GENERAL:

In addition to requirements in each Section of the specification, comply with the following listed herein.

A. DELIVERY:

Deliver products bearing manufacturer's name, brand, with labels intact and legible. If products are usually packaged for delivery by manufacturer, then deliver in original, unopened, undamaged packaging. Also, deliver fire-rated products bearing testing agency label and required fire classification numbers.

B. HANDLING:

Handle/transport products with care to prevent soiling or other physical damage.

C. DAMAGED OR MARRED PRODUCTS:

It is the responsibility of the Supplier to inspect all material and supplies for flaws, damages, etc. In the event of questionable material or supplies, TSID shall have the right to accept or refuse said materials.

H.D.P.E PIPE:

A. SCOPE

This specification designates general requirement for high density polyethylene (H.D.P.E.) pipe. The pipe supplier shall certify compliance with the requirements of these specifications in writing.

B. TRANSPORTING AND OFFLOADING PIPE

1. During loading, transportation and unloading every precaution should be taken to prevent injury to the pipe. No pipes should be dropped from cars or trucks, or allowed to roll down slides without proper retaining equipment. During transportation each pipe shall rest on suitable pads, strips, skids, or blocks securely wedged or tied in place. Any pipe damaged shall be replaced.

2. The Supplier shall handle pipe with wide belt slings. Chains, cables, or other equipment likely to damage the pipe shall not be used.

C. MATERIALS

4 INCHES AND LARGER-
Pipe shall be High Density Polyethylene. Pipe shall be manufactured from a PE 4710 resin listed with the Plastic Pipe Institute (PPI) as TR-4. The resin materials will meet the specifications of ASTM D-3350 with a cell classification of PE: 445574C/E. Pipe shall have a manufacturing standard of ASTM F-714. Size will be to iron pipe sizes (IPS). The pipe shall contain no recycled compounds except that generated in the manufacturer's own plant from resin of the same specification from the same raw material.

The polyethylene raw material shall contain a minimum of 2% well dispersed, finely divided carbon black for UV stabilization.

The pipe shall be homogenous throughout and free from visible cracks, holes, foreign inclusions or other injurious defects. The pipe shall be as uniform as commercially practical in color, opacity, density and other physical properties.

The pipe shall be resistant to corrosion from high levels of hydrogen sulfide or other chemicals typically found in domestic and industrial sewage.

D. MEASUREMENT AND PAYMENT

The quantity of pipe of the various kinds, types, and sizes furnished, placed, and accepted will be field measured for payment to the nearest foot.

The accepted pay quantities will be paid for at the contract unit price per unit of measurement, respectively, for each of the pay items set forth in the bid schedule. Said price and payment shall be full compensation for furnishing all materials, as set forth in the plans and specifications.

E. IN ADDITION

Pipe and Fittings- Size as indicated on the plans. Install as shown in accordance with the manufacturer's recommendations. Butt Fusion shall be the standard method of joining. The bidder must have the ability to support the product in the field, and have available to them fusion rental equipment for 8 inch butt-fusion saddles.

There must also be available a field technician to service the equipment and train TSID personnel.

FITTINGS:

Butt-Fusion Fittings- Fittings shall be PE4710 HDPE, Cell Classification of 445574C/E as determined by ASTM D-3350 and be the same base resin as the pipe. Fittings can be molded or mitered. Sizes will be IPS sizes. Molded & fabricated fittings shall have a pressure rating equal to the pipe unless otherwise specified in the plans. Fabricated fittings shall be manufactured using data recorder. Temperature, fusion pressure and a graphic representation of the fusion cycle shall be part of the quality control records. All fittings shall be suitable for use as pressure conduits, and have nominal burst values of three and one-half times the Working Pressure Rating (WPR) of the fitting.

A. Markings for molded fittings shall comply with the requirements of ASTM D 3261. Fabricated fittings shall be marked in accordance with ASTM F 2206.

TESTING

All delivered pipe shall meet or exceed the testing requirements and specifications of ASTM F-1473

INSPECTION

Inspect the pipe for defects before installation and fusion. Defective, damaged, or unsound pipe will be rejected.

End Specification