

ADDRESS:
534 N. RIDGE ROAD
WICHITA, KS 67209

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

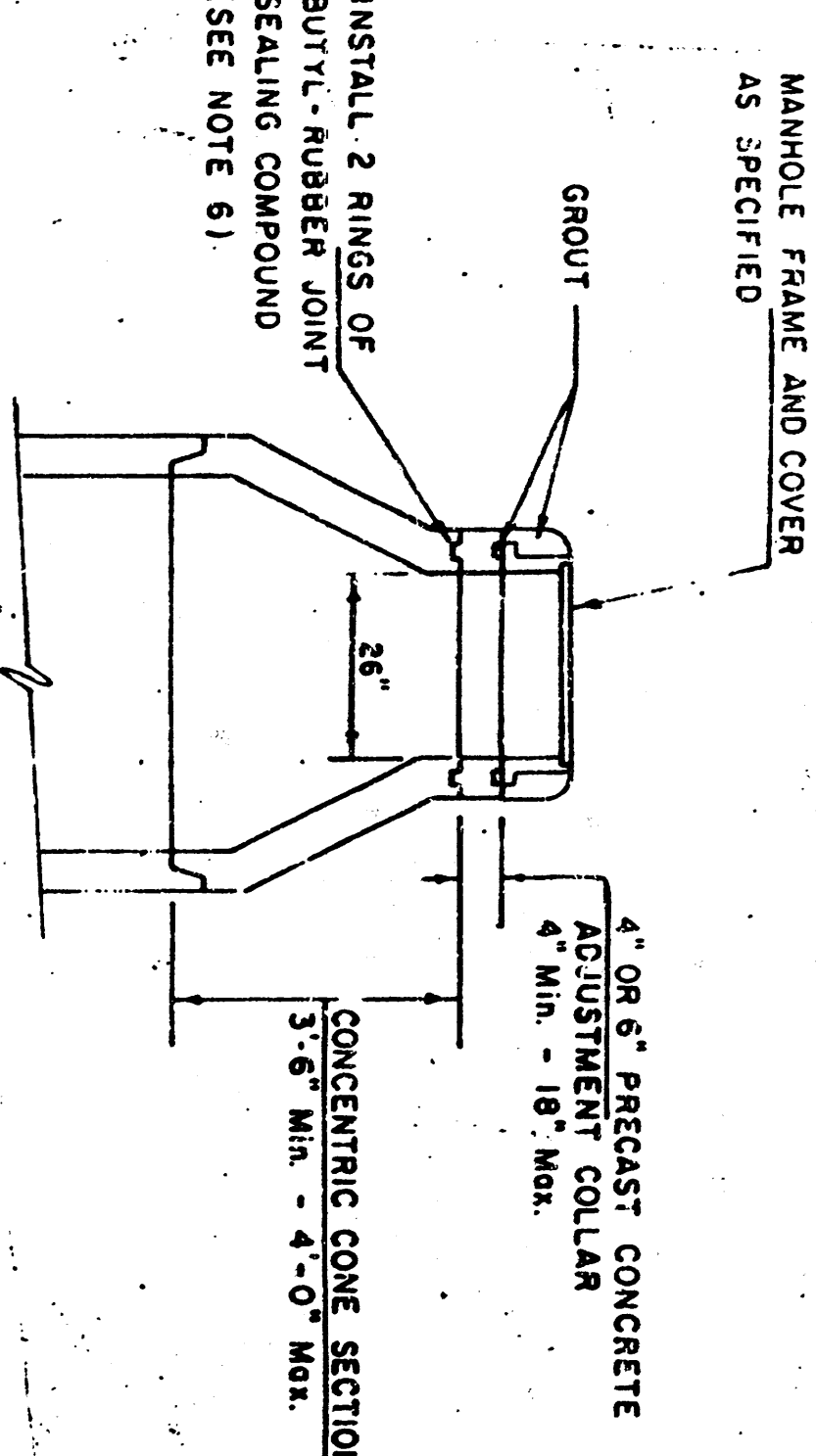
RIDGECREST BUILDING

SEWER / MANHOLE

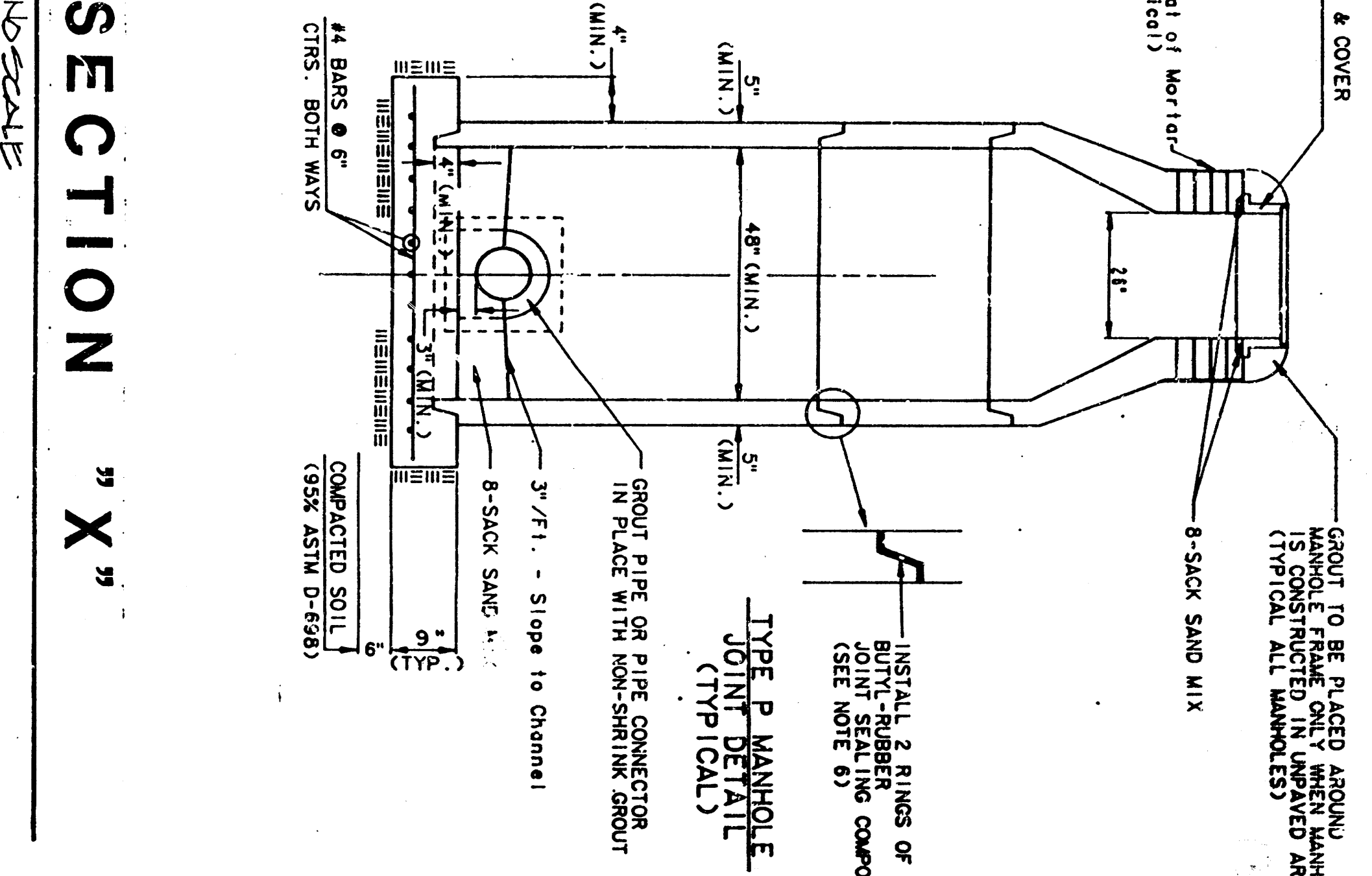
GENERAL NOTES

1. All precast concrete manhole sections shall conform to the specifications of A.S.T.M. C478 as modified by the specifications.
2. Non-shrink grout shall be non-metallic type.
3. Approved flexible waterproof 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 sewer pipe shall be grouted in place with non-shrink grout. The joint for V.C.P. shall be grouted in place with non-shrink grout for V.C.P. such that the joint remains flexible.
4. All inside surfaces of the concrete manhole which would be exposed to sewer gas shall be coated with 2 coats TWEHC (min.).
5. Exterior manhole walls shall be coated with 1 coat Mobilara 633 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. 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 sacks of cement per cubic yard. Concrete used in manhole bases shall conform to the requirements for concrete for concrete pavement construction as specified in the city standard specifications for concrete. All concrete shall be placed with 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 24" manhole constructed where pipe sizes are 24" or larger. Manholes shall be without leaks and water tight. 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 manhole base reinforcement shall be placed at least 3" above the bottom of the manhole base. All costs 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 to facilitate installing and grouting the new pipe in place. Waterstop gaskets shall be used with P.V.C. and A.R.S. composite pipe. The new pipe shall be grouted into the opening using an approved non-shrink grout for the full manhole wall thickness. The exterior of the completed manhole shall be finished with a smooth plaster or concrete 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 work, including modification of manhole floor, shall be paid for at the unit price bid for outside drop constructed on existing manhole.
13. 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. 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. Flow channels for inside drop manholes shall be constructed as indicated by the drawing. Manhole floors shall have flow channels sloped toward the flow channels. Outflowing 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.
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 first joint outside the manhole. The cradle shall be terminated at the clay pipe joint in a manner which will prevent the manhole from being subjected to any load within manhole excavation or to clay pipe joint adjacent to manhole. Manhole shall be included in the unit price bid for the manhole.
15. Manhole cover castings and manhole frame castings shall conform to the specifications and standards indicated on the specifications and as shown in the standard detail drawing.
16. The vertical drop in inside drop manholes shall not exceed inflowing pipes larger than 12". The crown 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 as standard manholes for the type and diameter 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 concentric cone. The collar will have 6" walls and a vertical height of 6" minimum and 18" maximum. All cost of mortar will be plastered on the outside of the collar.

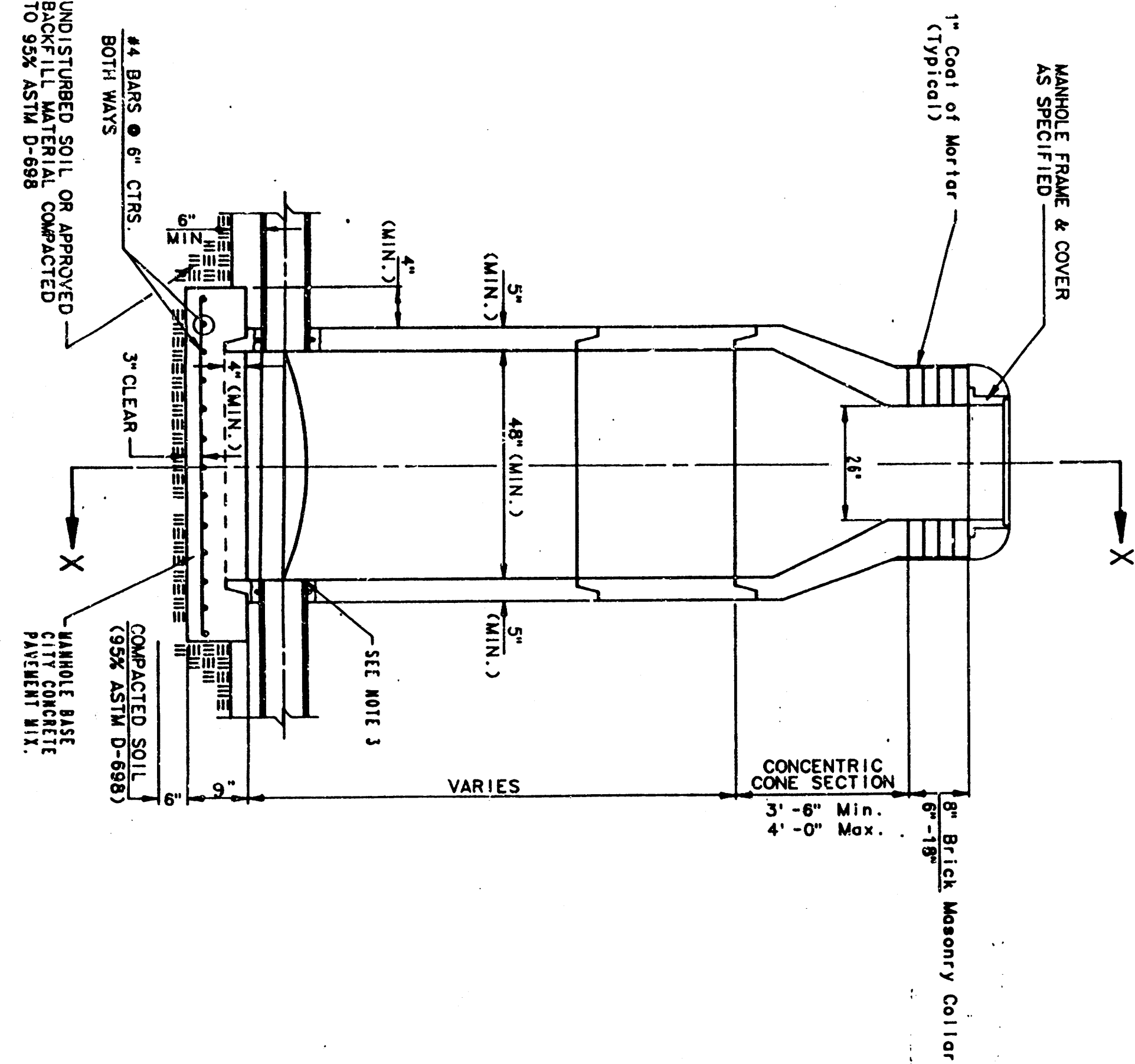
ALTERNATE CONSTRUCTION
IN UNPAVED AREAS



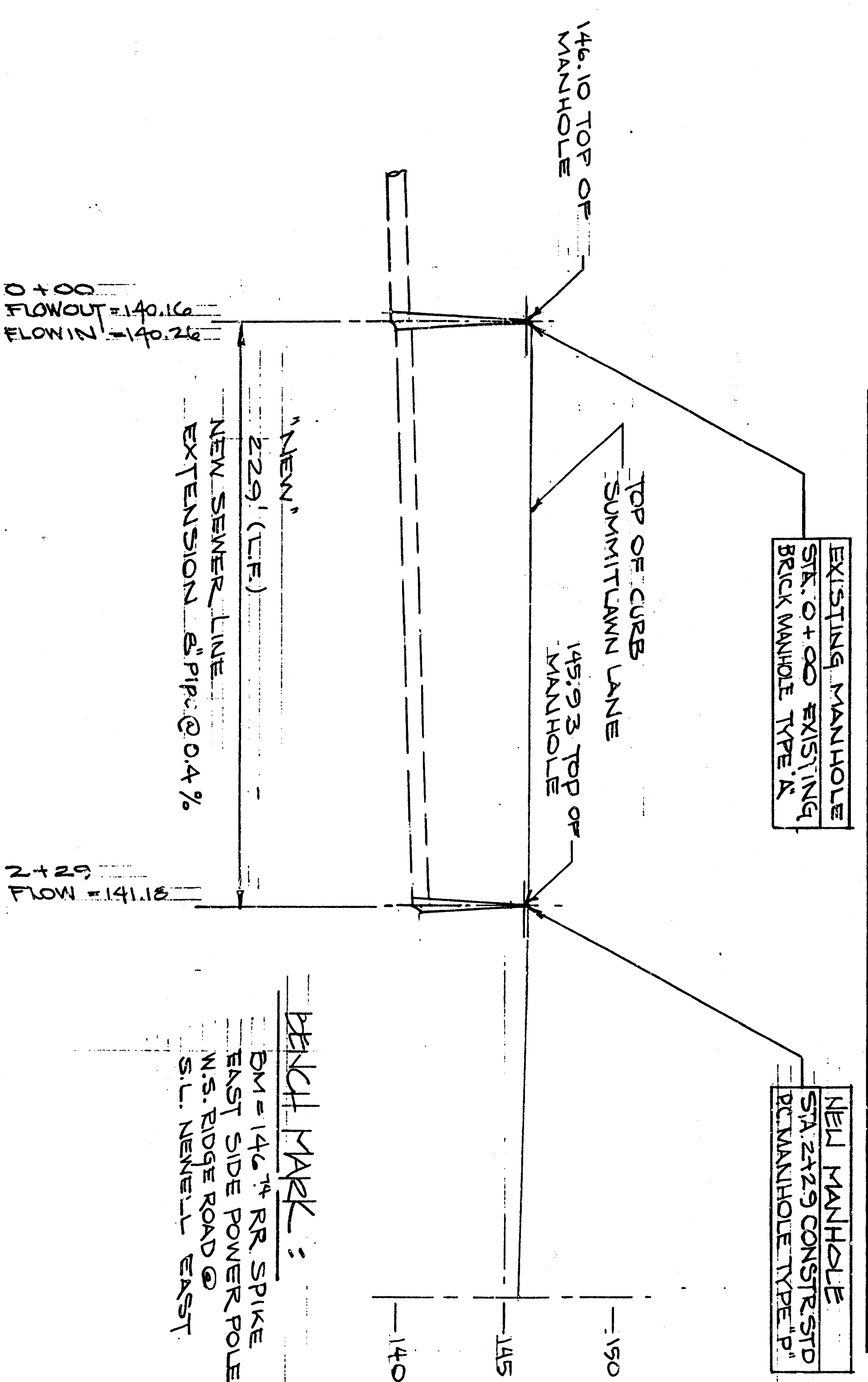
SECTION "X"



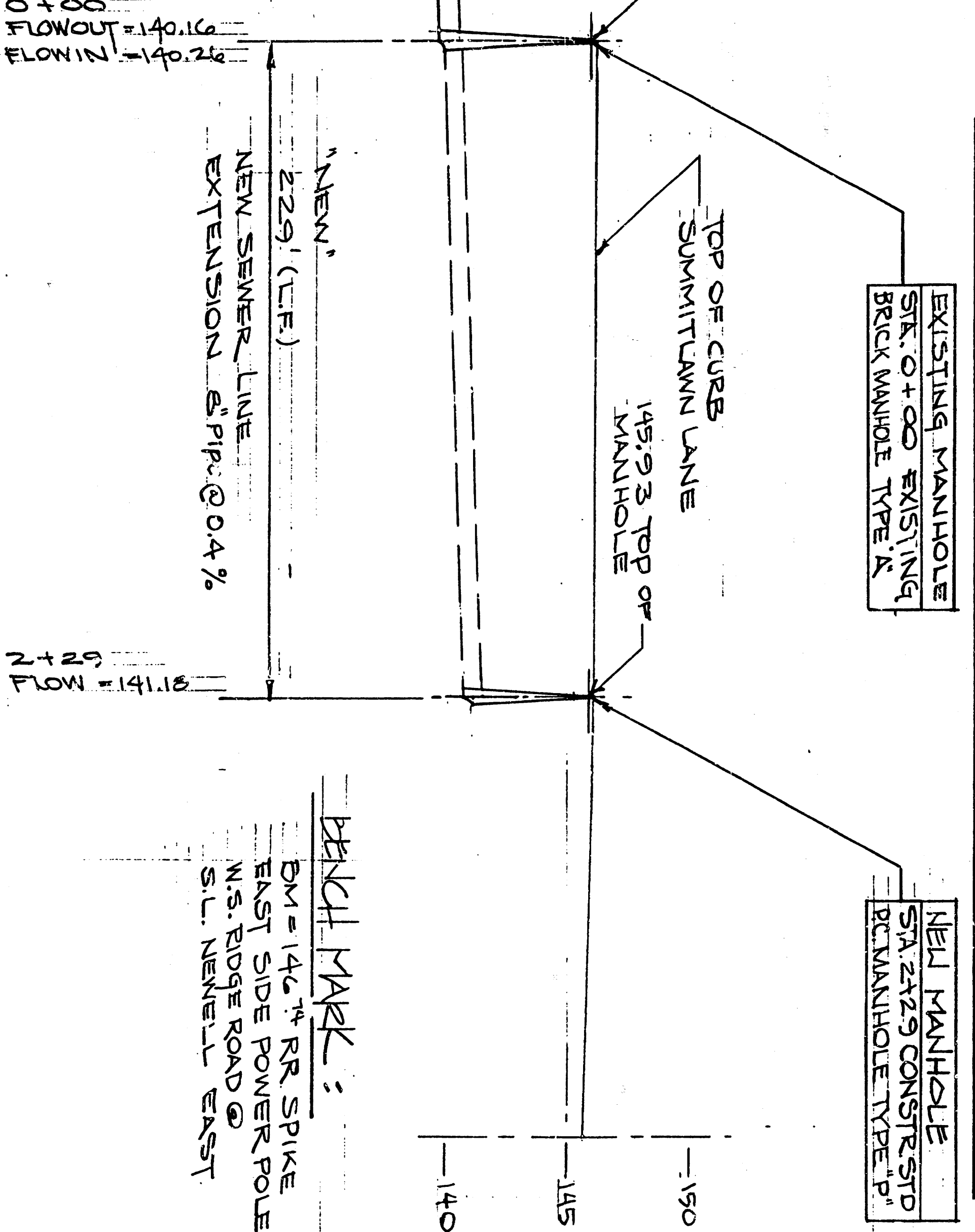
TYPE "P"
STANDARD MANHOLE



SEWER EXTENSION PLAN

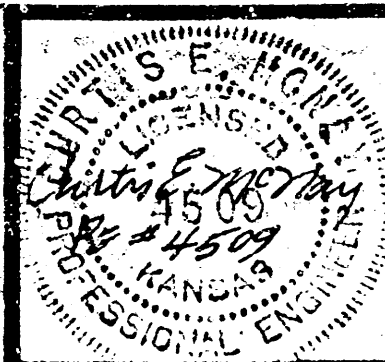


SEWER EXTENSION PROFILE



9-18-89

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



LATERAL 156, SOUTHWEST INTERCEPTOR
CITY OF WICHITA
MICHAEL E. LINDEBAR, P.E., CITY ENGINEER
PROJECT NO.: 468-76-243-81371-000-000-001
INDEX NO.: 740019

REVISIONS	BY
4-10-87	JM
5-10-89	JM

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