

-1-  
**REVISION OF SECTION 203  
EXCAVATION AND EMBANKMENT**

**Section 203 of the Standard Specifications is hereby revised for this project as follows:**

**Subsection 203.03 shall include the following:**

~~All existing fill materials as noted in the project geotechnical report dated July 12, 2019 shall be removed to native materials and modified or replaced with approved materials.~~ <sup>1</sup> <sup>2</sup> **is included with these specifications**

The onsite materials may be reused, provided they meet the requirements in this section. The following table presents material types and acceptable locations for placement:

Fill Designation	Materials	Acceptable location for placement
On-Site Fill	On-site native clay soil and clay fill materials and borrow materials from approved stockpile sources may be reused as new engineered fill.	Below pavement and flatwork areas
Blended Fill	Sand fill materials, native sand soils and claystone/sandstone bedrock can be reused provided they are properly processed and blended with On-Site Fill to meet the criteria presented below for “Blended and Imported Fill”	Below pavement and flatwork areas
Free Draining Gravel	Imported granular material or recycled concrete meeting ASTM C33, No. 67 gravel	Free draining gravel around drains
Aggregate Base Course	Imported material meeting CDOT Class 6 requirements	In pavement section

- Controlled, compacted fill shall consist of approved materials that are free of organic matter and debris. Frozen material shall not be used, and fill shall not be placed on a frozen subgrade. Results of laboratory testing on each material type shall be submitted to the geotechnical engineer for evaluation.
- Care shall be taken during the fill placement process to place uniform zones of similar fill types.

Blended materials and imported fill materials that are not qualified in the above table must conform to the following requirements:

Gradation	Percent finer by weight (AASHTO T27)
<b>3”</b>	100
<b>No. 4 Sieve</b>	50-100
<b>No. 200 Sieve</b>	>50

- Liquid Limit.....45 (max)
- Plasticity Index.....25 (max)
- Maximum Expansive Potential (%).....1.5\*

\*Measured on a sample compacted to 95 percent of the AASHTO T99 maximum dry density at optimum water content. The sample is confined under a 200 psf surcharge and submerged.

-2-

**REVISION OF SECTION 203  
EXCAVATION AND EMBANKMENT**

**Subsection 203.04 shall include the following:**

The excavations and embankments shall be graded to create a relatively level surface to receive fill and provide for a relatively uniform thickness of new engineered fill beneath the proposed pavements and structures. All exposed areas that will receive new engineered fill, or where pavements will be reconstructed, should be scarified to a minimum depth of 12 inches, conditioned to the moisture content range as shown below and compacted.

- Moisture content of +1 to +4% above the optimum moisture content with an average daily moisture content of at least +2% in structure areas;
- 0 to +3% above optimum moisture in pavement areas



The Contractor shall take measures to protect prepared materials from moisture loss. Swell mitigation will be required. ~~In addition to removal of all existing fill materials,~~ subgrade below pavement sections shall be processed, moisture conditioned and compacted to a minimum depth of 4 feet as shown in the earthwork typical section. The Contractor shall thoroughly proof roll prepared subgrade with a loaded tandem axle dump truck prior to final grading and paving.

The geotextile fabric and aggregate base shall be placed on the prepared subgrade within 24 hours of passing a proof roll, or another means or method of preventing subgrade moisture loss shall be implemented as approved by the Engineer.

Areas where unsuitable conditions existed, the Contractor shall repair by removing and replacing the affected areas with approved materials. The use of a geotextile fabric may be an acceptable stabilization method as determined and approved by the Engineer.

All grades must be adjusted to provide position drainage away from structures and edge of pavements during construction and maintained throughout the life of the proposed project. The Contractor shall protect and promptly dewater and recondition all excavations from water regardless of source. The cost for dewatering excavations will be paid for under item 208 Groundwater Control.

**Subsection 203.07 shall include the following:**

Unless otherwise indicated on the plans, the density requirements for embankment material shall be as determined in accordance with AASHTO T-99 and as follows:

Fills at below a depth of 10 feet .....98%

Fills at or less than 10 feet in depth.....95%

**Subsection 203.11 (d) and (f) shall be deleted and replaced with the following:**

Proof rolling, blading, and dozing will not be measured and paid for separately but shall be included in the cost of the work.

-1-  
**REVISION OF SECTION 622  
SHELTER**

**Section 622 of the Standard Specifications is hereby revised for this project as follows:**

**Subsection 622.01 shall include the following:**

This work shall consist of furnishing and installing shelters on bus islands per the manufacturer's specifications.

**Subsection 622.02 shall include the following:**

All shelters shall conform to the following:

1. Dimensions – 6'-0" (D) x 12'-0" (W) x ~~9'-6" (H)~~ (minimum), fully enclosed with insulated safety glass panels, bottom and top continuous frame, anchored to concrete slab, weather tight.
2. Door – 36" x 84" swinging clear anodized aluminum storefront door with safety glazing, with weather stripping, ball bearing butt hinges, hydraulic closer, and hardware.



3. GFCI duplex outlet with weather proof in use cover, mounted 60" above grade.
4. Interior light – Lithonia #VSL-2-32-MVOLT-GEB10IS, 40-watt vandal resistant fixture with LED lamps, 2-required. Motion sensor and light switch installed in keyed lock box receptacle.
5. HVAC – 240V/11,600 BTU heat/cool wall mounted with integral thermostat control, installed in keyed lock box receptacle.
6. Photo cell mounted on roof
7. Circuit breaker panel mounted 60" above grade – square-D #QO124L125GRB 120/240V, 24 spaces, 1ø-3 wire with ground bar, padlock cover, main breaker not included.
8. Location of state label/insignia and manufacturers data plate.
9. Glazing – tinted, Pilkington energy advantage low-E #3 insulated, tempered safety glazing set in painted aluminum window frames.
10. Paint – finish shall be two tone color of choice, axalta imron polyurethane high gloss industrial coating, shall be applied to all exposed metal surfaces. This excludes roof surface, and any stainless-steel components (if used).
11. Electrical – all wiring to be #12(min) stranded copper, THHN enclosed in ½" (min) E.M.T. per national electric code. All electrical equipment will be listed by U.L. or equivalent recognized circuits have green ground wire.
- 12.