

UMTRA PROJECT - LAKEVIEW, OREGON
UNCONTAMINATED WOOD CHIPS SUBCONTRACT
SUBCONTRACT DOCUMENTS LKV-3
FINAL DESIGN FOR REVIEW

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UMTRA PROJECT
UNCONTAMINATED WOOD CHIPS SUBCONTRACT
SUBCONTRACT DOCUMENTS LKV-3
LAKEVIEW, OREGON
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UMTRA PROJECT
UNCONTAMINATED WOOD CHIPS SUBCONTRACT
SUBCONTRACT DOCUMENTS LKV-3
LAKEVIEW, OREGON
BID SCHEDULE

Item No.	Spec. Section	Description	Unit	Approx. Quantity	Unit Price	Amount
<u>100 - SITE PREPARATION</u>						
107	01000	Excavation of Uncon- taminated Wood Chips from Evaporation Pond No. 1 and Placement in Storage Pile	C.Y.	76,400	_____	_____
TOTAL (SUBCONTRACT PRICE)					\$	_____

END OF BID SCHEDULE

Document No. 4005-LKV-S-01-00632-00
Issued for Review-Revision A
Bid Schedule

LKV-3

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UMTRA PROJECT
UNCONTAMINATED WOOD CHIPS SUBCONTRACT
SUBCONTRACT DOCUMENTS LKV-3
LAKEVIEW, OREGON
SPECIAL CONDITIONS

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SC-1 DEFINITIONS

A. Wherever used in the Subcontract Documents the following terms have the meanings indicated which are applicable to both the singular and plural thereof:

1. Access Control Area - Access control area shall include the areas occupied by and in the immediate vicinity of administration facilities including, but not limited to, Contractor's and Subcontractor's office trailers, access control trailer, sanitary facilities, decontamination pad and its contaminated water collection sump, equipment and materials lay-down and storage area, employee and service vehicle parking area, roadway connecting vehicular gate to decontamination pad.
2. Addenda - Written and/or graphic instruments issued prior to opening of Bids which clarify, correct or change the bidding documents.
3. Bid - The offer or proposal of the bidder submitted on the prescribed form setting forth the prices for the Work to be performed.
4. Bonds - Bid, performance and payment bonds.
5. Change Order - A document signed by Subcontractor and Contractor authorizing an addition, deletion or revision in the Work, or an adjustment in the Subcontract Price or the Subcontract Time, modified in writing and issued on or after the Effective Date of the Agreement.
- 5a. Subcontract Modification - A document issued to incorporate all Change Orders or to modify Subcontract when a substantive change is necessary.
6. Contaminated Materials - Tailings and other materials having radioactive contamination levels greater than specified in the applicable US Environmental Protection Agency Standards. These standards are presented in the Federal Register, January 5, 1983, Section 192.12: "Standards for Remedial Actions at Inactive Uranium Processing Sites".
7. Controlled Area - See Section SC-8, Paragraph A.7 of the Special Conditions.
8. General Requirements - Division 1 of the Specifications.

9. Lower-Tier Subcontractor/Other Subcontractor - An individual, firm or corporation having a direct contract with the Subcontractor or an individual, firm or corporation having a direct contract with the Contractor for other work on the Project.
10. Notice of Award - The written notice by Contractor to the apparent successful bidder stating that upon compliance by the apparent successful bidder with the conditions precedent enumerated therein, within the time specified, Contractor will sign and deliver the Agreement.
11. Notice to Proceed - A written notice given by Contractor to Subcontractor fixing the date on which the Subcontract Time will commence to run and on which Subcontractor shall start to perform Subcontractor's obligations under the Subcontract Documents.
12. Project - The total construction of which the Work to be provided under the Subcontract Documents may be the whole, or a part as indicated elsewhere in the Subcontract Documents.
13. Shop Drawings - All drawings, diagrams, illustrations, schedules and other data which are specifically prepared by or for Subcontractor to illustrate some portion of the Work and all illustrations, brochures, standard schedules, performance charts, instructions, diagrams and other information prepared by a Supplier and submitted by Subcontractor to illustrate material or equipment for some portion of the Work.
14. Site Manager - The authorized representative of the Contractor who is assigned to the site or any part thereof.
15. Specifications - Those portions of the Subcontract Documents consisting of written technical descriptions of materials, equipment, construction systems, standards and workmanship as applied to the Work and certain administrative details applicable thereto.
16. Subcontract Drawings - The drawings which show the character and scope of the Work to be performed and which are referred to in the Subcontract Documents.
17. Subcontract Price - The moneys payable by Contractor to Subcontractor under the Subcontract Documents as stated in the Agreement.

18. Subcontract Time - The number of days or the date stated in the Agreement for the completion of the Work.

19. Uncontaminated Materials - All materials having radioactive contamination levels less than specified in the applicable US Environmental Protection Agency Standards. These standards are presented in the Federal Register, January 5, 1983, Section 192.12: "Standards for Remedial Actions at Inactive Uranium Processing Sites".

20. Work - The entire completed construction required under the Subcontract Documents. Work is the result of performing services, furnishing labor and furnishing and incorporating materials and equipment into the construction, all as required by the Subcontract Documents.

B. The other terms such as Contractor, Subcontractor, Government, DOE, Subcontract Administrator, Subcontract Documents, M-K and Site of Work are defined in Article GP-2 of the General Provisions.

SC-2 HOLIDAYS

A. The following days will be observed as holidays by M-K Ferguson Company, Inc., the Contractor:

New Year's Day
Martin Luther King Jr.'s Birthday
Presidents' Day
Memorial Day
Independence Day
Labor Day
Veterans Day
Thanksgiving Day
Christmas Day

B. Holidays occurring on Saturday or Sunday will be observed on Friday or Monday.

SC-3 CONSTRUCTION RESTRAINTS

Concurrent Work: M-K Ferguson Company, Inc. (Contractor) and other subcontractors may be engaged in work in the general areas covered by the Work under this Subcontract. Such personnel will have access to the areas and to the

utilities. The Subcontractor shall cooperate to best utilize the available areas, roadways and facilities. Coordination shall be through the Contractor.

SC-4 SITE LOCATION AND COORDINATION OF WORK

- A. The Work under the Subcontract involves operations at the Lakeview Mill Site (also referred to in the Subcontract Documents as Lakeview Processing Site, Lakeview Site, or Processing Site).
- B. The location of the site is specified in Specification Section 01000.
- C. The Subcontractor shall carefully coordinate all construction activities with the Site Manager to avoid conflicts and unnecessary delays in construction.

SC-5 LABOR, MATERIALS, EQUIPMENT AND TEMPORARY FACILITIES

- A. Unless otherwise specified in the General Requirements, Subcontractor shall furnish and assume full responsibility for all materials, equipment, labor, transportation, construction equipment and machinery, tools, appliances, fuel, power, light, heat, telephone, water, sanitary facilities, temporary facilities and all other facilities and incidentals necessary for the furnishing, performance, testing, start-up and completion of the Work.
- B. Pursuant to the provisions of Division 1 - General Requirements, during the construction period, the Subcontractor will be permitted on-site temporary storage of material at a location approved by the Site Manager.

SC-6 CLEANUP AND WASTE DISPOSAL

- A. Cleanup: The Subcontractor will be required to clean up the construction work areas and dispose of waste material. Cleanup of the construction work areas will be required on a daily basis. At the close of each day's work all small quantities of waste and debris resulting from construction activities shall be gathered up and disposed of as designated in paragraph B below. Waste and debris shall not be allowed to accumulate in such quantities as to create an unsightly appearance, a safety or fire hazard, nor shall it interfere in any way with free access to, and operation of existing facilities. All construction areas shall be thoroughly cleaned to the

satisfaction of the Contractor prior to final acceptance of the completed Subcontract.

- B. Waste Disposal: The Subcontractor shall provide suitable receptacles for all construction office waste material such as wrapping paper, discarded containers, scrap lumber, scrap metals, etc. Such waste shall be disposed of offsite as Subcontractor's property in a safe, acceptable manner, in accordance with the applicable laws and ordinances and as prescribed by authorities having jurisdiction. No waste material and debris shall be buried on the site. The Subcontractor shall be responsible for the location of dump for trash and debris, length of haul, and disposal costs.

SC-7 CONSTRUCTION HEALTH AND SAFETY

- A. Successful Bidder shall comply with the Construction Safety & Health Management Program (Document No. MK-UMTRA-4). This document is available upon request from the Contractor's office in Albuquerque, New Mexico for bidding purposes and will be issued to the successful Bidder after award.
- B. Electrical Precautions:
1. Personnel Ground Fault Protection: All electrical conductors used in construction, operating on single phase, 120 vac, 15 or 20 amperes circuits, shall be equipped with UL listed Ground Fault Circuit Interrupters set at five (5) milliamperes plus (+) or minus (-) one (1) milliamperere. All portable electric tools and their usage shall be in compliance with applicable OSHA (29 CFR 1926) standards.
 2. Electrical Clearance Requirement: All electrical circuit connections shall be made on de-energized systems. Working clearance for energized systems shall be 3 feet for 0 to 150 volts and 4 feet for 151 to 600 volts. The work shall be performed by a qualified journeyman electrician or by an apprentice electrician under the direct supervision of a qualified journeyman electrician.
- C. Smoking, Drinking, Eating and Chewing Restrictions: No smoking will be permitted in the immediate vicinity of any flammable liquids, gases or highly combustible material, or in any area posted as a non-smoking area. No smoking, drinking, eating or chewing will be permitted in any controlled area.

- D. Ladders, Scaffolds, and Man Lifts: All man-lift equipment, ladders, and scaffolding shall be in compliance with applicable OSHA (29 CFR 1926) standards and be subject to inspection by the Contractor prior to and during its use.
- E. Notification of Occurrences: Subcontractors shall advise the Contractor immediately upon occurrence of any non-routine events, occurrences, incidents, or accidents, etc., particularly in situations such as lost time accidents and ambulance calls.
- F. Responsibility:
1. Subcontractor Safety Responsibility:
 - a. Each Subcontractor shall designate a qualified person to implement the Construction Safety and Health Management Program at the work site. The designated person shall have authority for actions and for control of work activity to prevent accidents.
 - b. Daily work area safety and health inspections are required and appropriate action shall be taken to correct noncompliance conditions.
 2. Contractor Safety Responsibility:
 - a. Contractor Safety Department personnel or designated representatives will make regular continuing inspections of all facilities and operations within the scope of the Subcontract. These inspections will include the facilities and operations of all Subcontractors, but do not in any way relieve Subcontractors of their responsibility for compliance with the provisions of the Construction Safety and Health Management Program.
 - b. Daily work area safety and health inspections will be made by Contractor personnel.
- G. Hazardous Materials Identification: If any of the materials are identified by the Site Manager to be hazardous, the Subcontractor will be notified immediately of the applicable standards to be complied with for personnel safety and health protection.
- H. Back Up Alarms: It is mandatory for all heavy equipment to have functioning audible back up alarms while in use on an UMTRA project.

SC-8 HEALTH PHYSICS

The Subcontract work area is a radiologically controlled area. All work shall be governed by the essential requirements given in the following paragraphs:

A. Work Conditions:

1. Radiation/Contamination Areas: Radiation/contamination controlled areas shall be established on a case-by-case basis at the discretion of the Site Manager. Protective clothing for contamination control is provided to the Subcontractor at no charge on a loan basis. Clothing will be issued by Contractor personnel when required at the access control gate.
2. Radiation Dressing Requirements:
 - a. All controlled area protective clothing, when required, shall be put on and removed at the controlled area boundary. The Subcontractor shall ensure that removed items are properly stored and areas are maintained in proper order.
 - b. When required, protective clothing for contamination control could consist of coveralls, gloves, and rubber boots, shoe covers or any combination of the above. Personnel will be required to change out of the protective clothing upon leaving the controlled area.
3. Personnel Monitoring: All personnel will be required to self-monitor for radioactive contamination upon leaving the controlled area. Personnel will be instructed in self-monitoring procedures in accordance with paragraph 5 below defining Training Requirements
4. Vehicles Monitoring: Vehicles, tools, equipment, and personnel working inside the controlled area will be monitored for radioactive contamination before leaving the area.
5. Training Requirements: In order to work in the controlled area, personnel shall be trained as Radiation Workers. The training course is approximately four hours long and is available to Subcontractor personnel at no cost for the instruction. Training in the proper use of respirators for performing specific tasks may be required for respirator training and

employee requirement, see Special Conditions, SC-7.B.2 and SC-7.B.4. A test will be given to all personnel at the conclusion of training to establish qualifications as a Radiation Worker. Personnel must pass this test to work within the radiation control area.

6. Radiation Exposure Limits and Restrictions:

- a. Radiation exposure on this Project is expected to be well within allowable radiation exposures. Whole body radiation exposure in rem shall be determined by Personal Thermoluminescent Dosimeters (TLD) issued to each radiation worker.
- b. Prior to working at the construction site each employee shall provide prior radiation exposure records as applicable.
- c. While working at the construction site each employee is required to wear TLD badges issued and collected daily.

7. Some areas on the construction site may have localized Health Physics restrictions. These are controlled by ribbons, signs, and tags. Such area restrictions shall be observed by the Subcontractor and applicable precautions taken.

B. Special Examinations:

1. All employees working in radiation control areas shall be required to submit a bioassay sample prior to starting work in the radiation control areas. All employees working in radiation control areas shall also be required to submit a bioassay sample upon termination or completion of the Subcontract. It is the Subcontractor's responsibility to ensure that each employee submits bioassay samples as required by the Subcontract.
2. The Subcontractor shall notify the Contractor of any personnel terminations or transfer within 8 working hours of termination or transfer. The Subcontractor shall also provide the Contractor with weekly lists of all Subcontractor or subtier employees employed by or for the Subcontractor who have been issued TLD radiation exposure badges. These weekly listings shall include full name, social security number, hire date, and termination/transfer date (if applicable), of all such employees.

- C. Health Physics (HP) Personnel: The Site Manager will monitor the construction work through HP personnel employed by him. The HP personnel will provide radiological surveillance over construction activities and advise supervision on matters concerning radiation safety as related to activities or conditions affecting the construction work.
- D. Warning Signals: The Subcontractor may depend on direct verbal information from the Contractor's personnel for warning signals. The Subcontractor's foreman and employees shall take action as directed. The Subcontractor's representative shall obtain the name, position, and agency of the messenger providing such direction.
- E. Disposition of Contaminated Equipment, Tools and Material:
1. The Subcontractor shall use his own equipment in performing the required work under this Subcontract. All tools, vehicles, equipment and material will be inspected for radioactive contamination by the Site Manager prior to removal from the construction area.
 2. Should the Subcontractor's tools, material, or equipment become contaminated, they will have to be decontaminated before removal from the area. If decontamination becomes necessary, the Site Manager will provide instructions for decontamination by the Subcontractor's employees. Decontamination may consist of steam cleaning, dry brushing, or washing with appropriate liquids. Decontamination required beyond these described will be handled under Article 4, "CHANGES" of the General Provisions.
 3. If decontamination proves impracticable or impossible, the tools, material, or equipment in question will be retained and an equitable adjustment for same will be negotiated with the Subcontractor provided that:
 - a. There is no fault or negligence of the Subcontractor contributing to the contamination;
 - b. The Subcontractor has followed all the specific instructions of the authorized HP personnel who have surveillance over the work;
 - c. Item or equipment confiscated from the Subcontractor is documented by a Confiscation Notice furnished to the Subcontract Administrator by the

Contractor and signed by HP personnel and the Site Manager;

- d. The Subcontractor allows reasonable time (a minimum of ten (10) working days, excluding weekends and holidays) in which to attempt decontamination of the item(s) in question. The reimbursement schedule will be as follows:
 - 1) Tools valued less than \$300.00 at 95% of replacement cost.
 - 2) Tools/Equipment \$300.00 and up: If less than one (1) year old or at top of depreciation schedule, at 75% of replacement cost; if at bottom of or off the depreciation schedule, at 50% of replacement cost.
- e. Failure to agree upon equitable adjustment shall constitute a dispute within the meaning of the "Disputes" article of the General Provisions (GP-7).
- f. In view of the foregoing, the Subcontractor is encouraged to plan his work so as to minimize the transfer of equipment into and out of the construction area.

SC-9 SUBMITTALS

See Section 01000

SC-10 QUALITY ASSURANCE

All work shall be performed to the requirements of the Contractor's Quality Assurance Program. This program meets the applicable requirements of 10 CFR 50 Appendix B and ANSI/ASME NQA-1-79. The program will be wholly administered by the Contractor. All Quality Records will be generated by and maintained by Contractor's personnel.

SC-11 ROAD CONSTRUCTION AND TRAFFIC CONTROL INCLUDING HAUL ROAD AND PUBLIC ROAD

- A. The Subcontractor shall post construction areas and road with traffic control signs or devices used for protection of workmen, the public and equipment. The signs or

devices shall conform to the American National Standards Institute D6.1-1978, Manual on Uniform Traffic Control Devices for Streets and Highways.

- B. Signs or traffic control devices shall be removed or covered as soon as they have served their purpose. It is particularly important to remove any markings on road surfaces which under conditions of poor visibility could cause a driver to turn off the road or into traffic moving in the opposite direction.
- C. Barricades for protection of employees shall conform to the portions of the American National Standards Institute D6.1-1978, Manual on Uniform Traffic Control Devices for Streets and Highways, relating to barricades.
- D. The Subcontractor shall be responsible for providing all necessary bonding required by the applicable city, county and state highway requirements.

SC-12 SUBCONTRACTOR LABOR AND EQUIPMENT RATES

- A. Subcontractor shall furnish to the Contractor in writing, within 15 calendar days after Notice of Award, a list of all equipment to be used on the Project. The list shall include as a minimum the following: make, model, type, year of manufacture, equipment no., and H.P. or capacity.
- B. The Subcontractor shall provide, at the same time, a list of all labor rates including fringes, overhead and profit used on the Project and a list of rental rates for the above referenced equipment for the following time periods: hourly, daily, weekly and monthly. Said rates shall be broken down as follows: rental, operating and maintenance, and operator. These rates shall not exceed 60% of the current edition of the Rental Rate Blue Book for Construction Equipment.
- C. The above rates will be used for changes or work which is not included in the original Subcontract.

SC-13 MODIFICATION PROPOSALS PRICE BREAKDOWN

The Subcontractor, in connection with any proposal he makes for a Subcontract modification, shall furnish a price breakdown, itemized as required by the Subcontract Administrator. Unless otherwise directed, the breakdown shall be in sufficient detail to permit an analysis of

all material, labor, equipment, subcontract, and overhead costs, as well as profit, and shall cover all work involved in the modification, whether such work was deleted, added or changed. Any amount claimed for subcontracts shall be supported by a similar price breakdown and/or quotes from the Subcontractors. In addition, if the proposal includes a time extension, a justification therefore shall be furnished. The proposal, together with the price breakdown and time extension justification, shall be furnished by the date specified by the Subcontract Administrator.

SC-14 VARIATIONS IN QUANTITIES

- A. In all cases (except cancellation of one (1) or more line items) where the quantity of a unit priced line item in the Subcontract is an estimated quantity, and where the actual quantity of such line item varies by more than 10% above or 10% below the originally estimated quantity stated in the Subcontract, an adjustment shall be negotiated upon demand of either party for the quantities above or below the stated variation.
- B. The adjustment shall be as specified in Article GP-19 of the General Provisions.

SC-15 LAWS AND REGULATIONS

Subcontractor shall give all notices and comply with all laws, ordinances, rules and regulations applicable to the Work. If Subcontractor observes that the Specifications or Subcontract Drawings are at variance therewith, Subcontractor shall give Contractor prompt written notice thereof, and any necessary changes shall be adjusted by an appropriate Modification. If Subcontractor performs any Work knowing or having reason to know that it is contrary to such laws, ordinances, rules and regulations, and without such notice to Contractor, Subcontractor shall bear all costs arising therefrom; however, it shall not be Subcontractor's primary responsibility to make certain that the Specifications and Subcontract Drawings are in accordance with such laws, ordinances, rules and regulations.

SC-16 CERTIFIED PAYROLLS

In addition to the copies of certified payrolls that are to be submitted each week to the Subcontract Administrator, one copy will also be submitted to the Site Manager.

SC-17 SUBCONTRACTOR'S LIABILITY

The Subcontractor has total liability for all of his own equipment, supplies, tools, etc., brought on the job site or used in the performance of his Subcontract.

SC-18 MEASUREMENT AND PAYMENT

Unless otherwise provided in the Subcontract Documents, no separate measurement or payment will be made for compliance with the provisions of the General Provisions, General Conditions and Special Conditions. Full compensation for such work will be considered to be included in the related items of Bid Schedule or incidental to the Subcontract.

END OF SPECIAL CONDITIONS

SECTION 01000
GENERAL REQUIREMENTS

PART 1 - GENERAL

1.1 SCOPE

A. This Specification Section describes the general requirements for the following:

1. Project Description and Location
2. Scope of Work
3. Measurement of Quantities
4. Layout of Work and Surveys
5. Submittals

1.2 LOCATION

A. General: The Work under the Subcontract shall be performed at the Lakeview processing site.

B. Project Location: The Lakeview processing site is located in south-central Oregon, in Lake County. The closest town is Lakeview, one mile to the southeast. Klamath Falls is approximately 96 miles west of the site. The site is approximately 16 miles north of the California-Oregon border. The total designated site covers an area of 258 acres.

1.3 SCOPE OF WORK

A. General:

1. The Work required to be performed under this Subcontract consists of the removal of the uncontaminated wood chips located in the upper portion of existing Evaporation Pond No. 1 and placement in the woodchips storage pile located north of the existing tailings pile outside of the fenced area. Pond No. 1 is located in the northwest corner of the fenced area. The Work shall conform to the details shown on the Subcontract Drawings.

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2. The Work includes furnishing all plant, labor, tools, equipment, materials, transportation, and services, and performing all operations necessary for and properly incidental to the construction as shown and noted on the Subcontract Drawings and as specified in these Specifications.

B. The above description of the Work is for general information only, and in no way limits the responsibility of the Subcontractor for constructing the Work in strict accordance with the Subcontract Drawings and Specifications listed in the Table of Contents.

1.4 OTHER SUBCONTRACTS

A. Other subcontracts awarded by the Contractor will be in progress during the work of this Subcontract. The Contractor or his authorized representative will be responsible for coordinating all activities between the subcontractors in accordance with the requirements of Section SC-3 of the Special Conditions. Other subcontracts to be awarded by the Contractor are:

- o Main Construction Subcontract, No. LKV-1
- o Fencing Subcontract No. LKV-2
- o Mill Area Windblown Tailings Subcontract, No. LKV-4

1.5 SUBCONTRACT DRAWINGS

A. A list of Subcontract Drawings and Titles is given in the Table of Contents of these Subcontract Documents under "Subcontract Drawings".

B. Where "as shown," "as detailed," "as noted," or words of like meaning are used in the Subcontract Documents, it shall be understood that reference is being made to the Subcontract Drawings unless otherwise specified.

1.6 TIME OF COMPLETION

A. The Subcontractor shall commence Work under this Subcontract on a date to be specified in a written "Notice to Proceed" issued by the Contractor, and shall complete the Work within 75 calendar days.

- B. Termination for default, damages for delay and time extensions are specified in Article GP-6 of General Provisions.

1.7 CODES AND STANDARDS

- A. Pursuant to Section GC-3 of the General Conditions, any material, method, or procedure specified by reference to the number, symbol, or title of a specific specification or standard, such as a Commercial Standard, American National Standard, Federal or State Specification, Industry or Government Code, a trade association code or standard, or other similar standard, shall comply with the requirements in the latest revision thereof and any amendments or supplements thereto in effect on the date of these Subcontract Documents, except as limited to type, class or grade, or modified in such reference.
- B. The code, specification or standard referred to, except as modified in these Specifications, shall have full force and effect as though printed in these Specifications. These Specifications and standards are not furnished to bidders since manufacturers and trades involved are assumed to be familiar with their requirements. The Contractor will furnish, upon request, information as to how copies of the specifications and standards referred to may be obtained.

1.8 MANUFACTURERS' SPECIFICATIONS AND INSTRUCTIONS

- A. Pursuant to Section GC-4 of the General Conditions, and unless otherwise indicated or specified, all manufactured materials, products, processes, equipment, or the like shall be installed or applied in accordance with the manufacturers' instructions, directions, or specifications. Said installation or application shall be in accordance with printed instructions furnished by the manufacturer of the material or equipment concerned for use under conditions similar to those at the jobsite. Two copies of such instructions shall be furnished to the Contractor and his acceptance thereof obtained before work is begun.
- B. Any deviation from the manufacturers' printed recommendations shall be explained and acknowledged as correct for the circumstances, in writing by the particular manufacturer. Subcontractor will be held responsible for all installations contrary to the manufacturers' recommendations. If any item of material or equipment is found to

be installed not in accordance with the manufacturer's recommendations, Subcontractor shall make all changes necessary to achieve such compliance.

1.9 WORK QUALITY

- A. Shop and field work shall be performed by mechanics and workers skilled and experienced in the fabrication and installation of the work involved. All work on this Project shall be performed in accordance with the best practices of the various trades involved and in accordance with the Subcontract Drawings, reviewed shop drawings, and these Specifications.
- B. All Work shall be erected and installed plumb, level, square and true, or true to indicated angle, and in proper alignment and relationship to the work of other trades. All finished work shall be free from defects and damage.
- C. The Contractor reserves the right to reject any materials and work quality which are not considered to be up to the highest standards of the various trades involved. Such inferior material or work quality shall be repaired or replaced, as directed, at no additional cost to the Contractor.

1.10 FIELD MEASUREMENT AND TEMPLATES

Subcontractor shall secure all field measurements required for proper and accurate fabrication and installation of the work included in this Subcontract. Exact measurements are the Subcontractor's responsibility. Subcontractor shall also furnish or obtain all templates, patterns, and setting instructions required for the installation of all Work. All dimensions shall be verified by the Subcontractor in the field.

1.11 ACCESS TO WORK

- A. Pursuant to the requirements of Article GP-11 of the General Provisions, the authorized representatives of the following agencies will also have the right of access to inspect the Work covered by these Subcontract Documents during the performance of this Subcontract:
 - 1. United States Department of Energy (DOE)
 - 2. United States Nuclear Regulatory Commission (NRC)

- 3. State of Oregon
- 4. Lake County

1.12 MEASUREMENT OF QUANTITIES

- A. The number of units and quantities contained in the Bid Schedule are approximate only, and final payment will be made for the actual number of units and quantities which are incorporated in or made necessary by the Work included in this Subcontract.
- B. In the event that work and/or materials or equipment are required to be furnished to a greater or lesser extent than is indicated by the Subcontract Drawings and Specifications, such work and/or materials or equipment shall be furnished in greater or lesser quantities, and the adjustment in unit price shall be made as specified in Section SC-14 of the Special Conditions.

1.13 LAYOUT OF WORK AND SURVEYS

The Subcontractor shall perform all surveys for layout, for performance of the Work, and for measurement for payment, and shall reduce the field notes and make all necessary calculations and drawings necessary to carry out such work.

1.14 SUBMITTALS

- A. The requirements specified in this Section shall be supplemental to requirements specified in General Provisions and General Conditions.
- B. All submittals shall be in English language.
- C. The Subcontractor shall submit all technical submittals including, but not limited to, schedules and reports, design calculations and design drawings etc. to the Site Manager. A copy of the submittal, marked information only, shall be sent to the Contractor's Subcontract Administrator by the Subcontractor. These submittals shall be numerically serialized by the Subcontractor. The submittal serial numbers shall be consecutive and not a part of another correspondence tracking system. The Site Manager will review the submittal and clearly label as follows and return to the Subcontractor:

Submittal Review Status:

- ☐ Approved
- ☐ Approved as Noted
- ☐ Revise and Resubmit
- ☐ Rejected

PART 2 - PRODUCTS

(Not Used)

PART 3 - EXECUTION

(Not Used)

PART 4 - MEASUREMENT AND PAYMENT

4.1 MEASUREMENT

- A. Measurement for payment for excavation of uncontaminated wood chips from evaporation pond No. 1 and placement in storage pile will be by the cubic yards of materials excavated. The quantities for payment will be computed by average end area method from surveys conducted before and after excavation work as shown on the Subcontract Drawings, or by methods determined by the Contractor.
- B. No other measurement for payment will be made for Work required under this Subcontract.

4.2 PAYMENT

- A. Payment for excavation of uncontaminated wood chips from evaporation pond No. 1 and placement in storage pile will be by the unit price per cubic yard quoted therefor in the Bid Schedule. The price quoted shall include full compensation for providing all labor and equipment, and for performing the Work including but not limited to excavating, water control, transporting, placing and compacting.
- B. No other payment will be made for Work required under this Subcontract. All costs in connection with such Work will be considered to be included in the above-mentioned item.

END OF SECTION 01000

Document No. 4005 LKV-S-01-00634-00

Issued for Review-Revision A

General Requirements

01000 - 6

LKV-3

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**UNITED
DEPARTMENT**

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ACTION**

SUBCONTRACT

UNCONTAMINATED WOODC

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UNITED STATES DEPARTMENT OF ENERGY

WASTE TRAP

WASTEWATER TAILINGS REMEDIAL PROJECT

**ANSTEC
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PROJECT DRAWINGS

WOODCHIP SUBCONTRACT LKV-3

LAKEVIEW, OREGON

9712050258-01

WASTEWATER TAILINGS SUBCONTRACT LKV-3

DATE	BY	CR	U.S.D. MGR.	CHIEF ENGR.	DOE APP.
ISSUED FOR FINAL REVIEW	WYL	ABC			
ISSUED FOR PRELIMINARY REVIEW	WYL	ABC			
REVISIONS					

FINAL REVIEW		
E & D MANAGER	CHIEF ENGINEER	QA MANAGER
<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>

U. S. DEPARTMENT OF ENERGY ALBUQUERQUE, NEW MEXICO			
DESIGNED <i>[Signature]</i>	DRAWN HBC	LAKEVIEW SITE LAKEVIEW, OREGON	
CHECKED <i>[Signature]</i>	DATE	TITLE SHEET	
RECOMMENDED <i>[Signature]</i>	DATE	DOE PROJECT ENGINEER	
APPROVED <i>[Signature]</i>	DATE	DATE	
MORRISON-KNUDSEN ENGINEERS, INC. LIMITED PROJECT 400 MARSHALL ST. SAN FRANCISCO, CA 94104		PROJECT NO. DE-AC04-83AL18796	
		DRAWING NO. LKV-GE-10-1341	REV 0

LIST OF DRAWINGS

DRAWING NO.	DRAWING TITLE
LKV-GE-10-1341	TITLE SHEET
LKV-GE-10-1342	VICINITY MAP, LOCATION MAP & LIST OF DRAWINGS
LKV-PS-10-1343	LAKEVIEW PROCESSING SITE, SITE PLAN
LKV-PS-10-1344	LAKEVIEW PROCESSING SITE, CONSTRUCTION FACILITIES AND SITE DRAINAGE
LKV-PS-10-1345	LAKEVIEW PROCESSING SITE, WOODCHIPS RELOCATION PLAN

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9712050258-02

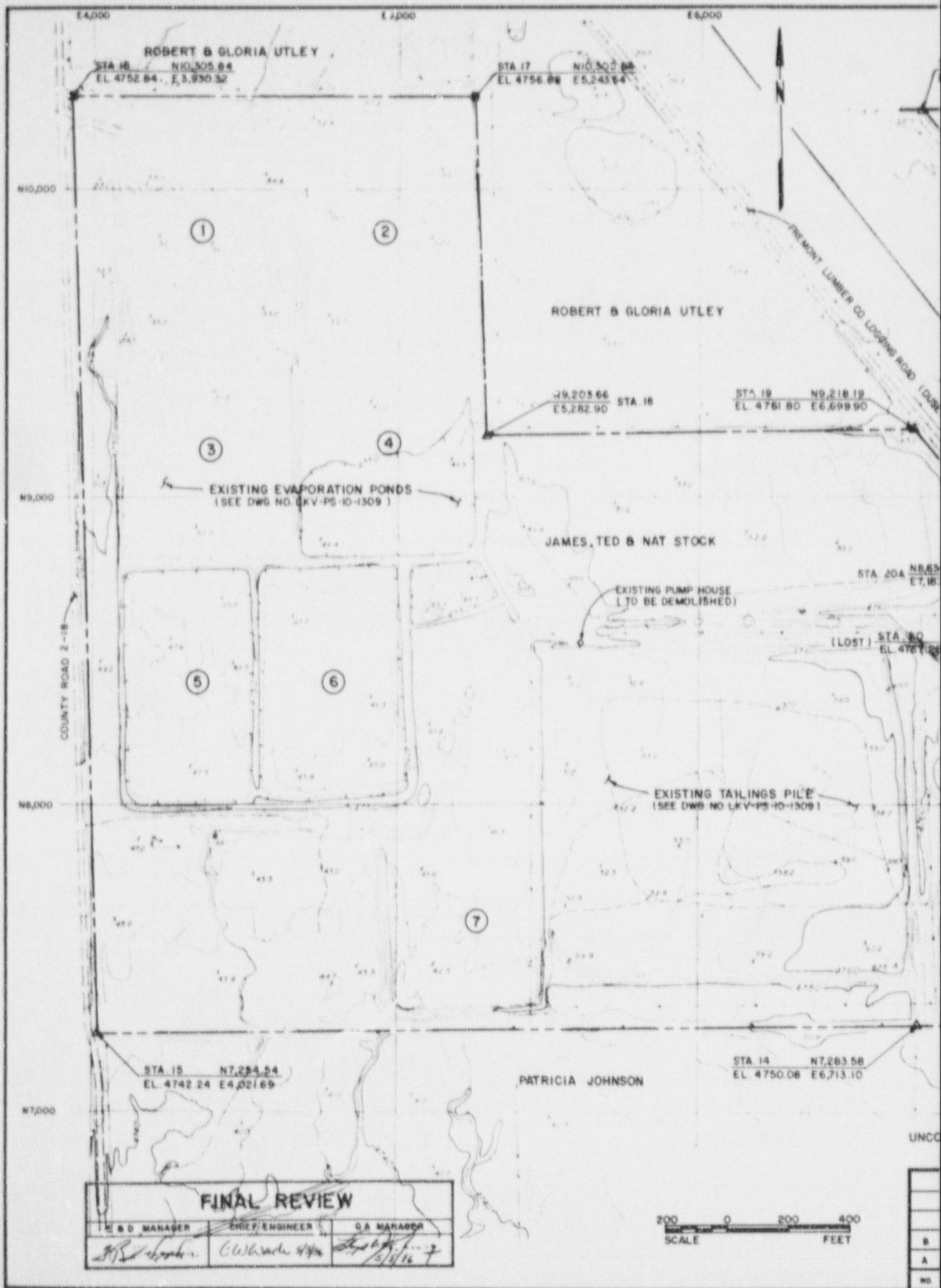
FINAL REVIEW		
E & D MANAGER	CHIEF ENGINEER	QA MANAGER
<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>

CONTAMINATED WOODCHIPS SUBCONTRACT LKV-3

U. S. DEPARTMENT OF ENERGY ALBUQUERQUE, NEW MEXICO	
LAKEVIEW SITE LAKEVIEW, OREGON	
VICINITY MAP, LOCATION MAP & LIST OF DRAWINGS	
DATE	DOE PROJECT ENGINEER
PROJECT NO. DE-AC04-83AL18796	
DRAWING NO. LKV-GE-10-1342	
REV. 0	

DATE	REVISIONS	BY	CHK	E & D MAN	CHIEF ENG	DOE APP
4-29-84	ISSUED FOR FINAL REVIEW	WTL				
10-14-85	ISSUED FOR PRELIMINARY REVIEW	WTL				

MORRISON-KNUDSEN ENGINEERS, INC.
A MORRISON-KNUDSEN COMPANY
LNUFA PROJECT
400 KENNEDY ST. SAN FRANCISCO, CA 94102



FINAL REVIEW

CEO MANAGER	CHIEF ENGINEER	QA MANAGER
<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>

200 0 200 400
SCALE FEET

UNCC
B
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NO

NOTES:

1. FOR HORIZONTAL AND VERTICAL CONTROL, THE SUBCONTRACTOR SHALL USE POINTS MARKED THUSLY: (CONCRETE MONUMENTS WITH BRASS CAP) SUBCONTRACTOR MAY USE OTHER CONTROL POINTS AFTER VERIFICATION BY SURVEY.
2. TOPOGRAPHIC FEATURES, GRID SYSTEM, PROPERTY CORNERS AND PROPERTY OWNERSHIP ARE TAKEN FROM THE RECORD OF SURVEY BY ANDERSON'S LAND SURVEYING, LAKEVIEW, OREGON, JULY - AUGUST 1962.
3. GRID SYSTEM IS BASED ON OREGON COORDINATE SYSTEM, SOUTH ZONE. FOR TRUE COORDINATES, ADD 190,000 NORTH AND 2,030,000 EAST.

REFERENCE DRAWINGS:

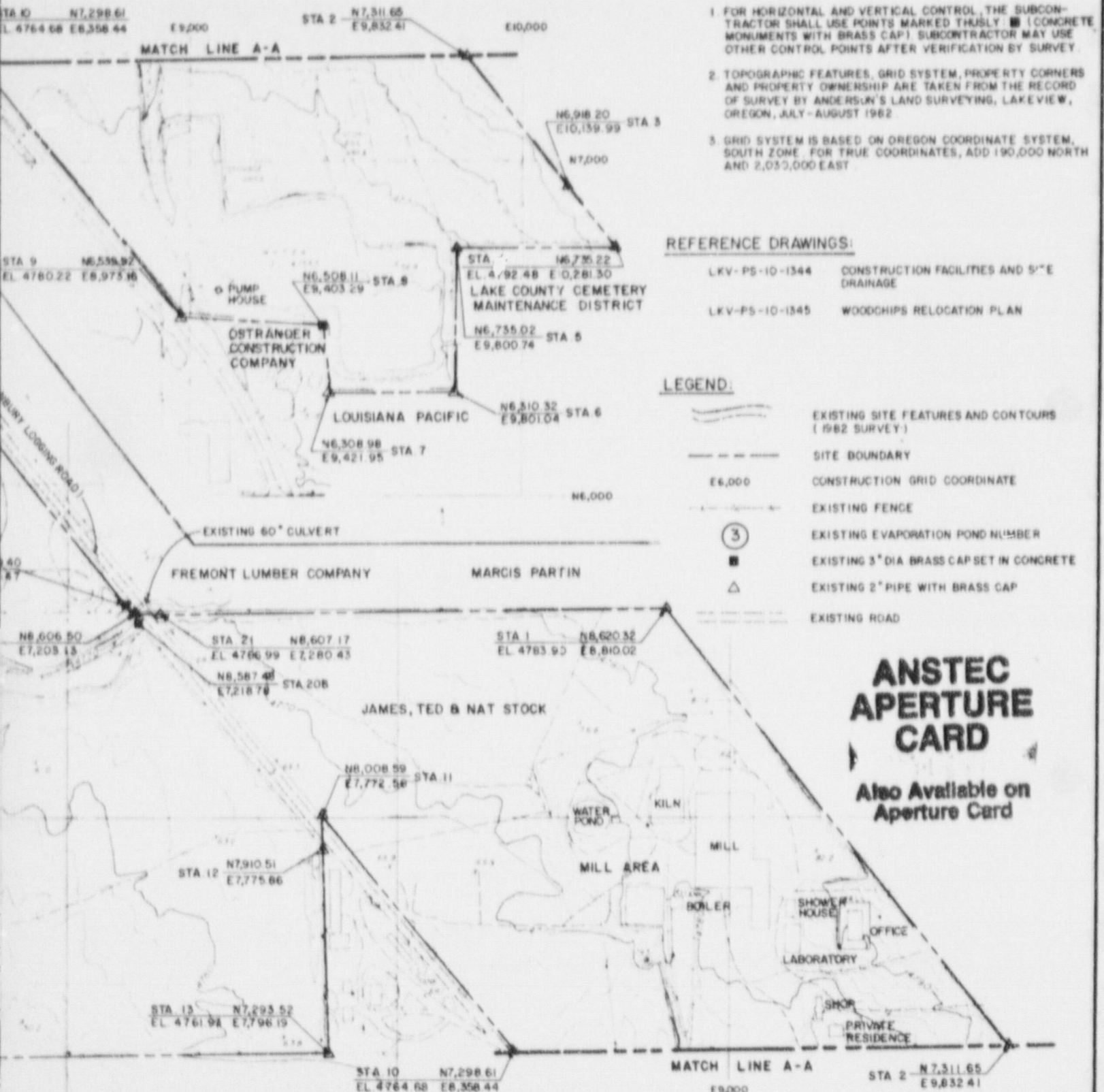
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|----------------|---|
| LKV-PS-10-1344 | CONSTRUCTION FACILITIES AND 5" E DRAINAGE |
| LKV-PS-10-1345 | WOODCHIPS RELOCATION PLAN |

LEGEND:

- | | |
|--|---|
| | EXISTING SITE FEATURES AND CONTOURS (1962 SURVEY) |
| | SITE BOUNDARY |
| | CONSTRUCTION GRID COORDINATE |
| | EXISTING FENCE |
| | EXISTING EVAPORATION POND NUMBER |
| | EXISTING 3" DIA BRASS CAP SET IN CONCRETE |
| | EXISTING 2" PIPE WITH BRASS CAP |
| | EXISTING ROAD |

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FREMONT LUMBER COMPANY

9712050258-03

U. S. DEPARTMENT OF ENERGY
ALBUQUERQUE, NEW MEXICO

LAKEVIEW SITE
LAKEVIEW, OREGON
LAKEVIEW PROCESSING SITE

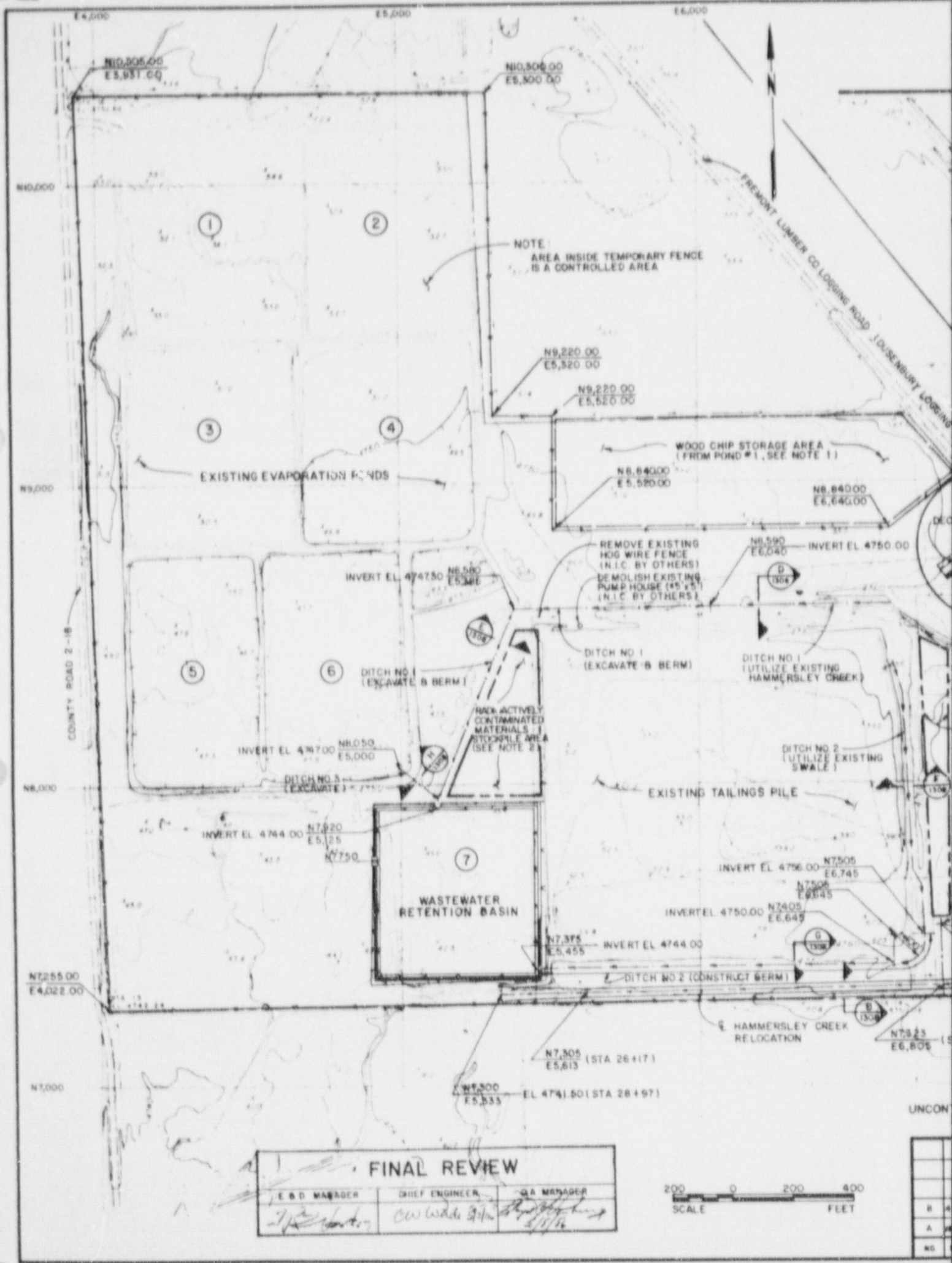
SITE PLAN

DESIGNED		DRAWN		DATE		DOX PROJECT ENGINEER		DATE	
CHECKED		RBC							
APPROVED									
REVISIONS									
BY		CK		E.S.D.		CHW		DOE	
DATE		REVISIONS							
ISSUED FOR FINAL REVIEW		WYL		CH					
ISSUED FOR PRELIMINARY REVIEW		WYL		CH					

MORRISON-KNUDSEN ENGINEERS, INC.
A NATIONAL ASSOCIATION COMPANY
UNTRA PROJECT
500 HICKORY ST. SAN FRANCISCO, CA 94108

PROJECT NO.
DE-AC04-83AL18796

DRAWING NO.
LKV-PS-10-1343



NOTES:

1. ALL NON-RADIOACTIVELY CONTAMINATED WOODCHIPS FROM POND NO. 1 SHALL BE PLACED WITHIN THE AREA INDICATED WITH STABLE SLOPES NO STEEPER THAN 2(H) TO 1(V). MAXIMUM HEIGHT OF THE PILE SHALL BE 15 FEET.
2. ALL RADIOACTIVELY CONTAMINATED MATERIALS EXCAVATED FROM THE RETENTION BASIN AND THE REROUTED HAMMERSLEY CREEK SHALL BE PLACED WITHIN THE AREA INDICATED TO THE NORTH OF POND NO. 7 WITH STABLE SLOPES NO STEEPER THAN 2(H) TO 1(V). MAXIMUM HEIGHT OF THIS PILE SHALL BE 15 FEET. (N.I.C. BY OTHERS)
3. THE SUBCONTRACTOR SHALL ESTABLISH THE DRAINAGE PATTERN WITHIN ALL WORK AREAS. ALL RUNOFF FROM CONTAMINATED AREAS OF THE SITE SHALL BE DIRECTED TO THE TEMPORARY DRAINAGE DITCHES AND INTO THE RETENTION BASIN. (N.I.C. BY OTHERS)
4. SUBCONTRACTOR SHALL IMPROVE EXISTING SWALES TO PROVIDE TEMPORARY DRAINAGE DITCHES SURROUNDING THE EXISTING TAILINGS PILE. DITCHES SHALL DRAIN INTO THE RETENTION BASIN DURING RELOCATION OF THE EXISTING TAILINGS. (N.I.C. BY OTHERS)
5. SUBCONTRACTOR SHALL PROVIDE AND MAINTAIN VEHICLE CROSSINGS OF CONSTRUCTION DRAINAGE DITCHES.
6. SUBCONTRACTOR SHALL BE RESPONSIBLE FOR HANDLING CONTAMINATED WATER AT THE EXISTING TAILINGS PILE DURING RELOCATION OF THE EXISTING TAILINGS. (N.I.C. BY OTHERS)
7. SUBCONTRACTOR SHALL BE RESPONSIBLE FOR HANDLING CONTAMINATED WASH WATER AND PONDED WATER. (N.I.C. BY OTHERS)
8. THE WORK UNDER THIS SUBCONTRACT INCLUDES RELOCATION OF UNCONTAMINATED WOODCHIPS FROM EVAPORATION POND NO. 1 ONLY. ALL OTHER WORK SHOWN HEREON IS FOR INFORMATION ONLY.

REFERENCE DRAWINGS:

LKV-PS-10-1343 SITE PLAN
LKV-PS-10-1345 WOODCHIPS RELOCATION PLAN

LEGEND:

- EXISTING SITE FEATURES & CONTOURS (1982 SURVEY)
- SITE BOUNDARY
- EXISTING FENCE
- EXISTING EVAPORATION POND NUMBER
- TEMPORARY CHAIN-LINK FENCE AND GATE
- CONSTRUCTION GRID COORDINATE
- LINE OF TEMPORARY DRAINAGE DITCH
- EXCAVATION
- STORAGE AREA
- EXISTING ROAD
- TEMPORARY WIRE FENCE

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AMINATED WOODCHIPS SUBCONTRACT LKV-3

U. S. DEPARTMENT OF ENERGY
ALBUQUERQUE, NEW MEXICO

LAKEVIEW SITE
LAKEVIEW, OREGON
LAKEVIEW PROCESSING SITE
CONSTRUCTION FACILITIES
AND SITE DRAINAGE

DESIGNED: [Signature]
CHECKED: [Signature]
INSTRUCED: [Signature]
RECOMMENDED: [Signature]
APPROVED: [Signature]

DATE: [Blank] DOE PROJECT ENGINEER: [Blank] DATE: [Blank]

MORRISON-KNUDSEN ENGINEERS, INC.
LIMITED PROJECT
801 KENNEDY ST. SAN FRANCISCO, CA 94102

PROJECT NO.
DE-AC04-83AL18796

DRAWING NO.
LKV-PS-10-1344

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ISSUED FOR FINAL REVIEW

ISSUED FOR PRELIMINARY REVIEW

REVISIONS

BY: [Signature]

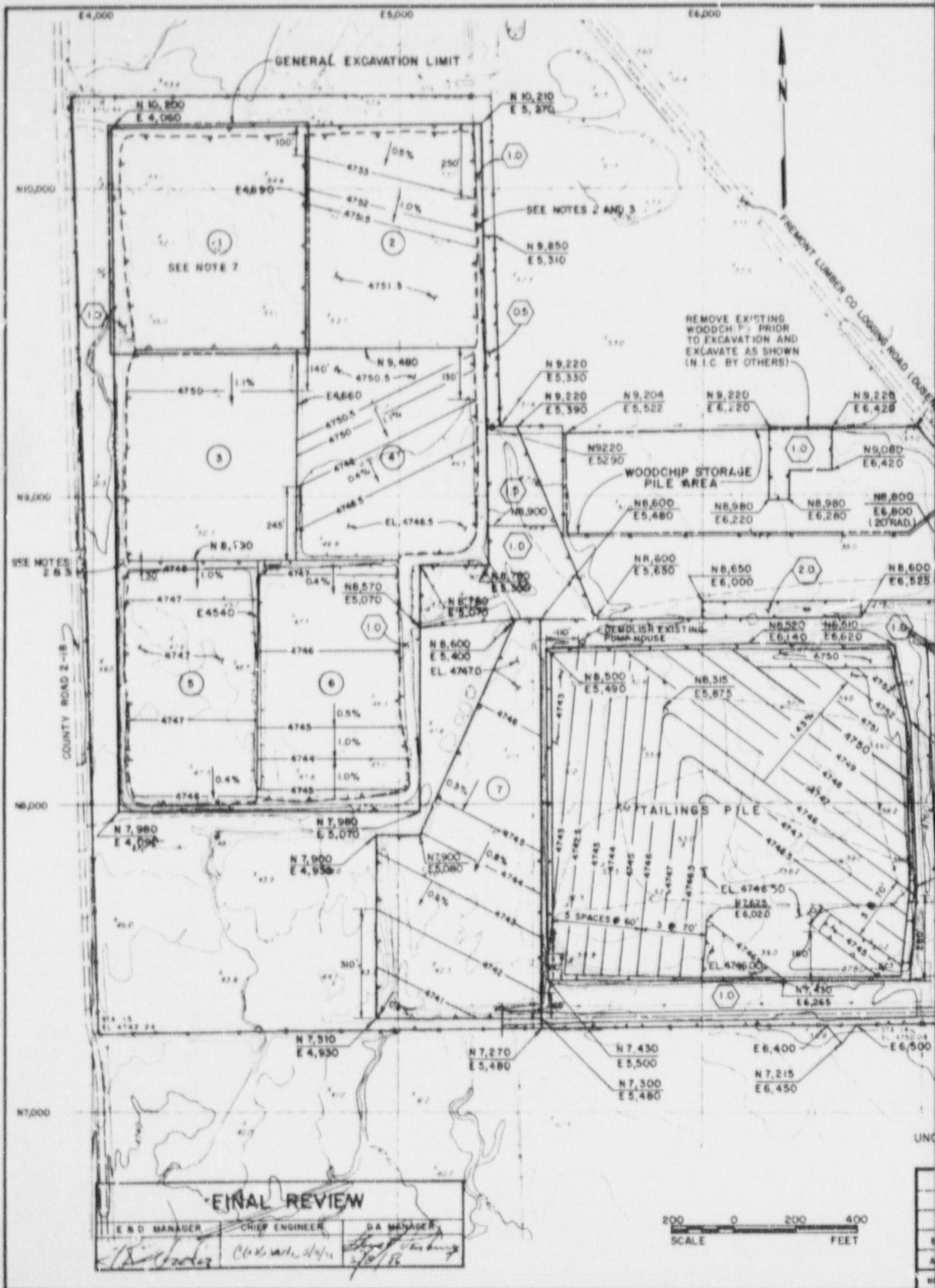
BY: [Signature]

BY: [Signature]

BY: [Signature]

BY: [Signature]

BY: [Signature]



NOTES: (CONT'D.)

6. ALL EXCAVATIONS OF CONTAMINATED MATERIAL SHALL BE BACKFILLED WITH 6 INCHES MINIMUM OF CLEAN FILL. EXCAVATIONS EAST OF THE FREMONT LUMBER COMPANY LOGGING ROAD AND ADJACENT TO THE LOGGING ROAD SHALL BE BACKFILLED TO EXISTING GROUND SURFACE. (N.I.C. BY OTHERS)
7. EXCAVATION IN EVAPORATION POND NO. 1 SHALL CONSIST OF THE UPPER LAYER OF UNCONTAMINATED WOODCHIPS EXTENDING TO A DEPTH OF APPROXIMATELY 12 INCHES ABOVE THE TOP SURFACE OF THE RAFFINATE RESIDUE LAYER. EXCAVATED MATERIAL SHALL BE MOVED TO THE WOODCHIP STORAGE AREA. THE REMAINING LAYERS OF CONTAMINATED WOODCHIPS, RAFFINATE AND SOLIDS WILL BE REMOVED BY OTHERS.
8. REQUIRED EXCAVATION LIMITS SHOWN FOR THE MAIN TAILINGS PILE AND EVAPORATION PONDS INCLUDE MATERIALS CONTAINING ELEVATED ARSENIC CONCENTRATIONS.
9. EXISTING SURFACE ELEVATIONS OF WOODCHIPS SHOWN FOR POND NO. 1 DO NOT REPRESENT CURRENT CONDITIONS.
10. THE WORK UNDER THIS SUBCONTRACT INCLUDES RELOCATION OF UNCONTAMINATED WOODCHIPS FROM EVAPORATION POND NO. 1 ONLY. ALL OTHER WORK SHOWN HEREON IS FOR INFORMATION ONLY.
11. THE LUMBER MILL CURRENTLY USES THE WOODCHIP STORAGE PILE AREA FOR WOODCHIP STORAGE.
12. TEMPORARY FENCE OPENINGS WILL BE PERMITTED AS APPROVED BY THE CONTRACTOR. SUCH OPENINGS SHALL BE PROPERLY CLOSED AT COMPLETION OF WORK.

NOTES:

1. ALL EXCAVATED CUT SLOPES SHALL BE 2(H):1(V) MAXIMUM.
 2. FOR PURPOSES OF SURFACE DRAINAGE CONTROL, EXISTING DIKES SURROUNDING EVAPORATION POND NO'S. 1 THRU 6 SHALL NOT BE DISTURBED UNTIL FINAL GRADING IS COMPLETE TO THE MAXIMUM EXTENT PRACTICABLE WITHIN THOSE AREAS, EXCEPT AS REQUIRED FOR EQUIPMENT ACCESS AND DIVERSION OF WATER TO RETENTION BASIN. THIS SHALL NOT APPLY TO DIKES BETWEEN ADJACENT PONDS.
 3. EQUIPMENT ACCESS SHALL BE PROVIDED TO EVAPORATION PONDS SUCH THAT SURROUNDING DIKES (SEE NOTE 1) ARE NOT LOWERED AT ANY POINT.
 4. FINAL EXCAVATION LIMITS IN ALL AREAS WILL BE DETERMINED BY THE CONTRACTOR ACCORDING TO THE SPECIFICATIONS.
 5. THE CONTRACTOR WILL VERIFY THE NEED FOR EXCAVATION OF CONTAMINATED MATERIAL IN THE TRAVELED WAY OF THE FREMONT LUMBER COMPANY LOGGING ROAD IN THE AREAS INDICATED. NO EXCAVATION SHALL BE MADE THERE UNLESS DIRECTED BY THE CONTRACTOR. (N.I.C. BY OTHERS)
- (NOTES CONTINUED ON LEFT SIDE.)

REFERENCE DRAWINGS:

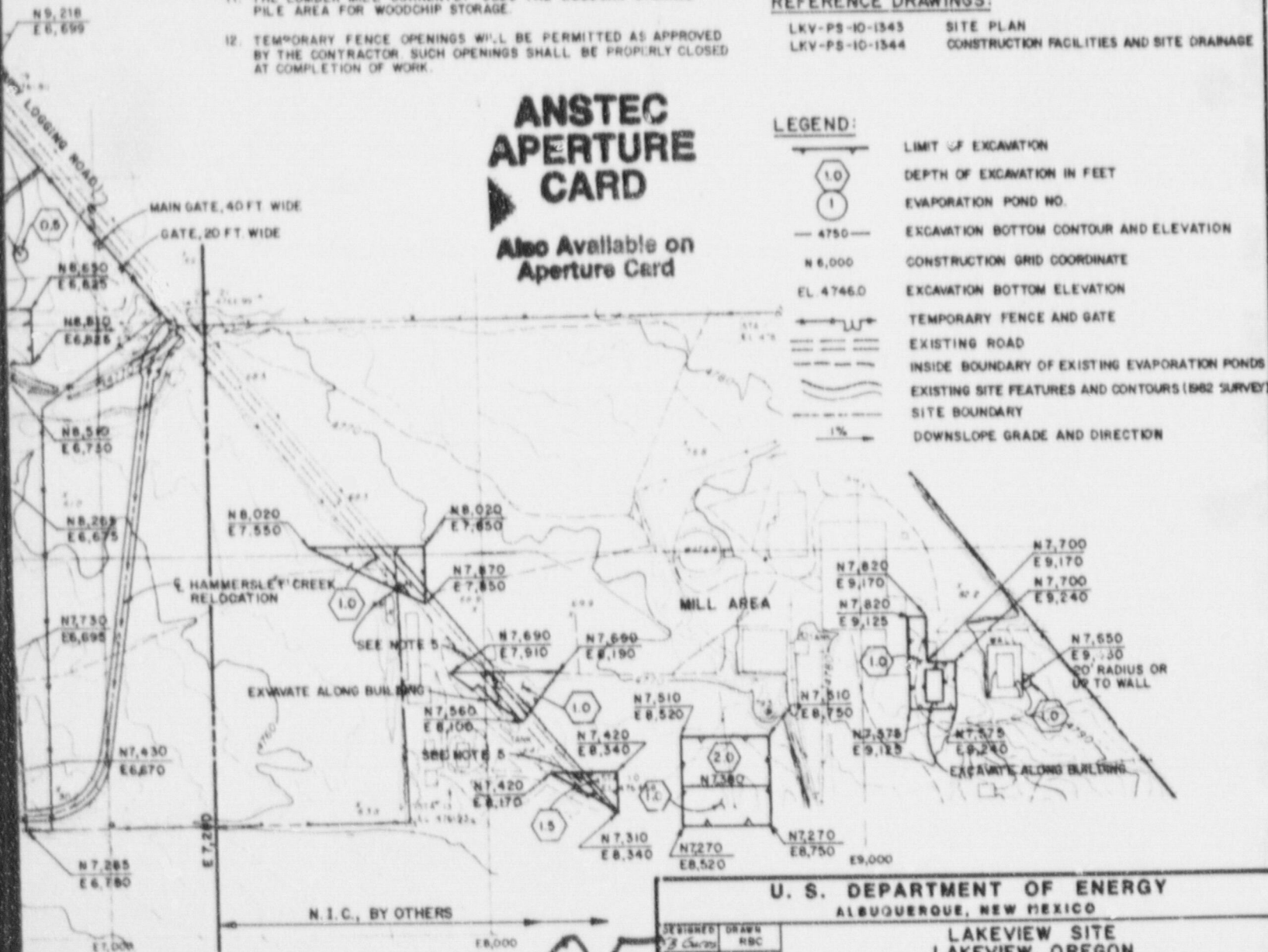
LKV-PS-10-1343 SITE PLAN
LKV-PS-10-1344 CONSTRUCTION FACILITIES AND SITE DRAINAGE

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LEGEND:

- LIMIT OF EXCAVATION
- DEPTH OF EXCAVATION IN FEET
- EVAPORATION POND NO.
- EXCAVATION BOTTOM CONTOUR AND ELEVATION
- CONSTRUCTION GRID COORDINATE
- EXCAVATION BOTTOM ELEVATION
- TEMPORARY FENCE AND GATE
- EXISTING ROAD
- INSIDE BOUNDARY OF EXISTING EVAPORATION PONDS
- EXISTING SITE FEATURES AND CONTOURS (1982 SURVEY)
- SITE BOUNDARY
- DOWNSLOPE GRADE AND DIRECTION



U. S. DEPARTMENT OF ENERGY
ALBUQUERQUE, NEW MEXICO

LAKEVIEW SITE
LAKEVIEW, OREGON
LAKEVIEW PROCESSING SITE

WOODCHIPS RELOCATION PLAN

DESIGNED: J.B. Charnick
CHECKED: J.B. Charnick
APPROVED: J.B. Charnick
RECOMMENDED: J.B. Charnick

DATE: _____ DOE PROJECT ENGINEER: _____ DATE: _____

MORRISON-KNUDSEN ENGINEERS, INC.
A PROFESSIONAL ENGINEERING FIRM
LIMITED PROJECT
180 KENNEDY ST. SAN FRANCISCO, CA 94109

PROJECT NO.
DE-AC04-83AL18796

DRAWING NO.
LKV-PS-10-1345

CONTAMINATED WOODCHIPS SUBCONTRACT LKV-3

9712050258-05

4-29-84 ISSUED FOR FINAL REVIEW

10-4-84 ISSUED FOR PRELIMINARY REVIEW

DATE: _____ REVISIONS: _____

BY: _____ CK: _____ E.S. BOY: _____ CHIEF: _____ DOE: _____