

## CITY OF HICKORY Public Safety Upgrades

### Bid Item Descriptions

Bid No. 21-012

General Note: The plans entitled 'City of Hickory Public Safety Facility Plan' dated January 7, 2021 are referenced as 'plans' in the descriptions unless otherwise noted.

1. Mobilization
2. Rough Grading – The lump sum bid for rough grading shall include all work necessary to prepare the entirety of the site for fine grading and paving. All organic and deleterious materials shall be removed from the existing base course. All organic and unsuitable materials shall be removed from the site. The site shall be graded to drain and to provide the building elevations as shown on the plans. Subgrade shall meet the requirements of North Carolina Department of Transportation (NCDOT). This item includes rough grading of roadway and site.
3. Fine Grading – The lump sum bid for fine grading shall include all work necessary to prepare the entirety of the site for paving. Fine grading and seeding and mulching will be done after completion of rough grading.
4. Aggregate Base Course – The lump sum for 8" aggregate base course shall include all materials, labor, and equipment to provide a base for the proposed asphalt pavement in the areas shown on the plans. The aggregate base course shall be placed as shown on the typical section as shown on those plans and shall meet all of the requirements of NCDOT for aggregate base course.
5. Asphalt Pavement Intermediate Course – The lump sum price bid for this item shall be for all materials, labor, and equipment necessary to provide 2 ½" type I19.0C binder course as shown on the plans. The binder course shall be placed as shown on the typical section as shown on those plans and shall meet all of the requirements of NCDOT for asphalt binder.
6. Asphalt Pavement Surface Course - The lump sum bid for this item shall be for all materials, labor, and equipment necessary to provide 2" type S9.5B surface course as shown on the plans. The surface course shall be placed as shown on the typical section as shown on those plans and shall meet all of the requirements of NCDOT for surface course.
7. Drainage – The lump sum bid for this item shall include providing and installing a 3' X 3' precast concrete catch basin with a frame and flat grate and approximately 160 linear feet of 18" Class IV reinforced concrete pipe at the location shown on the plans. Catch basin and frame shall be capable of safely carrying axle loads for fire fighting vehicles and meet all pertinent NCDOT requirements. Depth of the catch basin shall be determined based upon finish grade elevation. Contractor shall coordinate pipe installation with the proposed rehabilitation of the storm pond to the west of the site. The bid shall include all trenching, materials, compaction, and stone bedding as needed for complete installation of the pipe in locations that will be subject to axle loads for fire fighting vehicles.
8. Erosion Control – The lump sum bid for this item shall include all materials, labor, and equipment needed to prevent sediment from leaving the construction area. Temporary silt fence shall be installed according to the City of Hickory Manual of Practice. All exposed earth shall be seeded and mulched according to the City of Hickory Manual of Practice.

9. Utilities – The lump sum bid for this item shall include all materials, labor, and equipment for complete water, sanitary sewer, and electrical services to the site as shown on the plans. Electrical service is not shown on the plans. Electrical service shall supply power to the restrooms building as shown on the preliminary CXT Precast Product plans for the Rainier building. Wiring for a 100-amp sub-panel to be set in the pipe chase shall be included. The sub-panel will be fed from the main panel at the existing burn building facility. The sub-panel shall be fed with 3 - #4 and 1 - #6 THHN copper feeders to a 100-amp main lug panel. The 100-amp panel will feed the 80-gallon water heater, fixed-in-place electrical heaters, exhaust fans, lighting, and GFCI receptacle circuits. Water service to the restrooms building shall include connection to the existing 1.5" domestic water line and installation of approximately 844 linear feet of 1.5" Schedule 40 PVC pipe, including a 1.5" valve. Water supply for fire training shall include resetting an existing fire hydrant, approximately 407 linear feet of 8" C900 PVC pipe, fittings, 3 fire hydrant assemblies, dead men, and approximately 157 linear feet of 8" ductile iron water pipe. Sanitary sewer service to the restrooms building shall include a pump station, approximately 885 linear feet of 2" sewer force main Schedule 40 PVC pipe, and tie-in to an existing sanitary sewer manhole.