

EXHIBIT "E"

SEACOAST UTILITY AUTHORITY

RECORD DRAWING SUBMITTAL GUIDE

The following shall be used as a guide for submittal of record drawings to Authority

1. Two (2) sets of prints shall be submitted by the EOR to Authority for review prior to scheduling inspections such as, but not limited to, pressure test, sanitary sewer lamping or any other element of the system which is determined necessary by the Authority. The drawings shall have been reviewed by the EOR for deficiencies.
2. The drawings will be reviewed by the Authority for deficiencies. Deficiencies will be indicated on one (1) set of prints which will be returned to the EOR for necessary corrective action.
3. Elevations shall be provided in NAVD 1988 Datum. A conversion table to NGVD 1929 shall be provided on each plan sheet of the drawing set.
4. After final inspection and upon acceptance of as-built data, two (2) prints (signed and sealed by a Florida registered land surveyor) one set of mylars and a PDF file and a CADD file (DWG or DXF) of the record drawing rotated and translated to state plane coordinates to the nearest hundredth's (2 decimal places) NAD 83, Florida East Zone.
5. No disclaimers on drawings will be accepted.
6. Surveyor's Certification must be included on Final Prints and Mylars (See Page 4).

The attached list of required information is to be used as guide for submittal of Record Drawings to the Authority. Additional information may be required by the Authority if it is determined by the Authority that the information supplied would be insufficient for a utility worker, with no surveying experience, to be able to locate mains, fittings, etc. The submittal record drawings shall meet Chapter 61 G17-6 Minimum Technical Standards. As noted in Section 61 G17-6.003, the public must be able to rely on the accuracy as noted in Section 61 G17-6.005

- (a) When performing as-built or record surveys, the surveyor and mapper shall obtain field measurements of vertical or horizontal dimensions of constructed improvements so that the constructed facility can be delineated in such a way that the location of the construction may be compared with the construction plans, and when the surveyor and mapper prepares as-built maps they will clearly show by symbols, notations, or delineations, those constructed improvements located by the survey. All maps prepared shall meet applicable minimum technical standards.
- (b) The vertical and horizontal accuracy shall be such that it may be determined whether the improvements were constructed consistent with planned locations.
- (c) Northerly and Easterly coordinates on all field obtained measurements and provided on all record drawing submittals.

REQUIRED INFORMATION ON RECORD DRAWINGS

GENERAL

1. Drawings on 24" x 36" 3-mil mylar that will reproduce legibly.
2. Label drawings "Record Drawings" with date.
3. Complete title block with current file name.
4. Location sketch.
5. Correct Street/Road names.
6. Surveyor's Certification.
7. GPS collected as-built information to be in DFX file format.
8. All record information shall be denoted by either a cloud or bold print. Design information shall be crossed out.
9. Profile as-builts required on projects where profiles were part of approved construction plans.
10. Utility Easements – with ties of facilities to easement lines.

GRAVITY SEWER

1. As-built distance of gravity main from centerline of road or easement right-of-way line, buildings, or as determined by Authority. Extensions of an imaginary line will not be acceptable as reference points.
2. Type of materials installed - mains and services.
3. Stationing of each manhole.
4. Stationing of each sewer service wye from sewer nearest manhole and off set distance and stationing of cleanout from sewer main.
5. As-built elevations - each invert.
6. As-built rim elevation.
7. As-built sewer slope.
8. As-built sewer inverts and finished grade at clean outs.
9. As-built crossing elevations including sewer service lines.
10. Complete lift station including details.
11. Grease traps sizes in gallons.
12. As-builts information shall include plan and profile.

PRESSURE PIPE

1. As-built distance of mains at 100' intervals from centerline of paved road, and rights of way, 50' intervals at edge of easements, rights-of-way, buildings, sewer main, or as determined by Seacoast Utility Authority. Extensions of an imaginary line will not be acceptable as reference points.
2. As-built elevations at 100' intervals as well as any change in direction and/or elevation. Elevations shown at these intervals and changes must show top of pipe elevation and finished grade elevation at that location.
3. Stationing offset, top of pipe, and finished grade of each valve, fitting, air release valve, service line, taps, plugs, etc. and radial dimensions from a nearby permanent object.
4. Type of materials installed - pipe and appurtenances. Indicate all locations of change of material including joint type (MJ, slip, restrained).
5. Valve type (butterfly, gate, and plug).
6. As-built length of all jack and bore casings indicating distance from centerline of paving to each end of casing. As-built invert and top of casing elevation of each end of casing as-built finish grade of each end of casing. As-built distance from each end of casing to limits of mechanical joint pipe is also required.
7. As-built all crossing information between utilities including bottom of pipe, top of pipe, size and type.
8. Provide as-built information on plan and profile when profile is included in original plans.
9. As-built lengths of water service lines.
10. As-built fire hydrant locations and type of hydrant used including flange grade.
11. As-built all flush hydrants and size, if any.
12. Size of mains, service lines, backflows, meters, etc.
13. As-built blow up detail may be required of congested areas to ensure legibility.

SURVEYOR'S CERTIFICATION

KNOWN ALL PERSONS BY THESE PRESENTS, that the undersigned, _____ has prepared the record drawings for water, sewer and reclaimed facilities and does hereby CERTIFY, in their professional opinion, that the water, sewer, and/or reclaimed water mains and related appurtenances shown on the RECORD DRAWINGS, sheets _____ dated _____ and observed by _____ in their constructed locations at the project known as _____ being dedicated to SEACOAST UTILITY AUTHORITY for ownership and maintenance, were installed within the limits of the following parcels of land:

Easements and/or Tracts as dedicated for utility purposes on the Plat of _____.

Plat Book _____, Pages _____, Public Records of Palm Beach County, Florida

Easement as dedicated to Authority in Official Record Book _____, Pages _____, Public Records of Palm Beach County, Florida

and that the facilities that have been located and depicted on the record drawings do not encroach onto adjacent parcels of land or outside the boundaries of easements.

Signed _____ Florida Registration No. _____

Name _____ AFFIX SEAL
(Please Type)

Company Name: _____

Address: _____

Telephone: _____

The above **must** appear on the Final Record Drawings and Mylars.