Required Format for As-Built Coordinate Data Submittals

To ensure consistency, accuracy, and compatibility with our GIS and asset management systems, all as-built coordinate data must be submitted in the standardized format described below. This specification defines the required coordinate system, acceptable file formats, and the exact data fields that must be included. Following these requirements will streamline data review, reduce errors, and ensure that as-built information is integrated quickly into our records.

1. Spatial Reference

- PCS: South Carolina State Plane NAD83 HARN, International Feet (WKID: 3361)
- Vertical: NAVD88, US Survey Feet (WKID: 6360)

2. File Format

- Submit data as **ASCII text** or **comma-delimited CSV** file.

3. Required Data Fields:

1. **ID** – Unique identifier for each asset or feature
2. **X** – Easting coordinate in feet
3. **Y** – Northing coordinate in feet
4. **Top Elevation** – Elevation in feet at the top of the structure or surface feature
5. **Invert In Elevation** – Elevation for the incoming pipe or channel in feet
   a. *Note: If multiple incoming pipes are present, include additional elevation values for each.*
6. **Invert In Pipe Identifier** – Unique identifier for each incoming pipe if multiple incoming pipes exist
   a. *Note: Include this field only when multiple incoming pipes are present.*
7. **Invert Out Elevation** – Elevation for the outgoing pipe or channel in feet
8. **Structure Description** – Abbreviated description of the surveyed structure
   a. *Examples:* SSCO = Sanitary Sewer Cleanout, SSMH = Sanitary Sewer Manhole

Example:

```
ID,X,Y,TopElev,InElev,OutElev,Desc
1,1125138.7641,1610785.8199,914.2040,906.1983,906.0125,SSMH
2,1125194.6018,1610773.8633,917.4374,911.4269,911.1465,SSMH
3,1125208.9179,1610778.9535,918.4713,SSCO
4,1125205.9251,1610778.9271,918.3894,SSCO
```