STORM WATER SEWER SYSTEM

TO SERVE CENTRAL MAIZE MIDDLE SCHOOL

PRIVATE PROJECT NUMBER: 1183 PPS

OCA # 607861

GENERAL NOTES

1. Contractor will be required to provide a minimum notice of 48 hours to utility companies prior to starting any excavation as follows:

   Kansas One-Call 627-2470

   The Contractor must notify the following in case of an emergency:

Cox Communications	262-0661
Kansas Gas Service	383-8600
KPL	383-8600
Peoples Natural Gas Company	1-800-303-0357
Southwestern Bell Telephone Company	1-800-286-8313
City of Wichita Water Department	268-6000
City of Wichita Sewer Maintenance	268-6000

2. The Contractor shall give all property owners and/or tenants of developed property directly abutting the construction of this project a minimum of ten (10) days advance notice prior to start of construction.

3. The Contractor shall be responsible for preserving property irons. The Contractor will be required to re-establish any property irons which are damaged or destroyed by his construction operations. Such irons shall be re-established by a licensed land surveyor in accordance with state laws.

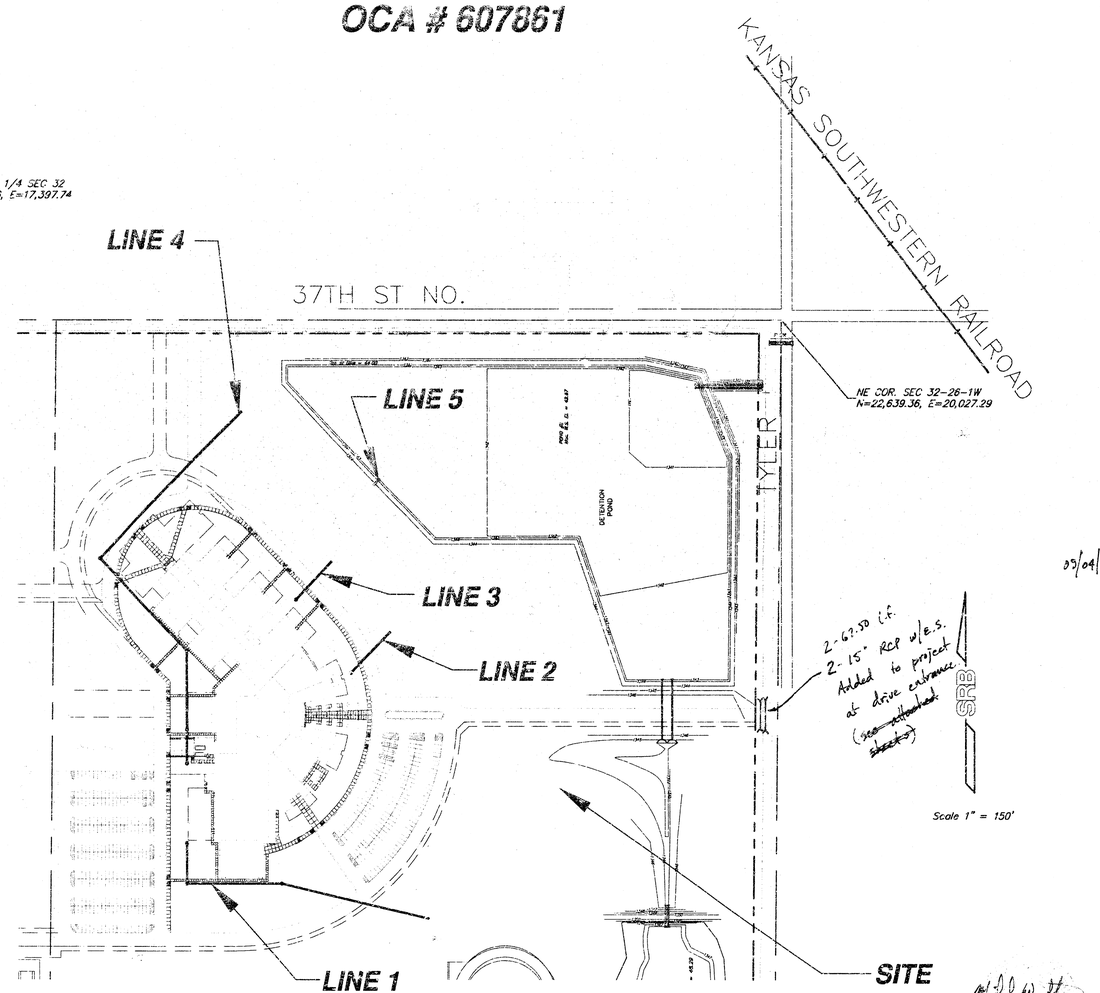
4. The Contractor shall seed and fertilize all disturbed turf areas upon completion of construction.

5. Traffic will not be affected by construction of this project.

6. Polyvinyl Chloride Pipe (PVC) installed on this project shall conform to the City of Wichita Standard Specifications for Sewer Line Construction. The PVC pipe shall be rated for SDR-35. All PVC pipe shall be installed in accordance with the manufacturer's recommendations. Waterstop gaskets around the pipe shall be installed in all manhole walls.

7. Reinforced Concrete Pipe (RCP) installed on this project shall conform to the City of Wichita Standard Specifications for Sewer Line Construction. RCP pipe for storm sewer shall be Class III pipe. Joints shall be tongue and groove joints sealed with either flexible plastic gaskets or cement mortar.

8. Storm sewer Contractor shall confirm with roof drain contractor the size, location and pipe material of roof drain pipes into manholes prior to manhole construction. Storm sewer Contractor than shall plug drain connections into manhole since roof drains shall be installed by drain contractor.



Scale 1" = 150'

INDEX OF SHEETS

BENCH MARKS

BM #1 60 d SPIKE IN NORTH POLE OF "H" FRAME TRANSMISSION LINE, EAST OF S.E. COR., N.E. 1/4, SEC. 32. ELEV. = 1363.49 N.G.V.D.

BM #2 TOP OF IRON, N.W. COR., N.E. 1/4, N.W. 1/4, SECTION 32. ELEV. = 1353.38 N.G.V.D.

As-Built SWS Plans (Built per plan + additions)
03/04/2002 Inspector: Tim Kelly / Mike Stump
Inspection Firm: Ruggles & Bohm
Contractor: Mies Construction
Lines TV'd: 03/25/2002 - Passed

APPROVED AS NOTED
BY CITY ENGINEER OF WICHITA

Sanitary Sewers _____
Storm Sewers VRH 11/27/01
Driveway Approaches _____
Water Mains _____
Paving _____

NOTE TO CONTRACTORS

Inspection and testing for this project are to be provided by a Licensed Consulting Engineering Firm under contract with the Owner/Developer. Said inspection to be in accordance with the City of Wichita standard construction engineering practices and certified by a Licensed Professional Engineer. No work shall be performed in dedicated easements or public right-of-way by the Contractor without such inspection, nor shall any work be commenced without written authorization by the City Engineer.

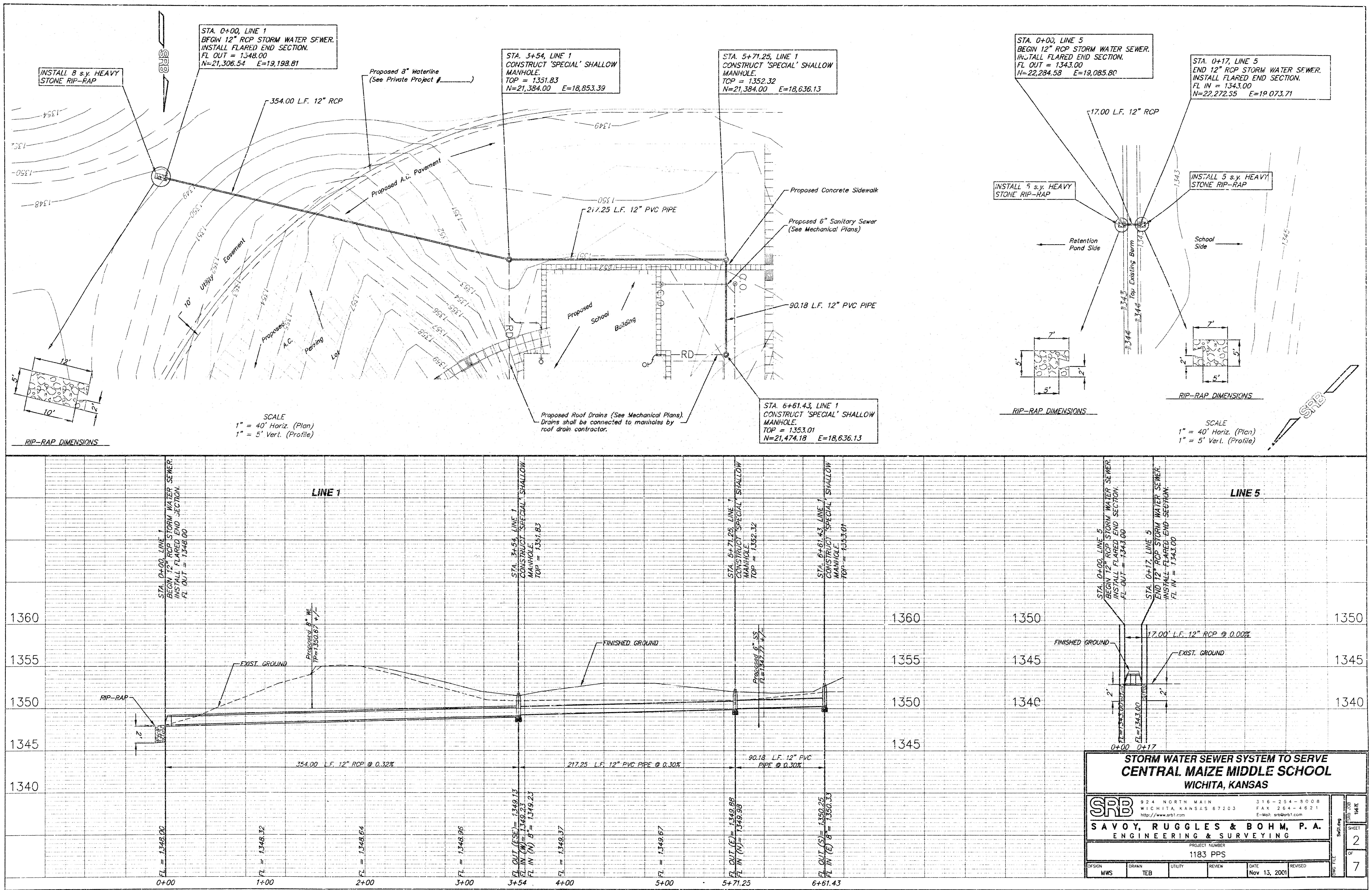
Michael W. Lindebak 11-27-2001

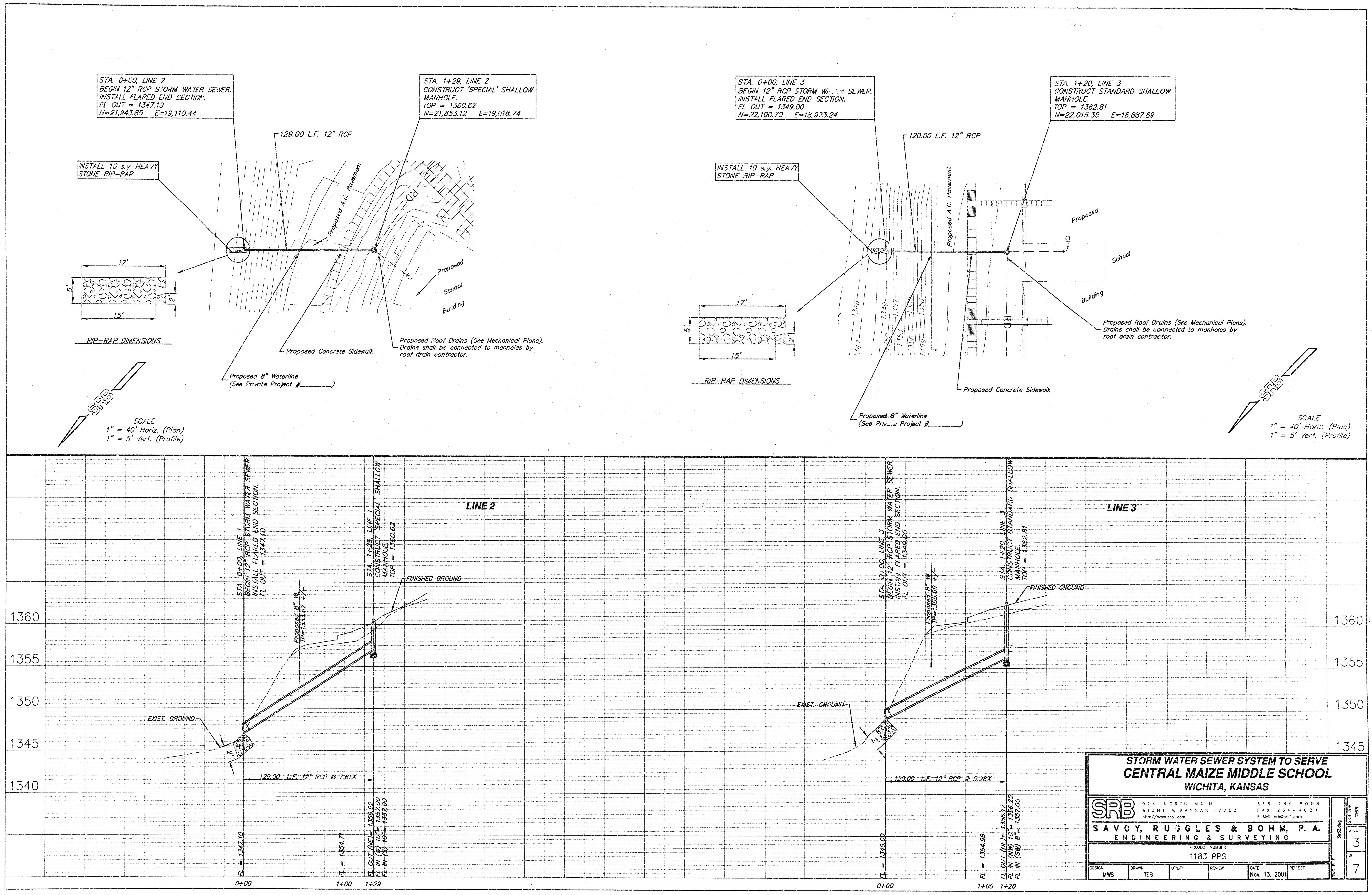
CITY OF WICHITA, KANSAS

MICHAEL E. LINDEBAK - CITY ENGINEER

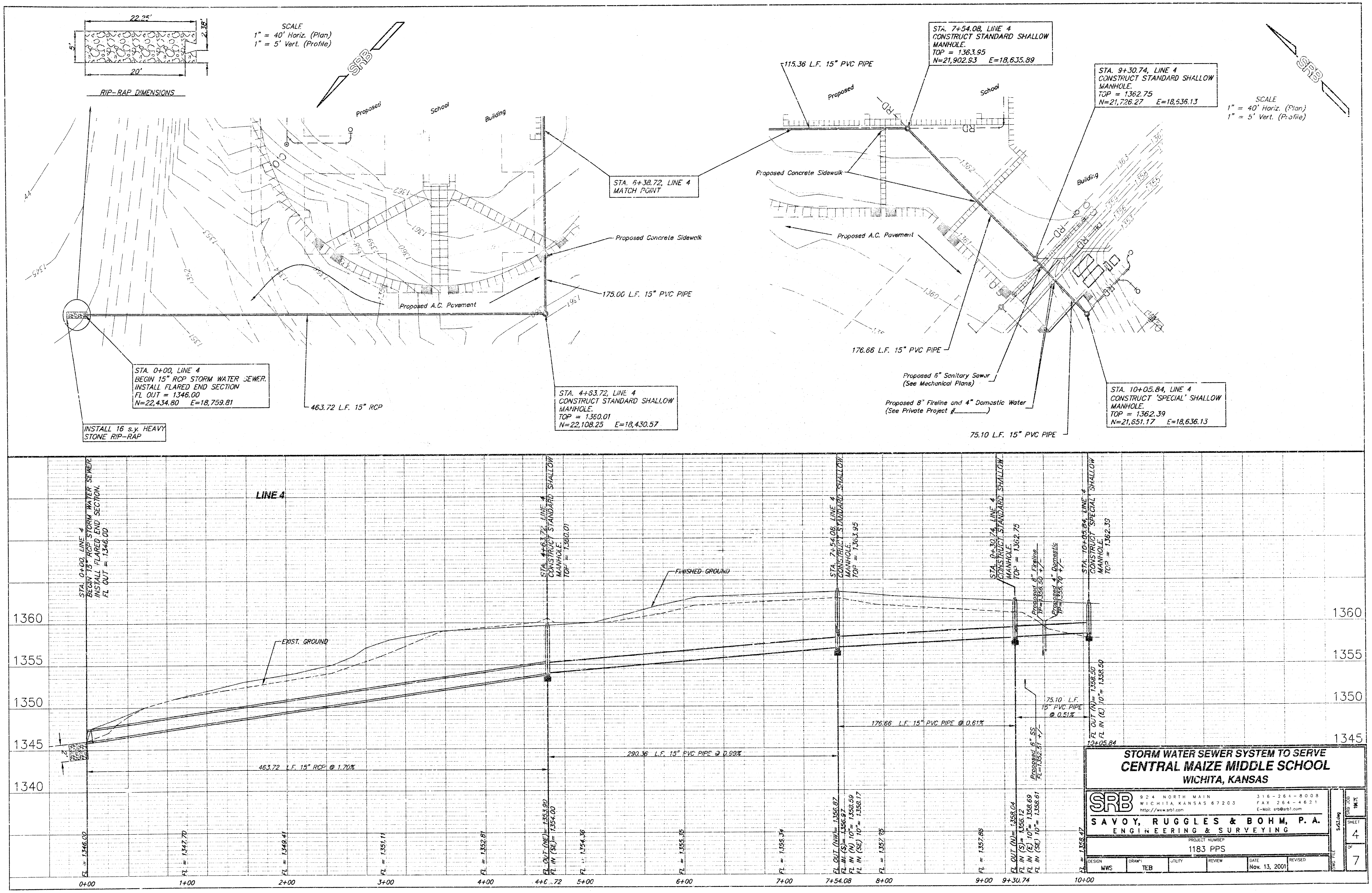
SRB 924 NORTH MAIN WICHITA, KANSAS 67203 316-264-8008 FAX 264-4651
SAVOY, RUGGLES & BOHM, P.A.
ENGINEERING & SURVEYING

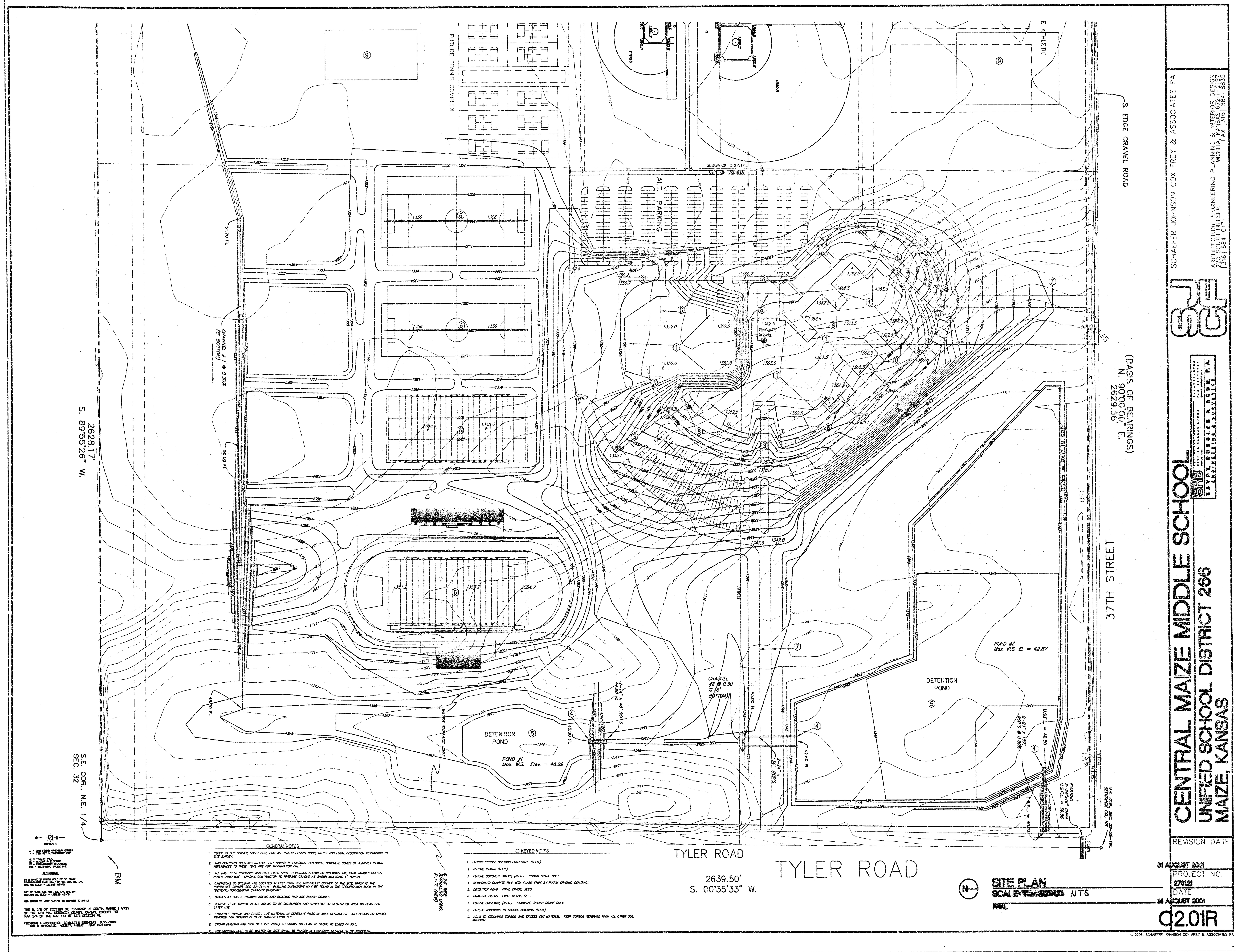
1967E


STA. 0+00, LINE 1
BEGIN 12" RCP STORM WATER SEWER.
INSTALL FLARED END SECTION.
FL OUT = 1348.00
N=21,306.54 E=19,198.81
INSTALL 8 s.y. HEAVY STONE RIP-RAP
Proposed 8" Waterline (See Private Project #________)
354.00 L.F. 12" RCP
STA. 3+54, LINE 1
CONSTRUCT 'SPECIAL' SHALLOW MANHOLE.
TOP = 1351.83
N=21,384.00 E=18,853.39
STA. 5+71.25, LINE 1
CONSTRUCT 'SPECIAL' SHALLOW MANHOLE.
TOP = 1352.32
N=21,384.00 E=18,636.13
Proposed A.C. Pavement
217.25 L.F. 12" PVC PIPE
Proposed Concrete Sidewalk
Proposed 6" Sanitary Sewer (See Mechanical Plans)
90.18 L.F. 12" PVC PIPE
10' Utility Easement
Proposed A.C. Parking Lot
Proposed School Building
RD
12'
5'
10'
2'
RIP-RAP DIMENSIONS
SCALE
1" = 40' Horiz. (Plan)
1" = 5' Vert. (Profile)
Proposed Roof Drains (See Mechanical Plans). Drains shall be connected to manholes by roof drain contractor.
STA. 6+61.43, LINE 1
CONSTRUCT 'SPECIAL' SHALLOW MANHOLE.
TOP = 1353.01
N=21,474.18 E=18,636.13
STA. 0+00, LINE 5
BEGIN 12" RCP STORM WATER SEWER.
INSTALL FLARED END SECTION.
FL OUT = 1343.00
N=22,284.58 E=19,085.80
STA. 0+17, LINE 5
END 12" RCP STORM WATER SEWER.
INSTALL FLARED END SECTION.
FL IN = 1343.00
N=22,272.55 E=19,073.71
17.00 L.F. 12" RCP
INSTALL 5 s.y. HEAVY STONE RIP-RAP
INSTALL 5 s.y. HEAVY STONE RIP-RAP
Retention Pond Side
School Side
Top Existing Berm
7'
5'
2'
RIP-RAP DIMENSIONS
SCALE
1" = 40' Horiz. (Plan)
1" = 5' Vert. (Profile)
LINE 1
STA. 0+00, LINE 1 BEGIN 12" RCP STORM WATER SEWER. INSTALL FLARED END SECTION. FL OUT = 1348.00
STA. 3+54, LINE 1 CONSTRUCT 'SPECIAL' SHALLOW MANHOLE. TOP = 1351.83
STA. 5+71.25, LINE 1 CONSTRUCT 'SPECIAL' SHALLOW MANHOLE. TOP = 1352.32
STA. 6+61.43, LINE 1 CONSTRUCT 'SPECIAL' SHALLOW MANHOLE. TOP = 1353.01
Proposed 8" WL TP=1350.6 +/-
Proposed 6" SS FL=1347.79 +/-
EXIST. GROUND
FINISHED GROUND
RIP-RAP
2'
354.00 L.F. 12" RCP @ 0.32%
217.25 L.F. 12" PVC PIPE @ 0.30%
90.18 L.F. 12" PVC PIPE @ 0.30%
1360
1355
1350
1345
1340
FL = 1348.00
FL = 1348.32
FL = 1348.64
FL = 1348.96
FL OUT (ESE) = 1349.13
FL IN (W) = 1349.23
FL IN (N) 8" = 1349.23
FL = 1349.37
FL = 1349.67
FL OUT (E) = 1349.88
FL IN (N) = 1349.98
FL OUT (S) = 1350.25
FL IN (E) 8" = 1350.33
0+00
1+00
2+00
3+00
3+54
4+00
5+00
5+71.25
6+61.43
LINE 5
STA. 0+00, LINE 5 BEGIN 12" RCP STORM WATER SEWER. INSTALL FLARED END SECTION. FL OUT = 1343.00
STA. 0+17, LINE 5 END 12" RCP STORM WATER SEWER. INSTALL FLARED END SECTION. FL IN = 1343.00
17.00' L.F. 12" RCP @ 0.00%
FINISHED GROUND
EXIST. GROUND
FL=1343.00
FL=1343.00
0+00
0+17
STORM WATER SEWER SYSTEM TO SERVE
CENTRAL MAIZE MIDDLE SCHOOL
WICHITA, KANSAS
SRB
924 NORTH MAIN
WICHITA, KANSAS 67203
http://www.srb1.com
316-254-5008
FAX 264-4621
E-Mail: srb@srb1.com
SAVOY, RUGGLES & BOHM, P. A.
ENGINEERING & SURVEYING
PROJECT NUMBER
1183 PPS
DESIGN MWS
DRAWN TEB
UTILITY
REVIEW
DATE Nov 13, 2001
REVISED
SHEET 2 OF 7



STA. 0+00, LINE 2
BEGIN 12" RCP STORM WATER SEWER.
INSTALL FLARED END SECTION.
FL OUT = 1347.10
N=21,943.85 E=19,110.44
STA. 1+29, LINE 2
CONSTRUCT 'SPECIAL' SHALLOW MANHOLE.
TOP = 1360.62
N=21,853.12 E=19,018.74
129.00 L.F. 12" RCP
INSTALL 10 s.y. HEAVY STONE RIP-RAP
Proposed A.C. Pavement
Proposed School Building
17'
5'
2'
15'
RIP-RAP DIMENSIONS
Proposed Concrete Sidewalk
Proposed Roof Drains (See Mechanical Plans). Drains shall be connected to manholes by roof drain contractor.
Proposed 8" Waterline (See Private Project #______)
SCALE
1" = 40' Horiz. (Plan)
1" = 5' Vert. (Profile)
STA. 0+00, LINE 3
BEGIN 12" RCP STORM WATER SEWER.
INSTALL FLARED END SECTION.
FL OUT = 1349.00
N=22,100.70 E=18,973.24
STA. 1+20, LINE 3
CONSTRUCT STANDARD SHALLOW MANHOLE.
TOP = 1362.81
N=22,016.35 E=18,887.89
120.00 L.F. 12" RCP
INSTALL 10 s.y. HEAVY STONE RIP-RAP
Proposed A.C. Pavement
Proposed School Building
Proposed Roof Drains (See Mechanical Plans). Drains shall be connected to manholes by roof drain contractor.
Proposed Concrete Sidewalk
Proposed 8" Waterline (See Private Project #______)
RIP-RAP DIMENSIONS
LINE 2
LINE 3
FINISHED GROUND
EXIST. GROUND
Proposed 8" WL TP=1353.62 +/-
Proposed 8" WL TP=1355.69 +/-
129.00 L.F. 12" RCP @ 7.61%
120.00 L.F. 12" RCP @ 5.98%
FL = 1347.10
FL = 1354.71
FL OUT (NE)= 1356.92
FL IN (W) 10"= 1357.00
FL IN (S) 10"= 1357.00
FL = 1349.00
FL = 1354.98
FL OUT (NE)= 1356.12
FL IN (NW) 10"= 1356.25
FL IN (SW) 8"= 1357.00
1360
1355
1350
1345
1340
0+00
1+00
1+29
1+20
STORM WATER SEWER SYSTEM TO SERVE
CENTRAL MAIZE MIDDLE SCHOOL
WICHITA, KANSAS
SRB
924 NORTH MAIN WICHITA, KANSAS 67203
316-264-8008 FAX 264-4621
SAVOY, RUGGLES & BOHM, P. A.
ENGINEERING & SURVEYING
PROJECT NUMBER 1183 PPS
DESIGN MWS
DRAWN TEB
DATE Nov. 13, 2001
SHEET 3 OF 7


22.25'
5'
2.38'
20'
RIP-RAP DIMENSIONS
SCALE
1" = 40' Horiz. (Plan)
1" = 5' Vert. (Profile)
SRB
Proposed School Building
STA. 6+38.72, LINE 4
MATCH POINT
Proposed Concrete Sidewalk
175.00 L.F. 15" PVC PIPE
Proposed A.C. Pavement
STA. 0+00, LINE 4
BEGIN 15" RCP STORM WATER SEWER.
INSTALL FLARED END SECTION
FL OUT = 1346.00
N=22,434.80 E=18,759.81
463.72 L.F. 15" RCP
INSTALL 16 s.y. HEAVY STONE RIP-RAP
STA. 4+63.72, LINE 4
CONSTRUCT STANDARD SHALLOW MANHOLE.
TOP = 1360.01
N=22,108.25 E=18,430.57
STA. 7+54.08, LINE 4
CONSTRUCT STANDARD SHALLOW MANHOLE.
TOP = 1363.95
N=21,902.93 E=18,635.89
115.36 L.F. 15" PVC PIPE
STA. 9+30.74, LINE 4
CONSTRUCT STANDARD SHALLOW MANHOLE.
TOP = 1362.75
N=21,726.27 E=18,536.13
176.66 L.F. 15" PVC PIPE
Proposed 6" Sanitary Sewer (See Mechanical Plans)
Proposed 8" Fireline and 4" Domestic Water (See Private Project #______)
75.10 L.F. 15" PVC PIPE
STA. 10+05.84, LINE 4
CONSTRUCT 'SPECIAL' SHALLOW MANHOLE.
TOP = 1362.39
N=21,651.17 E=18,636.13
LINE 4
FINISHED GROUND
EXIST. GROUND
463.72 L.F. 15" RCP @ 1.70%
290.36 L.F. 15" PVC PIPE @ 0.99%
176.66 L.F. 15" PVC PIPE @ 0.61%
75.10 L.F. 15" PVC PIPE @ 0.51%
Proposed 8" Fireline TP=1356.50 +/-
Proposed 4" Domestic TP=1356.70 +/-
Proposed 6" SS FL=1352.51 +/-
1360
1355
1350
1345
1340
FL = 1346.00
FL = 1347.70
FL = 1349.41
FL = 1351.11
FL = 1352.81
FL OUT (NE) = 1353.90
FL IN (SE) = 1354.00
FL = 1354.36
FL = 1355.35
FL = 1356.34
FL OUT (NW) = 1356.87
FL IN (S) = 1356.97
FL IN (N) 10" = 1358.59
FL IN (SE) 10" = 1358.17
FL = 1357.05
FL = 1357.86
FL OUT (N) = 1358.04
FL IN (S) = 1358.12
FL IN (E) 10" = 1358.69
FL IN (SE) 10" = 1358.61
FL = 1358.47
FL OUT (N) = 1358.50
FL IN (E) 10" = 1358.60
0+00
1+00
2+00
3+00
4+00
4+63.72
5+00
6+00
7+00
7+54.08
8+00
9+00
9+30.74
10+00
10+05.84
STORM WATER SEWER SYSTEM TO SERVE
CENTRAL MAIZE MIDDLE SCHOOL
WICHITA, KANSAS
SRB
924 NORTH MAIN
WICHITA, KANSAS 67203
http://www.srb1.com
316-264-8008
FAX 264-4621
E-Mail: srb@srb1.com
SAVOY, RUGGLES & BOHM, P.A.
ENGINEERING & SURVEYING
PROJECT NUMBER
1183 PPS
DESIGN MWS
DRAWN TEB
DATE Nov. 13, 2001
SHEET 4
OF 7


CENTRAL MAIZE MIDDLE SCHOOL
UNIFIED SCHOOL DISTRICT 266
MAIZE, KANSAS
SCHAEFER JOHNSON COX FREY & ASSOCIATES PA
SAVOY, RUGGLES & BOHM, P.A.
37TH STREET
TYLER ROAD
2639.50'
S. 00°35'33" W.
2628.17'
S. 89°55'26" W.
(BASIS OF BEARINGS)
N. 90°00'00" E.
2629.36'
S. EDGE GRAVEL ROAD
ALT. PARKING
FUTURE TENNIS COMPLEX
DETENTION POND
POND #1
Max. W.S. Elev. = 45.29
POND #2
Max. W.S. El. = 42.67
S.E. COR., N.E. 1/4,
SEC. 32
BM
GENERAL NOTES
KEYED NOTES
SITE PLAN
REVISION DATE
31 AUGUST 2001
PROJECT NO.
27312.1
DATE
14 AUGUST 2001
C2.01R
© 2001, SCHAEFER JOHNSON COX FREY & ASSOCIATES PA

CENTRAL MAIZE MIDDLE SCHOOL
SITE PLAN / GRADING PLAN
WICHITA, KANSAS

SRB

924 NORTH MAIN
WICHITA, KANSAS 67203
www.srb1.com

316-264-8008
FAX 264-4621
E-mail: srb@srb1.com

SAVOY, RUGGLES & BOHM, P. A.
ENGINEERING & SURVEYING

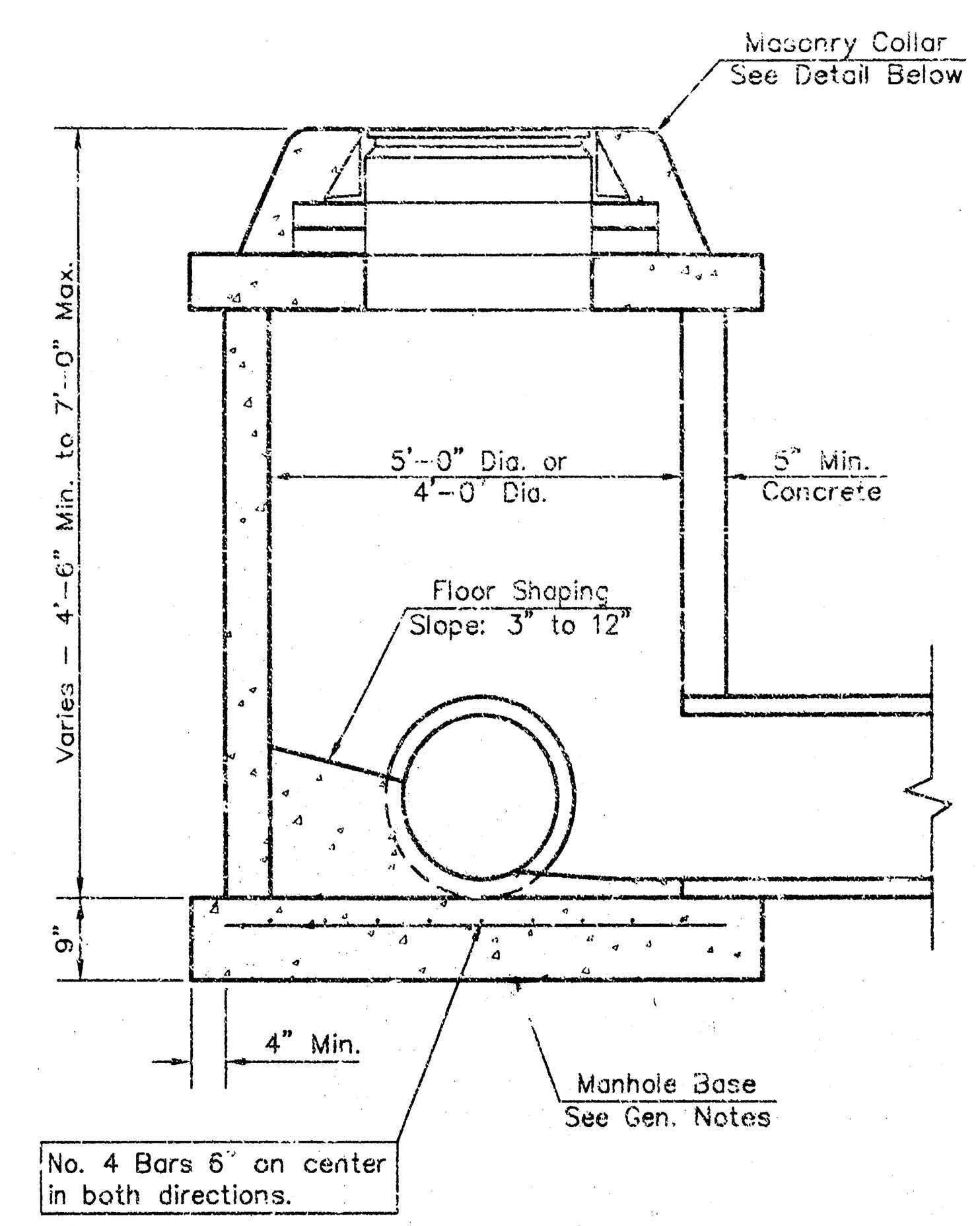
PROJECT NUMBER
1183 PPS

DESIGN	DRAWN	UTILITY	REVIEW	DATE	REVISED
MWS	TEB			Nov. 13, 2001	

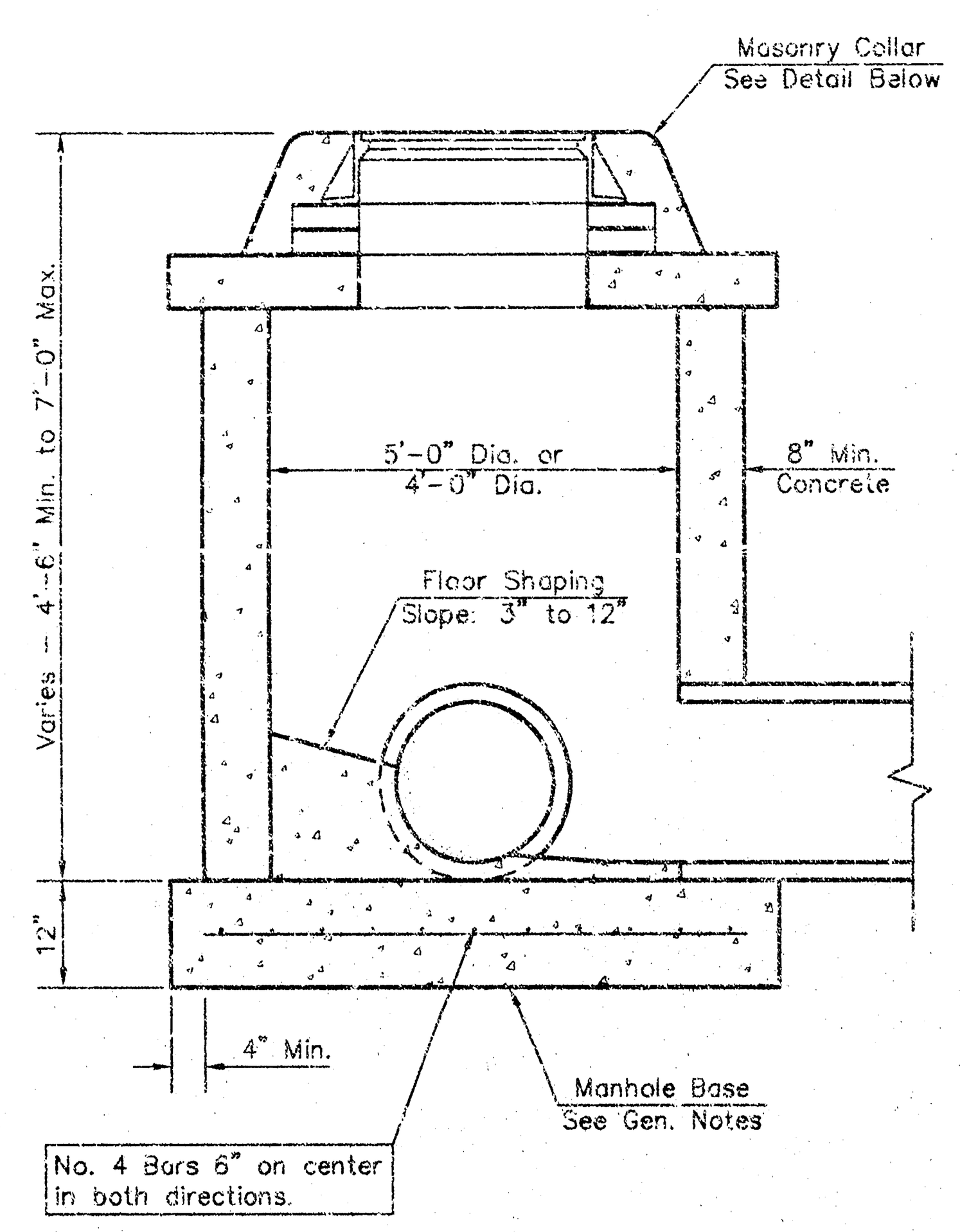
DWG FILE school_contour

SRB JOB 1967E

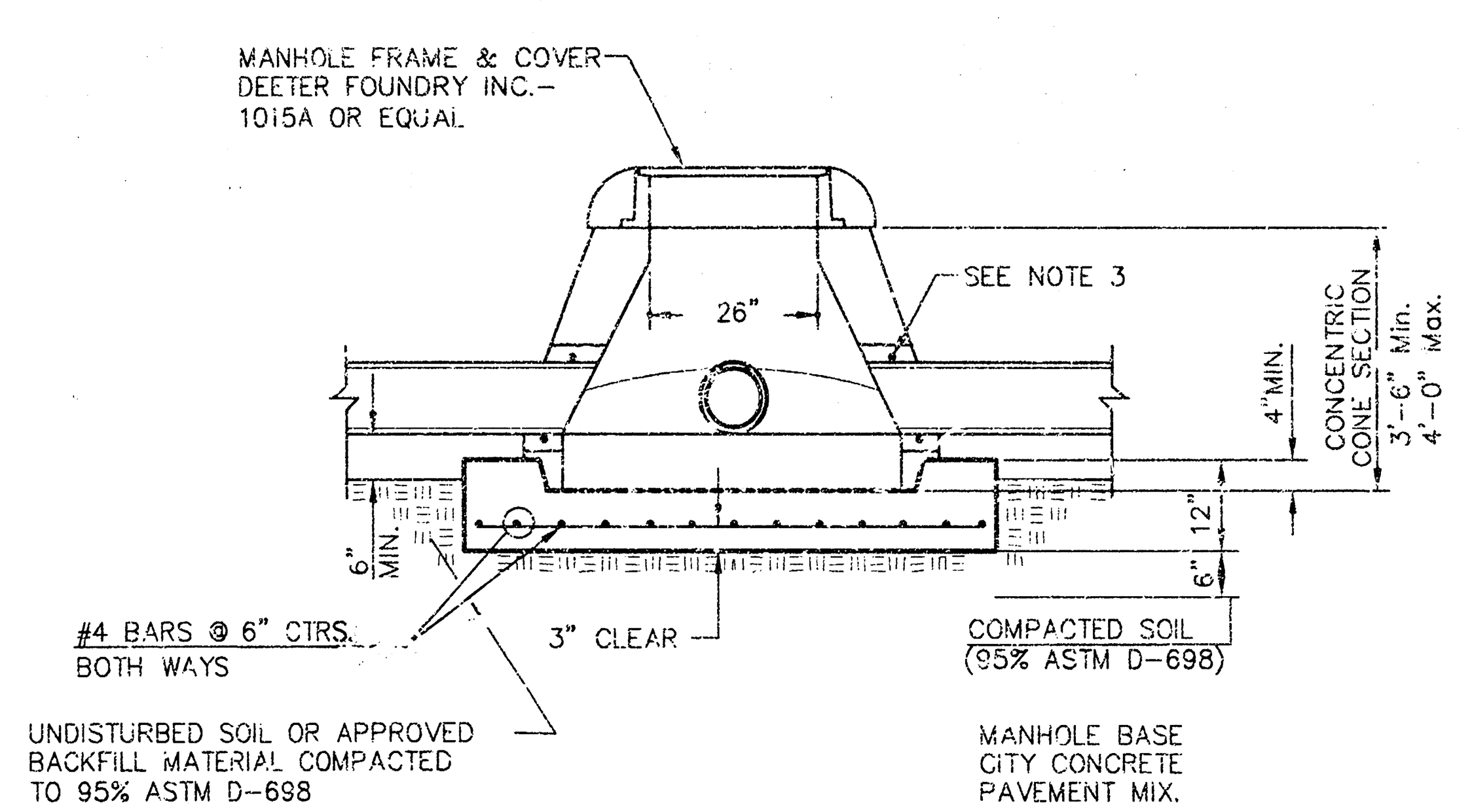
SHEET 4A OF 7



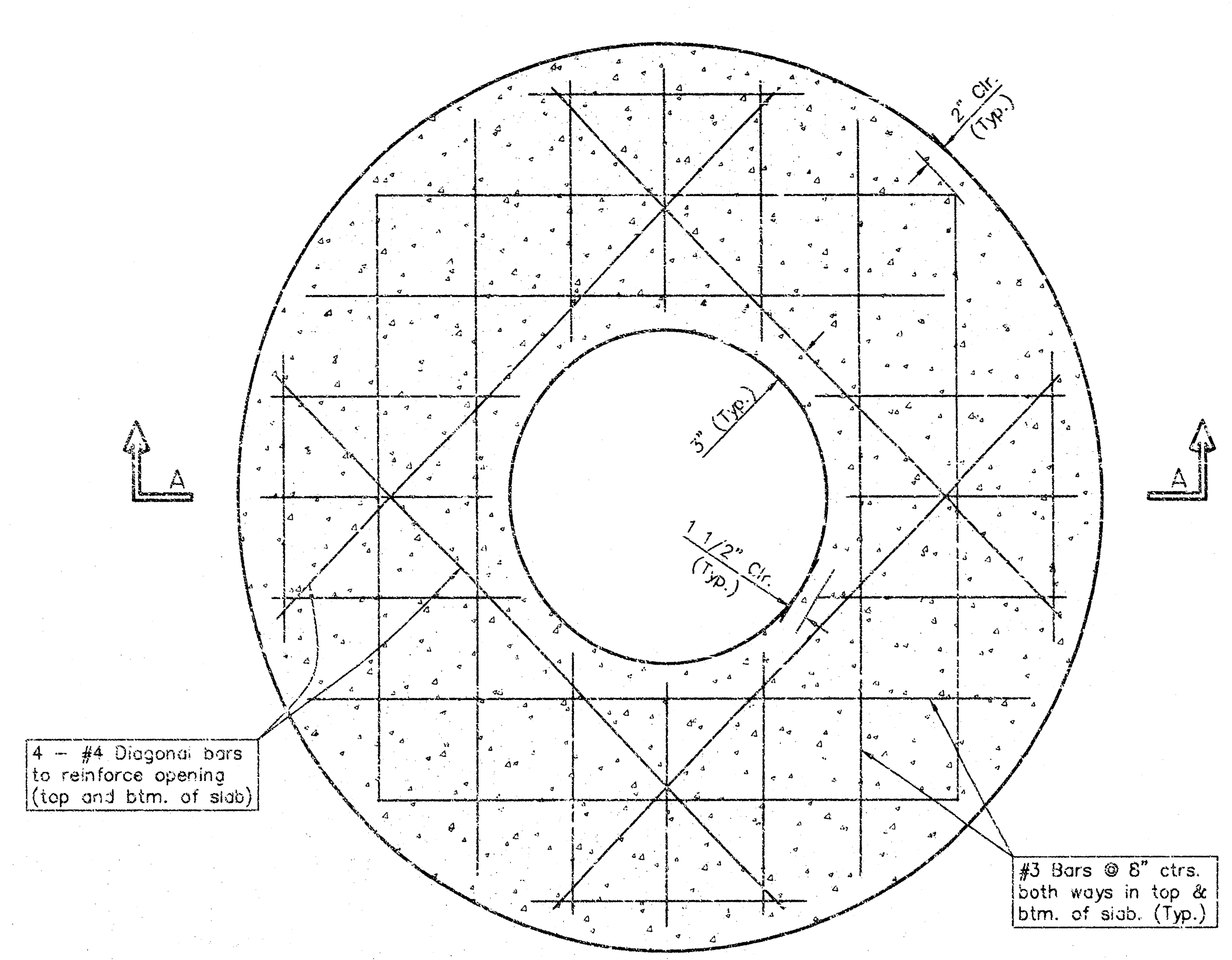
SHALLOW TYPE "P" MANHOLE



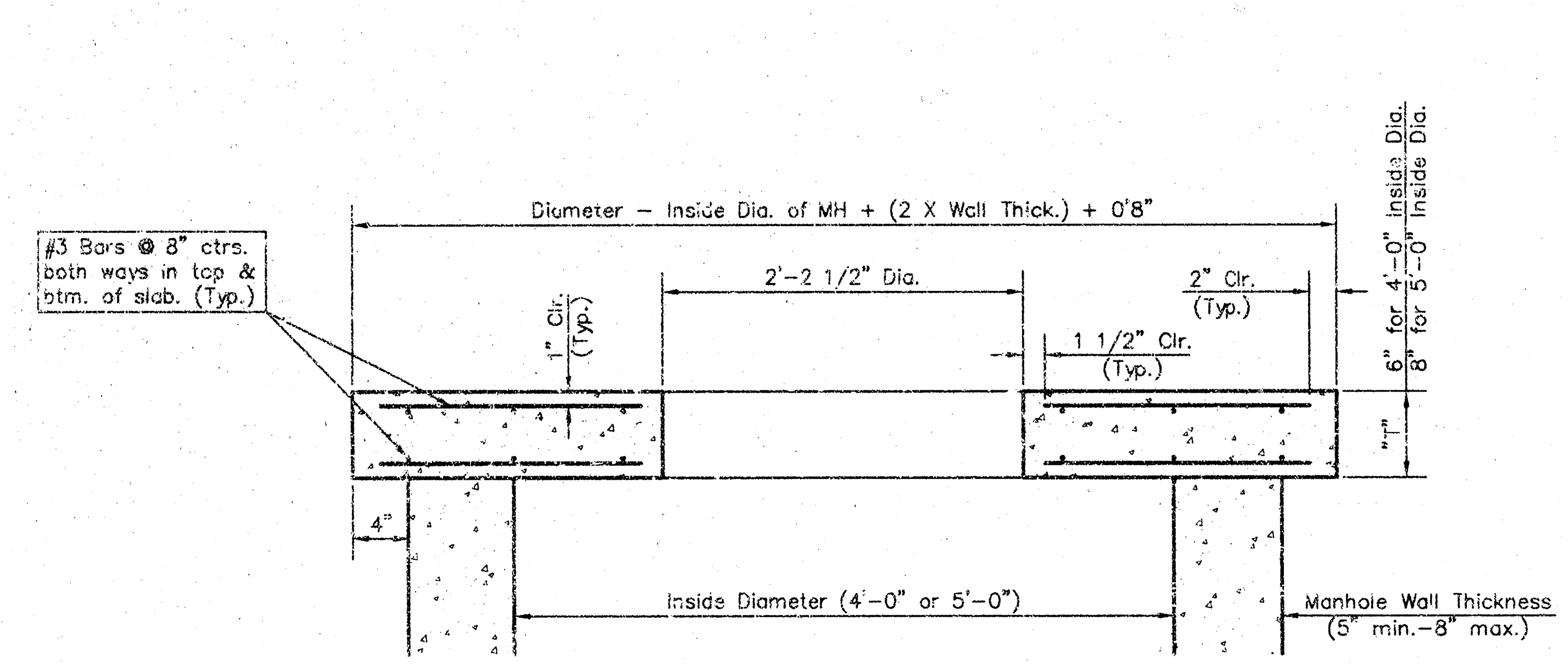
SHALLOW TYPE "C" MANHOLE



SPECIAL SHALLOW TYPE "P" MANHOLE

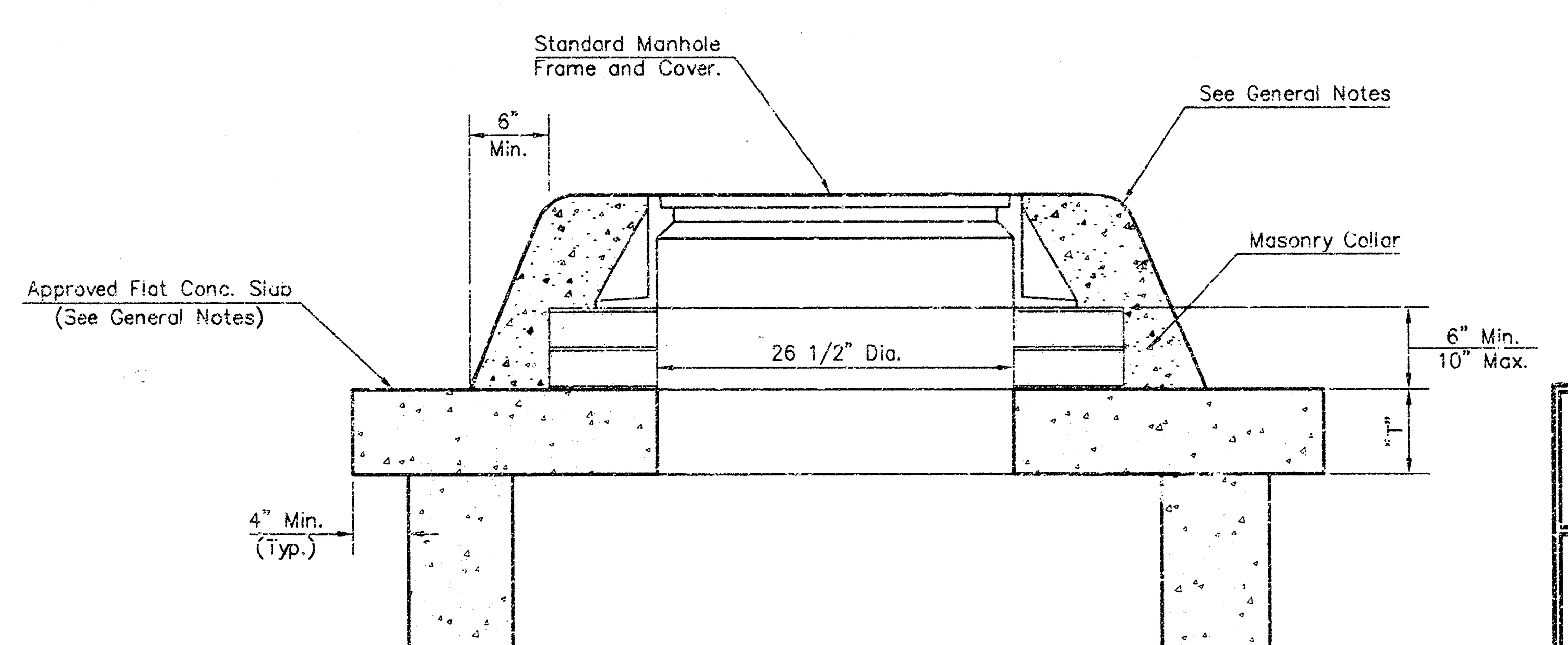


PLAN



SECTION A-A

FLAT CONCRETE SLAB DETAILS



MASONRY COLLAR DETAIL

GENERAL NOTES

1. Mortar used in masonry construction shall contain 8 sacks of cement per cubic yard. Concrete used in manhole bases shall conform to the requirements of concrete for concrete pavement construction as specified in the city standard paving specifications using city concrete cement mix without air entraining admixture. Mortar shall be placed around the manhole ring as shown on the drawings when manholes are constructed in unpaved areas. Manholes constructed where pipe sizes are smaller than 24" shall have an inside diameter of 4'. Manholes constructed where pipe sizes are 24" or larger shall have an inside diameter of 5'. Completed manhole shall be without leaks and water tight.
2. Reinforcing steel shall be installed in the manhole bases and shall consist of no. 4 bars placed on 6" centers in both directions. The manhole base reinforcement shall be placed 6" above the bottom of the manhole base. All costs for furnishing and installing reinforcing steel shall be included in the unit price bid for the manhole.
3. The floors of all manholes shall be shaped with flow channels such that the manholes will be self cleaning and free of areas where solids could be deposited as sewage flows through the manhole from all inlet pipes to the outlet pipe. Flow channels shall be formed to match the bottom halves of the inflowing pipes and the outflowing pipe as shown by the drawings. Manhole floors shall have slopes of 3 inches per foot in the areas outside of the flow channels sloped toward the flow channels. Pipes laid through manholes shall have the top half removed to neat lines for the full inside diameter of the manhole. Manhole floors shall then be shaped around the bottom half of the pipe which forms the flow channel.
4. Pipes installed within the excavation made for the manhole shall be cradled with concrete to the limits of the manhole excavation. When clay pipe is used, the cradle shall extend to the first joint outside the manhole. The cradle shall be terminated at the clay pipe joint in a manner which will maintain the flexibility of the joint. Cost of cradle within manhole excavation or to clay pipe joints adjacent to manhole shall be included in the unit price bid for the manhole.
5. Manhole cover castings and manhole frame castings shall conform to the requirements as indicated in the standard specifications and as shown in the standard detail drawings.
6. The crowns of inflowing pipes shall never be set lower than the crown of the outflowing pipe.
7. Standard shallow manholes type "P" and "C" shall be paid for at the unit price bid per each for the type and diameter indicated. All standard shallow manhole diameters will be 4' unless indicated otherwise.
8. All brick used in manhole construction shall meet Grade SW of ASTM C652 or C62-87.

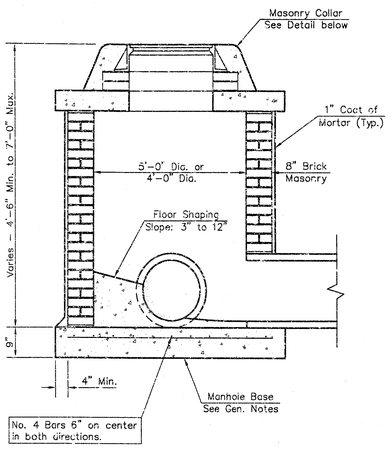
CENTRAL MAIZE MIDDLE SCHOOL
STANDARD / SPECIAL SHALLOW MANHOLES
TYPE 'P' AND 'C'

SRB
924 NORTH MAIN
WICHITA, KANSAS 67203
www.srb1.com
316-264-8008
FAX 264-4621
E-mail: srb@srb1.com
SAVOY, RUGGLES & BOHM, P. A.
ENGINEERING & SURVEYING

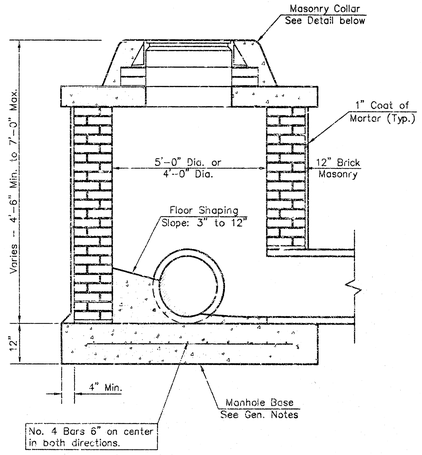
PROJECT NUMBER
1183 PPS

DESIGN	DRAWN	UTILITY	REVIEW	DATE	REVISED
.	.	.		Nov 15, 2001	.

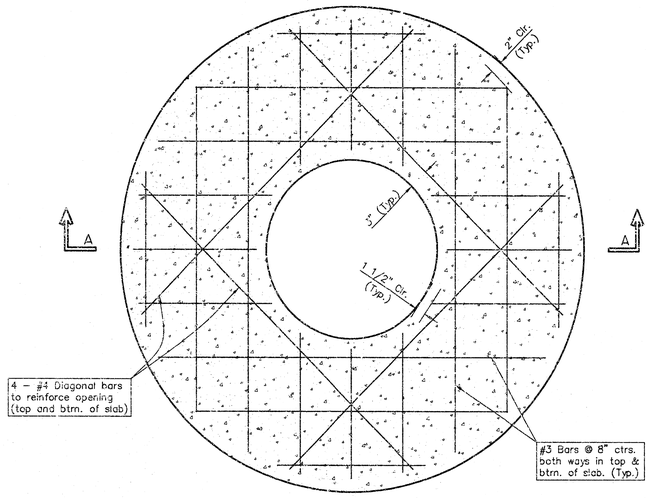
DWG FILE Shallow Type P and C Manhole
SRB JOB 1967E
SHEET 5 OF 7



SHALLOW TYPE "A" MANHOLE



SHALLOW TYPE "B" MANHOLE



PLAN

GENERAL NOTES

1. Mortar used in masonry construction shall contain 8 sacks of cement per cubic yard. Concrete used in manhole bases shall conform to the requirements of concrete for concrete pavement construction as specified in the city standard paving specifications using city concrete cement mix without air entraining admixture. Mortar shall be placed around the manhole ring as shown on the drawings when manholes are constructed in unpaved areas. Type "A" shallow manholes can be used on sewers when the manhole is not located within public street pavement. Manholes constructed where pipe sizes are smaller than 24" shall have an inside diameter of 4'. Manholes constructed where pipe sizes are 24" or larger shall have an inside diameter of 5'. Completed manhole shall be without leaks and water tight.

2. Reinforcing steel shall be installed in the manhole bases and shall consist of no. 4 bars placed on 6" centers in both directions. The manhole base reinforcement shall be placed 6" above the bottom of the manhole base. All costs for furnishing and installing reinforcing steel shall be included in the unit price bid for the manhole.

3. The floors of all manholes shall be shaped with flow channels such that the manholes will be self cleaning and free of areas where solids could be deposited as sewage flows through the manhole from all inlet pipes to the outlet pipe. Flow channels shall be formed to match the bottom halves of the inflowing pipes and the outflowing pipe as shown by the drawings. Manhole floors shall have slopes of 3 inches per foot in the areas outside of the flow channels sloped toward the flow channels. Pipes laid through manholes shall have the top half removed to neat lines for the full inside diameter of the manhole. Manhole floors shall then be shaped around the bottom half of the pipe which forms the flow channel.

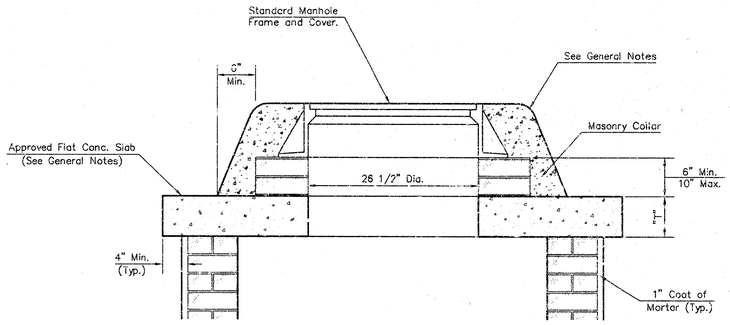
4. Pipes installed within the excavation made for the manhole shall be cradled with concrete to the limits of the manhole excavation. When clay pipe is used, the cradle shall extend to the first joint outside the manhole. The cradle shall be terminated at the clay pipe joint in a manner which will maintain the flexibility of the joint. Cost of cradle within manhole excavation or to clay pipe joints adjacent to manhole shall be included in the unit price bid for the manhole.

5. Manhole cover castings and manhole frame castings shall conform to the requirements as indicated in the standard specifications and as shown in the standard detail drawings.

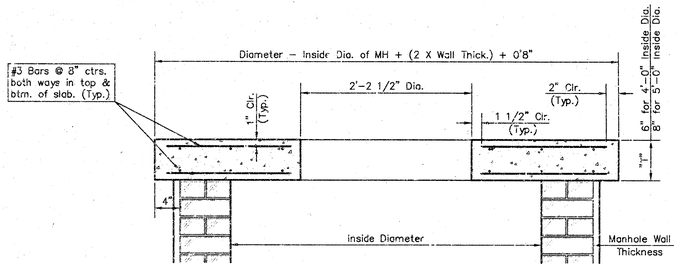
6. The crowns of inflowing pipes shall never be set lower than the crown of the outflowing pipe.

7. Standard shallow manholes type "A" and "B" shall be paid for at the unit price bid per each for the type and diameter indicated. Standard special shallow manholes type "A" and "B" shall be paid for at the unit price bid per each for the type indicated. All standard shallow manhole diameters will be 4' unless indicated otherwise.

8. All brick used in manhole construction shall meet Grade SW of ASTM C652 or C62-87.

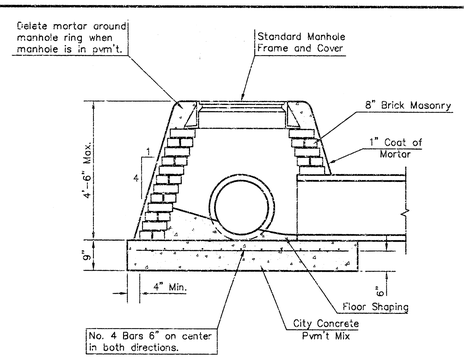


MASONRY COLLAR DETAIL

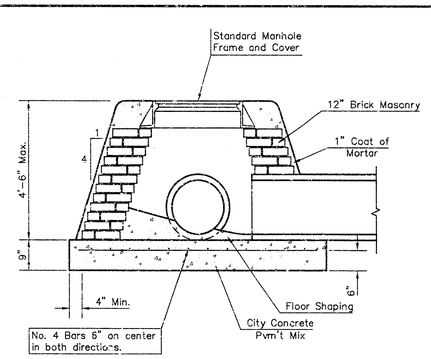


SECTION A-A

FLAT CONCRETE SLAB DETAILS



SPECIAL SHALLOW TYPE "A" MANHOLE



SPECIAL SHALLOW TYPE "B" MANHOLE

THE CITY OF WICHITA
CITY ENGINEER'S OFFICE
CITY HALL - SEVENTH FLOOR
455 NORTH MAIN STREET
WICHITA, KANSAS 67202
(316) 268-4500
(316) 268-4114 FAX

STANDARD / SPECIAL SHALLOW MANHOLES TYPE 'A' AND 'B'

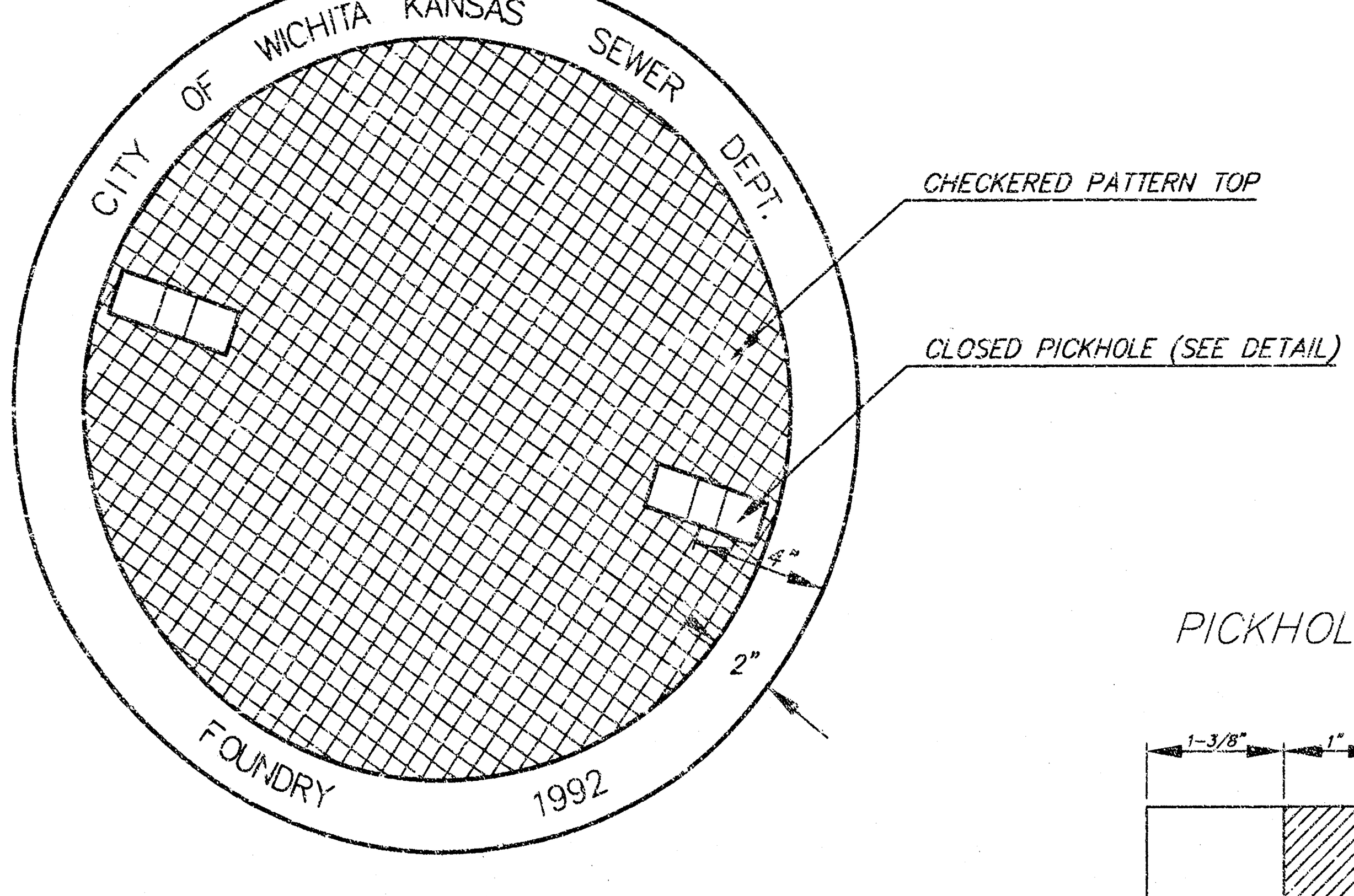
M. E. LINDEBAK P.E. - CITY ENGINEER

PROJECT NUMBER	OCA #
1183 PPS	607861
DATE: MAR 96	SHEET 6 OF 7

MANHOLE FRAME AND COVER DETAIL

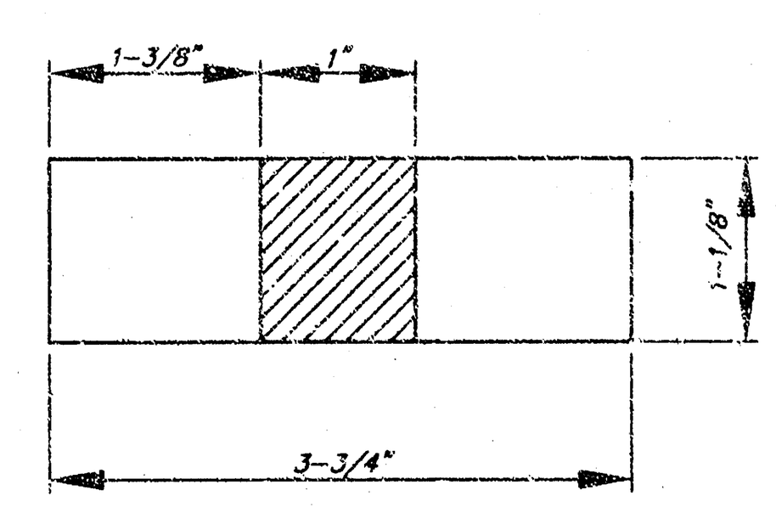
ADOPTED AS STANDARD DESIGN BY
CITY OF WICHITA, KANSAS

MANHOLE COVER
Weight = 180 Lbs.

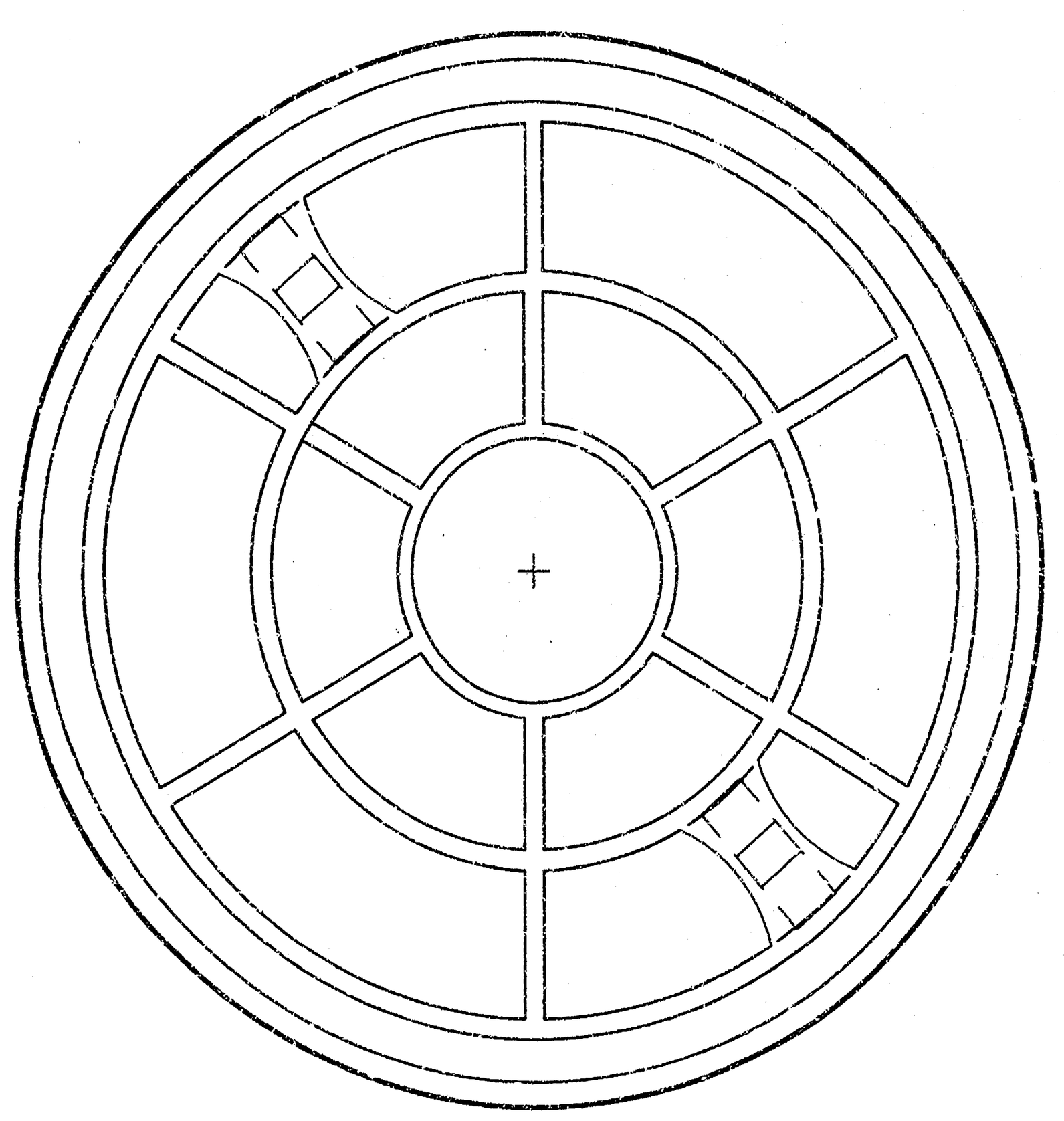


TOP VIEW

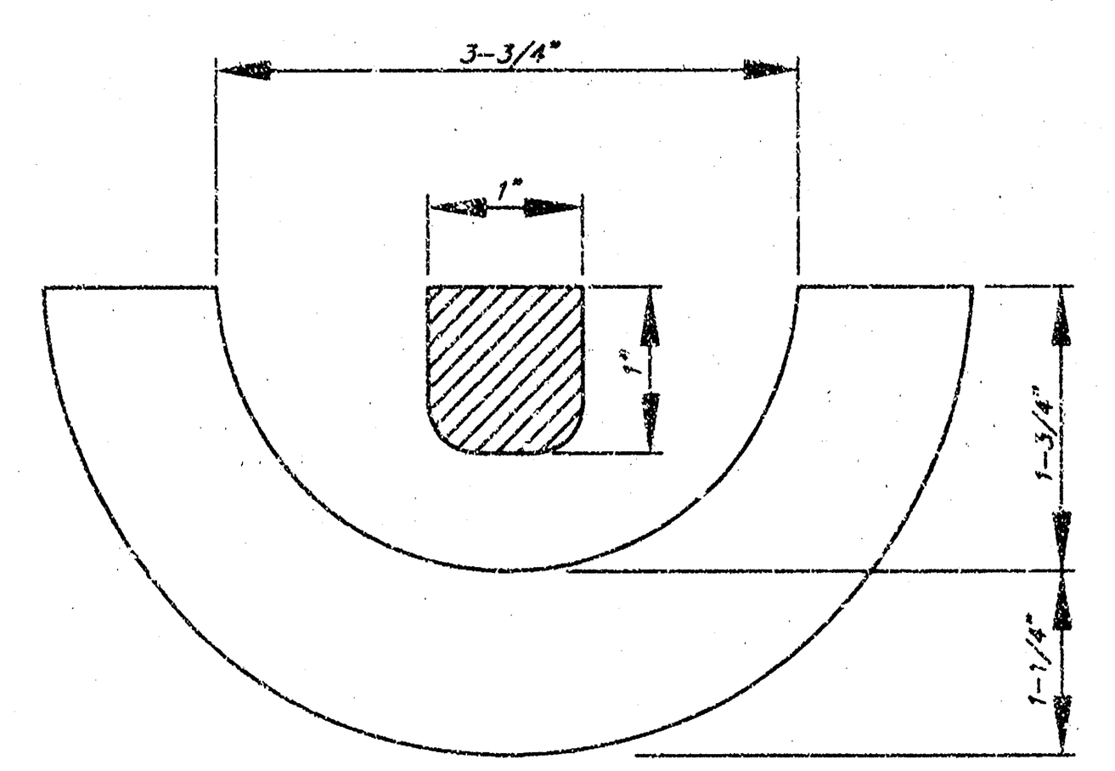
PICKHOLE DETAIL



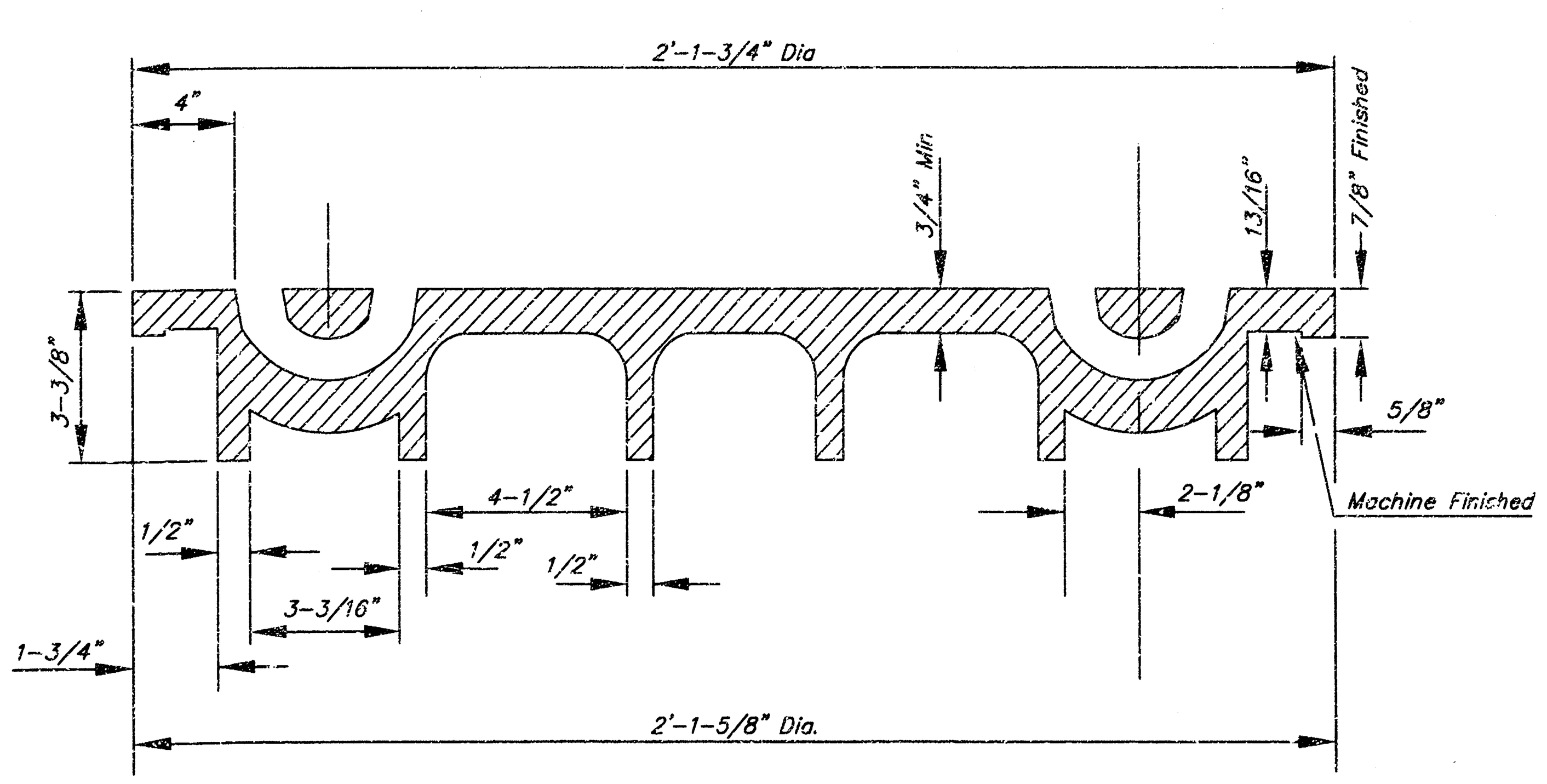
TOP VIEW



BOTTOM VIEW

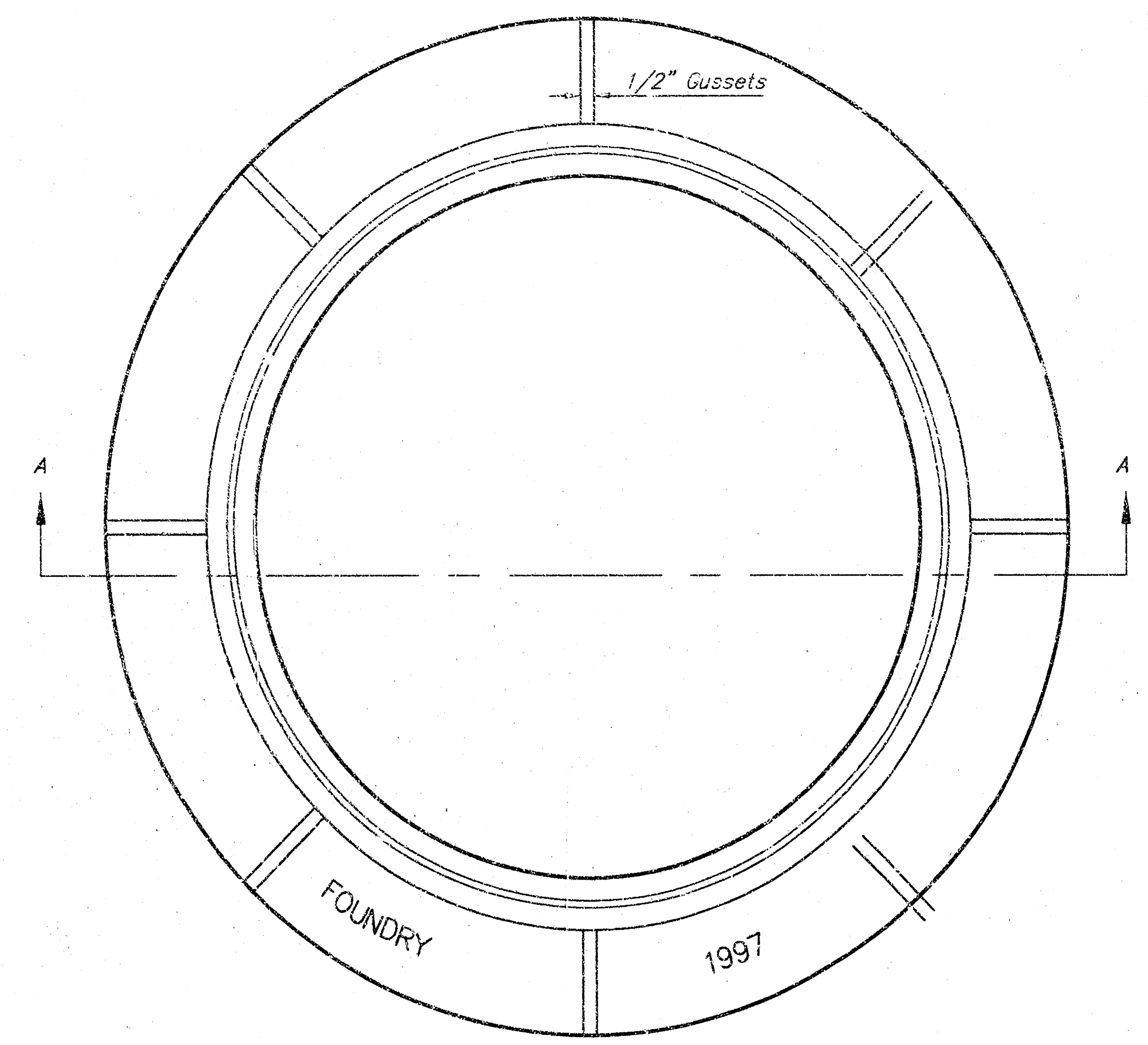


SECTION VIEW

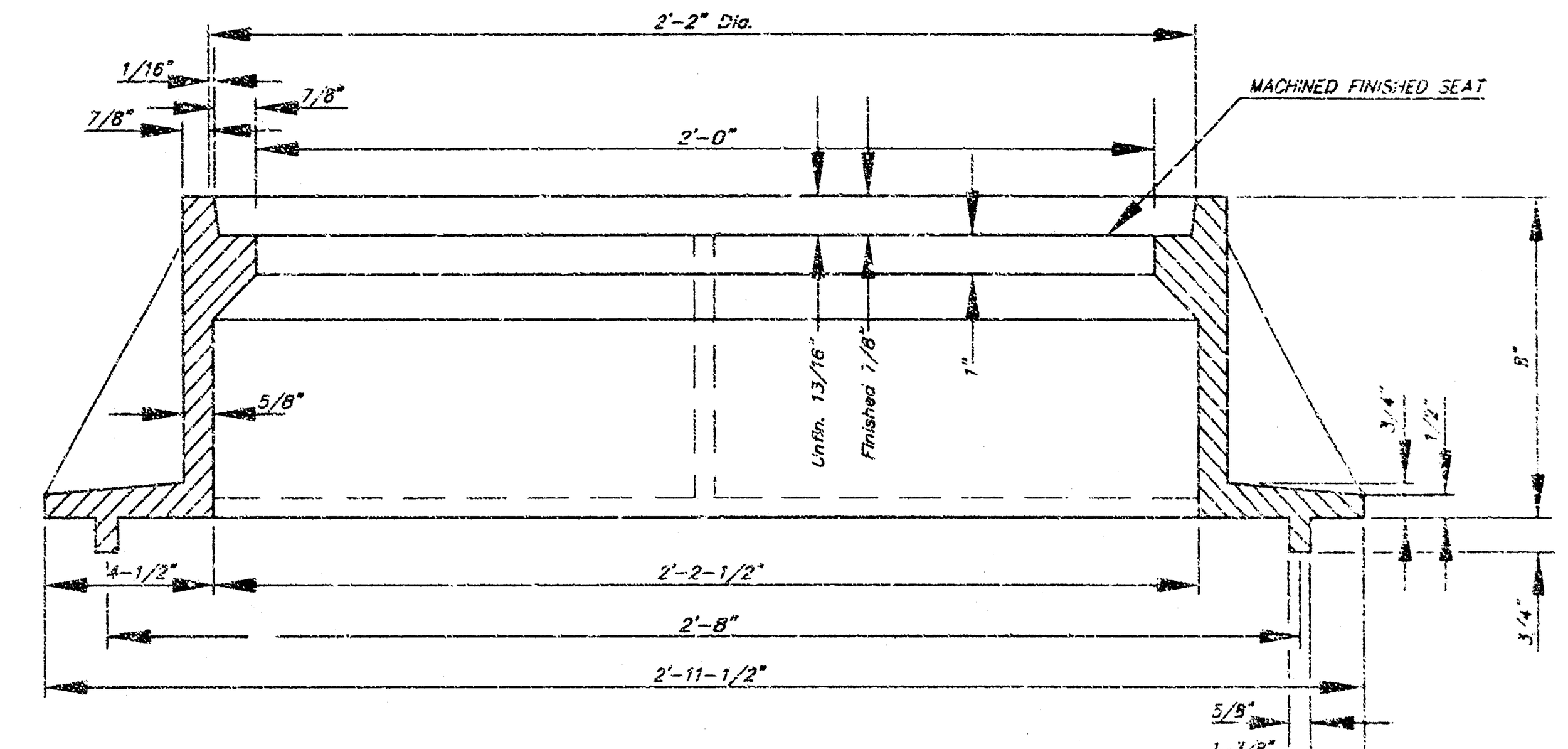


SECTION VIEW

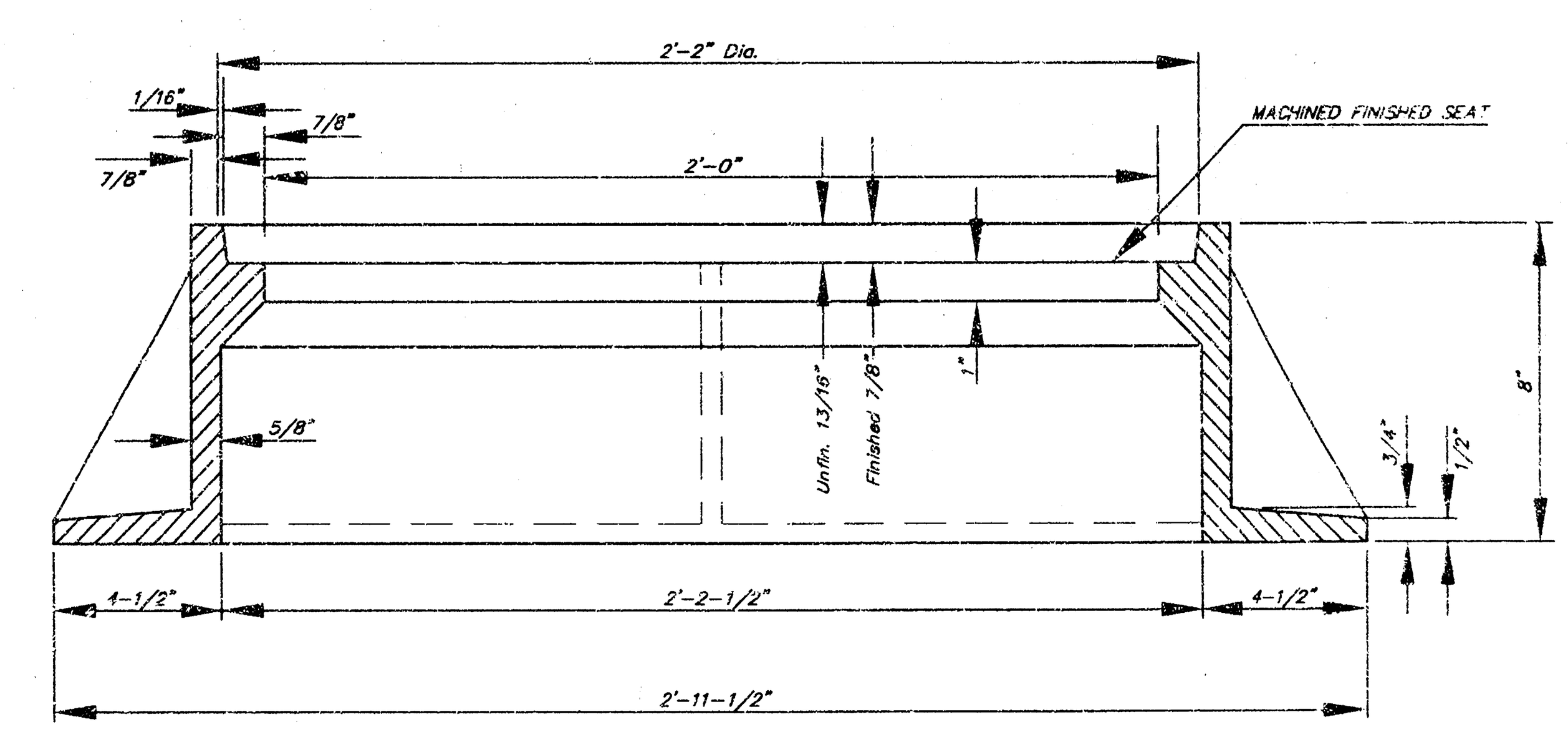
MANHOLE FRAME
Weight = 240 Lbs.



TOP VIEW



SECTION A–A
MUD RING



SECTION A–A

GENERAL NOTES

1. MANHOLE CASTINGS SHALL BE MANUFACTURED USING GOOD QUALITY GRAY IRON CONFORMING TO CLASS 30 OF A.S.T.M. DESIGNATION A–48. DIMENSIONS AND WEIGHTS SHOWN ON THE DETAILED DRAWINGS SHALL BE CONSIDERED AS MINIMUM REQUIREMENTS AND ANY DEVIATIONS FROM THE DIMENSIONS SHOWN MUST BE SPECIFICALLY APPROVED. THE FINISHED CASTINGS SHALL BE OF UNIFORM QUALITY, FREE FROM BLOWHOLES, POROSITY, HARD SPOTS, SHRINKAGE DISTORTIONS OR OTHER DEFECTS.

2. MANHOLE CASTINGS SHALL WEIGH A MINIMUM OF 180 POUNDS ON THE SOLID COVER AND 240 POUNDS ON THE MANHOLE RING. THIS IS A TOTAL OF 420 POUNDS ON A RING AND COVER SET. CASTINGS WEIGHING LESS THAN THE MINIMUM SPECIFICATIONS WILL NOT BE ACCEPTED.

3. MANHOLE CASTINGS SHALL BE MANUFACTURED SUCH THAT A COVER MANUFACTURED BY ANY ONE FOUNDARY WILL FIT INTERCHANGEABLY INTO A FRAME MANUFACTURED BY ANOTHER FOUNDRY AND STILL MEET ALLOWABLE CLEARANCES AND NON–ROCKING REQUIREMENTS. THIS WILL REQUIRE MANUFACTURING OF THE MATCHING FACES ON THE COVER AND THE FRAME TO CLOSE TOLERANCES.

4. THE OUTSIDE CIRCUMFERENCE OF THE VERTICAL FACE OF THE COVER AND THE INSIDE CIRCUMFERENCE OF THE VERTICAL FACE IN THE FRAME RECESS SHALL BE MANUFACTURED TO TOLERANCES SUCH THAT THE CLEARANCE BETWEEN THE COVER AND FRAME WILL NOT EXCEED 1/8" AT ANY POINT AROUND THE CIRCUMFERENCE OF THE COVER. THE SEATING SURFACES BETWEEN THE COVER AND FRAME SHALL BE MACHINED SUCH THAT THESE SEATING SURFACES SHALL MAKE FULL CONTACT FOR THEIR FULL CIRCUMFERENCE TO PRECLUDE THE COVER FROM ROCKING IN THE FRAME.

5. THE MANHOLE FRAME AND COVER SHALL BE MARKED WITH LETTERING INDICATING THE NAME OF THE MANUFACTURER AND THE YEAR WHEN THE COVER OR FRAME WAS CAST. THE COVER SHALL BE FURTHER IDENTIFIED WITH REGARDS TO OWNERSHIP USING LETTERS AT LEAST 1 INCH IN HEIGHT. THIS IDENTIFICATION SHALL BE "CITY OF WICHITA SEWER DEPARTMENT". THE WORD DEPARTMENT MAY BE ABBREVIATED. THE TEXTURE OF THE TOP SURFACE OF THE COVER SHALL BE MANUFACTURED IN A CHECKERED PATTERN DESIGN AS INDICATED ON THE DRAWINGS. SMOOTH BLOCKOUTS SHALL BE UTILIZED TO HIGHLIGHT THE LETTERING ON THE COVER SURFACE. THE TOTAL AREA OF SMOOTH SURFACE BLOCKOUT SHALL NOT EXCEED THE AREA AS INDICATED ON THE DRAWING. POSITIONING OF SMOOTH BLOCKOUTS AND LETTERING MAY VARY FROM THAT SHOWN ON THE DETAILED DRAWING.

THE CITY OF WICHITA
CITY ENGINEER'S OFFICE
CITY HALL – SEVENTH FLOOR
455 NORTH MAIN STREET
WICHITA, KANSAS 67202
(316) 268-4501
(316) 268-4114 FAX

MANHOLE FRAME AND COVER

M. E. LINDEBAK P.E. – CITY ENGINEER

PROJECT NUMBER	OCA #
1183 PPS	607861

DATE	
MAR 36	SHEET 7 OF 7