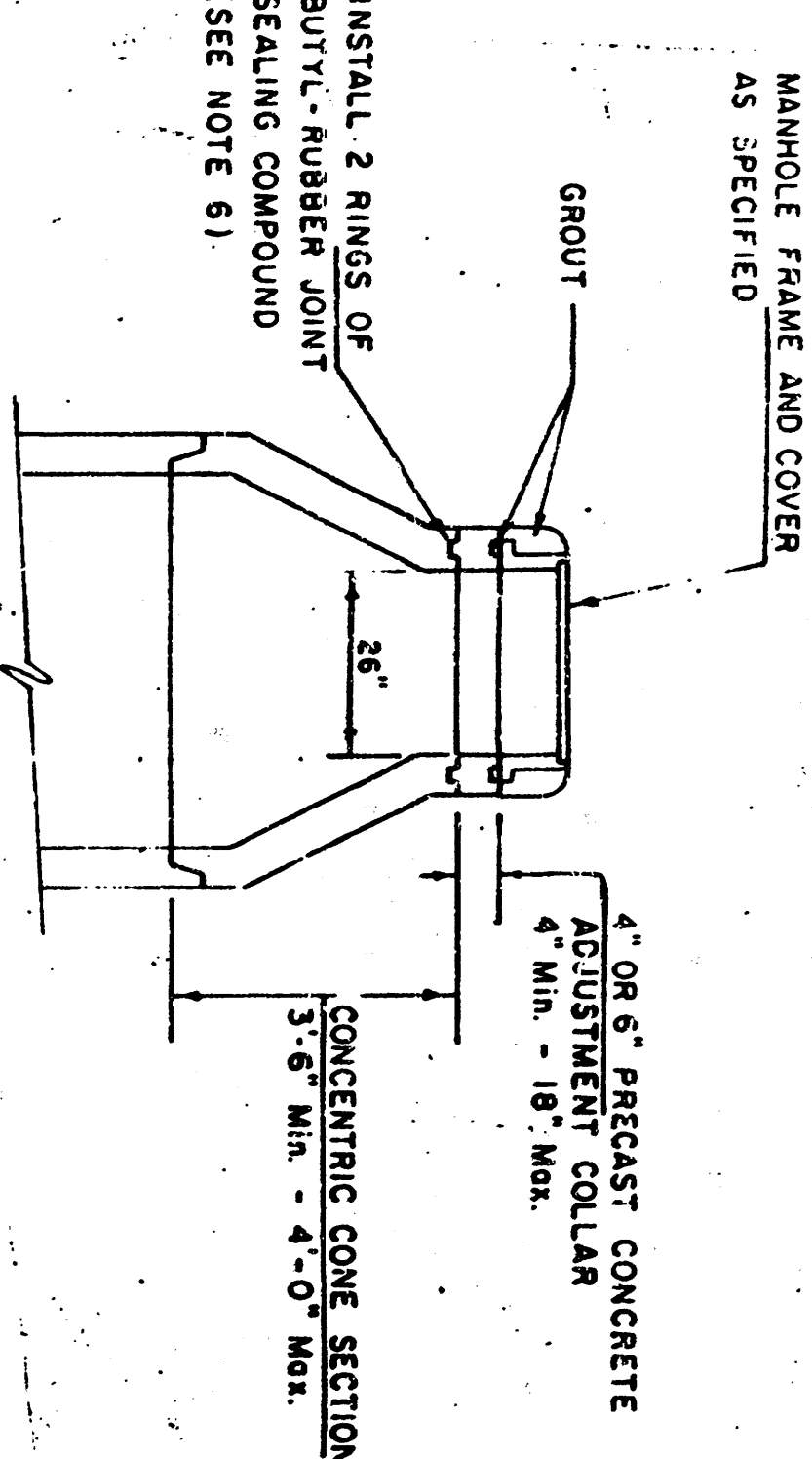


NO SCALE

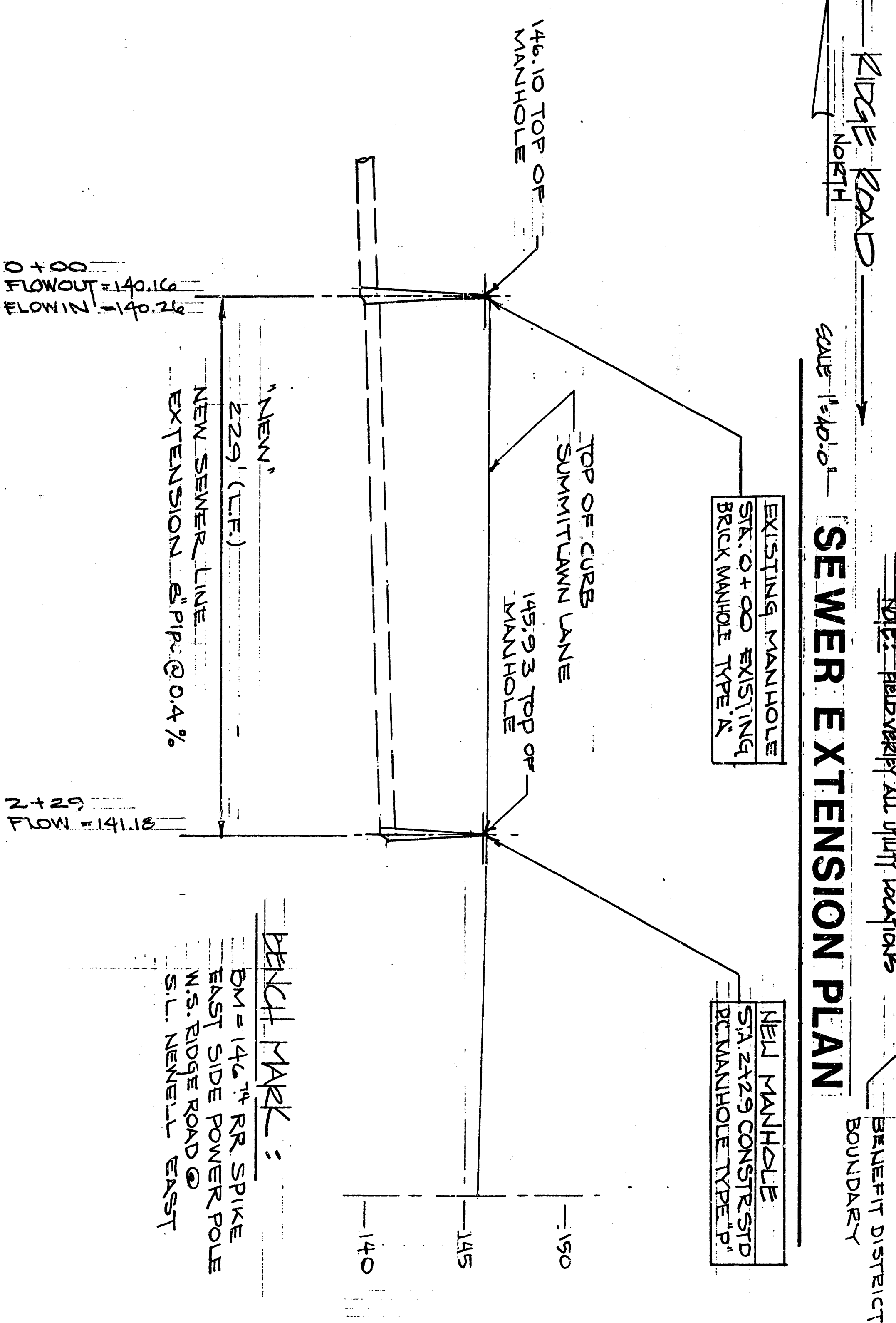


534 N. RIDGE ROAD
WICHITA, KS 67206

LEGAL DESCRIPTION:
LOT 1, NIEDENS 5TH ADDITION,
WICHITA, SEDGWICK COUNTY, KANSAS

SEWER EXTENSION PROFILE

PER CITY DATA: LAT 40, S.1
HORIZONTAL SCALE: 1" = 40'
VERTICAL SCALE: 1" = 5'



SEWER/ MANHOLE

RIDGECREST BUILDING

GENERAL NOTES

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 watertight gaskets shall be installed to join the sewer to the manhole wall when A.B.S. composite pipe or P.V.C. pipe is used for other types of pipe. The gasket shall be supported with concrete encasement. The minimum of 3 feet from the manhole wall and to the first joint for V.C.P. such that the joint remains flexible.
4. All inside surfaces of the concrete manhole which would be exposed to the sewage shall be finished with a smooth finish series 66 H-Bull's Blasting Inc., dry thickness of 6 Mills (min.)
5. Exterior manhole walls shall be coated with 1 coat Mobilara 653 Bitumastic coating.
6. Joint sealing compound shall be Kent Seal No.2 or approved equal.
7. Precast manholes shall be set at least 4 inches into 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 6 sacks of cement per cubic yard. Concrete used in manhole bases shall be made in accordance with the standard specification for concrete pavement construction as specified in the city standard paving specifications using city concrete pavement 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 shall have a minimum 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.
11. Reinforcing steel shall be installed in the manhole bases and shall consist of No. 4 bars placed on 6" centers in both directions. The reinforcement shall extend above the top of the base at least 3' 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.
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. Watertight gaskets shall be used with P.V.C. and A.R.S. composite pipe. The new pipe shall be grouted into the opening with a minimum of 3 inches of concrete. The exterior of the completed connection shall be sealed with an approved bituminous coating such that the connection 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 modification shall be done prior to installation of the new pipe for at the unit price bid for outside drop stock constructed on existing manhole.
13. The floors of all manholes shall be shaped with flow channels leading away from the center of the manhole and free of areas where solids could be deposited causing obstructions to 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 except for inside drop manholes. 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 of the flow channels sloped toward the flow channels. Pipes laid through manholes shall have the top half removed to meet the floor of the full inside diameter of the manhole. Manhole floors shall be finished with a smooth finish series 66 H-Bull's Blasting Inc. for the unit price bid for 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 excavation. When clay pipe is used, the cradle shall extend to the outside of the manhole, the cradle shall be cast in place against the manhole wall. The manhole shall be cast to 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.
15. 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 drawing.
16. The vertical drop in inside drop manholes shall not exceed 4' for inflowing pipes sized 12" or smaller and 2' for inflowing pipes larger than 12". The crowns of inflowing pipes shall never be set lower than the crown of the outflowing pipe.
17. Standard manholes and standard inside drop manholes shall be built in accordance with the standard specifications for manholes and inside 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 collar. The collar will have 8" of concrete on each side of the collar. The collar will have 8" of A-1 coat of mortar will be plastered on the outside of the collar.

CABER ASSOCIATES INC.
3817 WEST 13 TH WICHITA, KS. 67203
(316) 942-6740

LATERAL 156, SOUTHWEST INTERCEPTOR
CITY OF WICHITA
MICHAEL E. LINDEBAK, P.E., CITY ENGINEER
PROJECT No.: 468-76-245-SBTH-000-000-001
INDEX No.: 740019

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