

**SECTION 02105
REMOVING EXISTING PAVEMENTS AND STRUCTURES**

PART I: GENERAL

1.1 GENERAL REQUIREMENTS

- A. Removing concrete paving, asphaltic concrete pavement, brick pavement and base courses.
- B. Removing concrete curbs, concrete curbs and gutters, sidewalks and driveways.
- C. Removing pipe culverts, sewers and sewer leads.
- D. Removing existing inlets and manholes.
- E. Removing and disposing of concrete beams, including pre-stressed beams, and drill shafts.
- F. Removing miscellaneous structures constructed of concrete or masonry.
- G. Removing existing bridges.

1.2 MEASUREMENT AND PAYMENT

- A. Unit Prices:
 - 1. Payment for removing and disposing of asphaltic surfacing with or without base, regardless of thickness encountered, shall be on a square yard basis measured between lips of gutters.
 - 2. Payment for removing and disposing of reinforced concrete pavement, with or without asphalt overlay, regardless of thickness encountered, shall be on a square yard basis measured from back-to-back of curbs. Payment includes concrete pavement, esplanade curbs, curbs and gutters and paving headers.
 - 3. Payment for removing and disposing of cement stabilized shell base course, with or without asphaltic surfacing, regardless of thickness encountered, shall be on a square yard basis.
 - 4. Payment for removing and disposing of concrete sidewalks and driveways, regardless of thickness encountered, shall be on a square yard basis.
 - 5. Payment for removing asphaltic surface course, regardless of thickness encountered, shall be on a square yard basis paid under item description "Asphalt Surface Mill." This includes removal of existing surface to pavement base.
 - 6. Payment for removing and disposing of miscellaneous concrete and masonry items shall be on a cubic yard basis of structure in place.
 - 7. Payment for removing and disposing of pipes, culverts, sewers and sewer leads shall be on a linear foot basis for each diameter and each material type of pipe removed.
 - 8. Payment for removing and disposing of existing inlets shall be

- on unit a price basis for each inlet removed.
9. Payment for removing and disposing of concrete piles, including pre-stressed piles, and drill shafts shall be on a linear foot basis.
 10. Payment for removing and disposing of existing bridges, including piles and abutments to minimum of four feet (4 Ft) below ground level, shall be on a lump sum basis.
 11. Payment for removing and disposing of existing manholes shall be on a unit price basis for each manhole removed.
 12. No payment for saw cutting of pavement, curbs or curbs and gutters will be made under this section. Include cost of such work in unit prices for items requiring saw cutting which are listed on the Unit Price Form.
 13. No payment will be made for work outside maximum payment limits indicated on the Drawings or for pavements, structures or other items removed for the Contractor's convenience.
 - a. For utility installations: Actual pavement replaced should match but not be greater than maximum pavement replacement limits shown on the Drawings. Limits of measurement will be as shown on Street Cut Pavement Replacement Rules.
 14. Refer to Section 01270 – Measurement and Payment for unit price procedures.
- B. Stipulated Price (Lump Sum):
1. If Contract shall be Stipulated Price Contract, payment for work in this Section is included in Total Stipulated Price.

1.3 REGULATORY REQUIREMENTS

- A. Conform to applicable codes for disposal of debris.
- B. Coordinate removal work with utility companies.

1.4 REFERENCES

- A. CTFS – City of Friendswood Technical Specifications.

PART II: PRODUCTS – Not Used

PART III: EXECUTION

3.1 PREPARATION

- A. Obtain advance approval from the Project Manager for dimensions and limits of pavement, structures and other items to be removed.
- B. Identify known utilities below grade. Stake and flag locations.

3.2 PROTECTION

- A. Protect the following from damage or displacement:
 1. Adjacent public and private property.

2. Trees, plants and other landscape features designated to remain.
3. Utilities designated to remain.
4. Pavement, structures and other items designated to remain.
5. Bench marks, monuments and other items designated to remain.

3.3 REMOVALS

- A. Remove pavements, structures and other items by methods that will not damage underground utilities. Do not use drop hammer near existing underground utilities.
- B. Minimize amount of earth loaded during removal operations.
- C. Where existing pavement is to remain, make straight saw cuts in existing pavement to provide clean breaks prior to removal. Do not break concrete pavement or base with drop hammer unless concrete or base has been saw cut to minimum depth of two inches (2 In).
- D. When street and driveway saw cut location is greater than one-half (1/2) of pavement lane width, remove pavement for full lane width or to nearest longitudinal joint as directed by the Project Manager.
- E. Remove sidewalks and curbs to nearest existing dummy, expansion or construction joint.
- F. Where existing end of pipe culvert or end of sewer is to remain, install eight inch (8 In) thick masonry plug in pipe end prior to backfill in accordance with requirements of Section 02120 – Excavation and Backfill for Structures.

3.4 BACKFILL

- A. Backfill of areas excavated during removal operations shall be in accordance with requirements of Section 02120 – Excavation and Backfill for Structures.

3.5 DISPOSAL

- A. Inlet frames, grates and plates; and manhole frames and covers may, as directed, remain City property. Disposal shall be in accordance with requirements of Section 01580 – Waste Material Disposal.
- B. Remove from site any debris resulting from work under this section in accordance with requirements of Section 01580 – Waste Material Disposal.

END OF SECTION