

**SECTION 02130
EXTRA UNIT PRICE WORK FOR EXCAVATION AND BACKFILL**

PART I: GENERAL

1.1 GENERAL REQUIREMENTS

- A. Measurement and payment applicable to extra unit price work items for excavation and backfill made necessary by unusual or unforeseen circumstances encountered during utility installations.
- B. Extra unit price work for excavation and backfill shall be paid only when authorized in advance by the Project Manager.

1.2 UNIT PRICES:

- A. Extra Excavation Around Obstructions: Payment for excavation around obstructions shall be on a cubic yard basis, measured in place, without deduction for volume occupied by portions of pipes, ducts, or other structures left in place across trenches excavated under this item.
- B. Extra Hand Excavation: Payment for extra hand excavation shall be on a cubic yard basis, measured in place.
- C. Extra Machine Excavation: Payment for extra machine excavation shall be on a cubic yard basis, measured in place.
- D. Extra Placement of Backfill Material: Payment for extra placement of backfill material shall be on a cubic yard basis, measured in place, for material installed as part of the Work. At discretion of the Project Manager, measurement of cubic yards may be calculated from volume of Extra Hand Excavation or Extra Machine Excavation for which replacement is made, minus volume of any Extra Placement of Granular Backfill authorized in conjunction with the Work.
- E. Extra Placement of Granular Backfill: Payment for extra placement of granular backfill material shall be on a cubic yard basis, measured in place.
- F. No separate payment will be made for surface water control, groundwater control, or for excavation drainage. Refer to Section 01270 – Measurement and Payment for unit price procedures.

1.3 DEFINITIONS

- A. Excavation Around Obstructions: Excavation necessitated by obstruction of pipes (other than service connections three inches (3 in) in diameter or less), ducts, or other structures, not shown on the Drawings, and of an unusual or unforeseen nature which interfere with installation of utility piping by normal methods of excavation or auguring.
- B. Extra Hand Excavation: Excavation by manual labor made necessary by unusual or unforeseen circumstances at locations approved in advance by the Project Manager.
- C. Extra Machine Excavation: Excavation by machine at or near project site

to perform related work not included in original project scope but added for convenience of the City, as approved in advance by the Project Manager.

- D. Extra Replacement of Backfill Material: Handling, backfill, and compaction of excavated material authorized under extra work bid items for Extra Hand Excavation or Extra Machine Excavation as approved in advance by the Project Manager. Placement and compaction shall conform to requirements specified for excavation and backfill in Division 2 - Site Work.
- E. Extra Placement of Granular Backfill: Hauling, placing, and compacting granular backfill materials as approved by the Project Manager in conjunction with Extra Replacement of Backfill Material. Materials placed under this item shall conform to requirements for Bank Run Sand, Cement Stabilized Sand, Concrete Sand, Gem Sand, Crushed Stone, or Crushed Concrete specified for backfill material in Division 2 - Site Work.

1.4 REFERENCES

- A. CFTS – City of Friendswood Technical Specifications.

PART II: PRODUCTS – Not Used

PART III: EXECUTION – Not Used

END OF SECTION