

CIP PLAN SUBMITTAL AND REVIEW GUIDANCE DRAFT

MARCH 1, 2019

This guidance document provides general plan review requirements on water, wastewater and reclaimed water capital improvement construction plan submittals. A complete full size (24" by 36") set of plans will need to be delivered to 625 E. 10th St, suite 300, along with a transmittal letter to the front desk staff, so they may be logged into the database, as received.

Preliminary Scoping Review

- Pipeline Engineering to meet with internal stakeholders to provide technical guidance to scoping limits
- Pipeline Engineering to provide recommendation on scoping limits or additional improvements to internal stakeholders

30% Submittal-Alignment Check

- Overall sheet(s) identifying total project limits with key maps for each sheet
- Proposed routing on scaled drawings. (Plan view only)
- Proposed pipe size, material and class. Lines 24-inch in diameter and larger should be indicated as a double line to scale.
- All existing topographic and planimetric features on and near the proposed route.
- All underground utilities.
- Concurrent submittal to AULCC for review.

60% Submittal-Detailed Plan and Profile

- General
 - Pressure Zone required on coversheet.
 - A general location map (Showing Grid number & Map sheet Page number)
 - Standard and most current Austin Water construction notes.
 - Size, pipe material and location of main with respect to easements and rights-of way.
 - Location, size and material of all existing water and wastewater mains, lines and services.
 - Indicate wastewater flow direction on all plan views for both existing and proposed wastewater mains.
 - Location, size and description of other utilities where they may conflict with water or wastewater mains or other service lines.
- Water System
 - Stations of all proposed connections to existing or proposed water mains. Provide water ID numbers and water intersection numbers at all water connection points.
 - Calculated design pressure at highest and lowest lot served and provide fire flow demand in gpm per the International Fire Code (Show information on Cover Sheet).
 - Retaining walls, including geo-grid, straps, tie-backs and all other components.
 - Profile views shall be provided for all water mains (including 8-inch lines)
 - The existing ground profile and proposed street finish grade or subgrade.
 - Station numbers and elevations of all utility crossings.
 - Identify pipe size, percent grade and pipe material to be used including ASTM and/or AWWA designation. If an alternate material is to be allowed, both should be listed (example "D.I. Class 350 or 250 or DR14 C900 PVC").

- Station numbers and elevations for starting points, ending points, point of intersection, grade breaks, valves, fire hydrants, air release valves, pressure/flow regulating valves and at intermediate points every 100feet.
- Wastewater System
 - Station numbers at all proposed connections to existing or proposed wastewater mains. Provide manhole ID numbers and profile numbers or City Job numbers at all wastewater connection points.
 - The location, alignment and structural features of the wastewater main, including manholes and concrete retards, if applicable.
 - Station numbers for beginning points, ending points, manholes, clean-outs and other appurtenances.
 - Location of all existing and proposed wastewater services, mains and manholes.
 - A profile view shall be provided for all wastewater mains
 - The existing ground profile and proposed street finish grade or subgrade or finished grade if not under pavement.
 - Station numbers and elevations of all utility crossings.
 - Identify the pipe size, percent grade and pipe material to be used including ASTM and/or AWWA designation. If an alternate material is to be allowed, both should be listed
 - Station numbers and elevations for starting points, ending points, manholes, clean-outs and at intermediate points every 100feet.
 - Elevations shall be indicated on the profile showing the finish floor elevations of all existing structures. If the structure has an active septic tank or other disposal system, the flow line elevation of the plumbing where it exits from the structure is to be indicated. If a lot or tract is vacant, side shots may be required from the middle of each lot to ensure gravity service is possible from the lot to the main.
 - Design flows, minimum and maximum, and flow velocities at minimum and maximum dry weather flows.
 - Retaining walls, including geo-grid, straps, tie-backs and all other components.
 - Culverts, bridges and other drainage structures.
- Miscellaneous
 - All proposed W&WW easements dimensioned.
 - AW Standard Details and Standard Construction Notes
 - All utilities are to be included in plan/profile (including water, wastewater and reclaim services)
 - Geotechnical bore data
 - Proposed/draft Railroad Right-of-Way use agreements
 - As a supplement to the plans, identification of all special details
 - As a supplement to the plans identification of areas under SUE service investigation.
 - Manhole assessment completed and submitted to Pipeline Engineering for review

90% Submittal – Construction Ready

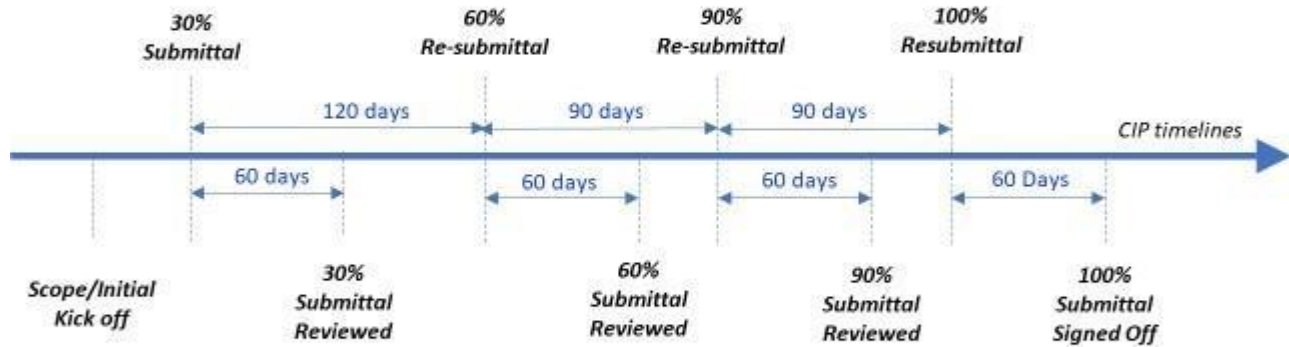
- Complete design of all components (to include but not limited to thrust restraint, identification of all utility clearances, etc)
- Final metes & bounds for all proposed easements and easement documents (these documents are to be reviewed prior to recordation).
- Signed Railroad Right-of-Way use agreements (if applicable)
- Completed TxDOT permit (if applicable)
- Most current AW Standard Details and Standard Construction Notes
- Disinfection plan (if applicable)
- Submit concurrently to QMD and AULCC for review
- Waiver summary sheet added (a list of all requested UCM waivers)

100% Submittal- Final Sign off

- Cleared QMD comments
- Design in compliance with TCEQ, COA ordinances, UCM and standard specifications
- AW Standard Details and Standard Construction Notes
- Sign off on any waivers
- Recordation #s for all new easements have been added to plans.
- All GIS #s added to plans
- Sign off on cover sheet and all related sheets

Suggested Timelines for Plan Resubmittals

- 30% Submittals - 120 days
- 60% Submittals - 90 days
- 90% Submittals – 90 days
- 100% Submittals – 60 days



Please note that the suggested time lines above can be extended as requested by AW Sponsor in writing, along with providing the reason for the extension.

Pipeline Engineering will respond to all comments within 60 business days. Please note that the suggested time lines above can be extended as requested by AW Sponsor in writing, along with providing the reason for the extension.

Miscellaneous Guidelines

All corrections for CIP's will return back to the original reviewer for AW approval.

GIS numbers are now received by electronic submittal. See link for CIP Project Electronic Submittal

Process. (place link here)

Reasons a project will remain in previous submittal.

- Significant design change or scope increase from previous submittal
- Unresolved conflicts with existing or proposed utilities
- Exceeding maximum submittal limit, without a request for extension based on suggested timelines above.

For comments, questions or feedback, on the CIP checklist, please email Larry Williams or Shwetha Pandurangi.