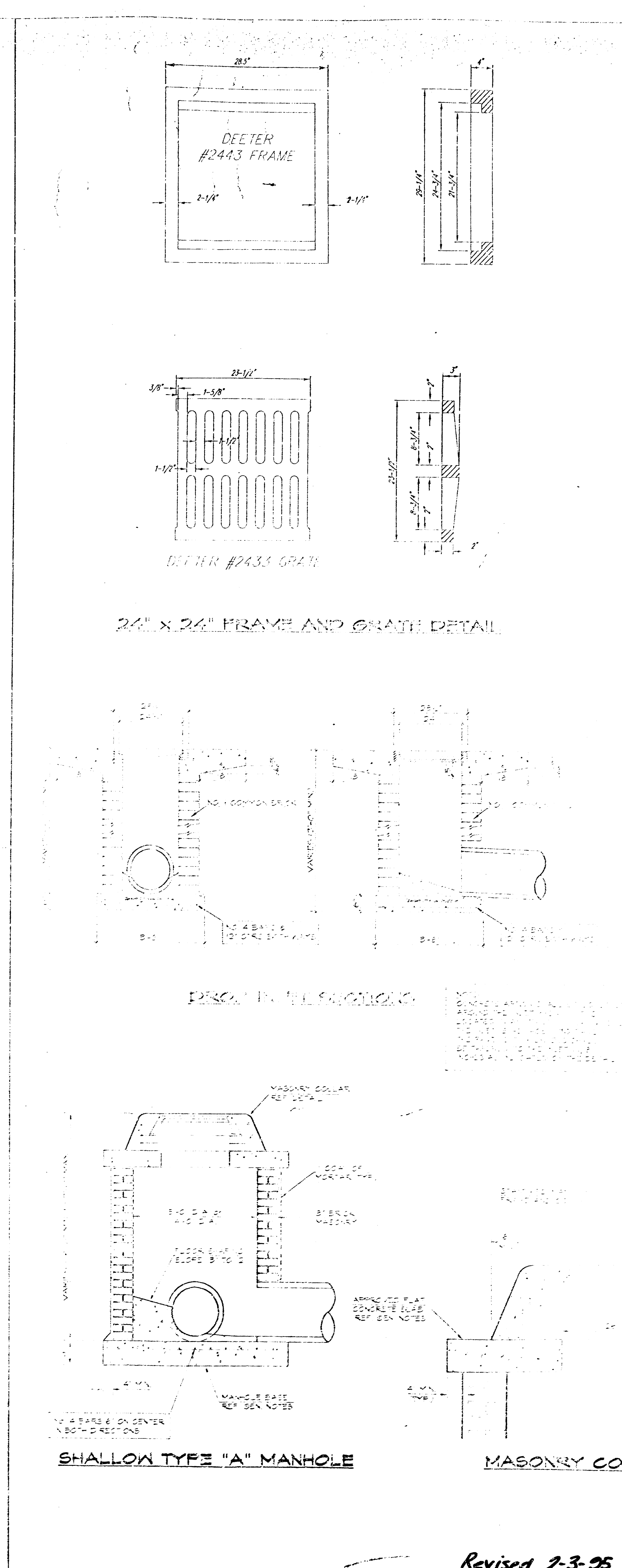
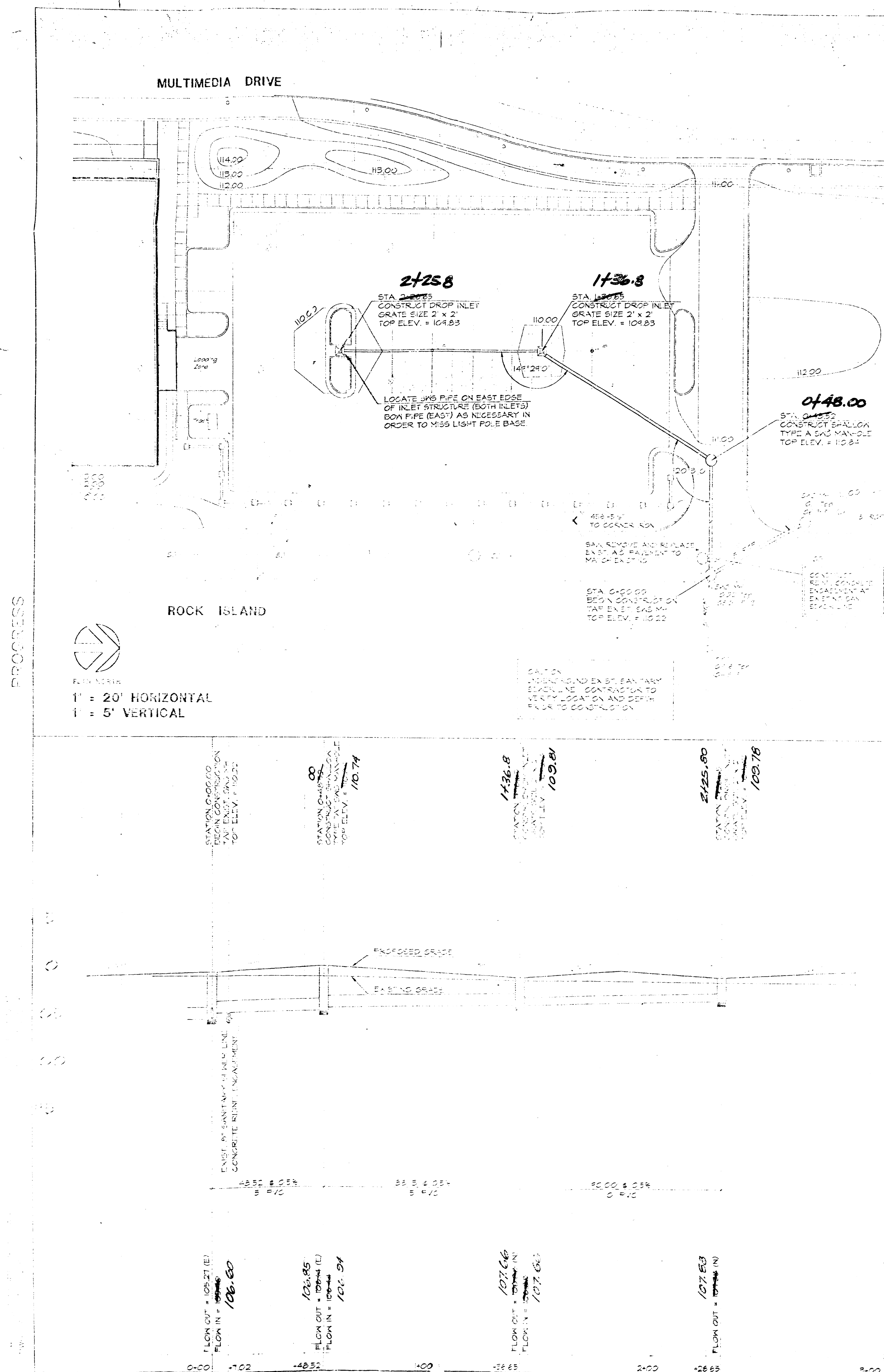
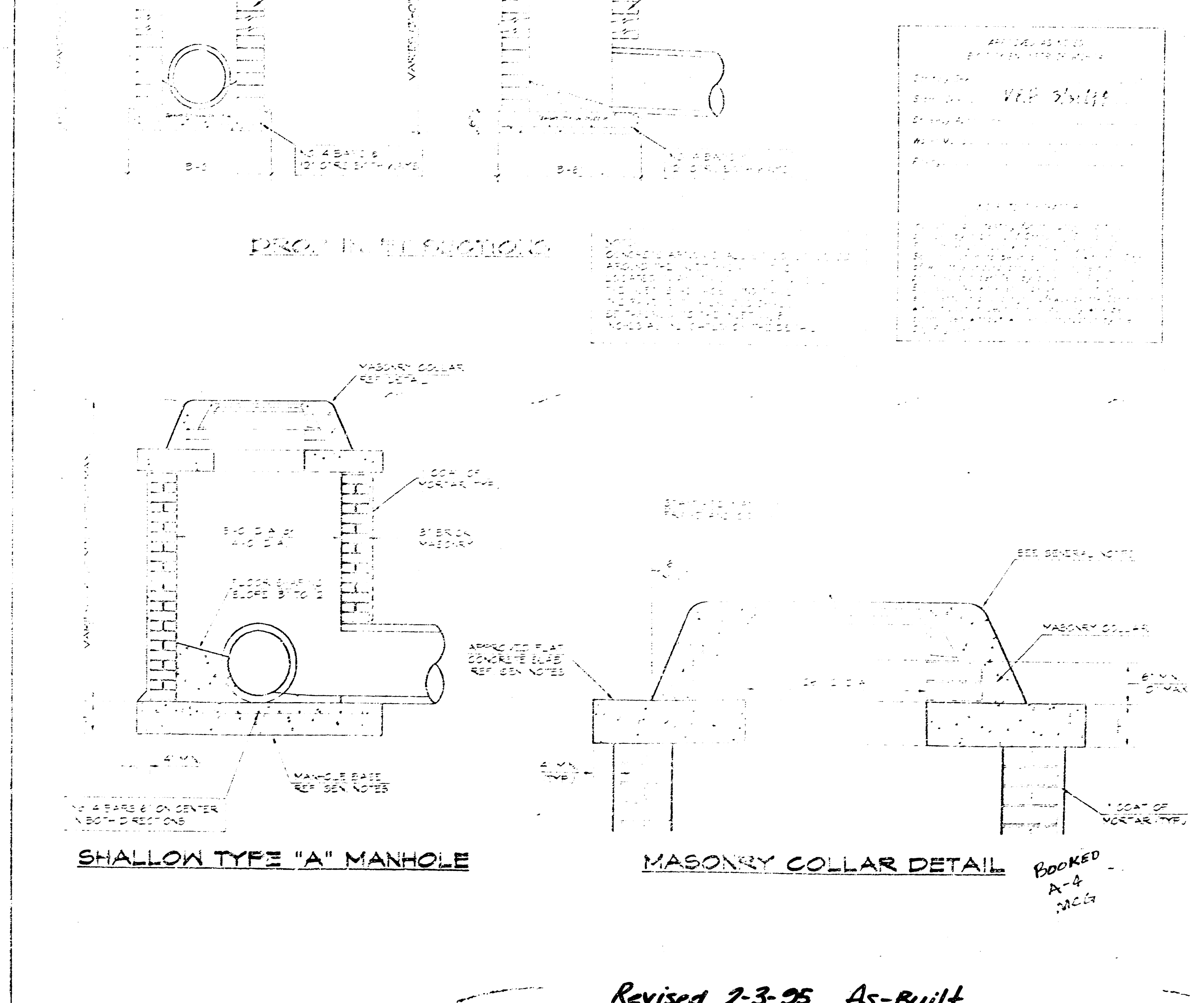




BENCH MARK: Railroad Spike in 4th Power Pole
North of Waterman on West Side of Rock Island.
Elevation = 110.39 City Datum

BENCH MARK: "x" Cut Under Railroad Overpass
On Concrete Sidewalk (North Walk)
Elevation = 107.74 City Datum.

1. **Marble** used in masonry construction shall contain 0.5% of cement per cubic yard. Concrete used in concrete base shall conform to the requirements of concrete for concrete pavement construction as specified in the city standard paving specifications. Use of 1" of concrete per inch of height of existing structure. Marble shall be placed around the manhole ring as shown on the detail and when manholes are constructed in unpaved roads, Type "A" shales manholes can be used on sewers when the manhole is not located within public street pavement. Manholes constructed under a pipe shall be smaller than 24" and have no inside diameter of 6". Manholes constructed where pipe sizes are 24" or larger shall have no inside diameter of 6". Constructed manholes 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 is to be reinforced with steel plates 8" above the bottom of the manhole base. All steel shall be welded to the installing reinforcing steel shall be installed at the unit price bid for the marble.
3. **The floors of all manholes** shall be shaped with two diameters such that the manholes be free of debris and free of areas where debris could be collected or where flow through the manhole from inlet to outlet pipe. Flow drains shall be placed on the bottom flange of the manhole plate and the outfalling pipe as shown by the detail. All the floors shall have slopes of 3 inches per foot in the direction of the flow of the channels leading to the flow channels. Pipes fed through manholes shall have the top removed to new level for the floor. The floor of a manhole shall be placed on the bottom of the bottom ring of the pipe and shall be 1" thick.
4. **Pipes installed with the excavation made** for the manhole shall be protected with concrete to the height of the excavation. When pipe is installed in the trench, the trench shall be terminated to the manhole. The trench shall be terminated to the manhole. The trench shall be terminated to the manhole. The trench shall be terminated to the manhole.
5. **Manholes shall be constructed with a minimum of 12" of concrete** around the manhole plate and the outfalling pipe as shown by the detail. All the floors shall have slopes of 3 inches per foot in the direction of the flow of the channels leading to the flow channels. Pipes fed through manholes shall have the top removed to new level for the floor. The floor of a manhole shall be placed on the bottom of the bottom ring of the pipe and shall be 1" thick.
6. **Manholes shall be constructed with a minimum of 12" of concrete** around the manhole plate and the outfalling pipe as shown by the detail. All the floors shall have slopes of 3 inches per foot in the direction of the flow of the channels leading to the flow channels. Pipes fed through manholes shall have the top removed to new level for the floor. The floor of a manhole shall be placed on the bottom of the bottom ring of the pipe and shall be 1" thick.



MASONRY COLLAR DETAIL

Revised 2-3-95 As-Built

			
NEW ORLEANS CENTER MULTIMEDIA SECURITY, INC. WICHITA, KANSAS		SCHAEFER JOHNSON COX FREY & ASSOCIATES PA ARCHITECTURE ENGINEERING PLANNING & INTERIOR DESIGN WICHITA, KANSAS 67201-2197 (316) 694-0471 FAX (316) 694-6335	
REVISION DATE		PROJECT NO. 2418 CG	
DATE 27 March, 1994		SWS 18-15-S	