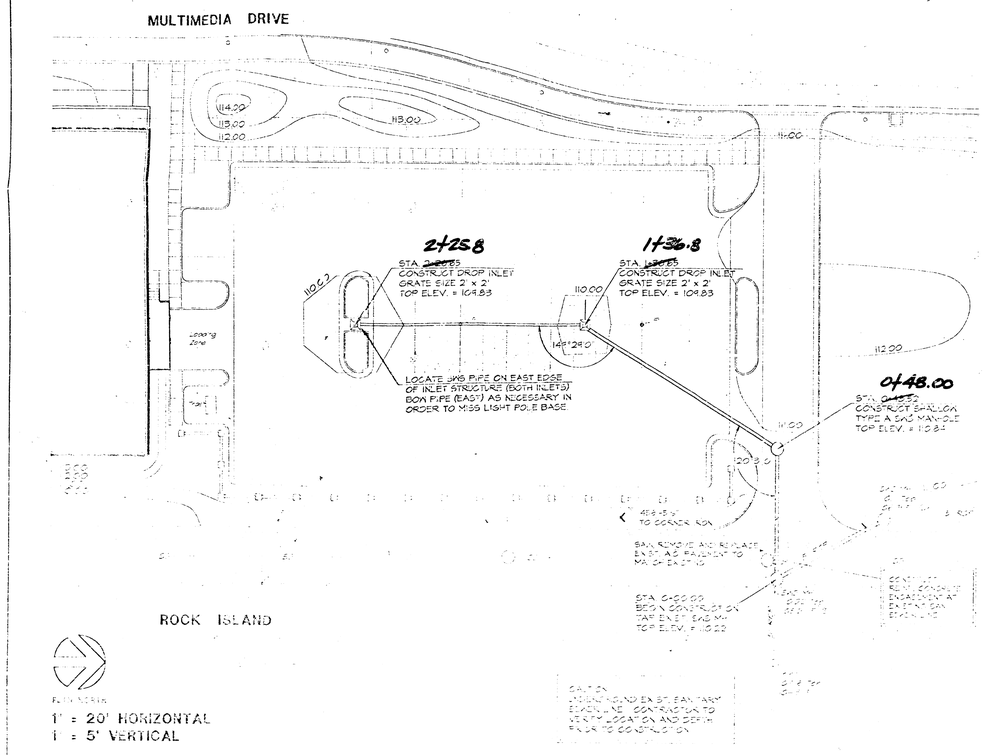
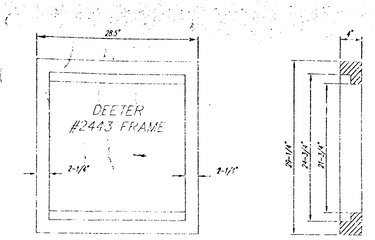
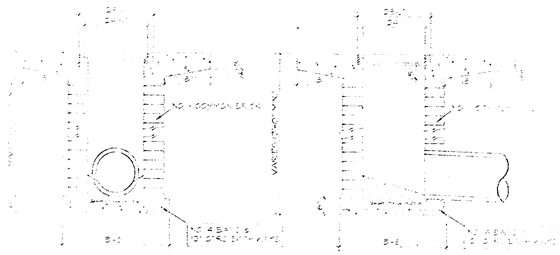


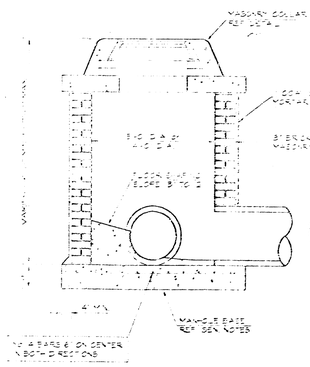


DEETER #2433 GRATE

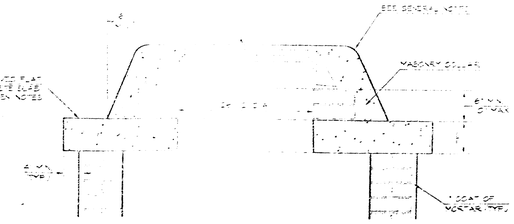
24" x 24" FRAME AND GRATE DETAIL



PERSONNEL TELESCOPING



SHALLOW TYPE "A" MANHOLE



MASONRY COLLAR DETAIL

BENCH MARK: Railroad Spike in 4th Power Pole North of Waterman on West Side of Rock Island. Elevation = 110.38 City Datum

BENCHMARK: "+" Cut Under Railroad Overpass On Concrete Sidewalk North Wall Elevation = 107.74 City Datum.

GENERAL NOTES

1. Mortar used in masonry construction shall contain 6 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 certified 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 in areas when the manhole is not located within public street pavement. Manholes constructed on 8" pipe sizes are smaller than 24" and 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 entirely leaks and water tight.
2. Reinforcing steel shall be installed in the manhole bases and shall consist of #3 A bars placed on 8" centers in both directions. The manhole base reinforcement shall be placed 6" above the bottom of the manhole base. All ends for dowelling 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 cross 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 effluent pipes and the outflowing pipe as shown by the dotted [illegible]. Manhole floors shall have slopes of 3 inches per foot in the areas outside of the flow channels sloped towards the flow channels. Pipes to be through manholes shall have the top half removed to next lines for the full diameter of the manhole. Manhole floor shall then be shaped around the bottom half of the pipe section for the flow channel.
4. [illegible] with the excavation made for the manhole and be leveled with concrete to the required [illegible] Where pipes are to be [illegible] to the first joint outside the [illegible] The inside of the manhole shall be [illegible] and free of [illegible] with a [illegible] joint. Care shall be taken [illegible] to the pipe [illegible] to stay clear of the [illegible] the pipe [illegible] the pipe [illegible]
5. [illegible] shall be [illegible] to the [illegible] in the [illegible]
6. [illegible] the [illegible]
7. [illegible] "A" and "B" [illegible] for the [illegible] type "A" shall [illegible] type "B" shall [illegible] A [illegible] type "B" shall be [illegible] A [illegible] shall be [illegible]

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[illegible]

Revised 2-3-95 As-Built

BOOKED A-4 MCG

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NEW COMMUNICATIONS CENTER
WICHITA, KANSAS

REVISION DATE
PROJECT NO. 2415.00
DATE 22 March, 1994
SWS

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