

EXCAVATION (CONSTRUCTION INFORMATION)

COMPLETE MANHOLE	5.0 CU. YDS.
NEW ROOF ONLY	2.0 CU. YDS.
SHEETING MANHOLE	150.0 SQ. FT.

#5 REINFORCING BARS

BAR	LENGTH	NO. OF BARS	TOTAL FT.
A	2'-9"	8	22'-0"
B	4'-0"	4	16'-0"

MATERIALS FOR ROOF ONLY

CONCRETE	0.5 CU. YDS.
REINFORCING BARS #5	38'

NOTES:

1. PRECAST MANHOLES MUST BE PROVIDED WITH CHANNEL INSERTS, PULLING IRONS, AND CONDUIT KNOCK-OUTS.
2. ALL CONCRETE MUST BE PORTLAND CEMENT CONCRETE MEETING IDOT REQUIREMENTS FOR CLASS PC CONCRETE FOR PRE-CAST STRUCTURES, OR CLASS S1 CONCRETE FOR CAST-IN-PLACE STRUCTURES.
3. REINFORCING BARS MUST MEET ASTM A615 GRADE 60.

DRG. MATERIAL CODE SIZE

FORM FOR MANHOLE	17-6648-8008	3x4x4	1
CONDUIT END BELL	17-6648-8202	4S	1
TILE, SEWER	39-1038-3200	12"/24"	1
SLAB BOLSTER	20-5472-9650	2"	20'
BAR, REINFORCING	20-5472-9650	1/2" # 5	38'
TIE WIRE	13-9936-4106	#20x4	35'
PULLING IRON	02-4483-9910	1/2" # 2	2
CONCRETE	05-3267-2940	3 CU. YDS.	1
SEWER BRICK	05-1452-9720	STD. 50	1
GRATE FOR SUMP	02-4368-7100	15" # 1	1
GROUND ROD	09-7796-9200	2"x10"	1
GROUND ROD CLAMP	09-2636-3049	1/2"	1
CRUSHED STONE	05-9097-5471	1/2"	48'
MANHOLE FRAME	02-4299-5524	30"	1
MANHOLE COVER	02-4574-5040	30"	1
CONC. CHANNEL INSERT	02-4674-5040	3"	8

REVISIONS

8/21/02	SUPERCEDES DWG. 729 DATED JAN 12, 1996
1/12/96	SUPERCEDES DWG. 729 DATED NOV. 21, 1973
DATE	REVISION

3' x 4' x 4' CONCRETE MANHOLE WITH 30" FRAME AND COVER

CITY OF CHICAGO
DEPT. OF STREETS AND SANITATION
BUREAU OF ELECTRICAL ENGINEERING
DIVISION OF ELECTRICAL ENGINEERING
CHIEF DRAFTSMAN: ENGINEER
B. GAINSEY R. CARTER B. GAINSEY
ELECTRICAL DESIGN ENGINEER
ENGINEER OF ELECTRICALITY
DEPT. OF STREETS AND SANITATION
STREET: 17" x 22" SCALE: NONE DATE: 8/21/02

EXCAVATION (CONSTRUCTION INFORMATION)

COMPLETE MANHOLE	6.0 CU. YDS.
NEW ROOF ONLY	2.0 CU. YDS.
SHEETING MANHOLE	150.0 SQ. FT.

#5 REINFORCING BARS

BAR	LENGTH	NO. OF BARS	TOTAL FT.
A	3'-4"	4	13'-4"
B	4'-0"	10	40'-0"

MATERIALS FOR ROOF ONLY

CONCRETE	0.45 CU. YDS.
REINFORCING BARS #5	54'

NOTES:

1. PRECAST MANHOLES MUST BE PROVIDED WITH CHANNEL INSERTS, PULLING IRONS, AND CONDUIT KNOCK-OUTS.
2. ALL CONCRETE MUST BE PORTLAND CEMENT CONCRETE MEETING IDOT REQUIREMENTS FOR CLASS PC CONCRETE FOR PRE-CAST STRUCTURES, OR CLASS S1 CONCRETE FOR CAST-IN-PLACE STRUCTURES.
3. REINFORCING BARS MUST MEET ASTM A615 GRADE 60.

DRG. MATERIAL CODE SIZE

FORM FOR MANHOLE	17-6648-8008	3x4x4	1
CONDUIT END BELL	17-6648-8202	4S	1
TILE, SEWER	39-1038-3200	12"/24"	1
SLAB BOLSTER	20-5472-9650	2"	20'
BAR, REINFORCING	20-5472-9650	1/2" # 5	54'
TIE WIRE	13-9936-4106	#20x4	25'
PULLING IRON	02-4483-9910	1/2" # 2	2
CONCRETE	05-3267-2940	3 CU. YDS.	1
SEWER BRICK	05-1452-9720	STD. 50	1
GRATE FOR SUMP	02-4368-7100	15" # 1	1
GROUND ROD	09-7796-9200	2"x10"	1
GROUND ROD CLAMP	09-2636-3049	1/2"	1
CRUSHED STONE	05-9097-5471	1/2"	50'
MANHOLE FRAME	02-4299-5524	24"	1
MANHOLE COVER	02-4574-5040	24"	1
CONC. CHANNEL INSERT	02-4674-5040	3"	8

REVISIONS

8/21/02	SUPERCEDES DWG. 730 DATED JAN 12, 1996
1/12/96	SUPERCEDES DWG. 730 DATED NOV. 21, 1973
DATE	REVISION

3' x 4' x 4' CONCRETE MANHOLE WITH 24" FRAME AND COVER

CITY OF CHICAGO
DEPT. OF STREETS AND SANITATION
BUREAU OF ELECTRICAL ENGINEERING
DIVISION OF ELECTRICAL ENGINEERING
CHIEF DRAFTSMAN: ENGINEER
B. GAINSEY R. CARTER B. GAINSEY
ELECTRICAL DESIGN ENGINEER
ENGINEER OF ELECTRICALITY
DEPT. OF STREETS AND SANITATION
STREET: 17" x 22" SCALE: NONE DATE: 8/21/02

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REVISIONS		ILLINOIS DEPARTMENT OF TRANSPORTATION	
NAME	DATE	F.A.I. 94 (DAN RYAN EXPRESSWAY)	
		CITY OF CHICAGO	
		BUREAU OF ELECTRICAL STANDARDS	
		SCALE:	DRAWN BY: REW
		DATE: MARCH 25, 2005	CHECKED BY: WHI
REVISED	04/15/05		