



**ITB-15-34
ADDENDUM #3
FINAL ADDENDA
RE-BID TABOR STREET RECONSTRUCTION**

Date: December 17, 2015
Bid Number: ITB-15-34
Bid Due Date: TUESDAY, DECEMBER 22, 2015 BY 1:00 PM OUR CLOCK

The following information is provided to all prospective bidders and is hereby made a part of the above bid documents. Bidders must acknowledge this Addendum 3 with their bid. It is a total of 4 pages.

CLARIFICATION, ADDITIONAL INFORMATION, AND CHANGES:

- 1. In the Bid Schedule you have Surveying Twice Line 625 & Line 629.**

The Proposal Form in the Specifications shows the 625 Construction Surveying item correctly. Item 629 Construction Surveying that is shown on the Summary of Approximate Quantities in the Plans is incorrect and should be ignored.

- 2. And there is no detail for the 631 Modular Concrete Retaining Wall, or spec section.**

Attached is the City Standard Special that needs to be added to the specs. The wall itself should be done as a design-build.

THIS IS THE FINAL ADDENDA

Visit our City website for prebid sign in sheet, addendum, plan holders list and project updates:
www.ci.wheatridge.co.us

POINT OF CONTACT: Jennifer Nellis, Purchasing Agent, jnellis@ci.wheatridge.co.us, fax 303-234-5924, or phone 303-235-2811. Do not contact the user department, consultant, or any other staff.

SECTION 631 MODULAR CONCRETE RETAINING WALL

Section 631 is hereby added for this project as follows:

DESCRIPTION

631.01 This work consists of furnishing and installing modular block retaining wall units to the lines and grades in accordance with these specifications and details shown on the plans. These specifications describe the Allan Block Retaining Wall System supplied by Basalite Concrete Products, 5050 Race Street, Denver, CO 80216. Contractors and suppliers are encouraged to provide other wall modular wall systems of a similar nature for consideration.

Wall drawings and details included in the plan set are conceptual and for informational purposes only. Design of the modular retaining wall and preparation of construction details are the sole responsibility of the Contractor. Details are expected to vary depending upon different vendor's products requirements. The design of the wall, whether reinforced or not or whether modular units are full sized or compact shall be prepared by a Colorado Registered Professional Engineer proficient and experienced in design work of this nature. Shop drawings in accordance with Section 105.02 shall be submitted and approved prior to start up of construction items relating to wall work.

MATERIALS

631.02 Masonry Units. Masonry units shall meet the following:

Masonry units shall be colored precast concrete blocks with sculptured rock face or approved equal. Concrete used in the masonry units shall have a minimum 28 day compressive strength of 3000 psi. The maximum absorption of water shall be 6 to 8 lbs. per cubic foot. Exterior dimensions may vary in accordance with ASTM C90-85. Units shall have angled faces and be capable of fitting a minimum radius of 4 feet. The blocks shall vary in size and color using the 24" high Ashlar Blend pattern.

Base and leveling material shall be compacted Class 6 Aggregate Base Course or otherwise approved equal such as recycled concrete or asphalt.

Filter material shall be Class C in accordance with Subsection 703.09, Table 703-5.

Unit fill for the units shall be a Class C filter material or Class 6 aggregate base course.

Back fill material for geogrid reinforced areas shall be Structure Backfill (Class 1) in accordance with subsection 206. Recycled asphalt or concrete is not acceptable within this area.

Geogrid reinforcing material shall be high density polyethylene expanded sheet as supplied by Mirafi or approved equal.

631.03 Graffiti Blocker. Graffiti blocker shall meet the following:

The Graffiti blocker shall be Sure Klean® Weather Seal Blok-Guard® & Graffiti Control or a City approved equal. The blocker shall be used in its delivered concentrated form. Dilution or altering the material shall not be allowed. The cost of all materials, protecting and application shall be considered incidental to the price of the wall.

CONSTRUCTION REQUIREMENTS

631.04 The Contractor shall excavate to the lines and grades shown on the plans or as directed by the Engineer. The base of the excavation shall be compacted to 95% of AASHTO T99 prior to placement of foundation material. Areas of unsuitable soil shall be excavated as directed by the Engineer and suitable material placed prior to placement of foundation material. Excess material removed to stabilize the foundation shall be paid for at the unit price for unclassified excavation. Over excavated areas caused by the contractor's operations shall be filled with foundation material at the Contractor's expense.

The minimum depth of foundation material shall be 6 inches of free draining granular material compacted to 95% of standard proctor for the material. The material shall be placed and compacted to provide a hard level surface on which to place the first course of wall units and ensure full contact between the surface and the base of each wall unit.

631.05 The first course of wall units shall be placed upon the compacted foundation material. Care shall be taken to ensure complete contact between each unit and the foundation. The units shall be placed side by side for the full length of the wall section. Each unit shall be checked for level and alignment which may be set by a string line or offset line. Maximum deviation from horizontal alignment shall not exceed 1/8 inch. Install the connecting pins and place unit fill in all voids and tamp level with the top of the unit. Strike excess unit fill material and sweep all excess material from the top of the unit prior to placement of the next course of wall units. Batter per course shall be established on the plans.

Cap units shall be secured to the wall units according to manufacturer's written instructions using an approved adhesive.

Geogrid reinforcement shall be placed as required by shop drawings during placement of the individual courses of wall units. Geogrid reinforcement shall be laid horizontally on compacted layers relatively free of vertical deviations. Each section of geogrid shall be connected to the wall units in accordance with the manufacturer's recommendations. The geogrid shall be tightened so there is no slack at the back of the wall units and the back of the geogrid stacked to maintain tension in the geogrid during placement of subsequent fill and wall units. Care shall be taken to place the geogrid material in accordance with manufacturer's recommendations for uniaxial and biaxial grids.

631.06 Material within one foot of the wall shall be Class C filter material. Backfill behind the filter material and within the geogrid reinforced areas shall be Structure Backfill (Class 1). Backfill shall be placed in 8 inch lifts, leveled and compacted to 95% standard proctor prior to placement of the next lift of material. Backfill shall be placed from the wall backwards to ensure adequate tension in the geogrid material. Tracked or rubber tired equipment shall not be allowed to operate on the geogrid material until at least 6 inches of fill material has been placed. Rubber tired equipment may operate on the geogrid but care shall be taken to prevent damage or displacement of the geogrid. In no event shall non hand operated power equipment or vehicles be allowed within 3 feet of the back surface of the wall units at any time during the life of the project. Repairs to the walls as a result of damage to or displacement of the walls during construction of the project due to any cause are the sole responsibility of the Contractor.

631.07 Graffiti Blocker.

- (1) *Preparation.* The surface shall be clean, dry and absorbent. If cleaning is deemed necessary, then the use of Sure Klean® Cleaner or a City approved equal shall be used. The use of raw acids will not be allowed. The surface shall be allowed to dry completely prior to the application of the Graffiti Blocker. Newly constructed walls shall be allowed to cure for 28 days prior to the application. Sealant and caulking compounds shall be in place and cure prior to the application.
- (2) *Application.* The Graffiti blocker shall be placed when the surface and surrounding air temperature is between 5° - 32° C (40° - 90° F), during application and for the 6 hour cure period. The blocker shall be applied with nylon brush, roller or low-pressure spray (20 psi) with fan style tip. Two (2) full coats shall be applied to all specified surfaces. The application of the second coat shall occur as soon as the first coat is dry to the touch, but not to exceed a maximum of two (2) hour from the application of the first coat. All of the treated surfaces shall be protected from all forms of weather for a minimum of 6 hours from the completion of the second coat.
- (3) *Manufacture Recommendations.* Unless otherwise stated, all manufacturers' recommendations shall be strictly adhered to.

METHOD OF MEASUREMENT

631.08 Modular Retaining Wall shall be measured by the surface foot of exposed surface of wall constructed as shown on the plans or as directed by the Engineer. Surface area shall be measured from the base of the wall to the caps and from end to end. Curved sections shall be measured along the exposed face of the curve.

Excavation and backfill outside the above limits not otherwise shown in the plans or directed by the

Engineer shall be the responsibility of the Contractor.

BASIS OF PAYMENT

631.09 The unit price for Modular Retaining Wall shall include all modular wall units, connecting pins, cap unit adhesive, geogrid soil reinforcement, reinforcement area fill, unit fill, structure excavation and backfill, free draining filter material, foundation fill, all unexposed (buried) wall material as shown on drawings, and all other labor, equipment, materials and incidental items required to complete the pay item. Payment will be made under:

Pay Item

Pay Unit

Modular Retaining Wall with Graffiti Blocker

Exposed Face Square Foot