12"	16½"	12"	3'-6"	3'-6"	3'-10½"	2'-4"	2'-1"	3'-0"	3'-0"	2'-10½"	2'-0"	16½"	6
96"	——	10'-5½"	11"	11"	11"	15½"	11"	3'-3"	3'-3"	3'-6½"	2'-3"	2'-3"	2'-10½"	2'-10½"	2'-5"	2'-0"	9½"	5
90"	——	9'-6"	11"	11"	11"	15½"	11"	3'-1"	3'-1"	3'-5"	2'-1½"	2'-2"	2'-9"	2'-9"	2'-0½"	2'-0"	19½"	4
84"	——	9'-0"	10"	10"	10"	14½"	10"	2'-11"	2'-11"	3'-2½"	2'-0"	2'-1"	2'-5½"	2'-5½"	1'-9"	2'-0"	12½"	4
78"	——	8'-6"	10"	10"	10"	14½"	10"	2'-9"	2'-9"	3'-0"	1'-10½"	2'-0"	2'-4"	2'-4"	1'-4"	2'-0"	6½"	4
72"	~~3A~~	7'-10"	9"	9"	9"	13½"	9"	2'-6"	2'-6"	2'-10"	1'-7½"	1'-8"	2'-2½"	2'-2½"	11¼"	2'-0"	15½"	3
66"	~~3B~~	7'-4"	9"	9"	9"	13½"	9"	2'-4"	2'-4"	2'-6½"	1'-5½"	1'-7"	2'-0½"	2'-0½"	7"	2'-0"	9½"	3
60"	——	6'-8½"	8"	8"	8"	12½"	8"	2'-1"	2'-1"	2'-3"	1'-3½"	1'-5"	1'-5½"	1'-5½"	7"	2'-0"	16½"	2
54"	——	6'-2½"	8"	8"	8"	12½"	8"	2'-3½"	2'-3½"	2'-4"	1'-1"	1'-4"	1'-1½"	1'-1½"	7"	2'-0"	12½"	2
48"	——	5'-8½"	7"	7"	7"	11½"	7"	2'-0½"	2'-0½"	2'-1"	0'-11½"	1'-2½"	4½"	4½"	7"	2'-0"	21½"	1
42"	——	5'-0"	7"	7"	7"	11½"	7"	1'-8½"	1'-8½"	2'-3"	1'-4"	1'-1"	——	——	1'-7½"	2'-1"	18½"	1
36"	——	4'-4½"	6"	6"	6"	10½"	6"	1'-6"	1'-6"	2'-0½"	1'-2½"	0'-9½"	——	——	10½"	1'-8"	14½"	1
30"	——	4'-0"	6"	6"	6"	12"	6"	1'-4"	1'-4"	2'-0"	1'-2"	0'-8"	——	——	6"	1'-5"	11½"	1
24"	~~3B~~	4'-0"	6"	6"	12"	12"	6"	1'-6"	1'-6"	1'-6"	0'-9½"	0'-9½"	——	——	6"	1'-2"	8½"	1

NOTES:
Precast Concrete Rings Must Conform To A.S.T.M. Designation C76 For "Reinforced Concrete Culvert, Storm Drain, and Sewer Pipe", Class II, Wall B.
Standard Lengths of Rings Are: 4'-0", 2'-8", 1'-4", 0'-8" and 0'-4" Collar.
~~All Reinforcement Steel Required for Precast Concrete Rings Must Be Included In The Price Bid for Item 8A.~~
~~For Revisions To Items 8 Manholes See Specifications, Part I, G.P.~~

Note "A"
Where The 6" Ring Is Indicated In The Tabulation, A Separate One Piece Cone 3'-4" In Height May Be Used As An Alternate.

Scale of Drawing 1"=1'-0"

REVISIONS DATE	DESCRIPTION	A
9-20-04	Revised to Suit 48" Dia. Rings	
3/26/03	PRELIMINARY PLAN	
	APPROVED PLAN	

DRAWN BY REPRODUCTION
CHECKED BY N.S.
EXAMINED BY A.A.

CITY OF CHICAGO
DEPARTMENT OF WATER MANAGEMENT
BUREAU OF ENGINEERING SERVICES

TYPE "A" MANHOLE PRECAST BASES AND RINGS

~~SCALE: AS SHOWN~~ CONTRACT SHEET NO.

NOTE: THESE DRAWINGS ARE FOR INFORMATIONAL PURPOSES ONLY. ALL REFERENCES TO PAY ITEMS OR PAY LIMITS SHOULD BE IGNORED. SEE SPECIAL PROVISIONS FOR PAY ITEMS.

TY·LIN INTERNATIONAL

REVISIONS NAME	DATE
REVISED	04/15/05

ILLINOIS DEPARTMENT OF TRANSPORTATION
F.A.I. 94 (DAN RYAN EXPRESSWAY)

CITY OF CHICAGO
DEPARTMENT OF WATER MANAGEMENT
SEWER RELOCATION DETAIL
(SHEET 6 OF 9)

SCALE: NONE DRAWN BY: MB
DATE: MARCH 18, 2005 CHECKED BY: MPG