

EXHIBIT "D - LP"

**SEACOAST UTILITY AUTHORITY
4200 HOOD ROAD
PALM BEACH GARDENS, FL 33410**

(PHONE: 561-627-2900)

"SHOP" SPECIFICATIONS FOR LOW PRESSURE SEWER SYSTEMS

Project Name: _____

Concurrence of Utility Contractor: _____

Signature

Date

Firm

Concurrence of the Engineer: _____

Signature

Date

Firm

By signature above, the utility contractor and engineer for referenced project agrees to adhere to both the following product specifications and Authority's Construction Standards and Specifications (latest edition). It is understood that Authority will reject construction not in accordance with this document.

Basis: The following products and specifications have been found to be acceptable and/or desirable in their respective groups. Shop drawings need not be submitted for Authority's approval if the contractor uses products on this list. Any product that is not on this list must be approved in advance by Authority. Such approval requires the submission of sufficient copies (Authority will retain two copies) of a shop drawing for each product that has been approved by the EOR. Shop drawings will also be required for all non-standard items including, but not limited to all precast concrete structures, lift station shut-off valve and valve box, hose bibb, backflow or vacuum breaker, pre-assembled lift stations, control panels, and electrical panels. All material for use in a potable water system shall be NSF61 certified.

CIRCLE ITEMS OF CHOICE

- a. Pipe: Sch 80 gray bell joint PVC, 350 psi (Charlotte Pipe).
 - b. Fittings up to 2 inch: Sch 40 PVC (Spears Manufacturing Company or approved equal).
 - c. Fittings 3 inch: MJ Ductile Iron Class 350 with Polybond or Protecto 401 lining.
 - d. Gravity piping to wet well: Sch 40 PVC, Sch 80 PVC, SDR 26, or equal piping with Sch 40, SDR 26, SDR 35, or equal fittings.
 - e. Valves 1 ¼ inch, 1 ½ inch, and 2 inch Ford Meter Box full port ball valves, PVC Pack Joint x PVC Pack Joint B77-555, B77-666, and B77-777.
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- f. Valves 3 inch: Milliken Millcentric Eccentric Plug Valves, MJ body with stainless steel bolting, nickel seat, Nitrile (Buna) Elastomer trim, with 2 inch square operating, bi-directional shut off.
 - g. Valve boxes for 3 inch: Ametek 5 ¼ inch plastic valve box with cast iron cover and ring with "sewer" designation.
 - h. Valve Boxes for up to 2 inch valves: Russco VB2607S with "sewer" designation with 6 inch SDR 35 PVC riser.
 - i. Clean out Boxes: Carson Plastic #MSBCF1118-12XL with Ebba Iron Lid #MKSCBC1118.
 - j. Pipe Tracing Wire: Continuous (no breaks) #10 AWG stranded copper conductor Type THWN with a 30 mil thick green HDPE insulation rated for 30 volts, Proline Safety #7401205 or equal, fastened with 11 inch cable ties and Dryconn Direct Bury lugs #90120.
 - k. PVC Primer Cement: Hercules Purple, medium bodied.
 - l. Thread Sealing Compound: PTFE paste (LA-CO Slic-tite or Hercules Real-tuff).
 - m. 2 inch and smaller plugs: Sch 40 red brass, solid type with square head (Lee).
 - n. Underground Marking Tape for SUA owned piping: Non-detectable type polyethylene 6 inch width, 4.0 mil thick, working: "Caution: Buried Sewer Line Below" in black lettering with green background, Proline-Safety 10434 or approved equal.
 - o. Underground Marking Tape for privately owned piping: Metallic detectable tape, Terra Tape #540 or equal, marked Caution: "Sewer Line Below".
 - p. Reduced Pressure Backflow Preventer - Non-residential, multi-family, or residential with three or more units. Supply with chloramine resistant silicone rubber seal rings or disks, lead free brass.
 - a. Watts Model LF 919 ¾" to 2"
 - b. Ames Model LF 400B ¾" to 2"
 - c. Wilkens Model 975xL2 ¾" to 2"
 - d. Apollo Model RPL 4A 4" to 12"
 - e. Ames Model #4000 SSI, #4000 SSR, 4" to 10"
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