

Sanitary Sewer Improvements To Serve
LAKE RIDGE ADDITION
LATERAL 26, MAIN 15
SOUTHWEST INTERCEPTOR SEWER

Project No.

468-76-245-82224-000-000-001

CITY OF WICHITA, KANSAS

Michael E. Lindebak City Engineer

Index

1. COVER SHEET
2. PLAN/PROFILE LINES 1, 1A, 1B & 1C
3. PLAN/PROFILE LINES 2, 2A, 2B & 2C
4. MANHOLE DETAIL
5. CLEANOUT RISER DETAIL
6. EASEMENT GRADING PLAN
7. PLAT OF LAKE RIDGE ADDITION

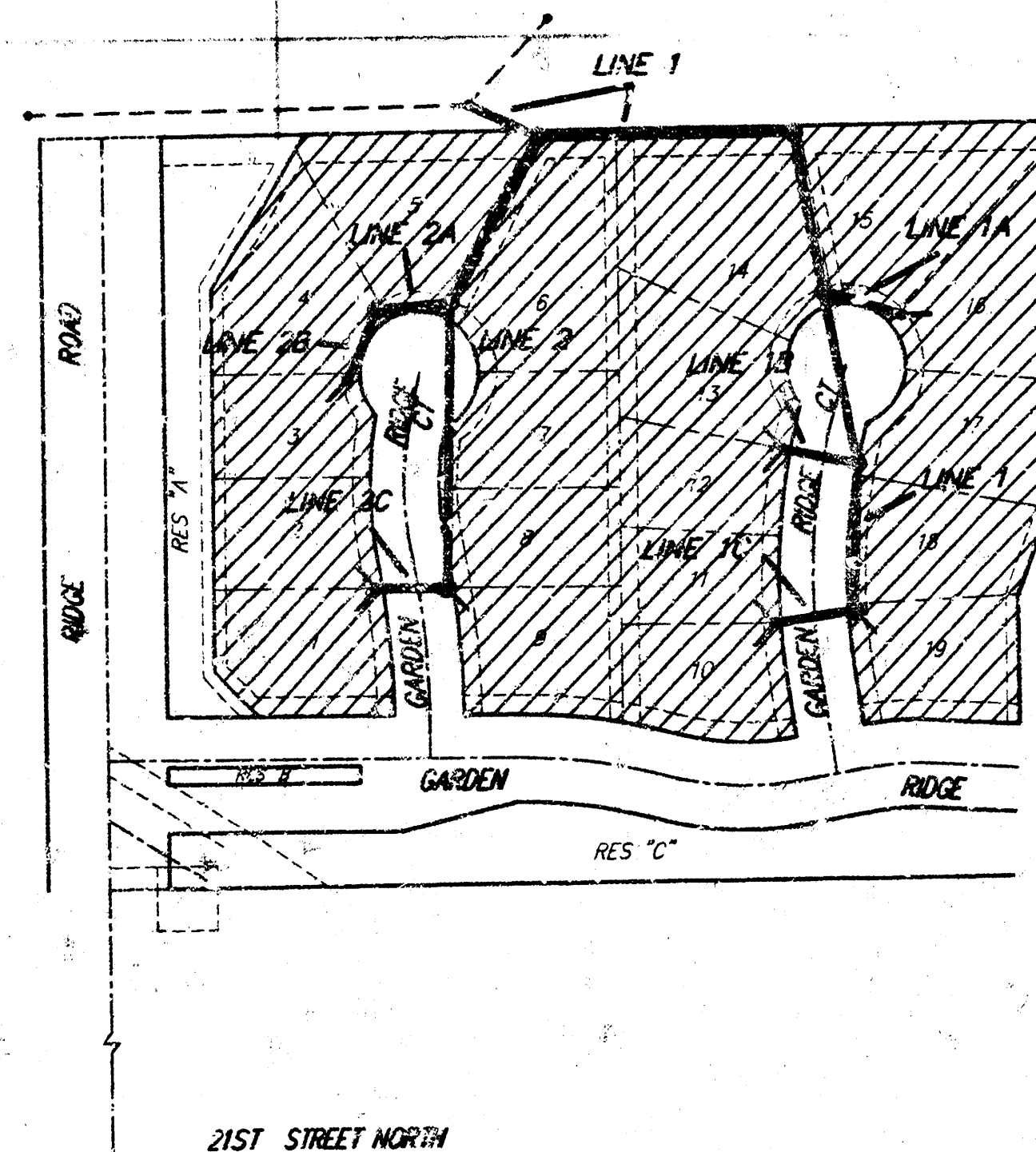


SCALE:
1" = 150'

Index Code: 741181

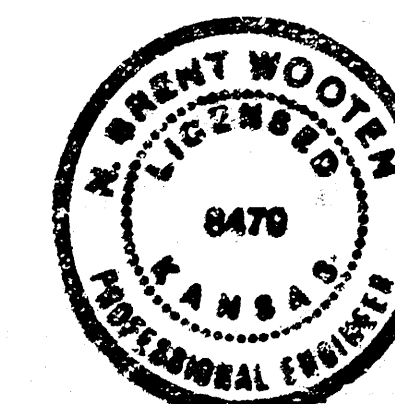
General Notes

1. Underground utility service lines and overhead utility pole lines are to be adjusted as necessary by others prior to construction unless the plans specifically call for their adjustment by the Contractor or unless the plans specifically identify a utility to be adjusted by its owner during construction. Existing utilities and their location, as shown on the plans, represent the best information obtainable for design. The Contractor will be required to work around existing utilities within the right-of-way which do not conflict with proposed construction.
2. The Contractor shall notify pipeline companies at least 24 hours in advance of any work being performed across and/or adjacent to pipelines.
3. Trees and shrubs in public right-of-way which are in direct conflict with proposed new construction shall be removed by the Contractor with the Engineer's approval. Trees and shrubs which are not in direct conflict with proposed new construction shall be saved and protected from damage.
4. The Contractor shall be responsible for maintaining continuous flow of sewage through construction. Contractor's proposed method for maintaining sewage flow shall be approved by the Engineer. Cost of maintaining flow of sewage through construction will not be paid for directly and this cost shall be considered as subsidiary to the other pay items of work.
5. 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.
6. Contractor shall grade the sanitary sewer alignment to the profile and elevations shown on the easement grading plan. All costs for grading shall be paid as lump sum easement grading.
7. Traffic will not be affected by construction on this project.

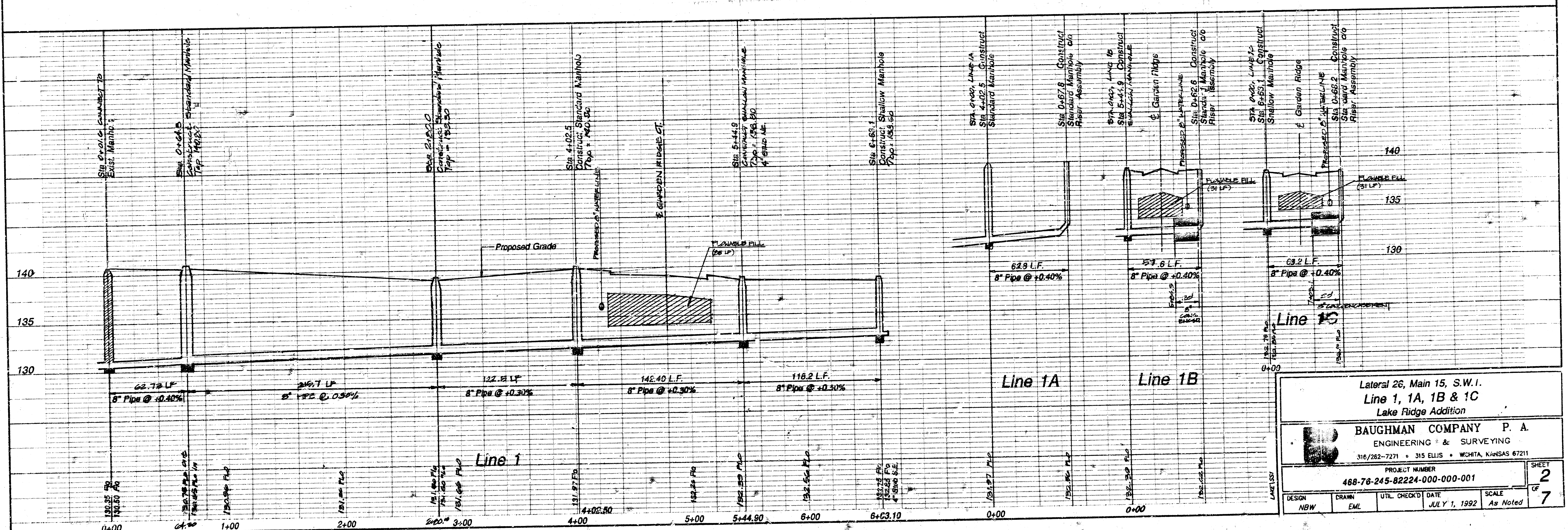
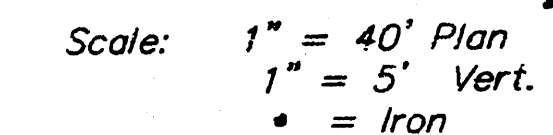


Benefit District

Booked 4-28-93
BY JKB PLAN

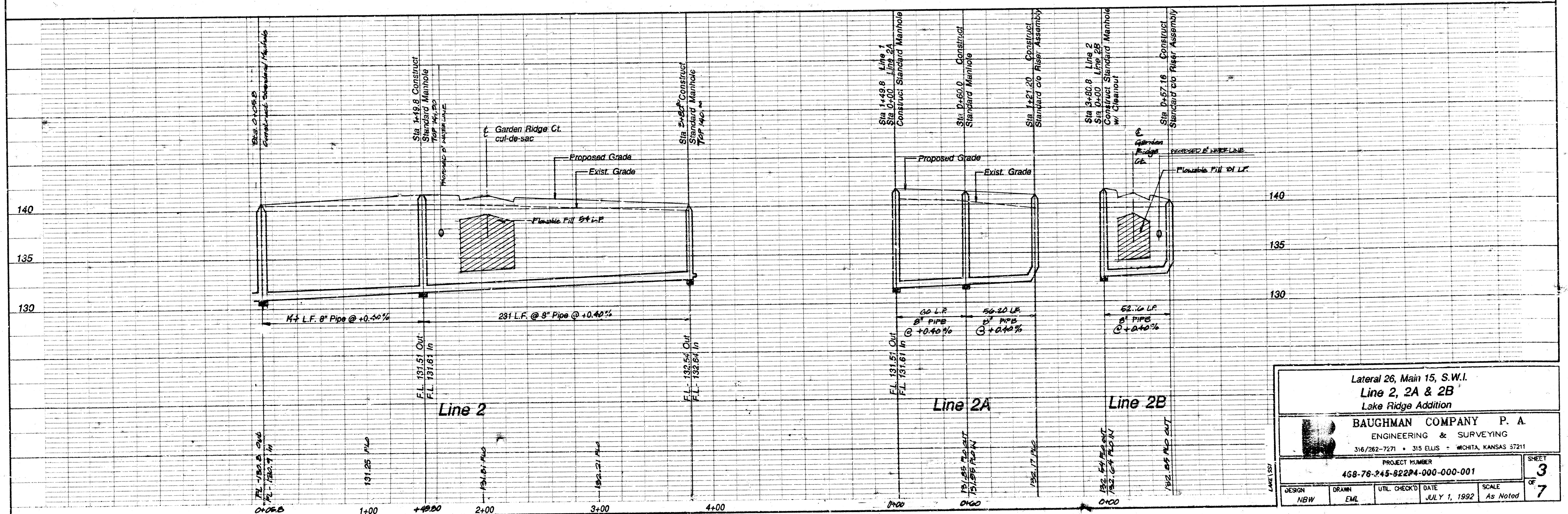
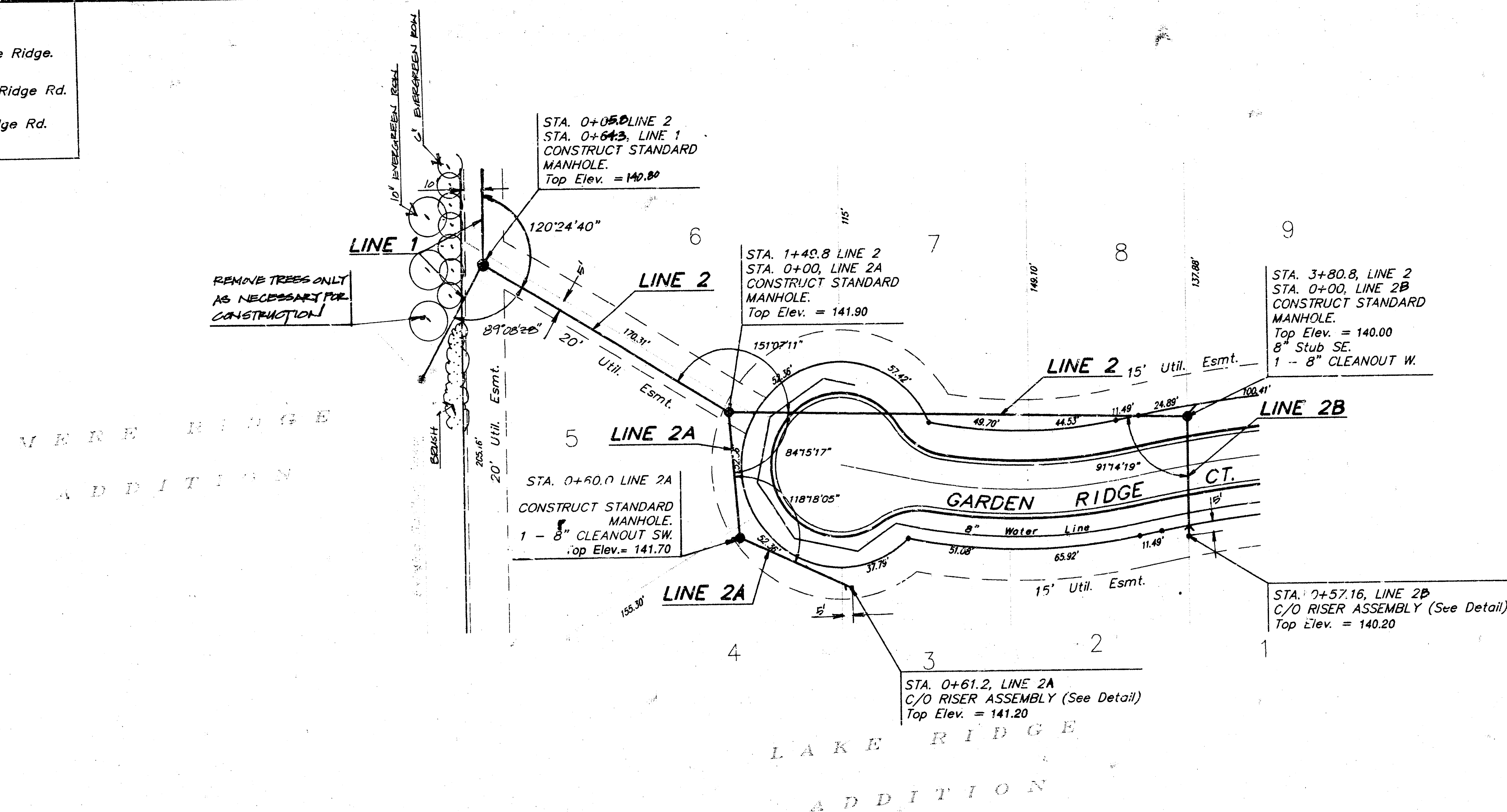


"□" on Top of Curb, SW Corner Lct 17, Blk. 1 Mere Ridge.
Elev. = 137.75
R.R. Spike in Power Pole 75' N. & 58' E @ 21'± N Ridge Rd.
Elev. = 143.30
"□" on Wing Wall NE Corner Bridge 1510'± E @ Ridge Rd.
Elev. = 138.02



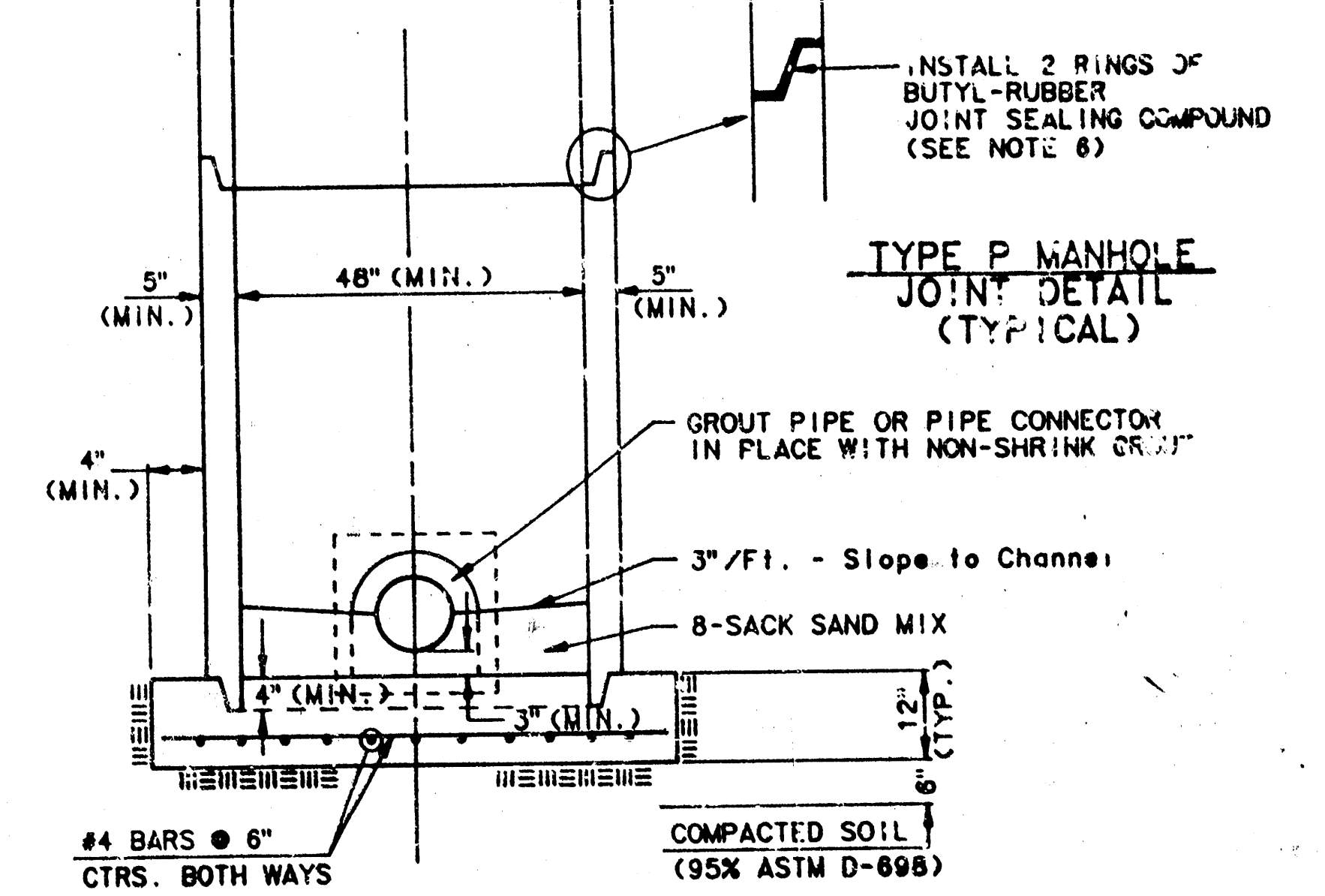
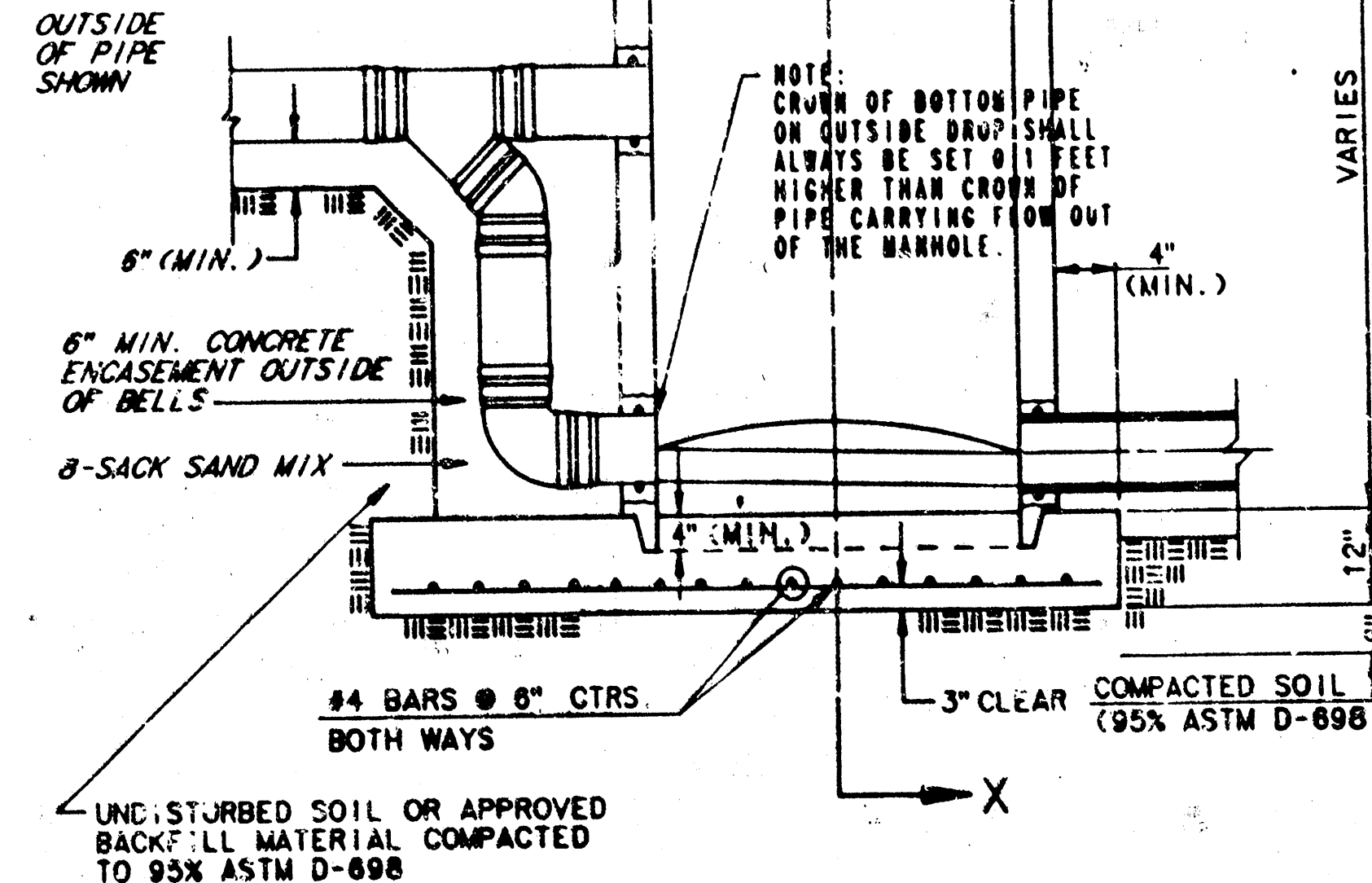
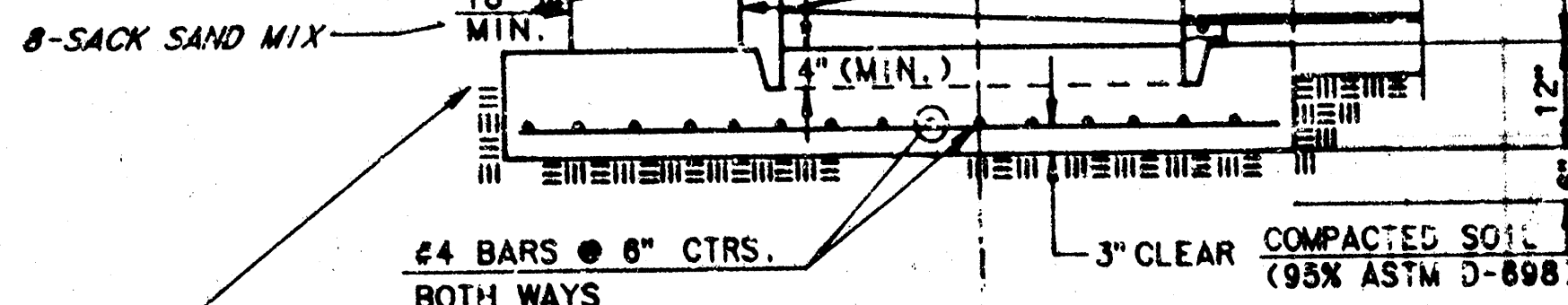
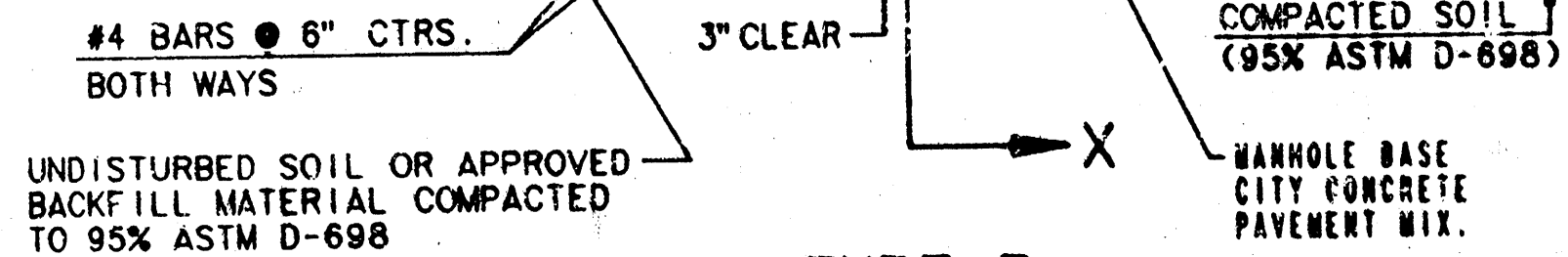
Benchmarks:

"□" on Top of Curb, SW Corner Lot 17, Blk. 1 Mere Ridge.
 Elev. = 137.75
 R.R. Spike in Power Pole 75' N. & 58' E of 21st N Ridge Rd.
 Elev. = 143.30
 "□" on Wing Wall NE Corner Bridge 1510'± E of Ridge Rd.
 Elev. = 138.02



Lateral 26, Main 15, S.W.I. Line 2, 2A & 2B Lake Ridge Addition			
BAUGHMAN COMPANY P. A. ENGINEERING & SURVEYING 316/262-7271 • 315 ELLIS • WICHITA, KANSAS 67211			
PROJECT NUMBER 458-76-245-92224-000-000-001			
DESIGN	DRAWN	DATE	SCALE
NEW	EM	JULY 1, 1992	As Noted
SHEET 3 OF 7			

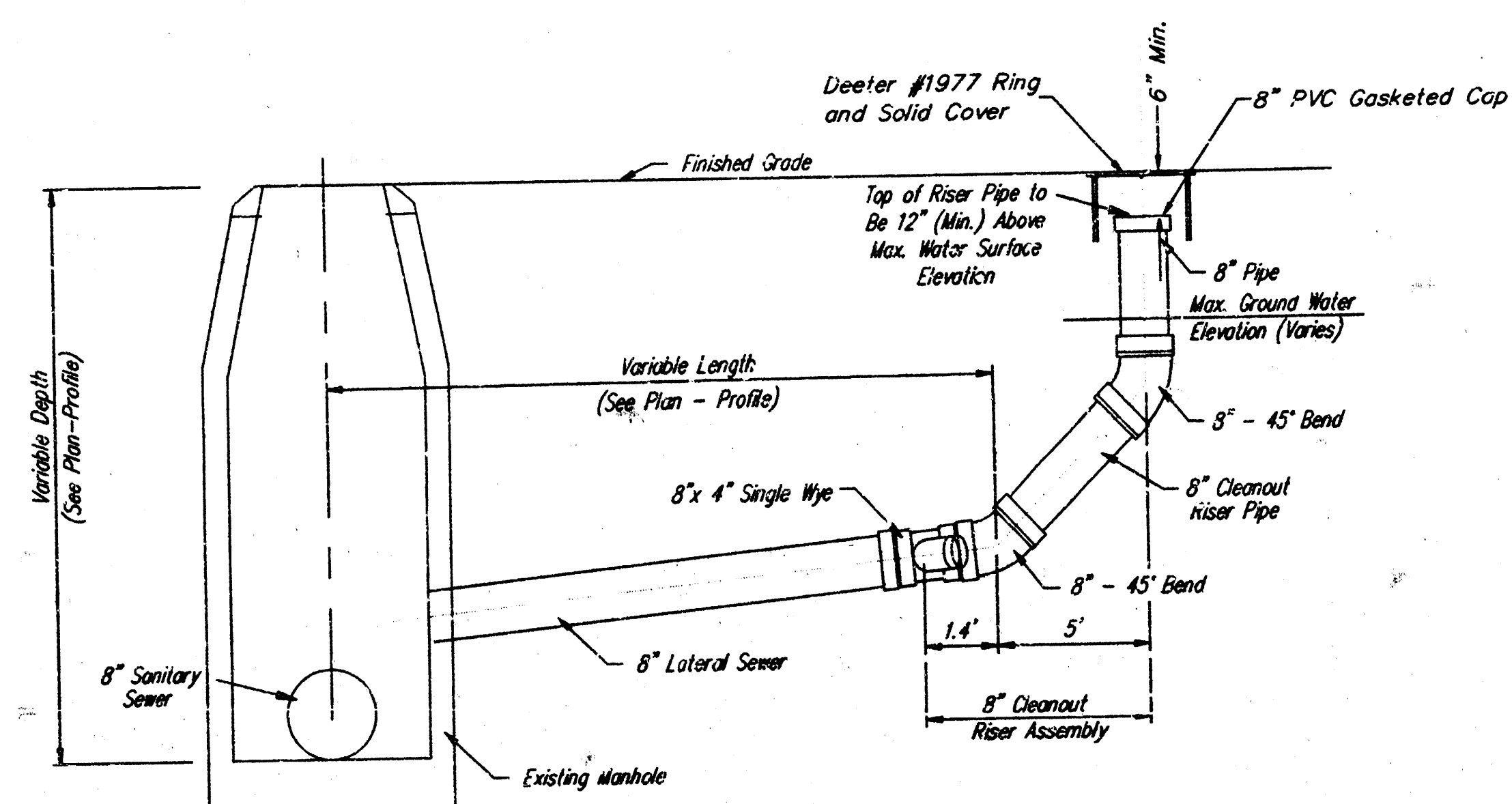
CITY OF WICHITA



1. ALL PRECAST CONCRETE MANHOLE SECTIONS SHALL CONFORM TO THE LATEST REVISION OF A.S.T.M. C478 AS MODIFIED BY THE SPECIFICATIONS.
2. NON-SHRINK GROUT SHALL BE NON-METALLIC TYPE.
3. APPROVED FLEXIBLE WATERSTOP GASKETS SHALL BE INSTALLED TO JOINT THE SEWER TO THE MANHOLE WALL WHEN A.B.S. COMPOUND OR P.V.C. PIPE IS USED. FOR OTHER TYPES OF SEWER PIPE, SEWER SHALL BE GROUTED IN PLACE WITH CONCRETE. SEWER PIPE SHALL BE SUPPORTED WITH COUPLERS AT A MINIMUM OF 3 FEET FROM THE MANHOLE JOINT FOR JOINT JOINT FOR V.C.P. SUCH THAT THE JOINT IS NOT EXPOSED TO THE SEWER FLOW.
4. ALL INSIDE SURFACES OF THE CONCRETE MANHOLE SHALL BE EXPOSED TO SEWER GAS SHALL BE PROTECTED BY A SERIES 60 MI-BUILD EPOXYLINE, OR EQUIVALENT.
5. EXTERIOR MANHOLE WALLS SHALL BE COATED WITH A 603 BITUMINOUS COATING.
6. JOINT SEALING COMPOUND SHALL BE AS RECOMMENDED BY THE MANHOLE MANUFACTURER.
7. PRECAST MANHOLES SHALL BE SET AT LEAST 12" FROM THE MANHOLE BASE.
8. TOP OF MANHOLE FLOOR SLAB SHALL BE AT LEAST 3 INCHES BELOW THE FLOW LINE OF THE OUTLET PIPE TO INSURE SUFFICIENT MINIMUM THICKNESS OF SHAPED INVERT.
9. LIFTING HOLES SHALL BE FILLED WITH NON-SHRINK GROUT AND THE INTERIOR SURFACE COATED AS SPECIFIED.
10. MORTAR USED IN MASONRY CONSTRUCTION SHALL CONTAIN 8 BAGS OF CEMENT PER CUBIC YARD. ALL MANHOLE BASES SHALL CONFORM TO THE REQUIREMENTS OF CONCRETE FOR CONCRETE PAVEMENT CONSTRUCTION AS SPECIFIED IN THE CITY STANDARD PAVING SPECIFICATIONS USING CITY CONCRETE PAVEMENT MIX WITH AN EXTRAIRGAINING ADJUSTMENT. MANHOLE BASES SHALL BE PLACED AROUND THE MANHOLE BASES 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 9". COMPLETED MANHOLE SHALL BE WITHOUT LEAKS AND WATER TIGHT.

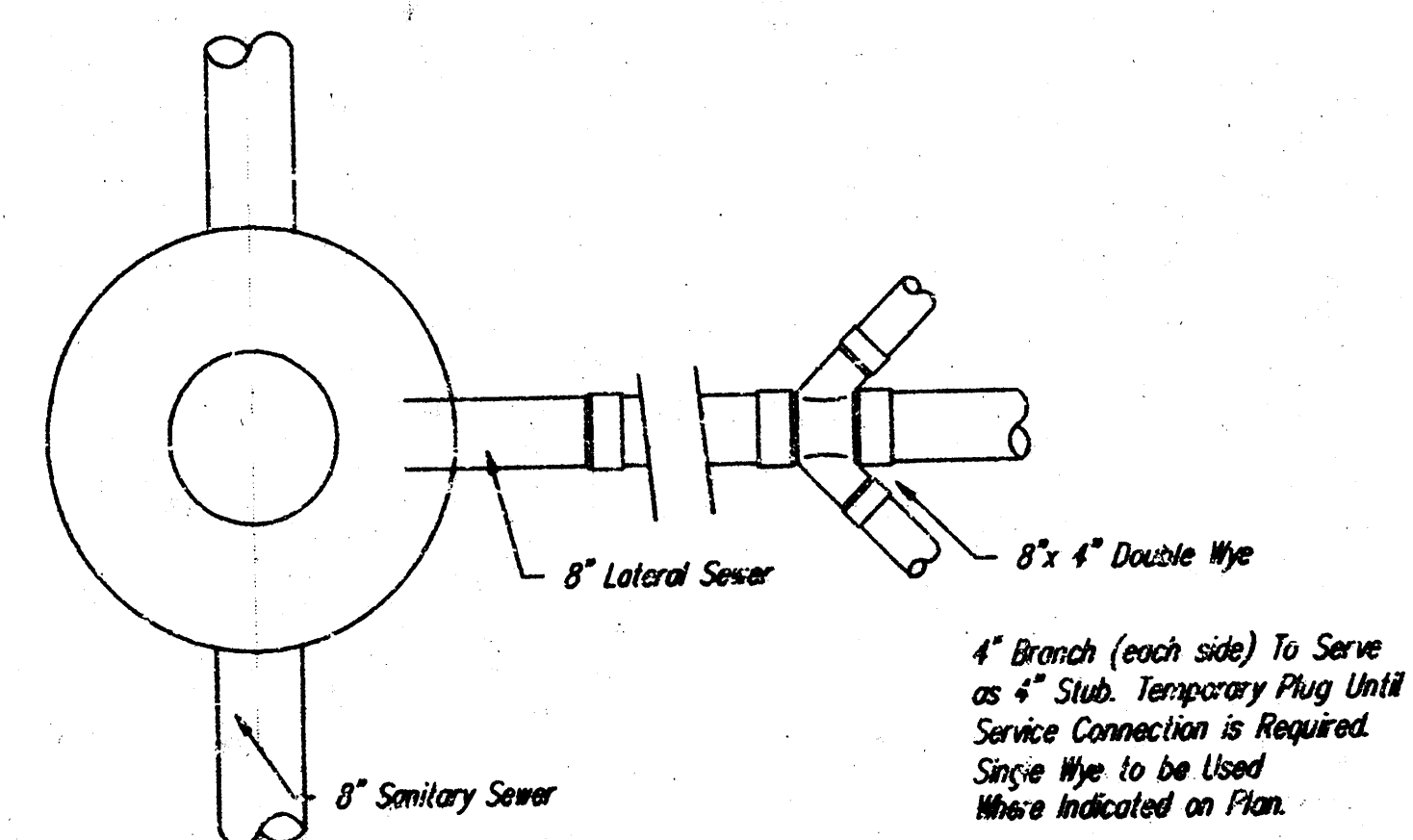
11. REINFORCING STEEL SHALL BE INSTALLED IN THE MANHOLE BARS AND SHALL CONSIST OF NO. 4 BARS PLACED ON 8" CENTERS IN BOTH DIRECTIONS. THE MANHOLE BARS REINFORCEMENT SHALL BE PLACED AT LEAST 12" ABOVE THE FLOW CHANNELS. ALL MATERIALS AND LABORS FOR FINISHING AND INSTALLING REINFORCING STEEL SHALL BE INCLUDED IN THE UNIT PRICE BID FOR THE MANHOLE.
12. OPENINGS SHALL BE CUT INTO THE MANHOLE WALL WHEN OUTSIDE DROPS ARE CONSTRUCTED ON EXISTING MANHOLES. SUCH OPENINGS CUT INTO EXISTING MANHOLES SHALL BE AS SMALL AS PRACTICAL TO FACILITATE INSTALLING AND GROUTING THE NEW PIPE IN PLACE. WATER TIGHT GASKETS SHALL BE USED BETWEEN THE NEW PIPE AND COMPOSITE PIPE. THE NEW PIPE SHALL BE GROUTED INTO THE OPENING USING AN APPROVED HUMPHRINK GROUT FOR THE FULL MANHOLE WALL THICKNESS. THE EXTERIOR OF THE COMPLETED CORRECTION SHALL BE SEALED WITH AN APPROVED BITUMEN COATING. THE EXTERIOR OF THE NEW PIPE WILL BE WATER TIGHT. FLOOR OF MANHOLE SHALL BE MODIFIED TO FORM NEW FLOW CHANNEL FOR THE NEW CONNECTION AS INDICATED BY THE DRAWING. THIS WORK, INCLUDING MODIFICATION OF MANHOLE FLOOR SHALL BE PAID AT IT IN THE UNIT PRICE BID FOR OUTSIDE DROP STACK CONSTRUCTED ON EXISTING MANHOLE.
13. THE FLOORS OF ALL MANHOLES SHALL BE SHAPED TO FLOW CHANNELS SUCH THAT THE MANHOLES WILL BE SELF-CLEANING. NO PIECE OF AREAS OF SOLID MATERIALS SHALL BE DEPOSITED AS SEWAGE FLOWS THROUGH THE MANHOLE FROM ALL INLET PIPES TO THE OUTLET PIPES. FLOW CHANNELS SHALL BE FORMED TO MATCH THE BOTTOM HALVES OF THE INFLOWING PIPES AND THE OUTLET PIPES. FLOW CHANNELS SHALL BE MAINTAINED EXCEPT FOR INSIDE DROPS. FLOW CHANNELS FOR INSIDE DROP MANHOLES SHALL BE CONSTRUCTED AS INDICATED BY THE DRAWING. MANHOLE FLOORS SHALL HAVE SLOPES OF 3 INCHES PER FOOT IN THE AREAS OUTSIDE THE PIPES. PIPES LAID THROUGH MANHOLES SHALL HAVE THE TOP HALF REMOVED TO MEET 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.
14. PIPES INSTALLED WITHIN THE EXCAVATION MADE FOR THE MANHOLE SHALL BE CRADLED WITH CONCRETE TO THE LIMITS OF THE MANHOLE. THE EXCAVATION SHALL BE 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. THE CRADLE SHALL BE THIN MANHOLE EXCAVATION OR IN CLAY PIPE JOINT. THE CRADLE SHALL BE INCLUDED IN THE UNIT PRICE BID FOR THE MANHOLE.

15. MANHOLE COVER CASTINGS AND MANHOLE FRAMP CASTINGS SHALL CONFORM TO THE REQUIREMENTS AS INDICATED IN THE STANDARD SPECIFICATIONS AND AS SHOWN IN THE STANDARD DETAIL DRAWING.
16. THE VERTICAL DROP IN INSIDE DROP MANHOLES SHALL NOT EXCEED 2" FOR INFLOWING PIPES SIZED 12" OR SMALLER AND 2' FOR INFLOWING PIPES SIZED 15" OR LARGER. THE OVERFLOWING PIPES SHALL NEVER BE SET LOWER THAN THE CROWN OF THE OUTFLOWING PIPE.
17. STANDARD MANHOLES AND STANDARD INSIDE DROP MANHOLES SHALL BE 610 MM STANDARD MANHOLES FOR THE TYPE AND DIAMETER INDICATED. INSIDE DROP MANHOLES SHALL BE 610 AS STANDARD OUTSIDE DROP MANHOLES FOR THE TYPE AND DIAMETER INDICATED. ALL MANHOLE DIAMETERS WILL BE 4" UNLESS INDICATED OTHERWISE.
18. A BRICK MASONRY COLLAR SHALL BE INSTALLED BETWEEN THE CAST IRON FRAME AND THE CONCRETE CORE. THE COLLAR WILL HAVE 6" WALLS. THE VERTICAL BRICKWORK SHALL BE 15" HIGH. THE BRICKWORK SHALL BE COATED WITH PORTLAND CEMENT PLASTER ON THE OUTSIDE OF THE COLLAR.



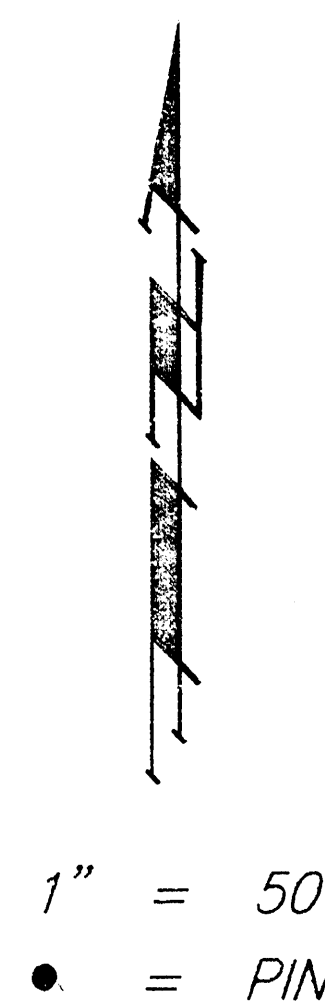
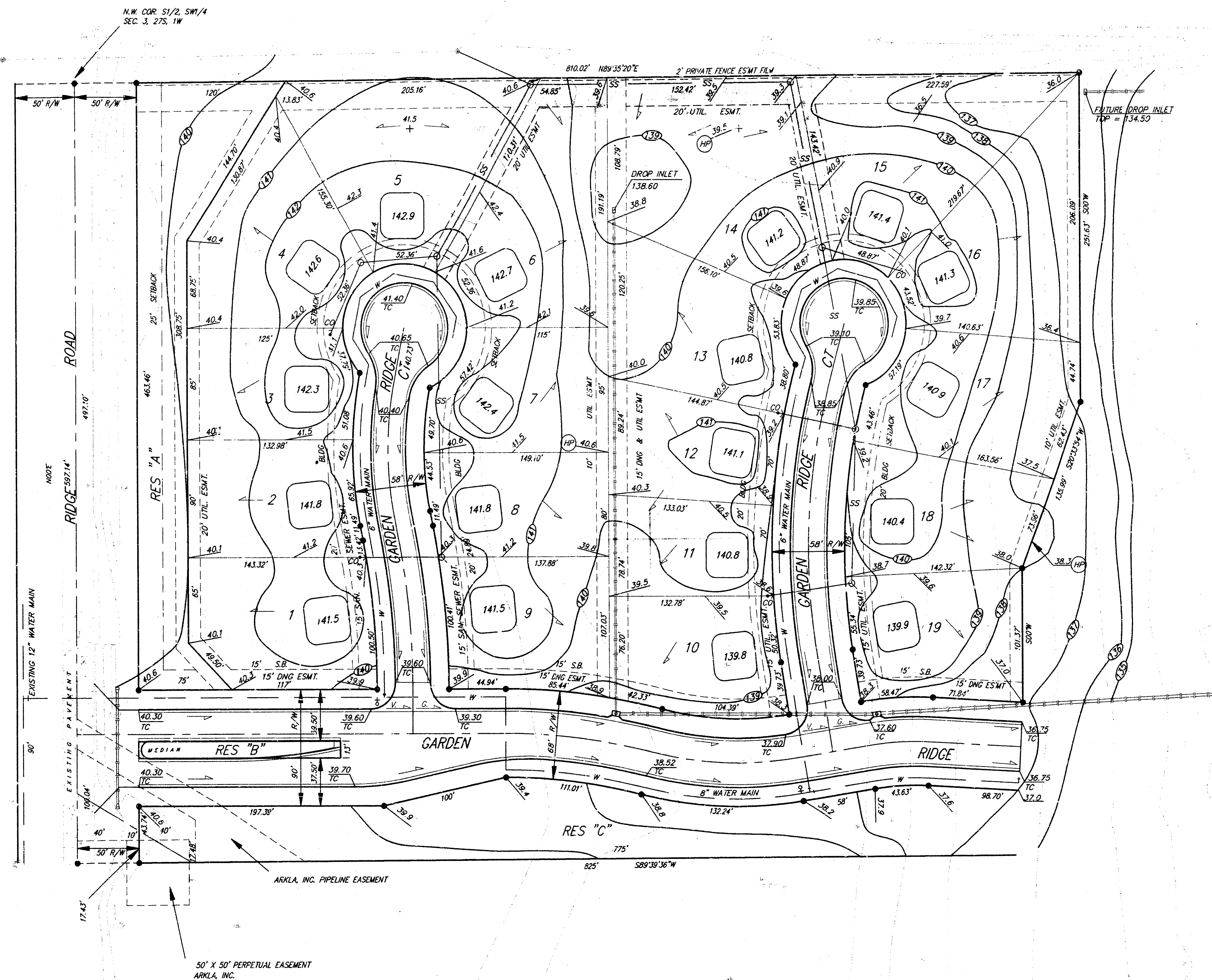
NOTES

1. 8" Lateral to be Air-Tested up to the Top of PVC Pipe, per Standard Specifications.
2. All PVC Pipe Fittings in Cleanout Riser Assembly shall be Solvent-Welded, Except 8" Pipe Cap.



8" CLEANOUT RISER ASSEMBLY DETAIL

CLEANOUT RISER ASSEMBLIES					
 BAUGHMAN COMPANY P. A. ENGINEERING & SURVEYING 316/262-7271 • 315 ELLIS • WICHITA, KANSAS 67211	PROJECT NUMBER				REV.
	458-76-245-82224-000-000-001				SHEET 5
DESIGN TCR	DRAWN KLK	APPROVED	DATE 8-5-92	SCALE NONE	OF 7



BENCHMARK: R.R. SPIKE IN P.P. 75' N. AND 58' E. OF CENTER LINES OF 21ST NORTH AND RIDGE ROAD.
ELEVATION: 143.30 CITY DATUM

NOTE:
Proposed Garage floor elevations are shown on the plans. Variations from garage floor elevations must be approved by Baughman Company, P.A. Contractor to set finish floor elevation.

All street elevations shown on plans are for top of curb (full height).

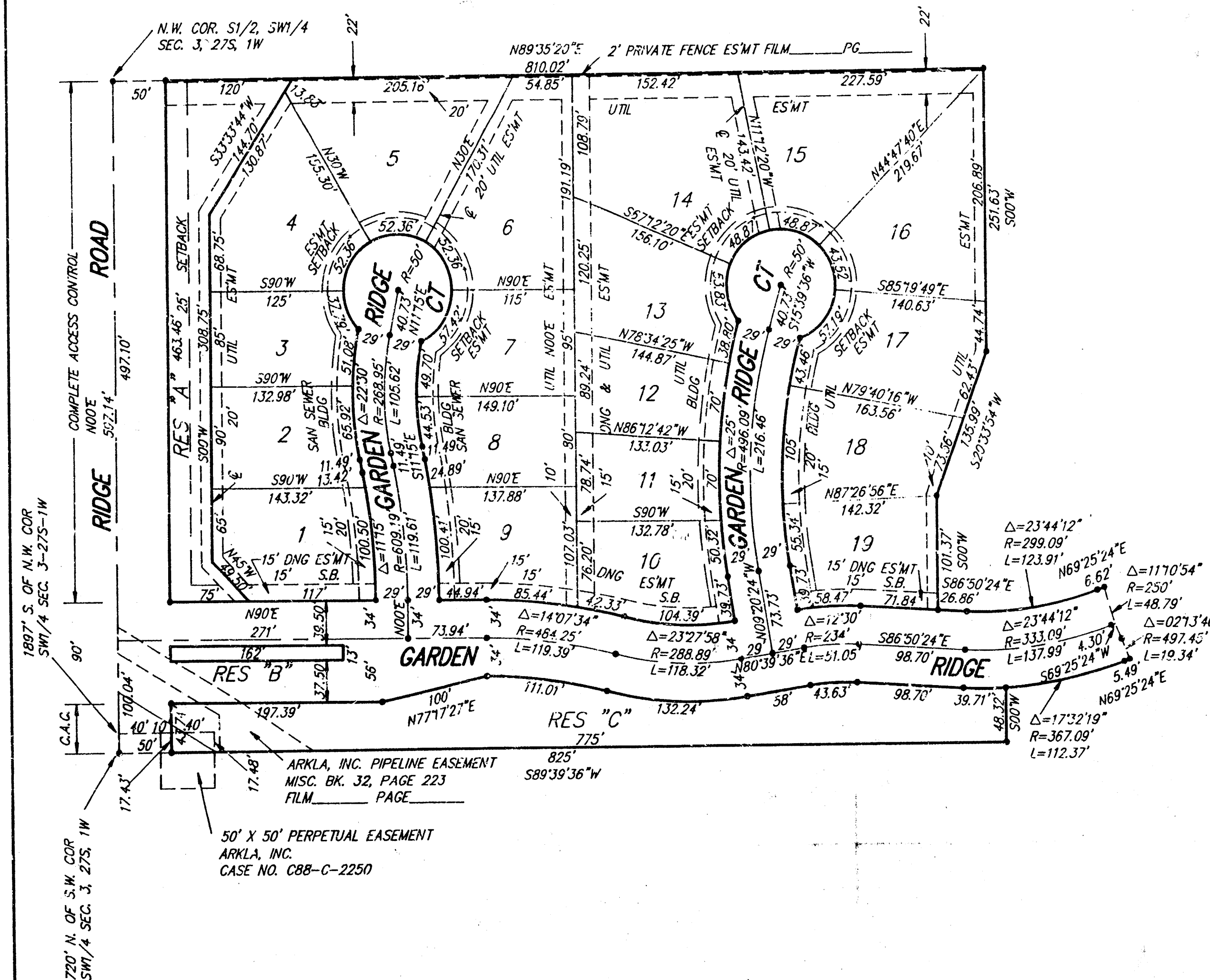
Contour elevations shown are for graphic representation of drainage concept. Spot elevations shall take precedence over contour lines.

Basement area to be graded.

LAKE RIDGE ADDITION LOT GRADING PLAN				
BAUGHMAN COMPANY P. A. ENGINEERING & SURVEYING 316/282-7271 • 315 ELLIS • WICHITA, KANSAS 67211				
PROJECT NUMBER				
DESIGN P. J. M.	DRAWN KEVIN	APPROVED	DATE JULY 15, 1992	SCALE 1" = 50'
SHEET 6 OF 7				LAKE GRADGE

LAKE RIDGE ADDITION

WICHITA, SEDGWICK COUNTY, KANSAS



This plat of "LAKE RIDGE ADDITION", Wichita, Sedgwick County, Kansas has been submitted to and approved by the Wichita-Sedgwick County Metropolitan Area Planning Commission, Wichita, Kansas.
Dated this _____ day of _____, 1992.
Wichita-Sedgwick County Metropolitan Area Planning Commission

Chairman
Christopher J. Gobel

Secretary
Marvin S. Krout

This plat approved and all dedications shown hereon accepted by the City Council of the City of Wichita, Kansas, this _____ day of _____, 1992.

Mayor
Bob Knight

Deputy City Clerk
Pat Burnett

State of Kansas) SS This is to certify that this plat has been
Sedgwick County) filed for record in the office of the Register of Deeds, this _____ day
of _____, 1992, at _____ o'clock _____ M., and is duly
recorded.

Register of Deeds
Pat Kettler

Deputy
Ed Resa

Know all men by these presents: that we, the undersigned, have caused the land in the surveyors certificate to be platted into Lots, Reserves and streets to be known as "LAKE RIDGE ADDITION", Wichita, Sedgwick County, Kansas. Reserves "A" and "C" are hereby reserved for earthberms, landscaping, sidewalks, bike trails, lighting, irrigation, drainage, signage, gazebos, entry monuments, and utilities confined to easements. Reserve "B" is hereby reserved for entry monuments, landscaping, irrigation and as street and utility easement. The reserves shall be owned and maintained by the homeowners association for the addition. The utility easements are hereby granted as indicated for the construction and maintenance of all public utilities. The streets are hereby dedicated to and for the use of the public. All abutters rights of access to, or from Ridge Road over and across the west line of Reserves "A" and "C" are hereby granted to the City of Wichita, Kansas.

R.B.R., Inc.

President
Randy Dean

State of Kansas) SS We, Baughman Company, P.A., Surveyors in
Sedgwick County) aforesaid County and State do hereby certify that we have surveyed
and platted "LAKE RIDGE ADDITION", Wichita, Sedgwick County, Kansas
and that the accompanying plat is a true and correct exhibit of the
property surveyed, described as follows: That part of the S1/2 of
the SW1/4 of Sec. 3, Twp. 27-S, R-1-W of the 6th P.M., Sedgwick
County, Kansas, described as commencing at the S.W. Corner of said
SW1/4, thence N 00° E, along the west line of said SW1/4, 720
feet for a place of beginning; thence N 00° E, along the west line
of said SW1/4, 597.14 feet to the N.W. Corner of the S1/2 of said
SW1/4; thence N 89°35'20" E, along the north line of the S1/2 of
said SW1/4, 810.02 feet; thence S 00° W, 251.63 feet; thence
S 20°33'54" W, 135.99 feet; thence S 00° W, 101.37 feet; thence
S 86°50'24" E, 26.86 feet to the P.C. of a curve to the left, having
a radius of 299.09 feet and a central angle of 23°44'12"; thence
northeasterly, along said curve, an arc distance of 123.91 feet (having
a chord bearing N 81°17'30" E, 123.02 feet to the P.T. of said curve;
thence N 69°25'24" E, 6.62 feet to a point on a curve, having a
radius of 250 feet; thence southeasterly, along said curve to the
left, through a central angle of 117°0'54", an arc distance of 40.79
feet, (having a chord bearing S 18°21'04" E, 48.71 feet) to the P.R.C.
of a curve to the right, having a radius of 497.45 feet; thence
southeasterly, along said curve and through a central angle of 02°13'40",
an arc distance of 19.34 feet, (having a chord bearing S 22°49'41" E,
19.34 feet; thence S 69°25'24" W, 5.49 feet to the P.C. of a curve
to the right, having a radius of 367.09 feet; thence westerly, along
said curve and through a central angle of 17°32'19", an arc distance
of 112.37 feet, (having a chord bearing S 78°11'34" W, 111.93 feet;
thence S 00° W, 48.32 feet to a point 720 feet north of the south
line of said SW1/4; thence S 89°39'36" W, 825 feet to the place of
beginning.

Existing public easements and dedications being vacated by
virtue of K.S.A. 12-512(b).

Baughman Company, P.A.

Date 11 Jul 92 _____
Surveyor

State of Kansas) SS The foregoing instrument acknowledged be-
Sedgwick County) fore me, this _____ day of _____, 1992, by Randy
Dean, President of R.B.R., Inc., on behalf of the corporation.

Notary Public

State of Kansas) SS The foregoing instrument acknowledged be-
Sedgwick County) fore me, this _____ day of _____, 1992, by Chris A.
Anderson, Vice-President of Prairie State Bank of Maize, on behalf
of the corporation.

Notary Public

We, the undersigned, holders of a mortgage
on the above described property, do hereby consent to this plat of
"LAKE RIDGE ADDITION", Wichita, Sedgwick County, Kansas.
Prairie State Bank of Maize

Vice-President
Chris A. Anderson

Entered on transfer record this _____ day
of _____, 1992.

County Clerk
Don Wright

14-02-10-7