

SECTION 311000 - SITE CLEARING

PART 1 - GENERAL

1.01 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including Division 01 Specification Sections, apply to this Section.

1.02 SUMMARY

- A. Section Includes:
 - 1. Protecting existing vegetation to remain.
 - 2. Clearing and grubbing.
 - 3. Removing above- and below-grade site improvements.
 - 4. Protection of existing structures to remain
 - 5. Disconnecting, capping or sealing, and removing site utilities or abandoning site utilities in place.
 - 6. Temporary erosion- and sedimentation-control measures.
- B. Related Sections:
 - 1. Division 01 Section "Temporary Facilities and Controls" for temporary utility services, construction and support facilities, traffic control plans, security and protection facilities, and temporary erosion- and sedimentation-control measures.

1.03 DEFINITIONS

- A. Subsoil: All soil beneath the topsoil layer of the soil profile, and typified by the lack of organic matter and soil organisms.
- B. Surface Soil: Soil that is present at the top layer of the existing soil profile at the Project site. In undisturbed areas, the surface soil is typically topsoil; but in disturbed areas such as urban environments, the surface soil can be subsoil.
- C. Topsoil: Top layer of the soil profile consisting of existing native surface topsoil or existing in-place surface soil and is the zone where plant roots grow. Its appearance is generally friable, pervious, and black or a darker shade of brown, gray, or red than underlying subsoil; reasonably free of subsoil, clay lumps, gravel, and other objects more than 2 inches in diameter; and free of subsoil and weeds, roots, toxic materials, or other non-soil materials.
- D. Vegetation: Trees, shrubs, groundcovers, grass, and other plants.

1.04 MATERIAL OWNERSHIP

- A. Except for stripped topsoil and other materials indicated to be stockpiled, temporarily relocated, or otherwise to remain Owner's property, cleared materials shall become the Contractor's property and shall be removed from the Project site before final acceptance.

1.05 INFORMATIONAL SUBMITTALS

- A. Existing Conditions: Documentation of existing trees and plantings, adjoining construction, and site improvements that establishes preconstruction conditions that might be misconstrued as damage caused by site clearing.
 - 1. Use sufficiently detailed photographs.
 - 2. Include plans and notations to indicate specific wounds and damage conditions of each tree or other plants designated to remain.
 - 3. Include work plan to protect existing structures designated to remain.
- B. Record Drawings: Identifying and accurately showing locations of capped utilities and other subsurface structural, electrical, and mechanical conditions.

1.06 DUST AND DEBRIS CONTROL

- A. Prevent the spread of all dust and debris to adjacent taxiways, roads, and land areas.
- B. Avoid the creation of nuisance or hazard in the surrounding area and adjacent property.
- C. Do not use water if it will result in or create hazardous or objectionable conditions such as, but not limited to, ice, flooding, or pollution of adjacent property, taxiways, or streets.
- D. Vacuum adjacent existing pavements as often as necessary to control the spread of dust and debris.

1.07 PROJECT CONDITIONS

- A. Traffic: Minimize interference with adjoining taxiways, roads, streets, walks, and other adjacent occupied or used facilities during site-clearing operations. See Division 01 Section "Temporary Facilities and Controls" for traffic control plans.
 - 1. Do not close or obstruct streets, walks, or other adjacent occupied or used facilities without permission from CBY and authorities having jurisdiction.
 - 2. Provide alternate routes around closed or obstructed traffic ways if required by authorities having jurisdiction.
- B. Improvements on Adjoining Property: Authority for performing site clearing indicated on property adjoining property will be obtained by Developer before award of Contract.
 - 1. Do not proceed with work on adjoining property until directed by Developer's Representative.
- C. Utility Locator Service: Notify the Alaska Dig Line for area where Project is located before site clearing.
- D. Do not commence site clearing operations until temporary erosion- and sedimentation-control measures are in place.

- E. The following practices are prohibited within protection zones:
 - 1. Storage of construction materials, debris, or excavated material.
 - 2. Parking vehicles or equipment.
 - 3. Foot traffic.
 - 4. Erection of sheds or structures.
 - 5. Impoundment of water.
 - 6. Excavation or other digging unless otherwise indicated.
 - 7. Attachment of signs to or wrapping materials around trees or plants unless otherwise indicated.
- F. Do not direct vehicle or equipment exhaust towards protection zones.
- G. Prohibit heat sources, flames, ignition sources, and smoking within or near protection zones.
- H. Soil Stripping, Handling, and Stockpiling: Perform only when the topsoil is dry or slightly moist.
- I. Do not clearing or grub during the migratory bird window, April 15-July 15, unless:
 - 1. The area has been previously and sufficiently altered to provide no nesting habitat; or
 - 2. The area has been surveyed by a qualified bird expert to determine if there are existing bird nests. If nests are present, do not clear or grub until after the nesting season is completed.

PART 2 - PRODUCTS

2.01 MATERIALS

- A. Satisfactory Soil Material: Requirements for satisfactory soil material are specified in Division 31 Section "Earth Moving."
 - 1. Obtain approved borrow soil material off-site when satisfactory soil material is not available on-site.

PART 3 - EXECUTION

3.01 PREPARATION

- A. Protect and maintain benchmarks and survey control points from disturbance during construction.
- B. Protect existing site improvements to remain from damage during construction.
 - 1. Restore damaged improvements to their original condition, as acceptable to CBY.

3.02 TEMPORARY EROSION AND SEDIMENTATION CONTROL

- A. Provide temporary erosion- and sedimentation-control measures to prevent soil erosion and discharge of soil-bearing water runoff or airborne dust to adjacent properties and walkways, according to erosion- and sedimentation-control Drawings and requirements of authorities having jurisdiction. SEE SECTION 310000 EROSION, SEDIMENT, AND POLLUTION CONTROL.

- B. Verify that flows of water redirected from construction areas or generated by construction activity do not enter or cross protection zones.
- C. Inspect, maintain, and repair erosion- and sedimentation-control measures during construction until permanent vegetation has been established.
- D. Remove erosion and sedimentation controls and restore and stabilize areas disturbed during removal.

3.03 EXISTING UTILITIES

- A. Locate, identify, and disconnect utilities indicated to be abandoned in place.
- B. Interrupting Existing Utilities: Do not interrupt utilities serving facilities occupied by CBY or others unless permitted under the following conditions and then only after arranging to provide temporary utility services according to requirements indicated:
 - 1. Notify Developer and CBY not less than four days in advance of proposed utility interruptions.
 - 2. Do not proceed with utility interruptions without CBY's written permission.
- C. Excavate for and remove underground utilities indicated to be removed.

3.04 CLEARING AND GRUBBING

- A. Remove obstructions, trees, shrubs, and other vegetation to permit installation of new construction.
 - 1. Do not remove trees, shrubs, and other vegetation indicated to remain or to be relocated.
- B. Fill depressions caused by clearing and grubbing operations with satisfactory soil material unless further excavation or earthwork is indicated.
 - 1. Place fill material in horizontal layers not exceeding a loose depth of 8 inches, and compact each layer to a density equal to adjacent original ground.

3.05 SITE IMPROVEMENTS

- A. Remove existing above- and below-grade improvements as indicated and necessary to facilitate new construction.
- B. Remove slabs, paving, and aggregate base as indicated.
 - 1. Unless existing full-depth joints coincide with line of demolition, neatly saw-cut along line of existing pavement to remain before removing adjacent existing pavement. Saw-cut faces vertically.
 - 2. Paint cut ends of steel reinforcement in concrete to remain with two coats of antirust coating, following coating manufacturer's written instructions. Keep paint off surfaces that will remain exposed.

3.06 DISPOSAL OF SURPLUS AND WASTE MATERIALS

- A. Remove surplus soil material, unsuitable topsoil, obstructions, demolished materials, and waste materials including trash and debris, and legally dispose of them off CBY's property.

PART 4 - MEASUREMENT AND PAYMENT

4.01 MEASUREMENT

- A. Clearing and grubbing will ~~not be measured since it is a lump sum item~~ be measured by the acre of area acceptably cleared and/or grubbed, measured on the ground surface. Existing roadways, lakes, ponds, stream beds, and other areas not covered by trees or brush will not be included for measurement.

4.02 BASIS OF PAYMENT

- A. Payment for clearing and grubbing by the Contractor as specified shall include furnishing all necessary material, personnel, equipment, transportation, and supplies to perform all clearing and grubbing work as shown and specified, including the legal disposal of all debris.

<u>Pay Item Number</u>	<u>Pay Item</u>	<u>Pay Unit</u>
311000-1	Clearing and Grubbing	Lump Sum <u>Acre</u>

END OF SECTION

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