Link to recording of December 10, 2021 training:

Consultants' Check In-20211210 1408-1

## Cost Estimating December 10, 2021

- Reminder be sure to use the latest forms anytime you update the cost estimate. Reminder that the latest forms for Engineering Services can be found here: <u>https://charlottenc.gov/GS/procurement/GSBids/Pages/SPdetails.aspx</u> Note: If you haven't already, sign up for email updates to this page (includes CAD Standards updates).
- 2. Reminder: City staff should complete cover sheet (not consultants). Consultants can help fill out tabs that provide info to the cover sheet such as Utilities and RE. Several updates recently to cover sheet including adding public art, survey in design for plats

Pre-Planning Level Cost Estimate	
ESTIMATED BY: Full na	ame - City only
CHECKED BY: Full na	ame - City Only

3. Update: Separated fence relocation and fence removal in demo tab as costs are significantly different.

ADDITIONAL WORK ITEMS:		
Fence Removal/disposal	LF	\$2.25
Fence Relocation	LF	\$25.00

4. Reminder to update and use correct Construction contingency and RE contingency:

	55.070 CONSTRUCT	on contingency	ψν.νν	
10% inflation 2 years, 7% inflation 3 years, 5% inflation	n 2 years <mark>,</mark> Inflation	7 yr period	\$0.00	1.634 Compound inflation

Formula for inflation (construction and RE) will need to be modified for each project submittal based on years until construction or RE. Typically, 1–2-year difference depending on project schedule (could be longer for Federal projects).

Compound inflation factor formula above = 1.634

=(1.1^2	)*(1.07^3)	*(1.05^2)
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- 5. Reminder to use recent bid prices with similar quantities:
  - a. Check the City's completed bid solicitation page for recent projects: <u>https://charlottenc.gov/GS/procurement/GSBids/Pages/BidsContractsArchive.aspx</u>
  - b. Ask your Project Manager to provide names of recent projects that would be similar in scope/size to review and look for on website above. Or Project Manager may be able to directly provide the applicable recent bid tabs.
  - c. Ask your Project Manager to find rarely used pricing such as guardrail or fencing using the CI program (City access only). If Project Manager and consultant are struggling to find applicable pricing, the Project Manager can reach out to me for additional help.
  - d. Prices are fluctuating due to supply and material costs. Some items with recent increases include storm drainage pipes, culverts, and structures. These items should be sure to use recent bid pricing and continue to monitor closely. Also have heard of steel increases.
  - Prices in estimate should not be inflated based on future costs (unless we have known upcoming price increases – i.e., we get notified of significant increase in concrete pricing). The yearly inflation should cover most future price increases.

## Plan Design Milestone Checklist December 10, 2021

- Reminder be sure to use the latest forms anytime you prepare the checklist. Reminder that the latest forms for Engineering Services can be found here: <u>https://charlottenc.gov/GS/procurement/GSBids/Pages/SPdetails.aspx</u> Note: If you haven't already, sign up for email updates to this page (includes CAD Standards updates).
- 2. Reminder this form must be submitted with every plan submittal (required).
  - a. It is tool we should all use to ensure plan quality.
  - b. Items should not be checked off unless verified they have been completed.
    We continue to receive checklists with items checked that are not in plans.
    Plans may be returned if checklist is not reflecting what is included in plan set.
- 3. Recent change included adding list of project features:

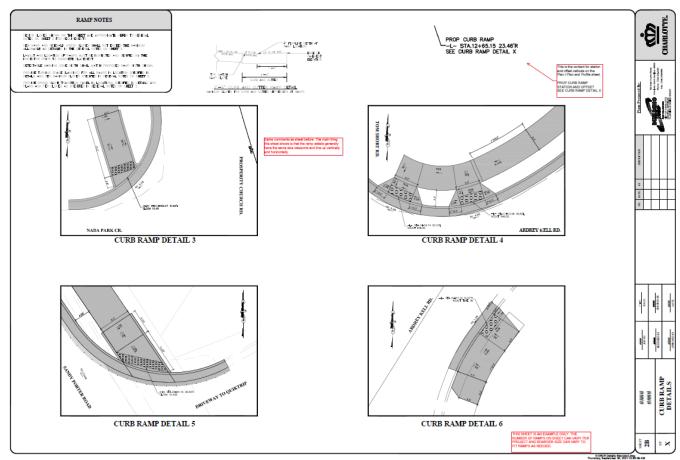
Project Features - Place under Project Name & Number in heading. Below is a comprehensive list of key project features that may be used on the title sheet. Intended to only include those major features specific to type of project. Grading Concrete Sidewalks Concrete Curb Ramps Concrete Curb and Gutter Concrete Driveway Concrete Pedestrian Refuge Concrete Truck Aprons Concrete Multi-Use Path Concrete Bike Ramp Milling Asphalt Pavement Pavement Markings Storm Drainage Roundabout Traffic Signal Pedestrian Signals Pedestrian Hybrid Beacon PCSO: Choose from list below for applicable items: Bioretention, Wet Pond, Engineered Wetland, Underground Sand Filter, Surface Sand Filter, Underground Pipe Detention, Dry Pond Signage Guardrail Utilities (water and sewer) Retaining Wall Bridge Structures (type) Decorative Paving/Pavers

- 4. Removed note to omit labels on 30% Design submittal.
  - a. Check with your project manager regarding what labels may be needed for your specific project.
  - b. Typical items include planting strip width, sidewalk or MUP width, lane widths

## Plan Template Updates and Sample Plans

## December 10, 2021

- 1. City has just released the 2022 CAD Standards located here: https://charlottenc.gov/GS/procurement/GSBids/Pages/CADstandards.aspx
- 2. New ramp sample and template layout is now available



- 3. New UBO boxes are now available
  - a. Small one for underground utilities
  - b. Larger one for overhead utilities added Underground Drop info (check yes or no)

$\mathbf{i}$	
	UTILITY_OWNER:
	<u>STATION:</u> 3+50.82-L- <u>OFFSET:</u> 6.29'
	DESCRIPTION: DEPTH (FT):
	PROPOSED GRADE (FT);' CUT' FILL
	REMARKS:
	UTILITY OWNER:
	<u>STATION:</u> 3+09.42-L- <u>OFFSET:</u> 5.82'
	DESCRIPTION: HEIGHT (FT):
	ATTACHMENT HEIGHTS (FT.): DUKE ENERGY' TIME WARNER' AT&T'
Ĺ	CDOT <u>'</u> OTHER 'OTHER '
$\langle$	UNDERGROUND DROP: YES NO
	CROSS ARMS; YES NO (IF YES ENTER WIDTH HERE)'
	PROPOSED GRADE (FT);' CUT' FILL
	REMARKS:

4. New roadway sample plan set has been added to the CAD Standards.

