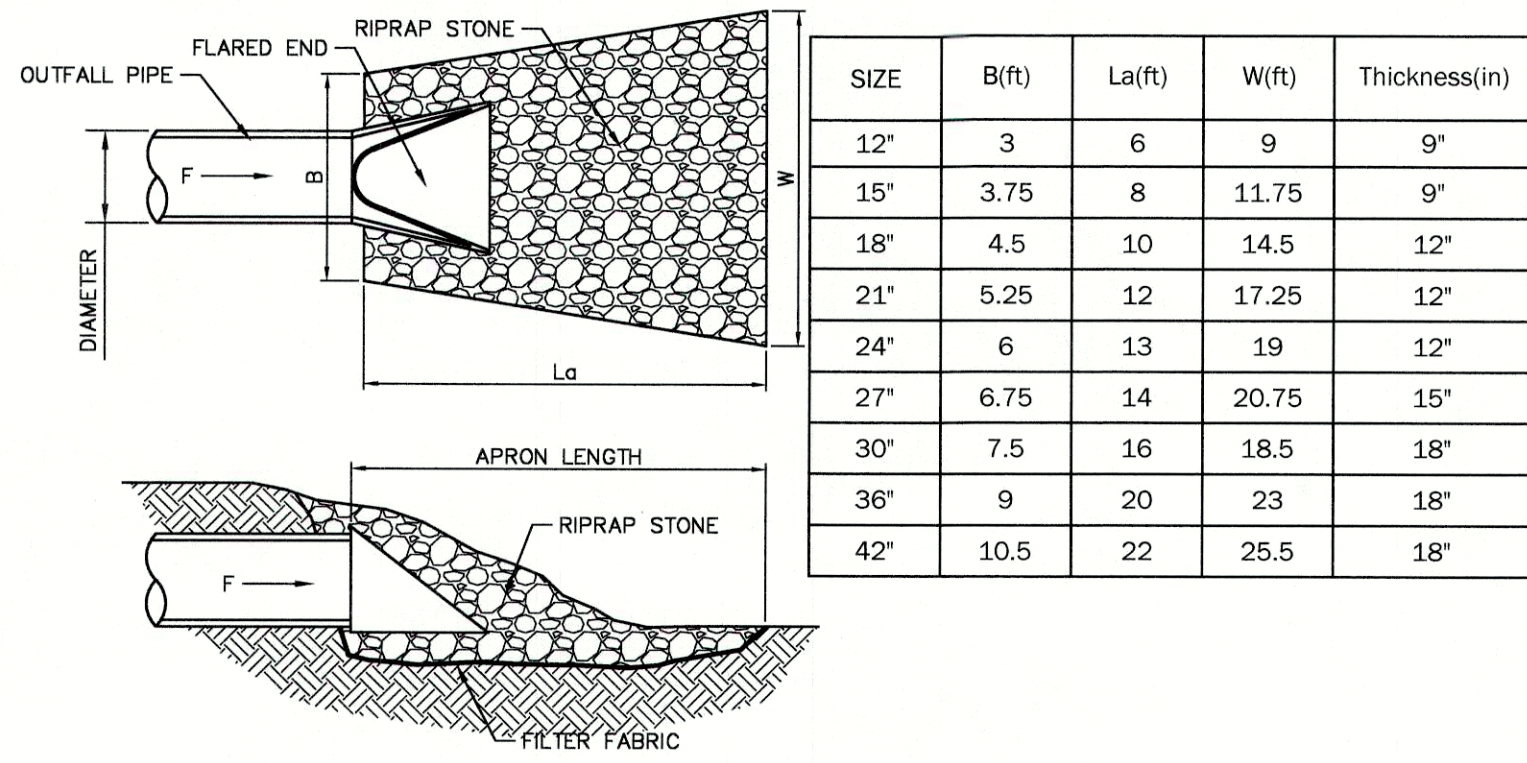


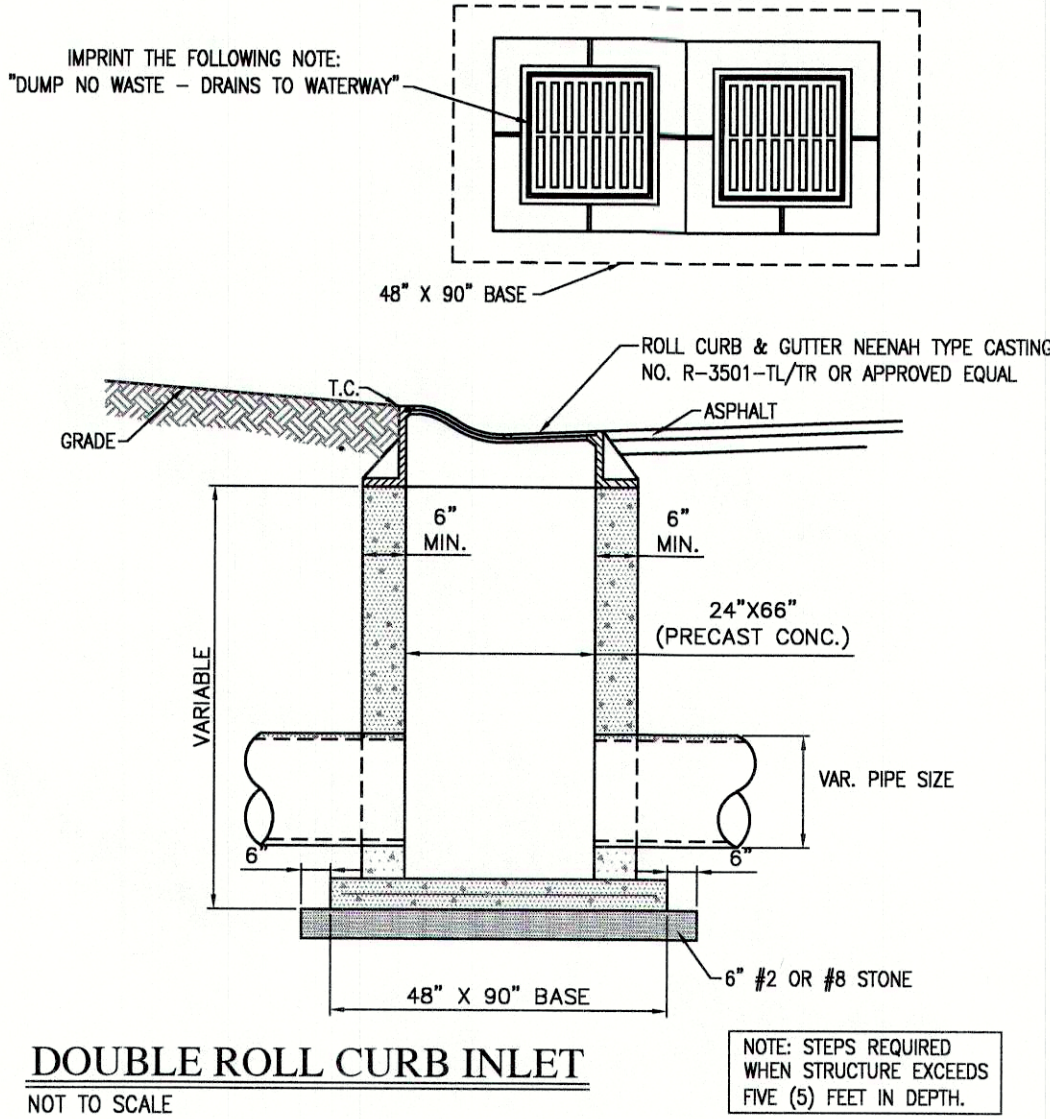
RIP-RAP PLACEMENT

NOT TO SCALE



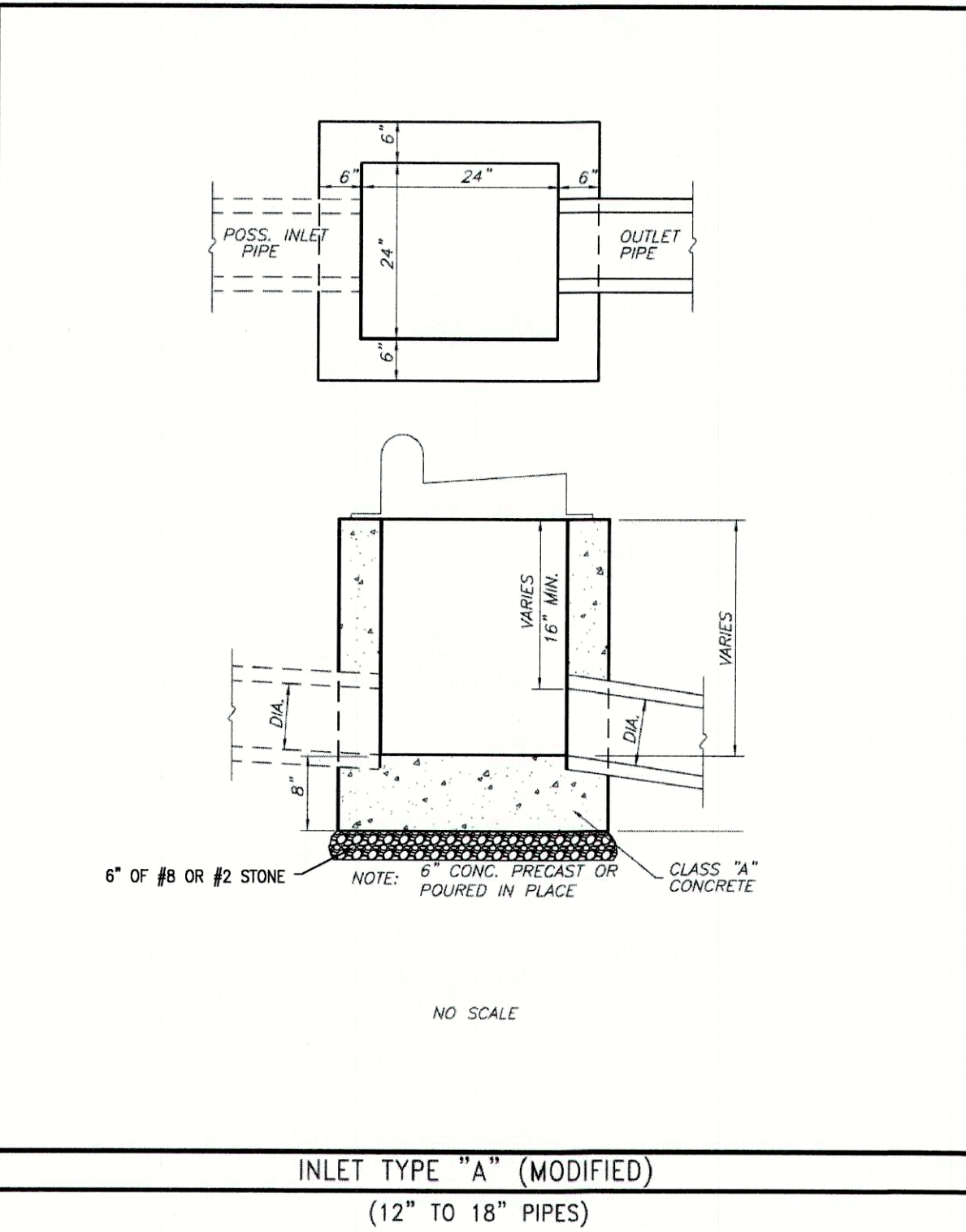
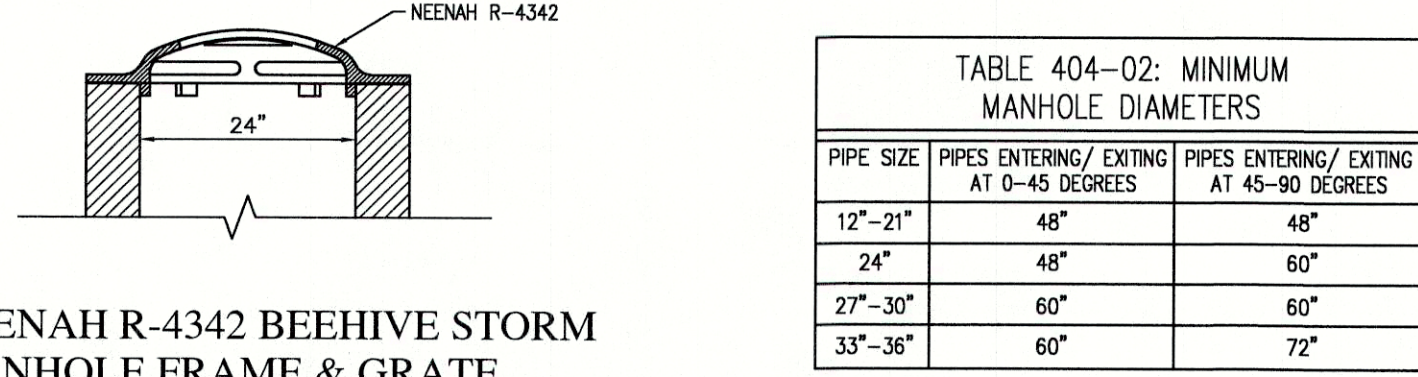
DOUBLE ROLL CURB INLET

NOT TO SCALE

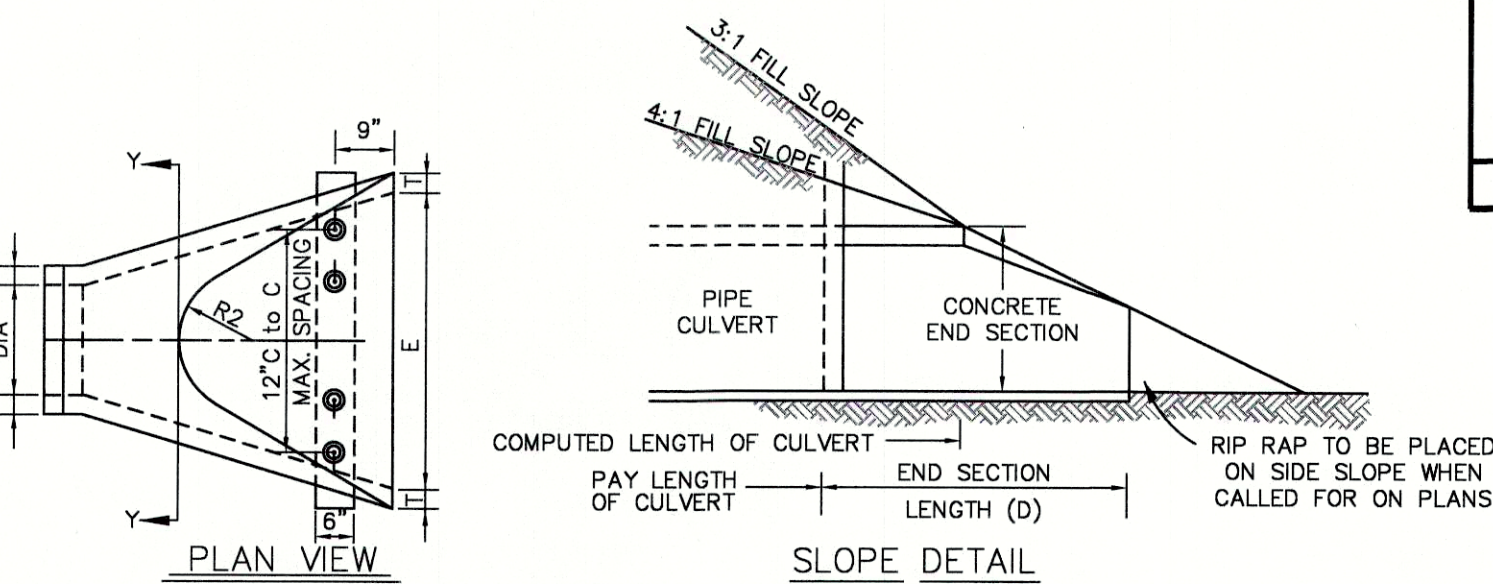


NEENAH R-4342 BEEHIVE STORM MANHOLE FRAME & GRATE

NOT TO SCALE

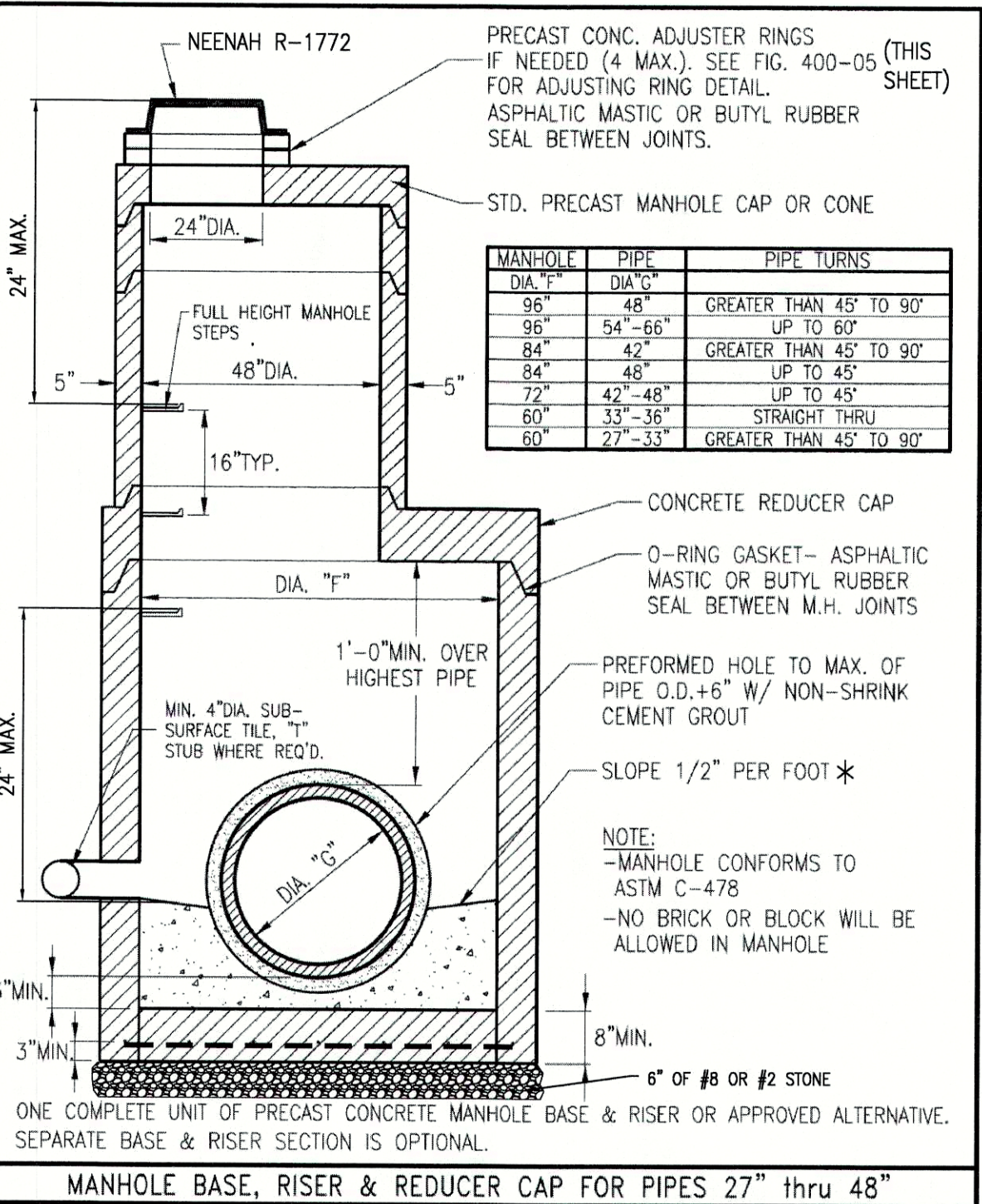
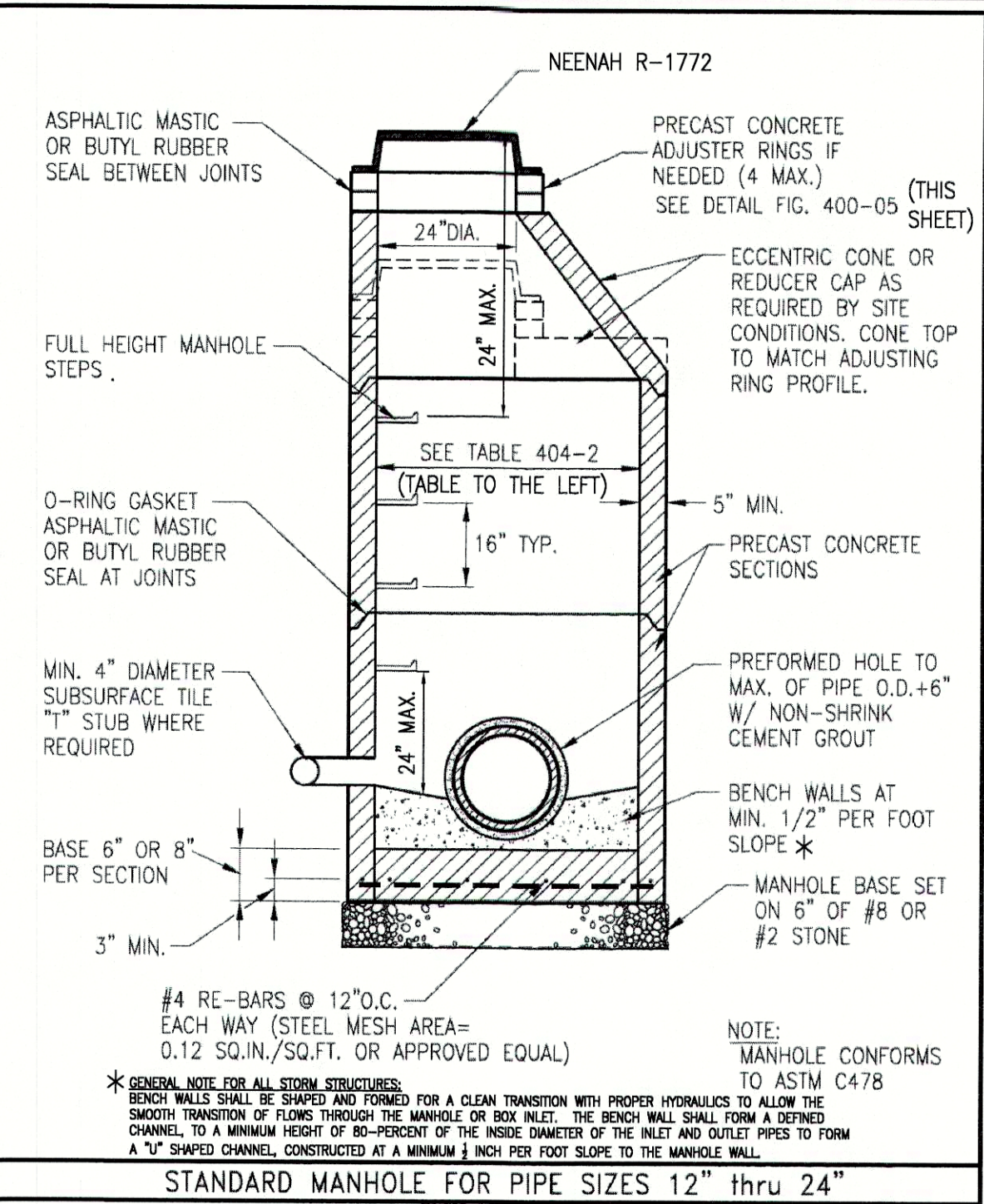


GENERAL NOTE FOR ALL STORM STRUCTURES:
BENCH WALLS SHALL BE SHAPED AND FORMED FOR A CLEAN TRANSITION WITH PROPER HYDRAULICS TO ALLOW THE SMOOTH TRANSITION OF FLOW THROUGH THE MANHOLE OR BOX INLET. THE BENCH WALL SHALL FORM A DEFINED CHANNEL, TO A MINIMUM HEIGHT OF 80-PERCENT OF THE INSIDE DIAMETER OF THE INLET AND OUTLET PIPES TO FORM A 1" SHARDED CHANNEL, CONSTRUCTED AT A MINIMUM 1/2 INCH PER FOOT SLOPE TO THE MANHOLE WALL.



PRE CAST CONCRETE END SECTION

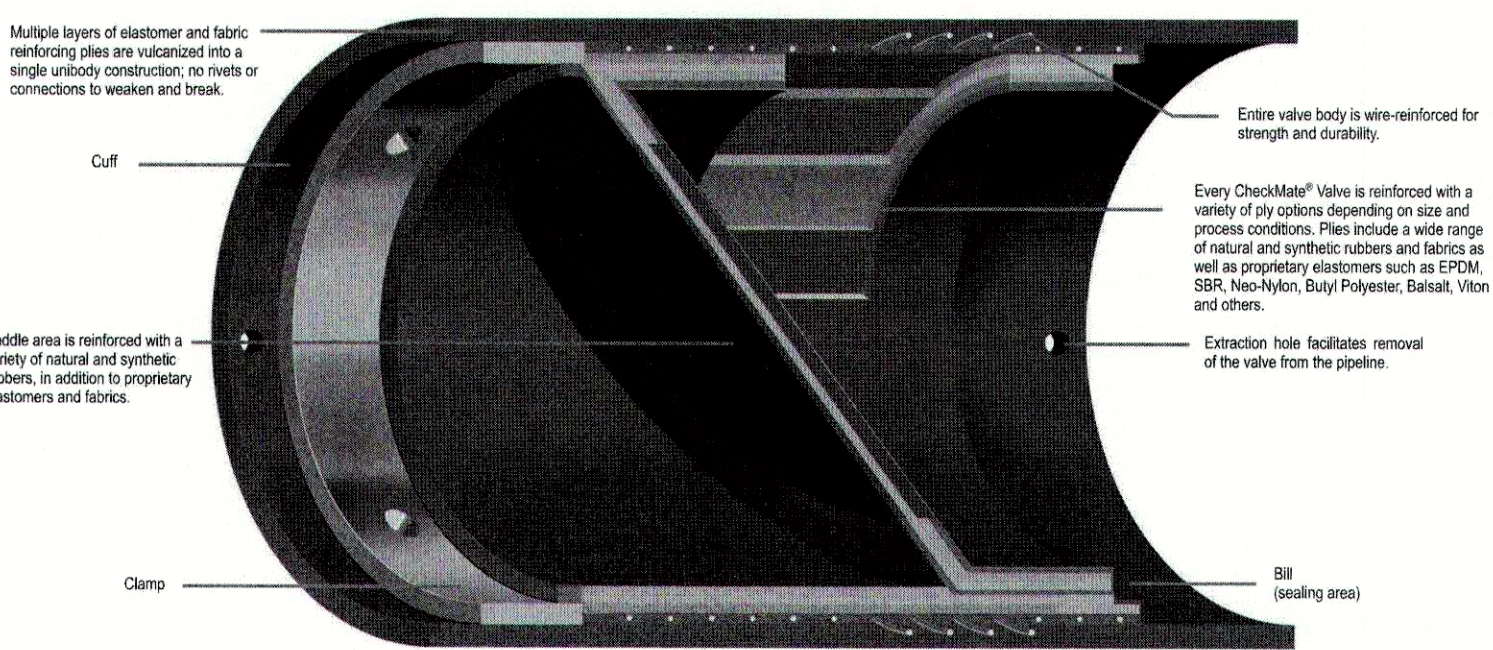
NOT TO SCALE



GENERAL NOTE FOR ALL STORM STRUCTURES:
BENCH WALLS SHALL BE SHAPED AND FORMED FOR A CLEAN TRANSITION WITH PROPER HYDRAULICS TO ALLOW THE SMOOTH TRANSITION OF FLOW THROUGH THE MANHOLE OR BOX INLET. THE BENCH WALL SHALL FORM A DEFINED CHANNEL, TO A MINIMUM HEIGHT OF 80-PERCENT OF THE INSIDE DIAMETER OF THE INLET AND OUTLET PIPES TO FORM A 1" SHARDED CHANNEL, CONSTRUCTED AT A MINIMUM 1/2 INCH PER FOOT SLOPE TO THE MANHOLE WALL.

Red Valve

There Is Only One CheckMate® Inline Valve!



The CheckMate® Inline Check Valve: Accept No Substitutes!

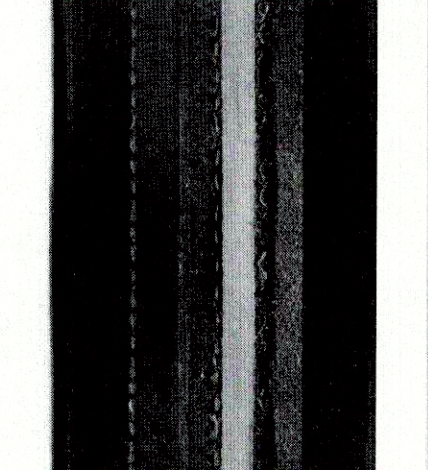
The innovative CheckMate® Inline Check Valve has quickly become the specified choice for inline residential, municipal and commercial areas where complete, dependable backflow prevention is critical. It has also become the valve of choice for municipal and industrial applications such as storm water, wastewater, highway runoff, CSD, SSO and flood control by preventing unwanted backflow that can cause surge and flooding. The CheckMate® Inline Check Valve minimizes damage to wetlands, beaches and residential areas and eliminates hydraulic surges to wastewater treatment plants, saving municipalities millions of dollars in maintenance and treatment costs.

One of the keys to the CheckMate® Valve's exceptional dependability and longevity is Red Valve's unmatched elastomer experience—experience, application knowledge and engineering know-how. Every CheckMate® inline Check Valve is hand-fabricated, made of multiple layers of varying natural and synthetic elastomers, wire and fabric-reinforced steel, all of which are vulcanized into a robust unitary valve. Unlike competing designs, there are no molded parts or mechanical fasteners and rivets that will loosen, act as catch points, break or corrode—ever. The key to CheckMate® Valve's longevity, performance and low headloss characteristics is the design and construction.

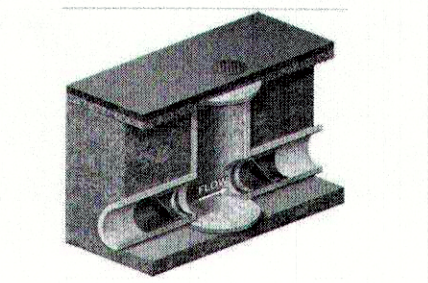
CheckMate® Inline Check Valves use state-of-the-art elastomer and fabric technology with no metal hinges, rivets, fasteners or moving parts. The valve's unitary construction is ideally suited for CSD and diversion chamber applications and installed inside the pipeline on either the upstream or downstream side of a diversion chamber.

THE CHECKMATE ADVANTAGE

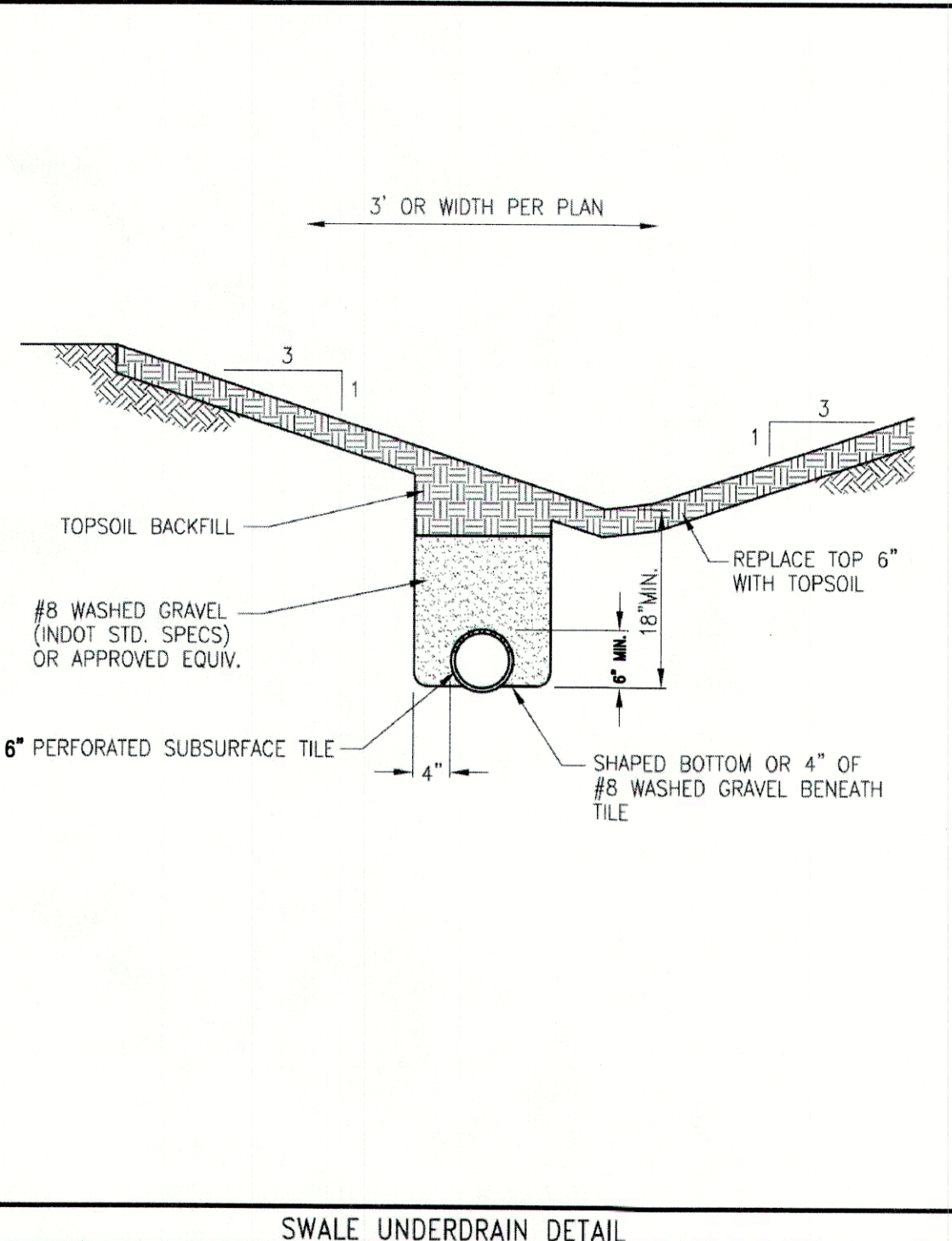
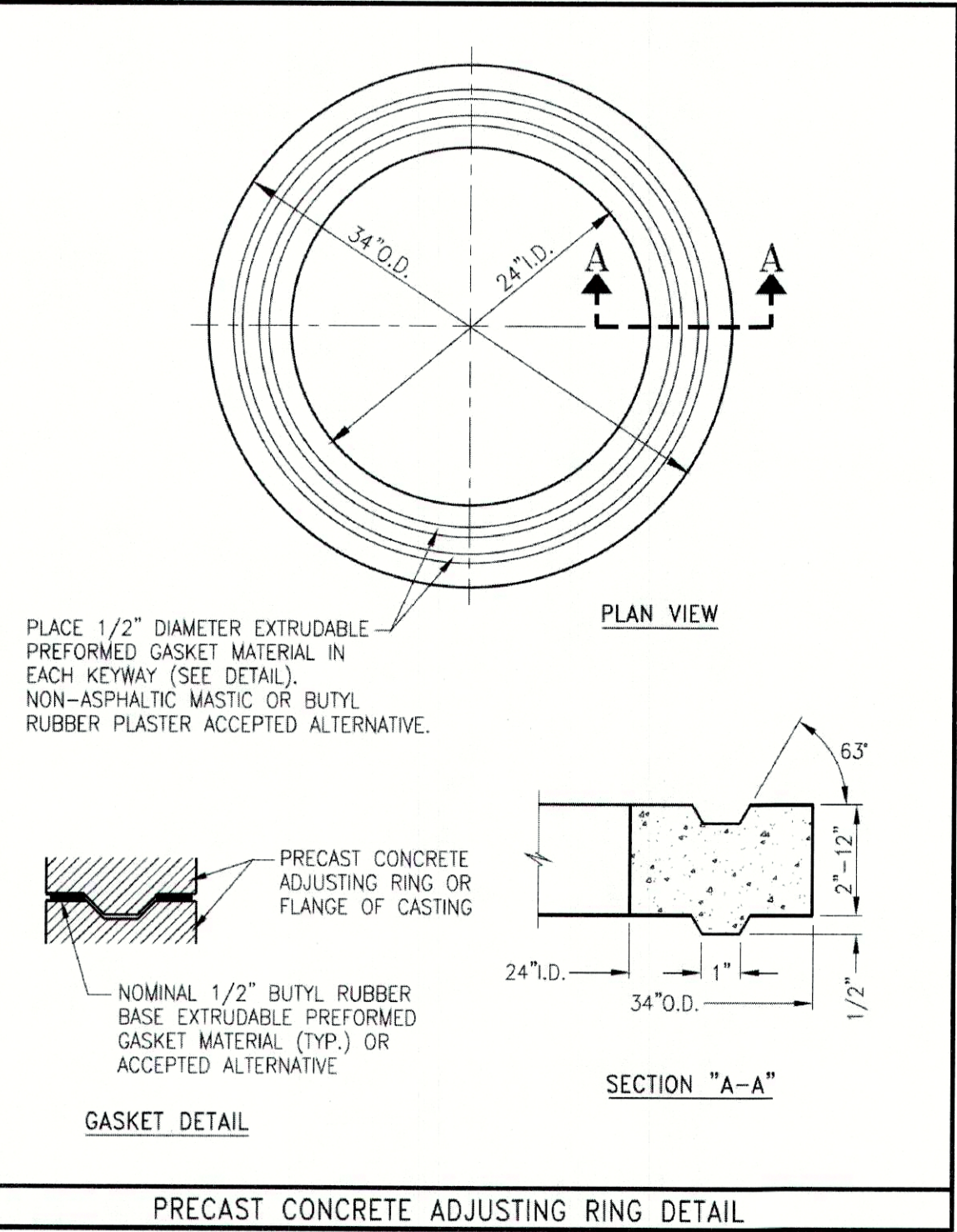
The World's Most Reliable Check Valve Engineering Guide



Red Valve's legendary elastomer technology and knowledge is the real story behind the CheckMate® Valve's unmatched performance. Every CheckMate® Valve is reinforced with various natural and synthetic plies, specifically engineered for your specific application.



CheckMate® Inline Check Valves use state-of-the-art elastomer and fabric technology with no metal hinges, rivets, fasteners or moving parts. The valve's unitary construction is ideally suited for CSD and diversion chamber applications and installed inside the pipeline on either the upstream or downstream side of a diversion chamber.



REVISIONS

DATE	DESCRIPTION	BY

HWC
ENGINEERING
INDIANAPOLIS - TERRE HAUTE
LAFAYETTE - MUNICE - NEW ALBANY
www.hwcengineering.com

MAPLE TRAILS SECTION 6 INGALLS, INDIANA CONSTRUCTION DETAILS

PREPARED BY
No. 11400758
STATE OF INDIANA
PROFESSIONAL ENGINEER
NOTED
Christopher K. Eichhorn
DRAWN BY
TD/GM
CHECKED BY
KE
DATE
SEPTEMBER 17, 2021
SCALE
AS SHOWN
SHEET
JOB NUMBER
2017-095-E

C8.2

CONSTRUCTION DETAILS