

1 **Division 2**

2 **Earthwork**

3
4 **Clearing, Grubbing, and Roadside Cleanup**

5
6 **Description**

7
8 Section 2-01.1 is supplemented with the following:

9
10 (March 13, 1995)

11 Clearing and grubbing on this project shall be performed within the following limits:

12
13 *** \$\$1\$\$ ***

14
15 **Construction Requirements**

16
17 ***Clearing***

18
19 Item number 1 of Section 2-01.3(1) is revised to read:

20
21 (April 2, 2018)

- 22 1. Trees identified for removal shall be felled into the Contracting Agency right of
23 way or areas that will be cleared of vegetation.

24
25 ***Roadside Cleanup***

26
27 Section 2-01.3(4) is supplemented with the following:

28
29 (January 5, 1998)

30 *** \$\$1\$\$ ***

31
32 **Payment**

33
34 The first and second paragraphs of Section 2-01.5 are revised to read:

35
36 (August 7, 2017)

37 Payment will be made for the following bid items when they are included in the proposal:

38
39 All costs for clearing and grubbing on this project shall be included in the *** \$\$1\$\$
40 ***.

41
42 **Removal of Structures and Obstructions**

43
44 **Description**

45
46 Section 2-02.1 is supplemented with the following:

47
48 (March 13, 1995)

49 This work shall consist of removing miscellaneous traffic items.
50

1 **(October 4, 2021)**
2 **Removal and Disposal of Asbestos Material**
3 This work shall consist of removing, handling, and disposing of Asbestos Containing
4 Material and Presumed Asbestos Containing Material identified in the Good Faith
5 Investigation (GFI). The Contractor shall remove and dispose of asbestos in any and all
6 areas as identified in the GFI.
7
8 (March 13, 1995)
9 This work shall consist of removing portions of an existing box culvert in preparation for
10 extending the box culvert.
11
12 **(February 25, 2021)**
13 **Decommissioning Wells**
14 The Contractor shall decommission wells at the locations as shown in the Plans.
15
16 **Vacant**
17
18 Section 2-02.2 is supplemented with the following:
19
20 (February 25, 2021)
21 Materials shall conform to WAC 173-160-381 for the type of well scheduled for
22 decommissioning.
23
24 **Construction Requirements**
25
26 Section 2-02.3 is supplemented with the following:
27
28 **(September 7, 2021)**
29 **Removal of Obstructions**
30 The following miscellaneous Obstructions shall be removed and disposed of:
31
32 *** \$\$1\$\$ ***
33
34 **(March 13, 1995)**
35 **Removing Miscellaneous Traffic Items**
36 The following miscellaneous traffic items shall be removed and disposed of:
37
38 *** \$\$1\$\$ ***
39
40 **(June 6, 2022)**
41 **Removal and Disposal of Hazardous Material**
42 Hazardous material is suspected to exist on this project. Approximate limits of
43 contamination are identified in the Plans. The site history, prior studies and/or test results
44 indicate a potential for encountering *** \$\$1\$\$ ***.
45
46 Copies of the environmental reports are available for review at
47 <https://ftp.wsdot.wa.gov/contracts/>. All necessary permits for this work will be furnished
48 by the Contracting Agency. The Contractor is responsible for all work, records, and reports
49 required to perform the work described in this section. The Contracting Agency will
50 perform all testing of suspected hazardous or contaminated material.
51

1 The Contractor shall notify the Engineer 10 working days prior to beginning work in the
2 area identified in the Plans as contaminated. The Contractor shall notify the Engineer
3 immediately if contamination is discovered in areas other than those identified in the Plans
4 or is suspected through observations such as an oily sheen or discolored soils that may
5 or may not emit strong chemical odors.
6

7 ***Contaminated Soil and Hazardous Material***

8 The Engineer will determine the limits of excavation required. All material that is
9 designated by the Engineer to be removed shall be handled and stored in a manner that
10 prevents the spread of contamination to adjacent soil or water. Separate stockpiles shall
11 be maintained for known hazardous or contaminated material and for suspected
12 hazardous or contaminated material. The Contractor shall transport hazardous or
13 contaminated material and dispose of it at a permitted facility. The Contractor shall provide
14 the Engineer with a copy of the shipping manifest or bill of lading indicating the amount
15 of material hauled to disposal and bearing the disposal site operator's confirmation for
16 receipt of the material. Manifests shall be submitted in accordance with Section 1-07.5(7).
17

18 ***Contaminated Water***

19 All water that is removed from the areas of contamination, including free water that
20 leaches from contaminated soil stockpiles or water that is suspected of being
21 contaminated, shall be collected, handled and stored in a manner that prevents the
22 spread of contamination to adjacent soil or water. The Contractor shall transport
23 contaminated water and dispose of it at a permitted facility. The Contractor shall provide
24 the Engineer with a copy of the shipping manifest or bill of lading indicating the amount
25 of material hauled to disposal and bearing the disposal site operator's confirmation for
26 receipt of the material. Manifests shall be submitted in accordance with Section 1-07.5(7).
27

28 ***(October 4, 2021)***

29 ***Removal and Disposal of Asbestos Material***

30 Prior to performance of any contract work, the Contractor shall obtain all permits from and
31 provide notification to, the Washington State Department of Labor and Industries, the
32 Washington State Department of Ecology, the local clean air agency, and other permitting
33 and regulatory agencies with jurisdiction over the work involving asbestos as the laws,
34 rules, and regulations require.
35

36 Prior to commencing asbestos related work, the Contractor shall submit as a Type 1
37 Working Drawing any and all written verification of approvals and notifications that have
38 been given and/or obtained from the required jurisdictional agencies. The Contractor shall
39 include a schedule of activities for all work involving asbestos removal as part of the Type
40 1 Working Drawing. Asbestos related work shall also be shown on the Contractor's project
41 progress schedule.
42

43 The Contractor shall designate a Washington State Certified Asbestos Supervisor (CAS),
44 certified in accordance with WAC 295-65-012, to supervise the asbestos removal and to
45 ensure that the handling and removal of asbestos is accomplished by certified asbestos
46 workers, pursuant to Washington State Department of Labor and Industries standards.
47 The Contractor shall ensure that the removal and disposal of asbestos meets the
48 requirements of EPA regulation 40 CFR Part 61, local health department regulations, and
49 all other applicable regulations.
50

51 The Contractor shall ensure the safety of all workers, visitors to the site, and the public in
52 accordance with all applicable laws, rules, and regulations.

1
2 **(October 4, 2021)**

3 ***Removal and Disposal of Asbestos Material***

4 In the event suspected Asbestos Containing Material (ACM) is encountered, the
5 Contractor shall immediately notify the Engineer and the provisions of Section 1-04.7 shall
6 apply. Prior to commencing asbestos related work, the Contractor shall obtain all permits
7 from and provide notification to, the Washington State Department of Labor and
8 Industries, the Washington State Department of Ecology, the local clean air agency, and
9 other permitting and regulatory agencies with jurisdiction over the work involving asbestos
10 as the laws, rules, and regulations require.

11
12 The ACM shall only be disturbed under the supervision of a Washington State Certified
13 Asbestos Supervisor (CAS). The CAS shall be certified in accordance with WAC 295-65-
14 012.

15
16 The CAS shall supervise the asbestos removal and ensure that the handling and removal
17 of asbestos is accomplished by certified asbestos workers and in accordance with
18 Washington State Department of Labor and Industries standards. The Contractor shall
19 ensure that the removal and disposal of asbestos meets the requirements of EPA
20 regulation 40 CFR Part 61, local health department regulations, and all other applicable
21 regulations.

22
23 No asbestos is expected to be encountered. However, if the Contractor believes they
24 have encountered asbestos, they shall immediately notify the Engineer in accordance
25 with Section 1-04.7.

26
27 **(June 26, 2000)**

28 ***Salvage of Removed Structure Items***

29 All *** \$\$1\$\$ *** of the existing bridge or structure being removed shall remain the
30 property of the Contracting Agency.

31
32 The Contractor shall transport the specified salvaged items to the following location:

33
34 ***\$\$2\$\$***

35
36 The Contractor shall stack the material where directed by the Engineer. The Contractor
37 shall contact the Engineer at least five working days prior to scheduled delivery of the
38 items to confirm delivery arrangements.

39
40 **(February 25, 2021)**

41 ***Decommissioning of Wells***

- 42 1. Protect the well in place until decommissioned.
- 43
- 44 2. The Contractor shall provide the Department of Ecology (Ecology) a Notice of Intent
45 (NOI) prior to decommissioning a well. A pdf of the NOI shall be provided to the
46 Engineer within 24 hours of submittal to Ecology. A pdf of any Ecology required well
47 reports shall be provided to the Engineer within 24 hours of submittal to the Ecology.
48 Well reports shall include tag numbers, coordinates or other data required by Ecology
49 for incorporation into the Ecology database for wells.
- 50
- 51 3. Licensed well drillers shall be utilized in accordance with Chapter 18.104 RCW, the
52 Washington Well Construction Act.

4. The Contractor shall comply with WAC 173-160-381 which describes the standards for decommissioning a well.
5. The Contractor shall comply with WAC 173-160-261 requiring all dug wells to have a proper cap to prevent injury and contamination.
6. The Contractor shall comply with local laws pertaining to the decommissioning of wells.
7. This Work shall be completed prior to physical completion of the project or as agreed upon with the Engineer.

Removal of Bridges, Box Culverts, and other Drainage Structures

Section 2-02.3(2) is supplemented with the following:

(June 26, 2000)

The Contractor shall remove existing Bridge *** \$\$1\$\$ *** after routing traffic onto *** \$\$2\$\$ ***.

(June 26, 2000)

The Contractor shall remove existing Bridge *** \$\$1\$\$ *** in stages as shown in the Plans.

(June 26, 2000)

The Contractor shall remove the following portions of Bridge *** \$\$1\$\$ *** , as shown in the Plans:

*** \$\$2\$\$ ***

(June 26, 2000)

Removal Limits in Water

The existing piers of Bridge *** \$\$1\$\$ *** within the wetted perimeter of the *** \$\$2\$\$ *** which do not conflict with new construction shall be removed to elevation *** \$\$3\$\$ ***. All broken concrete, and other bridge removal debris shall be removed from the bottom of the *** \$\$4\$\$ ***.

Use of Explosives

(January 2, 2018)

The Contractor may use explosives in the demolition of *** \$\$1\$\$ ***.

If explosives are used for any removal operation, the Contractor shall:

1. Conform with Section 1-07.22, including providing notice of the time and duration of the blasting operation to all residents and property owners within the safety zone.
2. Submit a Type 2 Working Drawing consisting of a detailed blasting plan.

- 1 3. Perform a pre-blast survey to document the pre-blast condition of all
2 structures within the safety zone, and provide copies of the pre-blast survey
3 to the Engineer.
4
 - 5 4. Obtain permits and approvals from all applicable governmental agencies.
6
- 7 The blasting plan shall include, at a minimum, the following:
- 8
 - 9 1. Show all stages of the demolition work.
10
 - 11 2. Show details of all “pre-weakening” of the bridge, including locations and
12 extent of the Structure modifications.
13
 - 14 3. Specify the explosive and charge type and quantity.
15
 - 16 4. Specify the firing sequence.
17
 - 18 5. Specify the fall direction and fall sequence of the bridge, and show locations
19 and details of all cables and structure attachments used for control.
20
 - 21 6. Show details of drill holes and explosive placement.
22
 - 23 7. Specify types of ground vibration monitoring equipment and show the
24 locations of such equipment.
25
 - 26 8. Specify how noise and shock waves are kept to a minimum.
27
 - 28 9. Specify fragment, dust, and debris control.
29
 - 30 10. Name, address, and phone number(s) of the licensed explosives expert
31 supervising the operation.
32
 - 33 11. Specify safety and security procedures, including, but not limited to, the
34 following:
35
 - 36 a. Methods of storage and transportation.
37
 - 38 b. Measures taken to secure the blasting materials at all times,
39 including all non-working hours.
40
 - 41 c. Measures taken to secure the bridge site at all times during and
42 after installation of all charges and after blasting.
43
 - 44 d. Safeguards against accidental discharge.
45
 - 46 e. Safety zone limits.
47
 - 48 f. Barricade locations.
49
 - 50 g. Location of firing device, warning signals, warning signs.
51

- 1 h. Communication procedures for notifying the Engineer, nearby
2 residents, and all personnel of impending blasting.
3

4 The Contractor shall enlist a licensed, experienced explosives expert to supervise all
5 stages of explosive work, including hole drilling and explosive placement, safety
6 procedures, and blasting operations.
7

8 At least five to ten working days prior to the scheduled blast, a pre-blast conference
9 shall be held to discuss the blasting plan, all pre-blast preparations of the bridge, the
10 pre-blast, blast, and post-blast procedures, and the responsibilities and activities of
11 the personnel and equipment involved. Those attending shall include, at a minimum,
12 the project superintendent, the licensed explosives expert assigned to supervise the
13 work, and the work crew leaders responsible for performing the pre-blast and post-
14 blast activities.
15

16 Traffic shall not be allowed in the vicinity during blasting operations.
17

18 All damage as a result of the Contractor's blasting operations shall be repaired by
19 the Contractor at no additional expense to the Contracting Agency in accordance
20 with Sections 1-07.13 and 1-07.14.
21

22 **(January 2, 2018)**

23 **Requirements for Closing Bridge to Traffic Prior to Beginning Removal**

24 The Contractor shall not close the existing bridge to traffic, and shall not begin bridge
25 removal operations, until the following conditions are met:
26

- 27 1. The Contractor's bridge demolition plan Working Drawing submittal has
28 been processed and all comments from the Engineer have been
29 addressed.
30
- 31 2. The Contractor has received the Engineer's acceptance of all shop
32 drawings and materials submittals for materials required for the work to be
33 executed during the closure.
34
- 35 3. The Contractor has submitted a Type 1 Working Drawing consisting of a
36 report on the status of material delivery. The report shall specify the
37 materials already available at the site, the materials yet to arrive at the site,
38 and the scheduled delivery dates of the materials yet to arrive at the site,
39 with written verification from the supplier or copies of confirmed purchase
40 orders indicating the delivery dates of the materials yet to arrive at the site.
41
- 42 4. The Contractor shall provide an updated progress schedule in accordance
43 with Section 1-08.3 confirming that the scheduled delivery of materials will
44 meet the schedule to complete the work within the allowed time. The
45 Contractor shall supplement the progress schedule with a written narrative
46 describing the assumed production rates and planned resource allocations
47 that support the bridge construction activity durations provided in the
48 progress schedule.
49
- 50 5. The Contractor has received the Engineer's concurrence to proceed.
51

1 (June 26, 2000)

2 **Removing Portions of Existing Box Culvert**

3 The Contractor shall remove, to the limits shown in the Plans, the existing wingwalls,
4 wingwall footings, aprons, and parapet walls of the box culvert to be extended.

5
6 ***Removal of Pavement, Sidewalks, Curbs, and Gutters***

7
8 Section 2-02.3(3) is supplemented with the following:

9
10 (September 8, 1997)

11 The approximate thickness of the *** \$\$1\$\$ *** pavement is *** \$\$2\$\$ ***.

12
13 **Measurement**

14
15 Section 2-02.4 is supplemented with the following:

16
17 (December 4, 2006)

18 Hazardous material excavation including haul will be measured by the cubic yard. All
19 excavated material will be measured in the position it occupied before the excavation was
20 performed. An original ground measurement will be taken using cross-section or digital
21 terrain modeling survey techniques. The original ground will be compared with a survey
22 of the excavation area taken after the work is completed.

23
24 (September 8, 1997)

25 Pavement removal will be measured by the square yard.

26
27 (October 25, 1999)

28 Sidewalk removal will be measured by the square yard.

29
30 (September 8, 1997)

31 Curb removal will be measured by the linear foot.

32
33 **Payment**

34
35 Section 2-02.5 is revised by the following:

36
37 (August 7, 2017)

38 Payment will be made for the following bid item when it is included in the proposal.

39
40 All costs for the removal of structures and obstructions shall be included in *** \$\$1\$\$ ***.

41
42 Section 2-02.5 is supplemented with the following:

43
44 (February 25, 2021)

45 "Decommissioning Wells", lump sum including all Work as specified and payment to
46 regulatory agencies for any associated fees for monitoring or decommissioning of wells.

47
48 (December 4, 2006)

49 "Hazardous Material Handling And Disposal", by force account as provided in Section 1-
50 09.6.

1 All costs associated with storing stockpiled hazardous waste and contaminated soils,
2 collecting, handling and storing contaminated water, loading the stockpiled material into
3 the hauling conveyance for transport to the disposal site, and transporting and disposing
4 of hazardous or contaminated materials at an approved facility will be paid by force
5 account under the item "Hazardous Material Handling And Disposal".
6

7 To provide a common basis for all bidders, the Contracting Agency has entered an amount
8 in the proposal to become a part of the Contractor's total bid.
9

10 "Hazardous Material Excavation Incl. Haul", per cubic yard.

11 The unit contract price for "Hazardous Material Excavation Incl. Haul" shall be full pay for
12 all costs associated with excavating the material designated to be removed, hauling it to
13 the stockpile location, and stockpiling the excavated material.
14

15 (September 30, 1996)

16 "Removing Miscellaneous Traffic Item", lump sum.
17

18 (September 30, 1996)

19 "Removal and Disposal of Asbestos Material", lump sum.
20

21 (June 26, 2000)

22 "Removing Portion of Conc. Box Culv.", lump sum.
23

24 The lump sum contract price for "Removing Portion of Conc. Box Culv." shall be full pay
25 for preparing the box culvert for the extension by removing and disposing of all concrete
26 and other debris specified.
27

28 (September 30, 1996)

29 "Removing *** \$\$1\$\$ *** Pavement", per square yard.
30

31 (June 26, 2000)

32 All costs in connection with removing the box culvert wingwalls, footings, aprons, and
33 parapet wall and disposing of concrete and other debris as specified shall be included in
34 the unit contract prices for the items of work involved in the extension of the box culvert(s).
35

36 (November 3, 1999)

37 "Removing *** \$\$1\$\$ *** Sidewalk", per square yard.
38

39 (September 8, 1997)

40 "Removing *** \$\$1\$\$ *** Curb", per linear foot.
41

42 **Roadway Excavation and Embankment**

43 **Construction Requirements**

44 ***Rock Cuts***

45
46
47
48 Section 2-03.3(2) is supplemented with the following:
49