AS-BUILT	
INFORMATION PROVIDED BY:	
Name:	
Address:	
Phone#:	
I HEREBY CERTIFY THAT THE	
	Chilled Water
Pavement Pavement	Water Main
Curb & Gutter	Reclaimed Water Main
Storm & Drainage System	Force Main
Lake or Pond	Sanitary Gravity System
Underdrain Connections	Lift Station
MEET THE-MINIMUM TECHNICAL STANDARDS F PER CHAPTER 5J-17.051 AND 5J-17.052, F.A.C. ELECTRONIC DRAWING FILE NAME:	TIONS AS SHOWN ON THESE "AS-BUILT" DRAWINGS AND OR SURVEYING AND MAPPING IN THE STATE OF FLORIDA AS
DATE OF FIELD SURVEY:	
SURVEYOR'S SIGNATURE:SURVEYOR'S NAME:PSM#:	
	AND COMPLETE WITHOUT THE OTHER AND ARE NOT VALID ED SEAL OF THE FLORIDA LICENSED SURVEYOR AND

V.1.3. FOR CONTRACTORS:

AS-BUILT	
INFORMATION PROVIDED BY:	
Date:	
Name:	
Address	
Phone#:	
I HEREBY CERTIFY THAT THE MATERIALS A	ND QUANTITIES USED IN THE CONSTRUCTION OF:
	Chilled Water
Pavement	Water Main
Curb & Gutter	Reclaimed Water Main
Storm & Drainage System	Force Main
Lake or Pond	Sanitary Gravity System
Underdrain Connections	Lift Station
	PLANS AND JEA STANDARDS AND COUNTY SPECIFICATIONS,
UNLESS OTHERWISE APPROVED BY THE R	EGULATORY AGENCY.
CONTRACTOR'S SIGNATURE:	
CONTRACTOR'S NAME:	
	ISE NUMBER:
CONTROLONG OTATE OTHER EIGE	OL NOMBER.

V.1.4. **FOR PROJECT MANAGERS:**

RECORD DRAWING		
INFORMATION PROVIDED BY:		
Date:		
Name:		
Address		
Phone#:		
	-	
I HEREBY CERTIFY THAT THE MATERIALS AND QUANT	TITIES USED IN THE CONSTRUCTION OF:	
	OLI LIW I	
	Chilled Water	
Pavement	Water Main	
Curb & Gutter	Reclaimed Water Main	
Storm & Drainage System	Force Main	
Lake or Pond	Sanitary Gravity System	
Underdrain Connections	Lift Station	
 -		
ARE IN ACCORDANCE WITH THE APPROVED PLANS AND JEA STANDARDS AND COUNTY SPECIFICATIONS, UNLESS OTHERWISE APPROVED BY THE REGULATORY AGENCY. INFRASTRUCTURE IS AT THE HORIZONTAL AND VERTICAL LOCATIONS AS SHOWN ON THESE "RECORD" DRAWINGS.		
JEA PROJECT MANAGER'S SIGNATURE:		
JEA PROJECT MANAGER'S NAME:		

V.2. JEA AS-BUILT OR RECORD DRAWING SUBMITTAL TRANSMITTAL

Water / Wastewater / Reclaimed Water / Chilled Water Pipes and Pumping

To:	W&S As-Built Submitta	ıl Mailbox		
From:				
Phone:		E-mail:		
Company Name:				
Company Address				
Date of Submittal:				
Signature of Submitter Verifying Compliance:				
Project Name:				
Project Type: (Check all that apply)	New Development	Treatment Plant	JEA Installed	JEA Contractor
Project Purpose	Main Extension	Main Replacement	Main Relocation	Plant Project
JEA Availability Number:			JEA Capital Project Number:	
JEA Project Manager:			JEA PM e-mail:	
Engineering Firm:				
Engineering Contact:				
Engineers Phone:				
Engineers E-mail:				
Contracting Co.:				
Contractor Contact:				
Contractor Phone:				
Contractor E-Mail:				
Surveying Co.:				
Surveyor Contact:				
Surveyors Phone:				
Surveyors E-mail:				
JEA O&M representative:				
Attached:	Water As-Builts &	Data Tables – Electronic		
	Wastewater As-Bu	ıilts & Data Tables – Elect	ronic	
	Wastewater Pump	Station Attribute Tables E	Electronic	
	Reclaimed Water	As-Builts & Data Tables –	Electronic	
	Chilled Water As-E	Builts & Data Tables – Ele	ctronic	
			gineer, Contractor or Surve	eyor
		Checklist filled out by JEA	A Project Manager	
	Equipment Attribut	te Worksheets completed		

V.3. JEA AS-BUILT OR RECORD DRAWING SUBMITTAL REQUIREMENTS CHECK LIST PIPELINES AND PUMPING STATIONS

Project Name:	
JEA Availability Number:	JEA Capital Project Number:
	Initial next to each requirement verifying compliance
Separate As-Builts or reco	ord drawings for water, wastewater, reclaimed water and chilled water as one continuous PDF
On each page of as-built,	certification filled out, signed, sealed and dated by surveyor/mapper
On each page of as-built,	certification filled out, signed and dated by contractor
On each page of record d	rawing, certification filled out, signed and dated by JEA project manager
Old lines not built as per o	design deleted and redrawn as constructed
Notes and elevations not	struck through, but changed
"AS-BUILT" or "RECORD	DRAWING" labeled in 1" letters on each page
PDF sheets are 24" x 36"	in size
All PDF sheets combined	into one document
All Utility Services (Water	/Sewer/Reclaimed/Chilled) provided on first and every submittal
CAD and Excel files provi	ded on first and every submittal
Includes all changes by A	ddendum or Change Order or SWA (Supplemental Work Allowance)
As-Built Includes datum 8	reference to state plane coordinates (Florida East Zone NAD 83, NAVD 88)
Vicinity map on cover pag	ye
Street names on all street	S
North Arrow and Graphic	Scale on each page
Cover Page required which	ch is a separate page from Utility Pages
Call outs provided for any	main that is Removed, Abandoned/Grout Filled, or Out of Service. Call out beginning and end points
Availability number and/or	r JEA Capital Project number on Cover Page and on each page
JEA easements labeled a	s such, including RE number and Official Records Book and Page (OR #).
Date of utility installation of	completion on Cover Page
Ownership transition poin	t between JEA and Private system clearly designated on the as-built drawing.
Master Plan showing pha	sing for the entire development
Match lines shown for cor	ntinuation to other sheets

Private utilities installed as part of this project shown
Call outs provided showing points of connection to existing JEA infrastructure.
Water pressure and/or force main pressure sensors are identified.
Pump station as built include all detail sheets.
As Built Cover Page
Title with "As-Built" and Project Name underneath. If known, provide address
Availability Number and/or the JEA Capital Project Number
Vicinity Map (refer to Standards Manual for Vicinity Map requirements)
Date of utility installation completion
Legend
Surveyor Notes (includes vertical and horizontal datum)
General Notes (specific utility notes provided on utility sheets)
Certifications filled out, signed, and sealed on every sheet, including cover sheet
Title Block
Surveyor logo and address
Cover Page should not include:
As-Built utility plans
Data Tables

POTABLE WATER SYSTEMS **WATER MAINS** Elevations on the main and finished grade shown at: Points of connection to the existing system and called out on the plan view and shown in the points along pipe table In the event of potable water temporarily serving irrigation demand, call out the point of connection between potable and reclaimed Points of crossing over or under wastewater mains, reclaimed mains, chilled water mains or storm drains called out on the plan view and shown in the pipe crossing table At maximum of 100 ft. intervals called out on the plan view and shown in the points along pipe table Where less than 30 inches or greater than 48 inches of cover is provided called out on the plan view and shown in the points along pipe table Main stub outs called out on the plan view and shown in the points along pipe table Beginning and ending points of pipe exposed aboveground are shown in the points along pipe table, with Pipe Orientation noted as Aboveground Each water main section is shown with pipe size, pipe material and pipe pressure class called out with a leader line pointing to the applicable main. A new call out should be placed when the pipe size, pipe material, and/or pressure class changes. Provide a note on each water sheet for water service laterals stating the size, pressure class, and material Beginning and end points of horizontal directional drills located by professional surveyor HDD (Horizontal directional drill) bore log included showing: Bore in plan view showing length and beginning/end points called out with coordinates Bore profile view provided on separate sheet • Bore log on 24" x 36" sheets Certified by HDD contractor Horizontal and vertical location data at 25 ft. intervals (max) Points along Pipe table with data at points of connection and maximum 100 ft intervals:

- Pipe Location Number (WPOC#, WWPOL#, etc)
- Pipe Location (Point of Connection, Top of Pipe, Top of Casing)
- Pipe Subtype
- **Facility Owner**
- Pipe Size
- **Pipe Orientation**
- Pipe Class
- Pipe Manufacturer
- Pipe Material
- Pipe Lining Manufacturer

- Pipe Lining Material
- Finished Grade Elevation (feet)
- Pipe Top Elevation (feet)
- Pipe Cover (feet)
- X Coord (State Plane Easting feet)
- Y Coord (State Plane Northing feet)
- Latitude (Decimal Degrees)
- Longitude (Decimal Degrees)

Pipe Crossing table with data at each crossing:

- Crossing Number
- Upper Pipe Type
- Upper Pipe Size
- Finished Grade Elevation (feet)
- Upper Pipe Top Elevation (feet)
- Cover to Top of Upper Pipe (feet)
- Upper Pipe Bottom Elevation (feet)
- Lower Pipe Type
- Lower Pipe Size (inches)
- Lower Pipe Top Elevation (feet)
- Cover to Top of Lower Pipe (feet)
- Separation Between Pipes (feet)
- X Coord (State Plane Easting feet)
- Y Coord (State Plane Northing feet)
- Latitude (Decimal Degrees)
- Longitude (Decimal Degrees)

WATER FITTINGS

Each fitting shows a call out designating fitting number, fitting type (45, tee, etc.) and size with leader pointing to the installed fitting. All Fittings should be clearly shown on the main.

Table included with data for each fitting:

- Fitting Number (WF#)
- Subtype = Fitting Type (see data table file for subtypes)
- Facility Owner (JEA or PRIVATE)
- Fitting Size Primary (Inches)
- Fitting Size Secondary (Inches)
- Manufacturer
- Fitting Material (DIMJ, PVC or HDPE)
- Lining Manufacturer
- Lining Material
- Fitting Top Elevation (feet)
- Finished Grade Elevation (feet)
- Fitting Depth (feet)
- X Coord (State Plane Easting feet)
- Y Coord (State Plane Northing feet)
- Latitude (in Decimal Degrees)
- Longitude (in Decimal Degrees)

WATER VALVES

Each valve shows a call out designating valve number, valve type, and valve size with leader pointing to the installed valve. All Valves should be clearly shown on the main.

Table included with data for each valve:

- Valve Number (WV#)
- Valve Subtype = Valve, ARV, Backflow, Hydrant
- Valve Type
- Facility Owner (JEA or PRIVATE)
- Valve Size
- Valve Orientation
- Valve Open Direction (left/right)
- Valve number of turns required to open the valve
- Valve Nut Elevation (feet)
- Finished Grade Elevation (feet)
- Depth to Nut (feet)
- Valve Manufacturer
- X Coord (State Plane Easting feet)
- Y Coord (State Plane Northing feet)
- Latitude (in Decimal Degrees)
- Longitude (in Decimal Degrees)

WATER HYDRANTS

Each hydrant shows a call out designating hydrant number with leader pointing to the installed hydrant.

Table included with data for each hydrant:

- Hydrant Number (WH#)
- Facility Owner (JEA or PRIVATE)
- Hydrant Manufacture Date (year)
- Hydrant Manufacturer
- X Coord (State Plane Easting feet)
- Y Coord (State Plane Northing feet)
- Latitude (in Decimal Degrees)
- Longitude (in Decimal Degrees)
- RFID/Barcode Number

WATER METERS AND METER BOXES

Each meter box shall be listed in the data table with meter number matching the Lot # or Address #. If no Lot # or Address # exists, assign a water meter number not included in the Lot # series. Show this meter number at the meter on the plan view and in the data table.

Irrigation Meters shall be numbered with Meter Number, shown and called out on the plan view and included in the water meter data table.

Location of meter boxes indicated and referenced to property lines (not necessary for 2 inch or less residential meters located as per standards).

The size meter to be installed for each meter

Table included with data for each water meter box:

- Meter Box Number (WM#)
- Proposed Meter Size
- Meter Subtype = Minor Meter (<2"), Major Meter, Irrigation Meter
- Facility Owner (JEA or PRIVATE)
- Meter Box Orientation
- Meter Box Manufacturer
- Meter Box Material
- X Coord (State Plane Easting feet)
- Y Coord (State Plane Northing feet)
- Latitude (in Decimal Degrees)
- Longitude (in Decimal Degrees)

WATER LOCATE WIRE BOXES

Each locate wire box shows a call out designating locate wire box number with leader pointing to the installed box
Table included with data for each locate wire box:

- Locate Wire Box Number (WL#)
- Locate Box Subtype (Marker Ball, Locate Wire Box)
- X Coord (State Plane Easting feet)
- Y Coord (State Plane Northing feet)
- Latitude (in Decimal Degrees)
- Longitude (in Decimal Degrees)

WASTEWATER SYSTEMS

<u>GR</u> A	AVITY MAINS
	Elevations on the main and finished grade shown at:
	 Points of connection to the existing system and called out on the plan view and shown in the points along pipe table Points of crossing over or under water mains, reclaimed mains, chilled water mains, wastewater mains or storm drains and shown in the pipe crossing table Lateral (service) end points Main stub outs
	Beginning and ending points of pipe exposed aboveground are shown in the points along pipe table, with Pipe Orientation noted as Aboveground.
	Vertical separation called out at crossings with water mains
	Plan and profile drawings provided showing pipe and manholes
	Each gravity wastewater main section between manholes is shown with pipe size, pipe material, pipe pressure class, pipe length and slope called out with a leader line pointing to the applicable main.
	Call out High Line (HL) and Low Line (LL) on the plan and profile view
	Note if Sewer Service ties into Low Line in profile view
	Provide a note on each sewer sheet for sewer laterals stating the size, pressure class, and material
	The location of the service point for each lateral located from the side property line or by station and offset.
	Table included with data for each gravity main:
	 Sewer Pipe Run Number (GM#) Sewer Pipe Subtype = Collection, Trunk Facility Owner (JEA or PRIVATE) Pipe Size (Inches) Pipe Class (SDR26, etc.) Pipe Material (PVC, etc.) Pipe Manufacturer Pipe Length (feet) Downstream Pipe Invert Elevation (feet)

Approved by: DLD

Downstream Grade Elevation at Invert (feet)
Upstream Pipe Invert Elevation (feet)
Upstream Grade Elevation at Invert (feet)

Slope (feet/feet)

GRAVITY FITTINGS

Each fitting shows a call out designating fitting number, fitting type (cleanout, wye, plug, etc) and size with leader pointing to the installed fitting. All fittings shall be clearly shown on the main.

Table included with data for each fitting:

- Fitting Number (WWF#)
- Subtype = Fitting Type (see data table file for subtypes)
- Facility Owner (JEA or PRIVATE)
- Fitting Size Primary (Inches)
- Fitting Size Secondary (Inches)
- Manufacturer
- Fitting Material (DI, PVC or HDPE)
- Lining Manufacturer
- Lining Material
- Fitting Top Elevation (feet)
- Finished Grade Elevation (feet)
- Fitting Depth (feet)
- X Coord (State Plane Easting feet)
- Y Coord (State Plane Northing feet)
- Latitude (in Decimal Degrees)
- Longitude (in Decimal Degrees)

MANHOLES

Manholes labeled with manhole number and called out with manhole type, rim elevation, and invert elevations with a leader pointing to the applicable manhole.

Table with the following data for each manhole:

- Manhole Number (MH#)
- Manhole Subtype = Collection, Force main, Low Pressure, Trunk, ARV
- Facility Owner (JEA or PRIVATE)
- Manhole Type (A through J)
- Manhole Drop Type (Inside or Outside)
- Manufacturer/Supplier
- Manhole Size (feet)
- Manhole Material
- Manhole Lining Material
- Manhole Lining Manufacturer
- Rim Elevation (feet)
- Invert Elevations (feet) with Directions
- Lowest Invert Elevation (feet)
- Exterior Joint Tape Type
- Exterior Joint Tape Manufacturer
- X Coord (State Plane Easting feet)
- Y Coord (State Plane Northing feet)
- Latitude (in Decimal Degrees)
- Longitude (in Decimal Degrees)
- RFID/Barcode Number (future)

WASTEWATER SERVICE POINTS

Each service point (sewer lateral end point) shall be listed in the data table with service point number matching the Lot # or Address #. If no Lot # or Address # exists, assign a service point number not included in the Lot # series. Show this service point number at the service point on the plan view and in the data table.

Table included with data for each wastewater service point:

- Wastewater Service Point Number (WWSP# or WWM#)
- Wastewater Service Point Subtype = Customer point, Sewer Flow Meter
- Finished Grade Elevation (feet)
- Top of Pipe Elevation (feet)
- Depth of Cover (feet)
- X Coord (State Plane Easting feet)
- Y Coord (State Plane Northing feet)
- Latitude (in Decimal Degrees)
- Longitude (in Decimal Degrees)

WASTEWATER PRESSURE MAINS

Elevations on the main and finished grade shown at:

- Points of connection to the existing system and called out on the plan view and shown in the points along pipe table
- Points of crossing over or under water mains, reclaimed mains, chilled water mains, wastewater mains or storm drains called out on the plan view and shown in the pipe crossing table
- At maximum of 100 ft. intervals called out on the plan view and shown in the points along pipe table
- Where less than 30 inches or greater than 48 inches of cover is provided called out on the plan view and shown in the points along pipe table
- Main stub-outs

Beginning and ending points of pipe exposed aboveground are shown in the points along pipe table, with Pipe Orientation noted as Aboveground.

Each main section is shown with pipe size, pipe material and pipe pressure class called out with a leader line pointing to the applicable main. A new call out should be placed when the pipe size changes.

Beginning and end points of HDD (horizontal directional drills) located by professional surveyor

HDD bore log included showing:

- Bore in plan view showing length and beginning/end points called out with coordinates
- Bore profile view provided on separate sheet
- Bore log on 24" x 36" sheets
- Certified by HDD contractor
- Horizontal and vertical location data continuous or at no more than 25 ft. intervals

Points along Pipe table with data at points of connection and maximum 100 ft intervals:

- Pipe Location Number
- Pipe Location (Point of Connection, Top of Pipe, Top of Casing)
- Pipe Subtype
- Facility Owner
- Pipe Size (inches)
- Pipe Orientation
- Pipe Class
- Pipe Manufacturer
- Pipe Material
- Pipe Lining Manufacturer
- Pipe Lining Material
- Finished Grade Elevation (feet)
- Pipe Top Elevation (feet)
- Pipe Cover (feet)
- X Coord (State Plane Easting feet)

- Y Coord (State Plane Northing feet)
- Latitude (Decimal Degrees)
- Longitude (Decimal Degrees)

Pipe Crossing table with data at each crossing:

- Crossing Number
- Upper Pipe Type
- Upper Pipe Size (inches)
- Finished Grade Elevation (feet)
- Upper Pipe Top Elevation (feet)
- Cover to Top of Upper Pipe (feet)
- Upper Pipe Bottom Elevation (feet)
- Lower Pipe Type
- Lower Pipe Size (inches)
- Lower Pipe Top Elevation (feet)
- Cover to Top of Lower Pipe (feet)
- Separation Between Pipes (feet)
- X Coord (State Plane Easting feet)
- Y Coord (State Plane Northing feet)
- Latitude (Decimal Degrees)
- Longitude (Decimal Degrees)

FORCE MAIN FITTINGS

Each fitting shows a call out designating fitting number, fitting type (45, tee, etc.) and size with leader pointir to the installed fitting. All Fittings should be clearly shown on the main.

Table included with data for each fitting:

- Fitting Number (FMF#)
- Subtype = Fitting Type (see data table file for subtypes)
- Facility Owner (JEA or PRIVATE)
- Fitting Size Primary (Inches)
- Fitting Size Secondary (Inches)
- Manufacturer
- Fitting Material (DI, PVC or HDPE)
- Lining Manufacturer
- Lining Material
- Fitting Top Elevation (feet)
- Finished Grade Elevation (feet)
- Fitting Depth (feet)
- X Coord (State Plane Easting feet)
- Y Coord (State Plane Northing feet)
- Latitude (in Decimal Degrees)
- Longitude (in Decimal Degrees)

WASTEWATER VALVES

Each valve shows a call out designating valve number, valve type, and valve size with leader pointing to the installed valve. All Valves should be clearly shown on the main.

Air release valves in manholes called out and shown on plan view and included in valve table.

Table included with data for each valve:

- Valve Number (WWV#)
- Valve Subtype = Valve, ARV (See data table file for subtypes)
- Valve Type
- Facility Owner (JEA or PRIVATE)
- Valve Size
- Valve Orientation
- Valve Open Direction (left/right)
- Valve number of turns required to open the valve
- Valve Nut Elevation (feet)
- Finished Grade Elevation (feet)
- Depth to Nut (feet)
- Valve Manufacturer
- X Coord (State Plane Easting feet)
- Y Coord (State Plane Northing feet)
- Latitude (in Decimal Degrees)
- Longitude (in Decimal Degrees)

WASTEWATER LOCATE WIRE BOXES

Each locate wire box shows a call out designating locate wire box number with leader pointing to the installed box

Table included with data for each locate wire box:

- Locate Wire Box Number (WWL#)
- Locate Box Subtype (Marker Ball, Locate Wire Box)
- X Coord (State Plane Easting feet)
- Y Coord (State Plane Northing feet)
- Latitude (in Decimal Degrees)
- Longitude (in Decimal Degrees)

WASTEWATER PUMPING STATIONS Pump Station sheet is digital (not scanned and marked up) and legible when zoomed in. All As-Built changes are marked with AB and clouded. Corrected in AUTOCAD file, not crossed out with the new numbers. All pump station data/information is included on first sheet and the station layout with measurements, elevations and GPS coordinates on second sheet. All utilities within the pump station site are located relative to property lines. Elevations (*and GPS coordinates) indicated at: Invert(s) Wet well Top (rim elevation) * Wet well bottom Concrete slab station corners Underground piping, valves* and fittings* Measurements of panels & equipment relative to the concrete edges of station at: Control Panel Rack Power Distribution Rack Demarcation Box(s) Flow Meter Panel All above and below ground piping is shown Wet Well shown and dimensioned from property lines Generator/Pony pump shown and information filled out Driveway shown and dimensioned from property lines All materials, sizes of lines and fittings associated with pump station are indicated on drawings. All buried electrical conduit shall be shown, with size indicated, including electrical service from utility transformer to station meter and to control panel. Pump information has been checked for completeness and accuracy MCC Panel chart is filled out. Schedule of elevation chart is filled out entirely. Station physical address is indicated in Pump Station Information box.

Privately owned pump stations will provide pump model info for modeling purposes.

Water pressure and/or force main pressure sensors are identified.

RECLAIMED WATER SYSTEMS

RECLAIMED WATER MAINS

Elevations on the main and finished grade shown at:

- Points of connection to the existing system and called out on the plan view and shown in the points along pipe table
- In the event of potable water temporarily serving irrigation demand, call out the point of connection between potable and reclaimed
- Points of crossing over or under water mains, reclaimed mains, chilled water mains, wastewater mains or storm drains called out on the plan view and shown in the pipe crossing table
- At maximum of 100 ft. intervals called out on the plan view and shown in the points along pipe table
- Where less than 30 inches or greater than 48 inches of cover is provided called out on the plan view and shown in the points along pipe table
- Main stub-outs

Beginning and ending points of pipe exposed aboveground are shown in the points along pipe table, with Pipe Orientation noted as Aboveground.

Each reclaimed water main section is shown with pipe size, pipe material and pipe pressure class called out with a leader line pointing to the applicable. A new call out should be placed when the pipe size changes.

Provide a note on each water sheet for water service laterals stating the size, pressure class, and material.

Location of reclaim signage indicating reclaim water in use

Location of meter boxes indicated and referenced to property lines (not necessary for 2 inch or less residential meters located as per standards).

Beginning and end points of horizontal directional drills located by professional surveyor

HDD (Horizontal directional drill) bore log included showing:

- Bore in plan view showing length and beginning/end points called out with coordinates
- Bore profile view provided on separate sheet
- Bore log on 24" x 36" sheets
- Certified by HDD contractor
- Horizontal and vertical location data at 25 ft. intervals (max)

Points along Pipe table with data at points of connection and maximum 100 ft intervals:

- Pipe Location Number
- Pipe Location (Point of Connection, Top of Pipe, Top of Casing)
- Pipe Subtype
- Facility Owner
- Pipe Size (inches)
- Pipe Orientation
- Pipe Class
- Pipe Manufacturer
- Pipe Material
- Pipe Lining Manufacturer

- Pipe Lining Material
- Finished Grade Elevation (feet)
- Pipe Top Elevation (feet)
- Pipe Cover (feet)
- X Coord (State Plane Easting feet)
- Y Coord (State Plane Northing feet)
- Latitude (Decimal Degrees)
- Longitude (Decimal Degrees)

Pipe Crossing table with data at each crossing:

- Crossing Number
- Upper Pipe Type
- Upper Pipe Size (inches)
- Finished Grade Elevation (feet)
- Upper Pipe Top Elevation (feet)
- Cover to Top of Pipe (feet)Upper Pipe Bottom Elevation (feet)
- Lower Pipe Type
- Lower Pipe Size (inches)
- Lower Pipe Top Elevation (feet)
- Cover to Top of Lower Pipe (feet)
- Separation Between Pipes (feet)
- X Coord (State Plane Easting feet)
- Y Coord (State Plane Northing feet)
- Latitude (Decimal Degrees)
- Longitude (Decimal Degrees)

RECLAIMED WATER FITTINGS

Each fitting shows a call out designating fitting number, fitting type (45, tee, etc.) and size with leader pointing to the installed fitting. All Fittings should be clearly shown on the main.

Table included with data for each fitting:

- Fitting Number (RF#)
- Subtype = Fitting Type (see data table file for subtypes)
- Facility Owner (JEA or PRIVATE)
- Fitting Size Primary (Inches)
- Fitting Size Secondary (Inches)
- Manufacturer
- Fitting Material (DI, PVC or HDPE)
- Lining Manufacturer
- Lining Material
- Fitting Top Elevation (feet)
- Finished Grade Elevation (feet)
- Fitting Depth (feet)
- X Coord (State Plane Easting feet)
- Y Coord (State Plane Northing feet)
- Latitude (in Decimal Degrees)
- Longitude (in Decimal Degrees)

RECLAIMED WATER VALVES

Each valve shows a call out designating valve number, valve type, and valve size with leader pointing to the installed valve. All Valves should be clearly shown on the main.

Table included with data for each valve:

- Valve Number (RV#)
- Valve Subtype = Valve, ARV, Backflow, Flushing Hydrant (See data table file for subtypes)
- Valve Type
- Facility Owner (JEA or PRIVATE)
- Valve Size
- Valve Orientation
- Valve Open Direction (left/right)
- Valve number of turns required to open the valve
- Valve Nut Elevation (feet)
- Finished Grade Elevation (feet)
- Depth to Nut (feet)
- Valve Manufacturer
- X Coord (State Plane Easting feet)
- Y Coord (State Plane Northing feet)
- Latitude (in Decimal Degrees)
- Longitude (in Decimal Degrees)

RECLAIMED	WATER	HYDR	ANTS
-----------	-------	------	------

Each hydrant shows a call out designating hydrant number with leader pointing to the installed hydrant.

Table included with data for each hydrant:

- Hydrant Number (RH#)
- Facility Owner (JEA or PRIVATE)
- Hydrant Manufacture Date (year)
- Hydrant Manufacturer
- X Coord (State Plane Easting feet)
- Y Coord (State Plane Northing feet)
- Latitude (in Decimal Degrees)
- Longitude (in Decimal Degrees)
- RFID/Barcode Number

RECLAIMED WATER METER BOXES

Each meter box shall be listed in the data table with meter number matching the Lot # or Address #. If no Lot # or Address # exists, assign a reclaimed water meter number not included in the Lot # series. Show this meter number at the meter on the plan view and in the data table.

The size meter to be installed for each meter

Table included with data for each meter box:

- Meter Box Number (RM#)
- Proposed Meter Size
- Meter Subtype = Minor Meter (<2"), Major Meter
- Facility Owner (JEA or PRIVATE)
- Meter Box Orientation
- Meter Box Manufacturer
- Meter Box Material
- X Coord (State Plane Easting feet)
- Y Coord (State Plane Northing feet)
- Latitude (in Decimal Degrees)
- Longitude (in Decimal Degrees)

RECLAIMED WATER LOCATE WIRE BOXES

Each locate wire box shows a call out designating locate wire box number with leader pointing to the installed box

Table included with data for each locate wire box:

- Locate Wire Box Number (RL#)
- Locate Box Subtype (Marker Ball, Locate Wire Box)
- X Coord (State Plane Easting feet)
- Y Coord (State Plane Northing feet)
- Latitude (in Decimal Degrees)
- Longitude (in Decimal Degrees)

CHILLED WATER SYSTEMS

CHILLED WATER MAINS

Elevations on the main and finished grade shown at:

- Points of connection to the existing system and called out on the plan view and shown in the points along pipe table
- Points of crossing over or under water mains, reclaimed mains, chilled water mains, wastewater mains or storm drains called out on the plan view and shown in the pipe crossing table
- At maximum of 100 ft. intervals called out on the plan view and shown in the points along pipe table
- Where less than 30 inches or greater than 48 inches of cover is provided called out on the plan view and shown in the points along pipe table

Beginning and ending points of pipe exposed aboveground are shown in the points along pipe table, with Pipe Orientation noted as Aboveground.

Each chilled water main section is shown with pipe size, pipe material and pipe pressure class called out with a leader line pointing to the applicable main. A new call out should be placed when the pipe size changes.
Each pipe labeled as to supply water or return water

Provide a note on each water sheet for water service laterals stating the size, pressure class, and material Location of lateral end points indicated and referenced to property lines.

Beginning and end points of horizontal directional drills located by professional surveyor

HDD (Horizontal directional drill) bore log included showing:

- Bore in plan view showing length and beginning/end points called out with coordinates
- Bore profile view provided on separate sheet
- Bore log on 24" x 36" sheets
- Certified by HDD contractor
- Horizontal and vertical location data at 25 ft. intervals (max)

Points along Pipe table with data at points of connection and maximum 100 ft intervals:

- Pipe Location Number
- Pipe Location (Point of Connection, Top of Pipe, Top of Casing)
- Facility Owner
- Pipe Size (inches)
- Pipe Orientation
- Pipe Class
- Pipe Manufacturer
- Pipe Material
- Pipe Lining Manufacturer
- Pipe Lining Material
- Finished Grade Elevation (feet)
- Pipe Top Elevation (feet)

- Pipe Cover (feet)
- X Coord (State Plane Easting feet)
- Y Coord (State Plane Northing feet)
- Latitude (Decimal Degrees)
- Longitude (Decimal Degrees)

Pipe Crossing table with data at each crossing:

- Crossing Number
- Upper Pipe Type
- Upper Pipe Size (inches)
- Finished Grade Elevation (feet)
- Upper Pipe Top Elevation (feet)
- Cover to Top of Upper Pipe (feet)
- Upper Pipe Bottom Elevation (feet)
- Lower Pipe Type
- Lower Pipe Size (inches)
- Lower Pipe Top Elevation (feet)
- Cover to Top of Lower Pipe (feet)
- Separation Between Pipes (feet)
- X Coord (State Plane Easting feet)
- Y Coord (State Plane Northing feet)
- Latitude (Decimal Degrees)
- Longitude (Decimal Degrees)

CHILLED WATER FITTINGS

Each fitting shows a call out designating fitting number, fitting type (45, tee, etc.) and size with leader
pointing to the installed fitting. All Fitting should be clearly shown on the main.
Table included with data for each fitting:

Updated- January 1, 2026

- Fitting Number (CF#)
- Subtype = Fitting Type (see data table file for subtypes)
- Facility Owner (JEA or PRIVATE)
- Fitting Size Primary (Inches)
- Fitting Size Secondary (Inches)
- Manufacturer
- Fitting Material (DI, PVC or HDPE)
- Lining Manufacturer
- Lining Material
- Fitting Top Elevation (feet)
- Finished Grade Elevation (feet)
- Fitting Depth (feet)
- X Coord (State Plane Easting feet)
- Y Coord (State Plane Northing feet)
- Latitude (in Decimal Degrees)
- Longitude (in Decimal Degrees)

CHILLED WATER VALVES

Each valve shows a call out designating valve number, valve type, and valve size with leader pointing to the installed valve. All Valves should be clearly shown on the main.

Table included with data for each valve:

- Valve Number (CV#)
- Valve Type
- Facility Owner (JEA or PRIVATE)
- Valve Size
- Valve Orientation
- Valve Open Direction (left/right)
- Valve number of turns required to open the valve
- Valve Nut Elevation (feet)
- Finished Grade Elevation (feet)
- Depth to Nut (feet)
- Valve Manufacturer
- X Coord (State Plane Easting feet)
- Y Coord (State Plane Northing feet)
- Latitude (in Decimal Degrees)
- Longitude (in Decimal Degrees)

CHILLED WATER LOCATE WIRE BOXES

Each locate wire box shows a call out designating locate wire box number with leader pointing to the installed box

Table included with data for each locate wire box:

- Locate Wire Box Number (CL#)
 - Locate Box Subtype (Marker Ball, Locate Wire Box)
 - X Coord (State Plane Easting feet)
 - Y Coord (State Plane Northing feet)

Latitude (in Decimal Degrees) Longitude (in Decimal Degrees)

- Latitude (in Decimal Degrees)
- Longitude (in Decimal Degrees)

CHILLED WATER METER ROOMS

Each meter room shall be listed in the data table with meter number matching the Lot # or Address #. If no Lot # or Address # exists, assign a chilled water meter number not included in the Lot # series.
Show this meter number at the meter on the plan view and in the data table.
The size meter to be installed for each meter
Table included with data for each meter room:
 Meter Room Number (CM#) Proposed Meter Size Facility Owner (JEA or PRIVATE) X Coord (State Plane Easting feet)
Y Coord (State Plane Northing feet)

STORM DRAIN SYSTEMS STORM DRAIN

Runs of storm wastewaters identified with size, material and slope (i.e., 300' of 15" RCP at S=.004)
Elevations given for the north rim of the top of all manhole covers and inlets and catch basins and al manhole, inlet and catch basin inverts
All storm drain manholes, inlets and catch basin types identified

Approved by: DLD

V.4. INSPECTION CHECKLIST: LOCATE WIRE BOXES

Project Name:		
Street/Intersection/Address Location: _		
Station:		Offset:
Check the following as applicable		
Water Wastewater Reclaimed		
Location:		Paved Area Grassed Area
Cover at Finish Grade:		Cover at finish grade Cover above/below finish grade-adjust per spec.
Locate wire accessible in box:		Yes No, full of debris – excavate debris
Locate wire properly color coded:		Yes No—replace per spec
Locate wire signal verified:		Yes No—repair per spec
Comments:		
Contractor Representative:		
JEA Inspector:	Signature	Print name
JEA O&M representative:	Signature	Print name
	Signature	Print name
Commissioned this date:		

V.5. JEA TRACER WIRE CERTIFICATION FORM

Project Na	ame/Numb	er:						
Date(s) Tested:								
Installed b	y Contrac	tor:						
Name of 1	Tester:	_						
Testing Co	ompany:							
JEA Inspe	ector:							
Pass:								
Fail:								
Continuity	/Signal str	rength between ac	rcess noints:		Ma	ırker Balls Ins	talled / Locate	2 4
Access pt	•	•	pocos points.			s for the utility		
Access pt		-			Installed		Located	
Access pt	#5 to acc	ess pt #6:			Installed		Located	
Access pt	#7 to acc	ess pt #8:			Installed		Located	
Access pt	#9 to acc	ess pt #10:			Installed		Located	
Total	,	Water	Sewer / FM		Reclaimed Water Fiber O			Optic
footage tested								
	ts found L	ist below (please	indicate utility	type and loc	ation)			
Fault # 1:								
Fault # 2:								
Fault # 3:								
Fault # 4:								

V.6. JEA RECORD DRAWING SUBMITTAL TRANSMITTAL

Water/ Wastewater/Reclaimed Treatment Plants, Wells and Facilities

10:	W&S As-Built Submittal Mailbox
From:	
Phone:	
E-mail:	
Company Name:	
Date of Submittal:	
Signature of Submitter Verifying Compliance:	
Project Name:	
Project Numbers:	
JEA Project Manager:	
JEA PM E-mail:	
Engineering Firm:	
Engineering Contact:	
Engineers Phone:	
Engineers E-mail:	
Contracting Co.:	
Contractor Contact:	
Contractor Phone:	
Contractor E-Mail:	
Curveying Co.	
Surveying Co.:	
Surveyor Contact:	
Surveyors Phone:	
Surveyors E-mail:	
Attached:	As-Builts - Paper Copy & Electronic
	Record Drawing Submittal Checklist filled out by Engineer, Contractor or Surveyor
	Record Drawing Submittal Checklist filled out by JEA Project Manager
	Equipment Attribute Worksheets completed

V.7. JEA RECORD DRAWING SUBMITTAL REQUIREMENTS CHECK LIST

Treatment Plants

Project Name:
Project Numbers:
Initial next to each requirement verifying compliance
On each page of record drawing, certification filled out, signed and dated by the project manager
Improvements not built as per design are redrawn as constructed
"RECORD DRAWING" labeled in 1" letters on each sheet
Sheets are 24" x 36" in size
Includes all changes by Addendum or SWA (Supplemental Work Allowance), or Change Order
Includes datum & reference to state plane coordinates (Florida East Zone NAD 83, NAVD 88)
Vicinity map on cover page
Title page and each page includes JEA Oracle Project Number(s)
Provide paper and electronic copies of Record Drawing (.dwg and .pdf formats)
Street names on all streets
North Arrow on each page
Graphic Scale on each page
JEA Capital Project number on each page
JEA easements labeled as such, including RE number and Official Records Book and Page (OR #).
Date of utility installation completion on each page
PLANT INFRASTRUCTURE
Provide and incorporate into record drawings the horizontal and vertical record locations of improvements, including the following:
Corner coordinates of rectangular or square buildings, structures, and tanks.
Center coordinates of circular buildings, structures, and tanks.
Building floor elevations.
Floor elevations of structures and tanks as required to define floor slope.
Top elevations of structures and tanks and weirs.

 _
 _ Channel floor elevations at each change in slope.
 _ Channel top elevations.
 _ Manhole center coordinates for electrical duct banks, sanitary sewer, storm sewer, etc.
 Pipe coordinates at changes in direction.
 Coordinates of all buried valves, and fittings.
 _ All underground piping invert or centerline elevations.
 _ All underground pipe invert or centerline elevations at fittings.
 Pipe invert, or centerline, elevations at crossing with another pipe.
 Invert or top of pipe elevations and coordinates of existing pipe at crossing with new underground pipe showing Separations
 _ Invert elevations of manhole pipe inlets and outlets.
 Duct bank, storm sewer, sanitary sewer coordinates and elevations at changes in direction or offset measurements from existing Structures or Roadways.
 Top and bottom elevations of duct banks at manholes and hand holes showing ID numbers
 Other horizontal and vertical record data pertinent to completed Work.
 Location of internal utilities and appurtenances concealed in the construction Referenced to Structure or Roadway off set dimensions
 _ Details not indicated on the original contract drawings
 _ Depths of various elements of foundations in relation to finish first floor elevations
 _ Location, elevation, and datum of Benchmark used.
 _ Elevation of all Pump and Housekeeping Pads
 _ Weir Elevations
 Field changes of dimensions and or details as relates to; but not limited the following:
 Interior equipment Architectural and structural changes, including relocation of doors, windows, etc. Architectural schedule changes
 Hydraulic profile sheetupdate control elevations and liquid elevations for low flow, average flow, and peak hourly flow conditions including return flows (as required based on equipment selection or field changes)
 _ Runs of storm sewers identified with size, material and slope (i.e., 300' of 15" RCP at S=.004)
 _ Ground surface record/information shall include the following:
 Snot elevations should be shown at a minimum 100-foot rectangular grid, sufficient to show all the

- Spot elevations should be shown at a minimum 100-root rectangular grid, sufficient to show all the important topographic features
- All elevations shown on the construction drawings shall be confirmed or amended on the record drawing markups if finished elevations are different.

WELL INFRASTRUCTURE
WELLS
Elevation of top casing and at grade
Depth of casing below land surface
Diameter, material and thickness of casing(s)
Depth of well below land surface
Location of well, in latitude and longitude
WELLHEAD
Wellhead pad finished elevation
All materials and sizes of lines and fittings indicated on drawings
All buried electrical conduit labeled and located
Pipe coordinates at changes in direction
Coordinates of buried valves, tees and fittings
Other horizontal and vertical record data pertinent to completed Work
Location of internal utilities and appurtenances concealed in the construction referenced to visible accessible features
Field changes of dimensions and or details
Location, elevation, and datum of Benchmark used

Blank Page