

Attachment 1

SPC-317, Revision 1, Construction Specification for Waste Area Group 5, Remedial Design/Remedial Action - Phase II

CONSTRUCTION SPECIFICATION

PROJECT FILE NO. 020911

Waste Area Group 5 Remedial Design/Remedial Action – Phase II

APPROVED FOR CONSTRUCTION

Prepared for:
U.S. Department of Energy
Idaho Operations Office
Idaho Falls, Idaho]



Form 412.14
04/03/2003
Rev. 04

Waste Area Group 5, Remedial Design/Remedial Action – Phase II

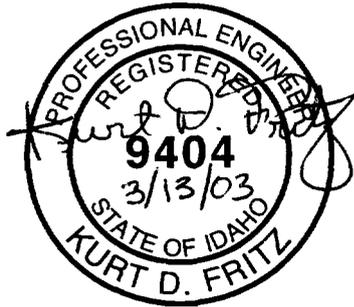
The following Sections of this Specification were prepared under the direction of the Professional Engineer as indicated by the seal and signature provided on this page. The Professional Engineer is registered in the State of Idaho to practice Civil Engineering. General Provisions and Special Conditions referenced herein will be provided to the Subcontractor during procurement.

Division 1 – General Requirements

01005 Summary of Work
01051 Construction Surveying And Staking
01300 Submittals

Division 2 – Site Work

02200 Earthwork
02486 Revegetation



SPECIFICATIONS TABLE OF CONTENTS

<u>SPECIFICATION TITLE</u>	<u>NUMBER OF PAGES IN SECTION</u>
 <u>DIVISION 1 - GENERAL REQUIREMENTS</u>	
01005 SUMMARY OF WORK	2
01051 CONSTRUCTION SURVEYING AND STAKING	3
01300 SUBMITTALS	3
 <u>DIVISION 2 - SITE WORK</u>	
02200 EARTHWORK	12
02486 REVEGETATION.....	3
 <u>ATTACHMENTS:</u>	
VENDOR DATA SCHEDULE	
SCHEDULE X	

1 SECTION 01005--SUMMARY OF WORK

2
3 PART 1--GENERAL

4
5 SUMMARY:

6
7 The Subcontractor shall furnish labor, material, equipment, and supplies; and perform work
8 and operations necessary to perform the OU 5-12 Phase II remedial action completely, in
9 accordance with the subcontract drawings and these specifications.

10
11 All soil removal areas shall be clearly marked by the Subcontractor prior to start of work
12 using coordinates as shown on the drawings.

13
14 The marked areas will identify the radionuclide contaminated surface soil that requires
15 excavation. Prior to excavation, the vegetation that covers the areas shall be mowed.
16 Vegetation and contaminated soil shall be transported to an onsite disposal facility as
17 indicated in the Special Conditions. The Subcontractor shall remove the soil in 3 inch or 6
18 inch lifts as shown on the drawings. Upon completion of the excavation, the area will be
19 surveyed by the Contractor to determine if contaminants are still present. If the cleanup level
20 is not obtained, then the contaminated area coordinates will be provided by the Contractor
21 and an additional cut will be taken. This will be done until the area meets or exceeds the
22 cleanup goals or until basalt has been reached. No basalt outcroppings will be removed
23 during this removal action.

24
25 The excavated soil shall be loaded into the transport vehicles equipped with "burrito bag"
26 containment liners and covered to prevent the loss of any material during transport. After
27 covering, each vehicle shall be visually inspected by the Job Site Supervisor (JSS), and the
28 Radiological Control Technician (RCT) will perform a radiological survey to ensure that the
29 load is securely contained prior to leaving the area. Surveys may take as little as 15 minutes
30 for each vehicle. However, if radiation is detected, the survey may take over an hour and the
31 Subcontractor shall be responsible for removing any contamination found prior to leaving the
32 area. The same radiological survey sequence shall take place prior to leaving the disposal
33 site. All radiological surveying shall be in accordance with PRD-3001.

34
35 Once excavation activities are completed in a work area (ARA 01, 12, or 23) and verification
36 surveys and samples of the area are complete, the Subcontractor shall decontaminate
37 equipment and move to the next work area. Verification samples will be collected by the
38 Contractor to verify that the excavation area meets the cleanup goals. Site closure will be
39 initiated upon notification that the excavation area has obtained compliance with remedial
40 action goals.

41
42 Site close out includes regrading and revegetating disturbed areas. Backfilling will be
43 required in some excavations exceeding 1 foot in depth as directed by the Contractor's
44 Representative.

45

Project Title: **Waste Area Group 5 Remedial Design/Remedial Action - Phase II**
Document Type: **Construction Specifications** Project Number: 020911
SPC: 317

1 REFERENCES:
2

3 The following documents, including others referenced therein, form part of this Section to the
4 extent designated herein.
5

6 CODE OF FEDERAL REGULATIONS (CFR)

7 29 CFR 1910 OSHA General Industry Safety Standards
8 29 CFR 1926 OSHA Construction Industry Safety Standards
9

10 BECHTEL BWXI IDAHO, LLC (BBWI)

11 Subcontractor Requirements Manual (SRM)
12 General Provisions
13
14

15 Unless otherwise specified, references in these specifications or on the subcontract drawings
16 to other specifications, codes, standards or manuals which are part of these specifications, but
17 not included herein, shall be the latest edition, including any amendments and revisions, in
18 effect as of the date of this Specification.
19

20 SUBMITTALS:
21

22 Submittals include, but are not limited to the following:
23

24 Hazardous Chemicals and Substances: Subcontractor shall submit a list of hazardous
25 chemicals and substances in accordance with General Provisions for mandatory approval.
26 Chemicals and substances not previously approved for use will require the submittal of
27 MSDS for mandatory approval.
28

29 QUALITY ASSURANCE:
30

31 Quality Assurance Program requirements shall exist to assure that work performed is in
32 conformance with the requirements established by the drawings and this specification. QA
33 Program criteria applicable to this scope of work is addressed in the Special Conditions and
34 these specifications.
35

36 SAFETY, HEALTH AND ENVIRONMENT:
37

38 In general work shall be in compliance with the applicable sections of 29 CFR 1910, 29 CFR
39 1926 and the Subcontractor Requirements Manual and General Provisions.
40

41 END OF SECTION 01005

1 SECTION 01051--CONSTRUCTION SURVEYING AND STAKING

2
3 PART 1--GENERAL

4
5 SUMMARY:

6
7 Section Includes: Work includes, but is not limited to:

8
9 The Subcontractor shall furnish all materials, labor, tools and equipment to perform all
10 surveying necessary to lay out and control the construction work. The Subcontractor shall
11 perform surveying to establish the "first cut" excavation boundaries as set forth in these
12 specifications and the design drawings. Following excavation and screening of the first cut
13 excavation, the Contractor will provide survey coordinates for the "selective" excavation
14 boundary as required. The Subcontractor shall then survey and mark the excavation
15 boundary prior to commencement of selective excavation. See Section 02200 for definition
16 of excavation terms.

17
18 SUBMITTALS:

19
20 Submittals include but are not limited to the following:

21
22 Certification: Submit certification that the land surveyor is a registered professional in the
23 State of Idaho.

24
25 Topographical Survey: Electronic data shall be reduced and plotted by the Subcontractor in
26 standard ASCII and Autocad 14 format. Electronic data shall be submitted on electronic
27 media such as CD or Zip Disk. Legible notes, drawings, and electronic data files (including
28 point number, northing, easting, elevation, and point description) shall be submitted to the
29 Contractor for approval. All surveys shall be conducted using the established project datum.
30 Required surveys shall consist of:

- 31
32 1.) Topographical survey of the final surface of the entire ARA-01, 12 and 23
33 site including all disturbed areas and a topographical map of the area with
34 a contour interval of 1 foot. Survey shall include all breaks in grade and of
35 sufficient grid to to accurately model the disturbed surface.

36
37 See Section 01300, Submittals and Vendor Data Schedule for additional requirements.

38
39 QUALITY CONTROL:

40
41 Qualifications: Construction surveying and staking shall be accomplished under the direction
42 of a registered professional land surveyor.

1 PART 2--PRODUCTS
 2

3 Stakes: Identification stakes and hubs shall be of sufficient length, width and depth to
 4 provide a solid set in the ground and to provide space for marking above ground when
 5 applicable. The top 2-in. of all stakes shall be painted or marked with plastic flagging.
 6

7 PART 3--EXECUTION
 8

9 SURVEY REQUIREMENT:
 10

11 Control: Use existing control as required. The coordinates of the existing controls will be
 12 provided by the Contractor. Prior to commencement of construction work, the Subcontractor
 13 shall establish survey control inside the work area.
 14

15 Project Datum: Horizontal coordinates are based on NAD27 Idaho East Zone State Plane.
 16 All surveying for the project construction shall be based on this datum.
 17

18 Excavation Limit Reference Stakes: Excavation limit stakes shall be established. The
 19 position of these stakes shall be determined by methods that will produce precision level C
 20 shown in the Table 1.
 21

22 The clearing limit shall be located on the ground and marked with lath, flagging, or other
 23 methods approved by the Contractor's Representative.
 24

25 Monuments, Poles, Signs, and other Existing Items: The following items shall be left in place
 26 and not be disturbed.

- 27 SI-1 Burial Ground fencing, monuments, and engineered barrier
- 28 Institutional control signs
- 29 Power poles
- 30 Monitoring wells
- 31 Abandoned piping outside excavation boundary or below excavation depth.
- 32 Survey control points
- 33 Borehole markers

34 **TABLE 1. REFERENCE STAKES AND CLEARING LIMITS PRECISION**

Item	Precision		
	A	B	C
Horizontal accuracy for clearing limits. In feet or percentage of horizontal distance measured from transverse line, whichever is greater.	.05 ft or 0.2%	0.15 ft or 0.6%	0.2 ft or 1.0%

35
 36 METHOD OF MEASUREMENT:
 37

38 Surveying: Surveying will not be measured.
 39

Project Title: **Waste Area Group 5 Remedial Design/Remedial Action - Phase II**
Document Type: **Construction Specifications** Project Number: 020911
SPC: 317

1 **BASIS OF PAYMENT:**

2

3 Surveying: Payment for surveying shall be included in the contract lump sum price.

4

5 **FIELD QUALITY CONTROL:**

6

7 Surveillance will be performed by the Contractor's Representative to verify compliance of the
8 work to the drawings and specifications.

9

10 **END OF SECTION 01051**

Project Title: **Waste Area Group 5 Remedial Design/Remedial Action Phase II**
Document Type: **Construction Specifications** Project Number: 020911
SPC: 317

1 SECTION 01300--SUBMITTALS

2
3 PART 1--GENERAL

4
5 SUMMARY:

6
7 This section specifies the administrative, technical and quality requirements for Vendor Data
8 submittals. Vendor Data requirements are identified in individual specification sections or on
9 the drawings, and tabularized on a Vendor Data Schedule. In the event of conflicting
10 requirements, the submittal requirements prescribed in the individual specification section
11 shall take top priority, the drawings second and the vendor data schedule last.

12
13 The Subcontractor shall submit data, drawings, and other submittals specified. If the
14 Contractor determines the Subcontractor's submittal to be incomplete or unacceptable, the
15 Subcontractor shall make a complete and acceptable submittal to the Contractor by the
16 second submission of a submittal item.

17
18 The Subcontractor shall be responsible for providing submittals in accordance with the
19 Subcontract General Provisions Document, providing submittals with adequate time for
20 review and resubmittal, and advising the Contractor of any submittal that may be delayed and
21 which might, if further delayed, extend completion of the project.

22
23 Section Includes: Work includes, but is not limited to: The preparation, transmittal and
24 delivery of documents by the Subcontractor to the Contractor as required in the "Submittals"
25 subdivision of the specification section and as provided on the Vendor Data Schedule.

26
27 Related Sections: General Provisions, Subcontractor Requirements Manual, Special
28 Conditions, Drawings and Vendor Data Schedule and other sections of these specifications
29 apply to this section.

30
31 REFERENCES:

32
33 The following documents, including others referenced therein, form part of this Section to the
34 extent designated herein.

35
36 AMERICAN NATIONAL STANDARDS INSTITUTE (ANSI)

37
38 ANSI Y14.1 Drawing Sheet Size and Format

39
40 SUBMITTALS:

41
42 General Procedures: Vendor data, whether prepared by the Subcontractor or Subcontractor's
43 subtier or supplier, shall be submitted as instruments of the Subcontractor. Therefore, prior
44 to submittal, the subcontractor shall ascertain that material and equipment covered by the

Project Title: **Waste Area Group 5 Remedial Design/Remedial Action Phase II**
Document Type: **Construction Specifications** Project Number: 020911
SPC: 317

1 submittal and the contents of the submittal itself, meet all the requirements of the subcontract
2 specifications, drawings, or other contract documents.

3
4 Each submittal shall contain identification for each separable and separate piece of material
5 or equipment, and literature with respect to the information provided in the specification and
6 on the Vendor Data Schedule. Submittals shall be numbered consecutively for each different
7 submittal.

8
9 Vendor Data Schedule:

10
11 Vendor Data required by the specification sections or the drawings to support design,
12 construction, and operation of the project is identified on a Vendor Data Schedule. The
13 Vendor Data Schedule provides a tabular listing by item number, drawing or specification
14 reference, and description of the item or service. The type of submittal is identified by a
15 "Vendor Data Code", and the time required to submit the item is identified by a "When to
16 Submit" code. An "Approval" code specifies whether the submittal is for Mandatory
17 Approval or for Information Only. One copy of routine paper or electronic file submittals
18 are required; additional copies may be required by the Vendor Data Schedule. Electronic file
19 submittals are preferred. Submittals that can not be scanned or provided electronically, such
20 as large shop drawings, will require 6 copies for Mandatory Approval and 4 copies for
21 Information Only. Material or color samples will require 2 sets for Mandatory Approval and
22 1 set for Information Only.

23
24 Or Equal Material or Equipment Submittals:

25
26 All "or equal" materials, equipment or systems shall be identified and submitted for approval
27 as required by the Subcontractor Requirements Manual.

28
29 An "or equal" submittal shall contain as a minimum all operating and physical parameters
30 necessary to show that the material or equipment is equivalent to the specified material or
31 equipment. All parameters shall be specifically identified by the submitter in the proposal.
32 Exceptions or differences between the specified item and the "or equal" item shall also be
33 identified.

34
35 If an "or equal" material, equipment or system is approved, the Subcontractor shall be
36 responsible to provide backup material necessary to include the material, equipment or
37 system in the technical documents.

38
39 Vendor Data Transmittal and Disposition Form 431.13: All vendor data shall be submitted to
40 the Contractor using the Vendor Data Transmittal and Disposition Form. The form provides
41 the Subcontractor a method to submit vendor data and provides the Contractor a means of
42 dispositioning the submittal. The Subcontractor shall list the Vendor Data Schedule item
43 number, a Vendor Data Transmittal tracking number (if applicable), the drawing or
44 specification number reference, a Tag Number (if applicable), the submittal status (e.g.,

Project Title: **Waste Area Group 5 Remedial Design/Remedial Action Phase II**
Document Type: **Construction Specifications** Project Number: 020911
SPC: 317

1 Mandatory Approval, Information Only, Re-submittal, or Or-equal), the Revision Level, and
2 the item description. The description should include the heat or lot number for items
3 requiring Certified Mill Test Reports. The description should be complete enough that a
4 person unfamiliar with the project can determine what the submittal includes.
5

6 Disposition by the Contractor
7

8 The Contractor's comments and required action by the Subcontractor will be indicated by a
9 disposition code on the submittal. The disposition codes will be classed as follows:
10

11 (A) "Work May Proceed." Submittals so noted will generally be classed as data that
12 appears to be satisfactory without corrections.
13

14 (B) "Work May Proceed Subject to Incorporation of Comments." This category
15 will cover data which, with the correction of comments noted or marked on the
16 submittal, appear to be satisfactory and require no further review by the
17 Contractor prior to construction. Revised drawings shall be provided upon
18 request.
19

20 (C) "Work May NOT Proceed. Revise and Resubmit." Submittals so dispositioned
21 will require a corrected resubmittal for one of the following reasons.
22

- 23 1) Submittal requires corrections, per comments, prior to final review.
- 24 2) Submittal data incomplete and requires more detailed information prior to
25 final review.
- 26 3) Submitted data does not meet specification requirements.
27

28 (D) "Received for Information Only." Submittal so dispositioned will generally be
29 classified as Information Only for as-specified material and equipment.
30

31 Mandatory Approval coded vendor data will be reviewed by the Contractor and receive an A,
32 B, or C disposition. The Contractor may provide internal review of Information Only
33 submittals. In the event that comments are generated on an Information Only submittal, the
34 submittal may be dispositioned B or C and returned to the Subcontractor for appropriate
35 action. Information Only submittals without comments will receive a D disposition.
36 All submittals will be returned to the Subcontractor. Acknowledgment of receipt of
37 dispositioned vendor data by the Subcontractor will not be required.
38

39 The Contractor will return dispositioned submittals with reasonable promptness.
40 Subcontractor shall note that a prompt review is dependent on timely and complete
41 submittals in strict accordance with these instructions.
42

43 END OF SECTION 01300

Project Title: **Waste Area Group 5 Remedial Design/Remedial Action - Phase II**
Document Type: **Construction Specifications** Project Number: 020911
SPC: 317

1 SECTION 02200--EARTHWORK

2
3 PART 1--GENERAL

4
5 SUMMARY:

6
7 Section Includes: Work includes, but is not limited to:

8
9 Clearing vegetation as required.

10 Excavating all materials encountered, of every description, for completion of the project
11 as shown on the drawings and as specified herein.

12 Dust control.

13 Delivery of all contaminated material excavated for completion of the project to an onsite
14 disposal facility as indicated in the Special Conditions.

15 Backfilling of all excavations as specified herein.

16 Compacting of all backfill as specified herein.

17 Finish grading and grading for surface drainage or revegetation.

18
19 REFERENCES:

20
21 The following documents, including others referenced therein, form part of this Section to the
22 extent designated herein.

23
24 AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION
25 OFFICIALS (AASHTO)

26
27 AASHTO M145 Classification of Soils and Soil-Aggregate Mixtures for Highway
28 Construction Purposes

29
30 CODE OF FEDERAL REGULATIONS

31
32 29 CFR 1926 OSHA General Industry Safety Standards, Subpart P

33
34 BECHTEL BWXT IDAHO, LLC (BBWI)

35
36 Health and Safety Plan (HASP) for the Remedial Action of Waste Area Group 5,
37 Operable Unit 5-12

38
39 SUBMITTALS:

40
41 Submittals include but are not limited to the following:

1 Construction Work Plan: The Subcontractor shall submit a construction work plan detailing
2 the following:

- 3 • Methods and equipment for clearing vegetation, excavation, basalt cleaning and
4 dust control.
- 5 • Address minimization of cross contamination and strategies for controlling
6 excavation depth.
- 7 • Construction details of the work platform for sealing truck liners and details of the
8 method for sealing liners prior to exit from the construction site.

9
10 PART 2--PRODUCTS

11 MATERIALS AND EQUIPMENT:

12
13 Satisfactory Soil Materials: Satisfactory soil materials are defined as those complying with
14 AASHTO M145, soil classification Groups A-1, A-2-4, A-2-5, and A-3.

15
16 Unsatisfactory Soil Materials: Unsatisfactory soil materials are those defined in
17 AASHTO M145 soil classification Groups A-2-6, A-2-7, A-4, A-5, A-6, and A-7; also peat
18 and other highly organic soils.

19
20 Backfill and Fill Material: "Satisfactory" soil materials free of clay, rock, gravel larger than
21 3 in. in any dimension, debris, waste, frozen materials, vegetable and other deleterious
22 matter. Topsoil and gravel pit material and use of the borrow pits shall be at no cost to the
23 Subcontractor. Topsoil and gravel borrow source locations are identified in the Special
24 Conditions. Upon completion of operations involving fill material removal, the
25 Subcontractor shall grade and reshape the disturbed areas. Sloped surfaces shall meet the
26 requirements of OSHA 29 CFR 1926.

27
28 Equipment: All equipment and tools used by the Subcontractor to perform the work shall be
29 subject to inspection by the Contractor before the work is started and shall be maintained in
30 satisfactory working conditions at all times. The Subcontractor's equipment shall have the
31 capability to perform the indicated work specified here in.

32
33 Due to the potential for contamination, all equipment brought to the site slated for work in
34 the contamination zone shall be identified to the Contractor prior to delivery and shall be
35 clean and free of grease and oil spots where applicable, tires will be in a like-new condition,
36 free of slits, and cracks. The Contractor reserves the right to reject equipment not meeting
37 these standards.

38
39 The Subcontractor shall ensure that all equipment used for clearing vegetation or earthwork is
40 fitted with appropriate safety devices that comply with all applicable Federal laws and the
41 Health and Safety Plan (HASP) for Waste Area Group 5 Remedial Design/Remedial Action -
42 Phase II, and adequately protect the operator and minimize exposure of workers and others to
43 potentially contaminated material.
44

1 PART 3--EXECUTION

2
3 The Subcontractor shall be responsible for determining the method of excavation to be used
4 for each of the areas identified on the drawings. The excavation method shall make every
5 possible effort to remove the contaminated soil while controlling the depth of excavation and
6 minimizing over excavation. The excavation method shall be submitted for Contractor
7 approval. It is recommended that most of the mass excavation be accomplished using an all-
8 wheel drive motor grader for windrowing the soils to minimize the spread of contamination.
9 Hand excavation may be required around site features such as fences, power poles, trees, etc.
10 and where localized contamination does not require the use of mechanized excavation
11 equipment.

12
13 The Subcontractor shall locate and mark existing monuments, monitoring wells, protection
14 posts, and markers before construction operations commence and protect such items during
15 construction. The Subcontractor shall restore or replace damaged items to original condition
16 as required by the Contractor.

17
18 The Subcontractor shall keep all roads and parking areas adjacent to and included in this
19 project usable at all times; this shall include maintaining haul roads and access roads at the
20 project site, INEEL site and borrow areas used under this contract. Sections of the haul route
21 are over deteriorating asphalt roads (Wilson and Fillmore Boulevards). Periodic patching and
22 maintenance by the Subcontractor may be required as necessary. The Subcontractor shall
23 provide all necessary barricades, temporary walkways, lights, signs, signals, etc., for the
24 protection of the workers and the public as per the Occupational Safety and Health
25 Administration (OSHA), Construction Safety and Health Regulation 29 CFR, Part 1926,
26 Subpart G, Signs, Signals, and Barricades.

27
28 The Subcontractor shall clearly mark and post all laydown areas.

29
30 DUST CONTROL:

31
32 The Subcontractor shall minimize the creation and emission of dust per IDAPA Standards
33 58.01.01.650 and 58.01.01.651 during all work activities performed under this contract. This
34 shall be accomplished by the use of water trucks and visual observation. Water based dust
35 control additives may be used with the approval of the Contractor. The Subcontractor shall
36 control the amount of water used so as not to create flowing water. Source of water for dust
37 suppression is specified in the Special Conditions.

38
39 The Subcontractor shall contain and cover excavated soil during transport to the ICDF or
40 other INEEL disposal facility by the use of liners and tarps. The liner system or "burrito bag"
41 shall fully enclose the soil and protect the truck bed on all sides from contact with the soil.
42 The liners shall be 6-mil, minimum black polyethylene with formed corners, auto ignition no
43 less than 650°F, and flash point no less than 600°F. Possible supplier is Packaging
44 Research & Design, 800-833-9364. Liners shall be thermally sealed and securely covered

1 with a tarp to fully contain the waste prior to exit from the construction site. A personnel
2 platform shall be constructed by the Subcontractor for use during sealing of the burrito bags.
3 The platform shall allow for a stable, flat working surface constructed of timber, scaffolding,
4 or similar. Scaffolding systems shall be in accordance with the requirements of PRD-2004,
5 "Scaffolding" as identified in the Subcontractor Requirements Manual. The use of
6 stepladders is not acceptable.

7
8 CLEARING SURFACE VEGETATION:
9

10 This work shall consist of mowing and disposing of all weeds, grass, brush, shrubs, and logs
11 from all the excavation boundaries shown on the drawings for areas ARA-01, ARA-12, and
12 ARA-23, in accordance with these specifications. Mowed vegetation shall be removed and
13 disposed of with the contaminated soil excavation. Mowing shall remove vegetation to as
14 close to the ground surface as practicable. The limits of clearing shall be the excavation
15 boundaries shown on the design drawings and as staked by the Subcontractor.

16
17 Trees shown on the design drawings shall be protected during excavation. Trees or shrubs to
18 be retained, which have been cut or scarred, shall be painted with an asphaltum base paint
19 prepared especially for tree surgery.

20
21 Any areas outside the designated excavation areas which are damaged or disturbed by the
22 Subcontractor's operations shall be revegetated by the Subcontractor at no cost to the
23 Contractor. Revegetation shall be in accordance with Section 02486 of these specifications.

24
25 EXCAVATION:
26

27 Description: This work shall consist of authorized excavation of contaminated soils and
28 hauling of these contaminated soils to an onsite disposal facility as indicated in the Special
29 Conditions.

30
31 Pre-Operational Test: Prior to initiating soil removal activities, the Subcontractor will
32 prepare and transport a load of clean soil obtained from the CFA gravel pit. The transport
33 vehicle must have a sealed lining system and covering in place of the type that will be used
34 during the removal action to protect the vehicle and the environment from being
35 contaminated by the excavated soils. The test load will be transported from the CFA gravel
36 pit to the ARA area at a maximum speed of 55 miles per hour (or lesser speed if proposed by
37 the Subcontractor as a maximum hauling speed). In order to demonstrate unloading
38 procedures, the load will then be returned to the CFA gravel pit and unloaded as if it were
39 contaminated soil. During the test run, the Contractor, RCT, and Environmental Safety and
40 Health (ES&H) representative will visually evaluate the operation to determine if any soil is
41 released. If it is determined that the covering does not adequately contain the soil during
42 transport, modifications shall be made and the test repeated.

43
44 General Soil Excavation Requirements: In all excavation locations shown on the drawings,
45 the Subcontractor shall contain excavation operations within the designated limits. If

1 conditions encountered warrant modification to the designated limits, the Contractor shall be
2 notified prior to work proceeding.

3
4 The subcontractor shall mark or otherwise indicate the location of items to be protected as
5 stated in this specification, and protect these existing structures during construction activities.

6
7 Excavations that expose basalt outcroppings are likely and in such cases, the Subcontractor
8 will notify the Contractor. Manual cleaning such as brooming or vacuuming the basalt
9 outcropping may be required. Additional requirements are identified in the Special
10 Conditions.

11
12 Items to be Protected: Trees shown on the design drawings shall be protected during
13 excavation. If the contaminated soil surrounding a tree cannot be removed, the Subcontractor
14 may remove the tree with permission of the Contractor's Representative.

15
16 The Subcontractor shall protect all bore hole markers, institutional control signs, power
17 poles, monitoring wells, and survey control points shown on the design drawings.
18 Abandoned piping outside excavation boundary or below excavation depth shall also remain.

19
20 The Subcontractor shall protect the permanent monuments, chain link fence, and the
21 engineered barrier of the SL-1 burial grounds. If mechanical excavation is not feasible in this
22 area, manual excavation methods shall be used.

23
24 Unauthorized Excavation: Unauthorized excavation consists of removal of materials beyond
25 indicated elevations or dimensions without specific direction by the Contractor.
26 Unauthorized excavation shall be at the Subcontractor's expense.

27
28 Stockpiling and Disposal: No overnight stockpiling of contaminated soil shall be allowed
29 without prior Contractor approval. Stockpiles, if approved, shall be securely covered with 8-
30 mil Visqueen, or similar approved material, to prevent erosion.

31
32 Shoring and Bracing: The sides of all excavations shall be sloped or securely shored and
33 braced in accordance with OSHA 29 CFR 1926, Subpart P.

34
35 Control of Water: The Subcontractor shall furnish, install and operate the equipment
36 required to keep surface water contained inside the contaminated soil boundary shown on the
37 drawings by constructing temporary ditches, berms or other appropriate means of control.
38 Water shall be allowed to infiltrate into the soil or used for dust suppression.

39
40 Existing Utilities: There are existing utilities within the limits of the construction area. The
41 utilities shall be identified by the Contractor and protected by the subcontractor. The
42 Subcontractor shall immediately notify the Contractor should any utilities be discovered
43 during construction activities that are not shown on the design drawings. Any utility such as
44 risers, manholes, shut off valves, etc., uncovered that interferes with excavation activities,
45 shall be removed to a depth sufficient to be below the finished grade. The object shall be

1 surveyed by the Contractor's Representative, then disposed at the direction of the
2 Contractor's Representative.

3
4 **First Cut Excavation:** First cut excavation shall be defined as the initial excavation of a
5 designated area (ARA-01, ARA-12, and ARA-23). Included in this activity is surveying of
6 excavation boundaries, mobilization, excavation of soil, loading, transport to the disposal
7 facility, incidental dust control, control of storm water, and demobilization. Excavation areas
8 are shown in the drawings.

9
10 **Selective Excavation:** Selective excavation shall be defined as any excavation from any area
11 that has been previously excavated under this contract. This activity includes, but is not
12 necessarily limited to mobilization, surveying and marking excavation boundaries,
13 excavation of soil, loading, transport to the disposal facility, incidental dust control, control
14 of storm water and demobilization. Excavations may include mechanical and manual
15 methods. Estimated quantities are shown in the subcontract documents.

16
17 **Site Locations:**

18
19 *ARA-01: ARA-I Chemical Evaporation Pond:*

20 This area is shown on drawing C-7. The contamination found in this area is Arsenic,
21 Selenium, Thallium. The site contains a large basalt outcropping that covers approximately
22 15% of the excavation area.

23
24 The "first cut excavation" shall be 3 inches in depth or to basalt outcropping, whichever is
25 the lesser depth. Upon completion of the "first cut excavation", analytical sampling shall be
26 performed by the Contractor. The Subcontractor may mobilize to another excavation area
27 during the time for sampling and analysis. If the analytical sampling results indicate that the
28 remedial action goals have not been met, the Contractor will identify the boundaries of any
29 remaining contamination. Identification of boundaries shall take approximately 2 working
30 days. At the direction of the Contractor, the Subcontractor will re-enter the area and perform
31 "selective excavation" at 3 inch intervals or as directed by the Contractor until the
32 Contractor's Representative has determined the contamination is below remedial action
33 goals.

34
35 *ARA-12: ARA-III Radioactive Waste Leach Pond:*

36 This area is shown on drawing C-8. The contamination found in this area is Silver-108m,
37 Copper, Mercury, and Selenium. The site contains many large rocks (2 to 3 feet in diameter)
38 that will be removed and disposed with the contaminated soil.

39
40 The "first cut excavation" shall be 3 inches in depth or to basalt outcropping, whichever is
41 the lesser depth. Upon completion of the "first cut excavation", analytical sampling shall be
42 performed by the Contractor. The Subcontractor may mobilize to another excavation area
43 during the time for sampling and analysis. If the analytical sampling results that indicate the
44 remedial action goals have not been met, the Contractor will identify the boundaries of any
45 remaining contamination. Screening and identification of boundaries shall take

1 approximately 2 working days. At the direction of the Contractor, the Subcontractor will re-
2 enter the area and perform "selective excavation" at 3 inch intervals or as directed by the
3 Contractor until the Contractor's Representative has determined the contamination is below
4 remedial action goals.

5
6 *ARA-23: Hot Spot Inside the SL-1 Burial Ground:*

7 This area is shown on drawing C-3. The contamination found in this area is Cesium-137.
8 The source of radiological contamination may be from the surface soils or from highly
9 contaminated material below the surface.

10
11 The "first cut excavation" shall be 6 inches in depth. Upon completion of the "first cut
12 excavation", a Contractor's Representative shall perform field screening to determine the
13 remaining contaminated area. Screening shall take approximately 2 days. Pending the results
14 of the radiological screening and at the direction of the Contractor, the Subcontractor shall
15 backfill the excavation with clean soil or perform "selective excavation" at 3 inch intervals or
16 as directed by the Contractor until the Contractor's Representative has determined the
17 contamination is below remedial action goals. The Subcontractor shall perform all work
18 inside the SL-I Burial Ground fence line with small rubber-tired equipment or manual
19 excavation.

20
21 *ARA-23: Haul Road Leading to SL-1 Burial Ground:*

22 This area is shown on drawing C-4. The contamination found in this area is Cesium-137.
23 This contamination likely is a result of material falling off of objects as they were dragged to
24 the SL-1 Burial Ground.

25
26 The "first cut excavation" shall be 6 inches in depth. Upon completion of the "first cut
27 excavation", a Contractor's Representative shall perform field screening to determine the
28 remaining contamination. If the results of the radiological screening indicate remedial action
29 goals have not been met, the Contractor will identify the boundaries of any remaining
30 contamination. Screening and identification of boundaries shall take approximately 2
31 working days. The Subcontractor shall perform "selective excavation" at 3 inch intervals or
32 as directed by the Contractor until the Contractor's Representative has determined the
33 contamination is below remedial action goals.

34
35 *ARA-23: ARA-I Facility:*

36 This area is shown on drawing C-5. The potential contamination found in this area is
37 Cesium-137, however, could not be identified due to highly contaminated material being
38 stored in the area. Upon moving the stored material (by the Contractor), the Contractor will
39 screen the ARA-I area and identify the areas for Subcontractor excavation. There is asphalt
40 covering approximately 10% of the area.

41 Once identified, the "first cut excavation" shall be 3 inches in depth within the limits of the
42 ARA-I area. Upon completion of the "first cut excavation", a Contractor's Representative
43 shall perform field screening on the excavated area. Pending the results of the screening, the
44 soil may be deemed clean and no further excavation is required or deemed contaminated and
45 the Subcontractor shall perform "selective excavation" at 3 inch intervals or as directed by

1 the Contractor until the Contractor's Representative has determined the contamination is
2 below remedial action goals. The screening shall take approximately 2 working days. For
3 estimating purposes, the Subcontractor shall use the estimated quantities as identified on the
4 design drawings for ARA-I excavation.

5
6 *ARA-23: ARA-II Facility:*

7 This area is shown on drawing C-5. The contamination found in this area is Cesium-137.
8 There is asphalt covering approximately 50% of the area (assumed to be 4" to 6" thick). The
9 contamination under the asphalt may be high. The existing reactor foundation is below the
10 excavation depth and shall remain in its original location.

11
12 The "first cut excavation" shall be 6 inches in depth. Upon completion of the "first cut
13 excavation", a Contractor's Representative shall perform field screening to determine the
14 remaining contaminated area. Pending the results of the radiological screening, the
15 Contractor will re-survey the area to identify the boundaries of any remaining contamination.
16 Screening and identification of boundaries shall take approximately 2 working days. The
17 Subcontractor shall perform "selective excavation" at 3 inch intervals or as directed by the
18 Contractor until the Contractor's Representative has determined the contamination is below
19 remedial action goals.

20
21 *ARA-23: Soil Areas A and C:*

22 These areas are shown on drawings C-4 and C-6. The contamination found in this area is
23 Cesium-137. These areas have been excavated approximately 3 inches during a 1999
24 treatability study and the contaminated soil was stockpiled.

25
26 In both areas, the Subcontractor shall completely remove the contaminated soil stockpiles. In
27 Area C, the Subcontractor will remove 3 inches and 6 inches over the haul road area. In Area
28 A, the "first cut excavation" shall be 3 inches in depth. Upon completion of the "first cut
29 excavation", a Contractor's Representative shall perform field screening to determine the
30 remaining contaminated area. Pending the results of the radiological screening, the
31 Contractor will re-survey the area to identify the boundaries of any remaining contamination.
32 Screening and surveying shall take approximately 2 working days. The Subcontractor shall
33 perform further excavation at 3 inch intervals or as directed by the Contractor until the
34 Contractor's Representative has determined the contamination is below remedial action
35 goals.

36
37 *ARA-23: All Other Areas:*

38 This area is shown on drawings C-2 through C-6. The contamination found in this area is
39 Cesium-137. This contamination likely is in the top 3 inches. Due to the large size of the
40 contaminated area, the Subcontractor shall limit excavation activities to plots no larger than
41 10 acres.

42
43 The site contains many large rocks (1 to 2 feet in diameter) covering an area of 45,629 square
44 feet and an average depth of 2 feet (approximately 3380 cubic yards). The rocks shall be
45 removed and disposed of with the contaminated soil.

1 The “first cut excavation” of a plot shall be 3 inches in depth. Upon completion of the “first
2 cut excavation”, a Contractor’s Representative shall perform field screening to determine the
3 remaining contamination. The Contractor will re-survey the area to identify the boundaries
4 of any remaining contamination. Screening and surveying shall take approximately 2
5 working days.

6
7 During the field screening and re-surveying, the Subcontractor shall move to an adjacent plot
8 and perform the “first cut excavation” of 3 inches.

9
10 If required, the Subcontractor shall return to any plot and perform “selective excavation” at 3
11 inch intervals or as directed by the Contractor until the Contractor’s Representative has
12 determined the contamination is below remedial action goals.

13
14 This sequence shall continue until all soil within the limits of excavation have been cleared
15 by the Contractor’s Representative and dust control measures have been implemented.

16
17 OBLITERATION OF ASPHALT:

18
19 The Subcontractor shall obliterate all asphalt in the excavation boundaries. The material
20 shall be delivered to the disposal facility with the excavated soils.

21
22 BACKFILLING AND GRADING:

23
24 General: Backfill requirements are anticipated to vary by site. The excavations shall be
25 cleared of all trash and debris prior to backfilling or grading. Excavations that constitute a
26 physical hazard as determined by the Contractor shall be backfilled. All backfill or fill
27 material shall be free from trash, organic matter and frozen particles. Backfilling is required
28 when the excavation depth is greater than 1 ft. from the original grade. Backfilling shall be
29 done only when approved by the Contractor. Backfill material shall consist of pit run gravel
30 and the top six inches of material being topsoil. In excavations that are shored, shoring and
31 formwork shall be removed or raised as backfill or fill is placed. Areas where only the top 3
32 to 12 inches of soil are removed may not require backfill if the surface drainage can be
33 maintained as to not allow ponding and there is sufficient topsoil to support revegetation.
34 Disturbed areas identified as not supporting revegetation shall be backfilled with six inches
35 of topsoil. Upon completion of excavation work at a designated area, the sides of all
36 excavations not being backfilled shall be graded to a smooth contour (4:1 maximum slope).
37 In all excavations, modifications to the site may be made by grading or other means to
38 provide drainage of surface water from the site.

39
40 Placement: Concentrated dumping of backfill material into excavations will not be
41 permitted. All material must be placed in uniform layers not to exceed 8-in. loose
42 measurement and brought up simultaneously. No water shall be used for placing, settling or
43 compacting backfill or fill except to obtain optimum moisture content.

44

1 Compaction: Unless otherwise indicated on the drawings or specifications, compact all
2 backfill using 3 to 4 passes by mechanical devices such as rollers, vibratory compactors or
3 mechanical tampers. Each 8-in., maximum, loose measurement lift shall be compacted
4 before the next lift is placed thereon. Sections of backfill or fill failing to meet the minimum
5 compaction requirements shall be corrected prior to placement of subsequent lifts.

6
7 BORROW:

8
9 Borrow material shall be used as backfill as required. The location of select pit run gravel
10 and topsoil is indicated in the Special Conditions.

11
12 DECONTAMINATION:

13
14 Decontamination of all Subcontractor equipment or tools shall be the responsibility of the
15 Subcontractor. If after the Subcontractor has made every attempt to decontaminate an item,
16 the Subcontractor and the Contractor's Representative determine that the Subcontractor was
17 unsuccessful, the Contractor may elect to attempt decontamination. The Contractor
18 decontamination shall be completed within 60 working days. If decontamination proves
19 impracticable or impossible, General Provisions Article GP-24 will then be invoked.

20
21 The decontamination activities will be performed within the contamination areas. RCT
22 support will be provided by the Contractor when establishing these areas. All tools and
23 equipment will be decontaminated with dry methods using brooms, wire brushes and putty
24 knives. If equipment has residual contamination after the initial dry decontamination efforts,
25 it will be cleaned with low volume, high pressure water from a portable spray unit. The tools
26 and equipment to be cleaned will be isolated in the decontamination pad. Any dry material
27 and water used for decontamination efforts will be collected and disposed of at an approved
28 facility. All water used for decontamination must be contained within the decontamination
29 pad until it can be transported to the disposal facility for disposal. Upon completion of the
30 removal action, the decontamination pad must be size reduced, transported, and disposed of
31 at an approved facility.

32
33 SOIL REMOVAL FROM BASALT OUTCROPPINGS:

34
35 Contaminated soil may be in contact with basalt outcroppings. Exposed outcroppings shall
36 be screened by the Contractor's Representative. If the screening results indicate the remedial
37 action goal has not been met, the Subcontractor shall take every effort to remove
38 contaminated soil from the rock outcroppings including brooming and/or vacuuming. Details
39 of the proposed method shall be addressed in the Construction Work Plan vendor data
40 submittal.

41
42 METHOD OF MEASUREMENT:

43
44 Dust Control: Dust control will not be measured for separate payment.
45

Project Title: **Waste Area Group 5 Remedial Design/Remedial Action - Phase II**
Document Type: **Construction Specifications** Project Number: 020911
SPC: 317

1 Clearing Vegetation: Clearing vegetation will not be measured for separate payment.

2

3 Pre-operational Test: Pre-operational testing will have no measurement.

4

5 Utility Removal: Utility removal will not be measured for separate payment.

6

7 First Cut Excavation: First Cut Excavation will not be measured for separate payment.

8

9 Selective Excavation: Selective excavation will be measured by the cubic yard in its original
10 position from field survey, photogrammetric cross sections using the average end area
11 method with no correction for curvature or soil expansion, or other methods as agreed upon
12 between the Contractor and the Subcontractor.

13

14 Obliteration of Asphalt: Obliteration of asphalt will be measured by the square yard in its
15 original position.

16

17 Backfill: Backfill material will not be measured for separate payment.

18

19 Borrow: Borrow material will be measured by the cubic yard in its original position.

20

21 Soil Removal from Basalt Outcroppings: Soil removal from basalt outcroppings will not be
22 measured for separate payment.

23

24 BASIS OF PAYMENT

25

26 Dust Control: No separate payment will be made for dust control. It shall be considered
27 incidental to other items of work.

28

29 Clearing Vegetation: No separate payment will be made for clearing vegetation. It shall be
30 included in the lump sum bid priced for "first cut excavation".

31

32 Pre-operational Test: No separate payment will be made for pre-operational testing. It shall
33 be included in the lump sum bid price.

34

35 Utility Removal: No separate payment will be made for utility removal. It shall be
36 considered incidental to other items of work.

37

38 First Cut Excavation: Payment will be made at the contract lump sum price. The payment
39 shall be full compensation for all work associated therewith, including but not limited to,
40 surveying of excavation boundaries, mobilization, excavation of soil, loading, minor
41 decontamination required to clear the dump trucks out of the excavation boundaries, transport
42 to the disposal facility, backfill, incidental dust control, control of storm water, and
43 demobilization.

44

Project Title: **Waste Area Group 5 Remedial Design/Remedial Action - Phase II**
Document Type: **Construction Specifications** Project Number: 020911
SPC: 317

1 Selective Excavation: Payment shall be made at the contract unit price per cubic yard of
2 material removed. The payment shall include, but not be limited to, mobilization, excavation
3 of soil, loading, minor decontamination required to clean the dump trucks out of the
4 excavation boundaries, transport to the disposal facility, backfill, incidental dust control,
5 control of storm water, and demobilization.

6
7 Obliteration of Asphalt: The accepted quantities of obliteration of asphalt will be paid for at
8 the contract unit price per square yard of asphalt removed.

9
10 Borrow: Borrow will be paid for at the contract unit price per cubic yard of soil in its original
11 location. The cost shall include loading, hauling, and compacting the material from onsite
12 borrow pits to various excavation areas.

13
14 Soil Removal from Basalt Outcroppings: No separate payment will be made for soil
15 removal. It shall be considered incidental to "selective excavation".

16
17 FIELD QUALITY CONTROL:

18
19 Topographic surveys will be conducted by the Contractor prior to the start and upon
20 completion of the excavation work to verify quantities. The Subcontractor shall provide
21 confirmatory final survey.

22
23 The Subcontractor shall be responsible to in-process inspection during execution of all work.
24 Surveillance will be performed by the Contractors Representative to verify compliance of the
25 work to the drawings and specifications.

26
27 END OF SECTION 02200

1 SECTION 02486--REVEGETATION

3 PART 1--GENERAL

5 SUMMARY:

7 Section Includes, but is not limited to preparing seedbeds, sowing grasses, applying fertilizer,
 8 and applying a GFE wood chip mulch to revegetate disturbed sites.

10 Related Work: Section 02200 - Earthwork

12 SUBMITTALS:

14 Seed mix certification: The Subcontractor shall submit seed mix certification for approval by
 15 the Contractor 8 days prior to revegetation.

17 Soil Analysis: The Subcontractor shall submit results of the soil and fertilizer analysis for
 18 approval by the Contractor 8 days prior to revegetation.

20 PART 2--PRODUCTS

22 MATERIALS:

24 Topsoil: Clean topsoil free from any toxic minerals, noxious weeds or other objectionable
 25 material.

27 Seed Mix: The grass species shall be applied at the rate specified below.

29 The following grass mix shall be used for roadsides and all other disturbed areas:

Grass Mix		RATE OF APPLICATION (POUNDS PER ACRE PURE LIVE SEED)
SPECIES		
Indian Rice Grass "Rimrock" <i>(Achnatherum hymenoides)</i>		2
Thickspike wheatgrass "Bannock" <i>(Elymus lancolatus ssp. lanceolatus)</i>		2
Streambank wheatgrass "Sodar" <i>(Elymus lancolatus ssp. psammophilus)</i>		2
Bluebunch wheatgrass "Goldar" <i>(Pseudoroegneria spicata ssp. spicata)</i>		2

Munro globemallow (<i>Sphaeralcea munroana</i>)	1
Northern Sweetvetch (<i>Hedysarum boreale</i>)	1
Wyoming Big Sagebrush (<i>Artemisia tridentata ssp. wyomingensis</i>)	.5
Green Rabbitbrush (<i>Chrysothamnus viscidiflorus</i>)	.5

Total	11
-------	----

1 Seed Mix Sources:

2
 3 Approved dealers for the seed mixes are:

- 4
 5 Granite Seeds (801) 768-4422
 6 Grimm Growers (208) 785-0830
 7 Wind River Seed (307) 568-3361
 8 Maple Leaf (800) 287-3162.
 9

10 Fertilizer: The Subcontractor shall perform a soil analysis of the soils at the ARA area
 11 disturbed by the construction and also of the identified borrow source for topsoil to determine
 12 the appropriate fertilizer mix and application rates for successful growth of the specified seed
 13 mix. The Subcontractor shall identify to the soil analysis laboratory that revegetation will be
 14 with native grasses. All costs associated with the soil analysis and fertilizer requirements
 15 shall be included in the subcontract price.
 16

17 Mulch: Mulch shall be processed wood chips supplied by the Contractor at no cost to the
 18 Subcontractor.
 19

20 EQUIPMENT:

21
 22 Seedbed Preparation: Disks, harrows, roller harrow-packers (culti-packers), tooth type
 23 harrows, shovels, or other similar equipment as required to prepare the seedbed.
 24

25 Seeding and Fertilizing: Brillion seeder, or similar approved equipment.
 26

27 PART 3--EXECUTION

28
 29 Season of Work: Seeding shall be done between October 1 and November 30. Areas to be
 30 seeded shall be maintained reasonably free of weeds. Weeds shall be kept from going to
 31 seed.
 32

33 Seedbed Preparation: Soil shall be tilled a minimum depth of 3 inches. The seedbed shall be
 34 firm below seeding depth and well pulverized and loose on top. It shall be free of clods and

1 weeds. Seedbed preparation shall not be performed when soil conditions are not suitable for
2 tilling; too dry, too wet, frozen, etc. Tillage shall produce cross-slope furrows on slopes.
3 Note: seedbed preparation is not required in areas backfilled with topsoil from Rye Grass
4 Flats.

5
6 On areas subject to severe erosion, the extent of seedbed preparation shall not exceed that
7 which can be seeded in one day.

8
9 Fertilizing: Fertilizing shall closely follow seedbed preparation. Fertilizer shall not be mixed
10 with seed. Fertilizer may be drilled or broadcast. Fertilizer shall be uniformly applied at a
11 rate determined by the soil analysis.

12
13 Seeding: Seeding shall closely follow fertilizing. If the seedbed has been disturbed, then the
14 Subcontractor shall prepare the seedbed again. Seeding work shall not proceed until the
15 seedbed has been inspected. Seeds shall be thoroughly mixed prior to application. Seeds
16 shall be uniformly applied at the previously specified rate. Seeds shall be buried 0.25 to
17 0.75 inches. Seeding shall not be performed when weather conditions are unfavorable: high
18 wind, heavy rain, etc.

19
20 Drilling shall maintain cross-slope furrows on slopes.

21
22 Mulching: GFE wood chip mulch shall be spread uniformly at a rate of 15 to 17 tons per
23 acre. Mulching shall not be performed when wind interferes with mulch placement.

24
25 Protection: Traffic over the seeded area shall be prohibited by the subcontractor during all
26 work activities performed under this contract.

27
28 METHOD OF MEASUREMENT

29
30 Revegetation: Revegetation will be measured by the acre using field survey.

31
32 BASIS OF PAYMENT

33
34 Revegetation: The accepted quantities of revegetation will be paid for at the contract unit price
35 per acre of revegetated area. This price shall include seedbed preparation, seeding, mulching
36 and anchoring, and fertilizing.

37
38 FIELD QUALITY CONTROL:

39
40 Surveillance will be performed by the Contractor's Representative to verify compliance of the
41 work to the drawings and specifications.

42
43 END OF SECTION 02486

SUBCONTRACT NO. S-_(TBD)

SCHEDULE "X"

The Government will furnish to the Subcontractor at no cost the equipment or material listed below. The equipment or material may be obtained by the Subcontractor at the time he is ready to make the installation in accordance with the provisions of the contract.

The items will be available only during normal working hours and a twenty-four (24) hour minimum advance notice (Saturdays, Sundays, and holidays excluded) to the Subcontracting Officer will be required.

Transportation costs shall be the responsibility of the Subcontractor.

Item No.	Description	Location	Reference	Approximate Cost	Date Available
1.	Wood Chip Mulch	CFA	Specification 02486	No Cost	Award of Contract