ANNUAL COMPLIANCE REPORT

Makakilo Quarry, Hawaii

Prepared By GRACE PACIFIC CORPORATION November 7, 2011



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1.0 INTRODUCTION

This Annual Compliance Report has been in compliance with Condition No. 9 of the State Land Use Commission's Findings of Fact, Conclusions of Law, and Decision and Order, Special Use Permit, Docket No. SP73-147, filed and effective on November 7, 2008 (the "Special Use Permit" or "SUP"), and certain conditions of the Decision and Order for the Conditional Use Permit No. 2007/CUP-91, dated July 17, 2009 (the "Conditional Use Permit" or "CUP").

This is Grace Pacific's third annual report demonstrating the status of compliance with the conditions of the SUP and the CUP. This report covers the period from October 1, 2010 through September 30, 2011.

Grace Pacific is also including in this 2011 Annual Compliance Report the disposition of Condition 1c under the Conditional Use Permit (Minor) 2007/CUP-47 allowing for joint development of parcels 9-2-3:82 and 9-2-3:74.

Please find attached as Appendix H the July 1, 2011 letter from DPP to Belt Collins stating that the documentation submitted meets condition 1c of the permit and that the applicant (Grace Pacific) may proceed with processing of their building permit(s).

2.0 ANNUAL COMPLIANCE REPORT FOR THE SPECIAL USE PERMIT (Special Use Permit, Docket No. SP73-147, adopted and approved on November 6, 2008, filed and effective on November 7, 2008)

2.1 SUP CONDITION #1

- 1. Within six (6) months of the Land Use Commission's Decision and Order approving the Special Use Permit, the Applicant shall submit:
- a. A new site plan with metes and bounds map and description delineating the approximately 541-acre Property, including the boundaries of the quarry excavation and berming areas, the processing site and conveyor tunnel, and the buffer area to the Director of Planning and Permitting for review and approval. The site plan shall also be submitted to the Land Use Commission.
- b. A fire protection and control plan to Honolulu Fire Department for review and approval. A copy of the approved plan shall be submitted to the Director of Planning and Permitting within 30 days of approval.

2.1.1 GRACE PACIFIC'S RESPONSE TO SUP CONDITION #1.A

Receipt of the requested Site Plan Delineation Key Map and the Metes and Bounds of the Makakilo Quarry was acknowledged by DPP in their letter of December 28, 2010 (Appendix A of this 2011 Report).

As requested by DPP in a letter dated August 24, 2010 (Appendix A to the 2010 Report), Belt Collins, Grace Pacific's agent, submitted to DPP for review and approval on October 27, 2010 an Updated Site Plan Delineation Key Map and the Metes and Bounds of the Makakilo Quarry (Appendix C to the 2010 Report). An original Site Boundary Map was submitted by Belt Collins on November 06, 2009 (Appendix A to the 2009 Report). The State Land Use Commission Boundary interpretation of Grace Pacific's 2009 submittal was dated April 20, 2010 (Appendix B to the 2010 Report).

2.1.2 GRACE PACIFIC'S RESPONSE TO SUP CONDITION #1.B

Satisfaction of Condition #1.B was acknowledged by DPP in their letter of August 24, 2010 (Appendix A to the 2010 Report).

No changes were made to the Fire Protection and Control Plan in the current reporting period. If changes are made in the future, revised plans will be included in the Annual Report.

2.2 SUP CONDITION #2

2. Within one (1) year of the Land Use Commission's Decision and Order approving the Special Use Permit, the Applicant shall submit to the Director of Planning and Permitting for review and approval a renaturalization plan in coordination with the proposed Closure Grading Plan for the quarry site and buffer area mauka of the H-1 Freeway showing landscaping details including plant types, sizing and spacing, irrigation facilities and distribution systems.

2.2.1 GRACE PACIFIC'S RESPONSE TO SUP CONDITION #2

A Renaturalization Plan (RP) was submitted by Belt Collins on November 6, 2009 for review and approval. (Appendix C to the 2009 Report).

Modifications to the Renaturalization Plan were requested by DPP in a letter to Belt Collins dated August 24, 2010 (Appendix A to the 2010 Report).

In a letter dated October 8, 2010, Belt Collins requested clarification from DPP regarding said modifications (Appendix E to the 2010 Report).

In response to the October 8th request, DPP responded in a letter dated December 28, 2010 (Appendix A to this 2011 Report), stating:

"Regarding Condition 2 which requires the submittal and approval of a Renaturalization Plan (RP), we note that our August 24, 2009 letter indicates that the RP dated November 5, 2009 does not cover the remaining portions of the quarry rim, the quarry floor and the surrounding buffer areas disturbed by golf course construction....Should you wish to clarify or modify the language of this condition, your options are to seek clarification with the Land Use Commission or submit a request to modify Condition No. 2 to the Planning Commission."

In a letter dated January 18, 2011 from Belt Collins to DPP (Appendix B to this 2011 Report), it was stated that Grace Pacific is in contact with Mr. Orlando Davidson, Executive Director of the State Land Use Commission and Grace Pacific hopes to reach a determination about how best to proceed to meet compliance for SUP Condition #2.

On March 28, 2011, Belt Collins wrote to DPP indicating that Grace Pacific had decided to prepare a revision to the November 2009 RP and requested a meeting with DPP to discuss the extent of the physical area that DPP wishes to include in the revised RP (Appendix C to this 2011 Report).

No further guidance has been received from DPP as of this report date as to the extent of the physical area DPP wishes to include in the revised RP.

2.3 SUP CONDITION #3

- 3. All resource extraction, related aggregate processing and concrete and asphalt production activities, including recycling activities shall cease by December 31, 2032. Final beneficial re-use plans as approved by the Department of Planning and Permitting shall be implemented immediately upon the cessation of said resource extraction and related quarrying activities.
- 2.3.1 GRACE PACIFIC'S RESPONSE TO SUP CONDITION #3 Grace Pacific acknowledges this condition of the Special Use Permit.

2.4 SUP CONDITION #4

4. The Applicant shall close the processing site on Parcel 4 by relocating all uses on the site into the quarry pit or Campbell Industrial Park by December 31, 2012, and Parcel 4 shall be returned to landscaped open space use within six (6) years of the date of the Land Use Commission's Decision and Order. A landscape plan shall be submitted to the Director of Planning and Permitting for review and approval on the second anniversary date of the Land Use Commission's Decision's Decision's Decision and Order and the approved landscape plan shall be implemented within one (1) year of its approval. Landscaping shall be maintained in a natural state for the life of the Special Use Permit.

2.4.1 GRACE PACIFIC'S RESPONSE TO SUP CONDITION #4

Grace Pacific acknowledges this condition of the Special Use Permit to relocate all processing site uses from Parcel 4 by December 31, 2012.

A Lower Quarry Landscape Plan addressing the return of Parcel 4 to landscaped open space was submitted by Belt Collins to DPP on June 13, 2011 (Appendix D to this

2011 Report). Grace Pacific acknowledges that this submittal was due November 6, 2010, and apologies for its tardy submission.

No written response from DPP as to comments or approval of the Lower Quarry Landscape Plan has been received as of the date of this report.

2.5 SUP CONDITION #5

5.	Beginning January 1, 2012, quarry operations shall be limited to the following
	days/hours:
а.	Quarry excavation, crushing, stockpiling, equipment maintenance, and recycling
	facility – 6:00 a.m. to 6:00 p.m., Monday to Saturday.
b.	Hot-mix asphalt plant - 6:00 a.m. to 6:00 p.m., Monday to Friday.
С.	Unloading of cold-planed asphaltic concrete during re-paving jobs - 6:00 p.m. to 10:00
	p.m., Sunday to Friday.

2.5.1 GRACE PACIFIC'S RESPONSE TO SUP CONDITION #5

Grace Pacific acknowledges there will be a change in operating hours beginning in 2012, under this condition of the Special Use Permit.

2.6 SUP CONDITION #6

- 6. Except for quarry, recycling activities in the quarry, and renaturalization activities, the remainder of Tax Map Key: 9-2-03: 74 shall remain in open space buffer for the life of the quarry and related activities. Minor accessory uses or structure may be permitted on Parcel 74 with the express written consent of the Director of Planning and Permitting. Any other uses shall be processed pursuant to Section 205-6. Hawai`i Revised Statues.
- 2.6.1 GRACE PACIFIC'S RESPONSE TO SUP CONDITION #6 Grace Pacific acknowledges this condition of the Special Use Permit.

2.7 SUP CONDITION #7

- 7. As may be required by the State Department of Health, the Applicant shall place in service additional dust control measures to control dust generation at the project such that no visible fugitive dust shall cross the combined property boundaries of Tax Map Key: 9-2-03: 74 and 82.
- 2.7.1 GRACE PACIFIC'S RESPONSE TO SUP CONDITION #7 Grace Pacific acknowledges this condition of the Special Use Permit.

2.8 SUP CONDITION #8

8. The Applicant shall, as a result of modifications to the final grading and beneficial reuse plans, submit an update of the drainage plan, prepared by a qualified civil engineer, as may be required by the Director of Planning and Permitting for review and approval.

2.8.1 GRACE PACIFIC'S RESPONSE TO SUP CONDITION #8 Grace Pacific acknowledges this condition of the Special Use Permit.

2.9 SUP CONDITION #9

- 9. On each anniversary date of the Land Use Commission's Decision and Order, the Applicant or its successor shall file with the Department of Planning and Permitting and the Land Use Commission a report and supporting documentation demonstrating the statues of compliance with each of the conditions of the Special Use Permit approval. Included in the supporting documentation shall be an updated rectified aerial imagery of the quarry, buffer area and processing site and dust control management plan. The following items shall also be a part of the supporting documentation:
- a. Observations of fugitive dust.

- b. A report on replanting activities, including the areas replanted, and the type of vegetation planted.
- c. A report of any citizen's complaints relating to the operation along with the actions taken to ameliorate those complaints.

The Director may present its analysis and recommendations on the annual report to the Planning Commission and the State Department of Health for further action pursuant to the Rules of the Planning Commission.

2.9.1 GRACE PACIFIC'S RESPONSE TO SUP CONDITION #9

A copy of the Makakilo Quarry Aerial Topography dated August 08, 2011 is attached to this 2011 Report as Appendix E.

Also submitted with this report is a DVD containing electronic files of the Rectified Aerial Imagery, AutoCAD file of the Aerial Topography and electronic files of this Annual Report and related Appendixes.

2.9.2 GRACE PACIFIC'S RESPONSE TO SUP CONDITION #9.A

No observations of fugitive dust were reported to Grace Pacific or the State Department of Health, Clean Air Branch for the period October 1, 2010 through September 30, 2011. Correspondence from the Clean Air Branch dated October 21, 2011 is attached to this 2011 Report as Appendix I.

2.9.3 GRACE PACIFIC'S RESPONSE TO SUP CONDITION #9.B

Grace Pacific has limited its replanting efforts in the Upper Quarry to temporary erosion control, awaiting approval of the Renaturalization Plan. Grace Pacific continues to maintain the buffer and screening plantings along Farrington Highway, the Kapolei Knolls buffer and the H-1 shoulder overlooking the Lower Quarry site.

2.9.4 GRACE PACIFIC'S RESPONSE TO SUP CONDITION #9.C

No reports of citizen complaints relating to operations during the period October 1, 2010 through September 30, 2011 were received by Grace Pacific. A copy of the "Grace Pacific Makakilo Quarry Hotline" Phone Log is attached to this 2011 Report as Appendix F.

2.10 SUP CONDITION #10

10. The Applicant shall provide a beneficial re-use plan for lands disturbed by its quarry operations. The plan shall include planning and preparation of the design and implementation scenarios for the beneficial re-use of the pit area consistent with established land use policies for the site and surrounding area. The re-use planning document and accompanying scenarios and drawings shall be submitted to the Department of Planning and Permitting, for review and approval within the fifth (5th) year after the date of the Land Use Commission's Decision and Order approving this expansion. An updated re-use plan shall be submitted to the DPP for review and approval every five (5) years thereafter. The beneficial re-use planning and design document shall be an ongoing document prepared by a professional qualified in re-use planning and contain objectives, implementation and funding strategies for reclamation of the pit area for the purpose of achieving the area's long term land use policies. The Applicant will update the plan, as may be required by the Director of Planning and Permitting, to respond appropriately to any changes in the surrounding area's land use policies.

The beneficial re-use plan shall include at least one public access across Tax Map Key: 9-2-03: 74, connecting Tax Map Key: 9-2-03:81 and the extension of Makakilo Drive, across the project in which safe pedestrian/bicycling passage can be established. Access requirements, such as but not limited to, subdivision, nature of improvements, routing, hours accessible, shall be established as part of the final beneficial re-use plan. Suggested routing of the public access is shown on Exhibit A.

2.10.1 GRACE PACIFIC'S RESPONSE TO SUP CONDITION #10 Grace Pacific acknowledges this condition of the Special Use Permit.

2.11 SUP CONDITION #11

11. Approval of this Special Use Permit does not constitute compliance with other land use ordinances or governmental agencies' requirements. They are subject to separate review and approval. The Applicant shall be responsible for insuring that the final plans for the project approved under this permit comply with all applicable provisions of the Land Use Ordinance and other governmental agencies' provisions and requirements.

2.11.1 GRACE PACIFIC'S RESPONSE TO SUP CONDITION #11 Grace Pacific acknowledges this condition of the Special Use Permit.

2.12 SUP CONDITION #12

- 12. The Applicant and/or landowner shall notify the Director of Planning and Permitting and the Land Use Commission of any changes in uses on the Property; termination of any uses on the Property; and/or transfer in ownership of the Property or any uses on the Property. The Planning Commission shall then, in consultation with the Director of Planning and Permitting, determine the appropriate disposition of this Special Use Permit and facilities.
- 2.12.1 GRACE PACIFIC'S RESPONSE TO SUP CONDITION #12 Grace Pacific acknowledges this condition of the Special Use Permit.

Letters notifying DPP and LUC that a change of ownership occurred were sent on November 05, 2009 (Appendix G to the 2009 Report) and on March 26, 2010 (Appendix J on the 2010 Report).

2.13 SUP CONDITION #13

- 13. In the event of noncompliance with any of the conditions set forth herein, the Director of Planning and Permitting may terminate all uses approved under this Special Use Permit or the Director may declare this Special Use Permit null and void or seek available civil procedures to enforce compliance.
- 2.13.1 GRACE PACIFIC'S RESPONSE TO SUP CONDITION #13 Grace Pacific acknowledges this condition of the Special Use Permit.

2.14 SUP CONDITION #14

14. The Applicant shall, for the life of the Special Use Permit, establish and disclose to the community, a telephone number dedicated to receiving and recording complaints relating to quarry and recycling operations. A continuous volume of complaints shall warrant reconsideration of the Special Use Permit by the Planning Commission.

2.14.1 GRACE PACIFIC'S RESPONSE TO SUP CONDITION #14

Grace Pacific has posted the Makakilo Quarry Hotline information 671-GRACE (671-4722) on its website, wwww.gracepacificcorp.com, for disclosure to the community.

In addition, Grace Pacific has established a process to enhance its communication with the community by establishing a Community Advisory Group. The Community Advisory Group will to provide an opportunity for Grace Pacific to share information about its operations with area residents and obtain feedback from the community.

The Community Advisory Group is composed of residents and representatives from neighboring community associations as well as from Neighborhood Board No. 34, Makakilo/Kapolei/Honokai Hale. Its' current members are:

> James Brown, Kapolei Knolls Judy Cocke, Anuhea Ken Dorner, Villages of Kapolei Maeda Timson, former Chairperson, Neighborhood Board No. 34 Thad Spreg, Wai Kaloʻi

The Community Advisory Group has agreed to meet on an ad hoc basis ensuring channels of communication are maintained between Grace Pacific and the community. The initial meeting was held April 27, 2010, and tours of the quarry with the members were conducted in September of 2010. The next meeting is scheduled for November, 2011.

2.15 SUP CONDITION #15

15. The uses in the quarry excavation area shall be limited to rock excavation, crushing, stockpiling, a new hot-mix asphalt plant, recycling of concrete rubble, glass, and asphaltic concrete pavement, equipment maintenance, employee support, parking, administration, and a water well and pump. No other uses shall be permitted without the approval of the Land Use Commission.

- 2.15.1 GRACE PACIFIC'S RESPONSE TO SUP CONDITION #15 Grace Pacific acknowledges this condition of the Special Use Permit.
- 2.16 SUP CONDITION #16
- 16. The Applicant shall establish the quarry expansion in substantial compliance with the representations made to the Land Use Commission in obtaining the Land Use Commission Special Use Permit. Failure to do so may result in the revocation of the permit.

IT IS FURTHER ORDERED that the conditions imposed by the LUC on March 23, 1973, in this docket that are applicable to the sanitary landfill operations shall remain in fill force and effect.

2.16.1 GRACE PACIFIC'S RESPONSE TO SUP CONDITION #16 Grace Pacific acknowledges this condition of the Special Use Permit.

3.0 ANNUAL COMPLIANCE REPORT FOR THE CONDITIONAL USE PERMIT (Conditional Use Permit, No. 2007/CUP-91, dated July 17, 2009)

3.1 CUP CONDITION #1

- 1. Blasting shall be restricted to the hours of 8:00 am to 12:00 noon, Mondays through Fridays.
- 3.1.1 GRACE PACIFIC'S RESPONSE TO CUP CONDITION #1 Grace Pacific acknowledges this condition of the Conditional Use Permit.

3.2 CUP CONDITION #2

- 2. Within one year of this Decision and Order, the applicant shall submit to the Director of the DPP for review and approval, final grading plans with contour intervals of five feet in areas where the slope is greater than ten percent; two feet in areas where the slope is ten percent or less.
- 3.2.1 GRACE PACIFIC'S RESPONSE TO CUP CONDITION #2 Grace Pacific acknowledges this condition of the Conditional Use Permit.

A Final Grading Plan was submitted to DPP on November 06, 2009 (Appendix J to the 2009 Report). A letter from DPP dated November 05, 2009 acknowledged confirmation Condition 2 of the Conditional Use Permit was met (Appendix A to the 2010 Report)

3.3 CUP CONDITION #3

3. On the fifth anniversary date of this Decision and Order, and an updated every fifth year thereafter, as may be required by the Director, the applicant shall submit a beneficial reuse plan which shall show how the property is to be left in a form suitable

for reuse for purposes permissible in the district, relating such reuses to existing or proposed uses of surrounding properties. Among items to be included in the plan are feasible circulation patterns in and around the site, the treatment of exposed soil or subsoil, including measures to be taken to replace topsoil or establish vegetation in excavated areas in order to make the property suitable for the proposed reuse, treatment of slopes to prevent erosion and delineation of floodways and floodplains (if any) to be maintained in open usage. Submittal of the beneficial reuse plan under Condition 12 of the Land Use Commission Decision and Order, dated November 7, 2008, may satisfy the requirements of this condition (providing the reuse plan complies with Land Use Ordinance Section 5.520, Specific Use Development Standards, for Resource Extraction).

3.3.1 GRACE PACIFIC'S RESPONSE TO CUP CONDITION #3 Grace Pacific acknowledges this condition of the Conditional Use Permit.

3.4 CUP CONDITION #4

- 4. Prior to the issuance of a building permit for any structures within and/or the relocation of any structures to the Project Site, the applicant shall submit to the Director for review and approval:
- a. A site plan showing compliance with all development standards of the Land Use Ordinance, including but not limited to, parking and loading, structure heights and setbacks, and building coverage.
- b. A water source and distribution plan approved by the Board of Water Supply. The plan shall include the disposition of the existing water source in the processing site.
- c. An outdoor lighting plan showing all existing and proposed outdoor lighting fixtures. All exterior lighting shall be fully shielded to prevent glare and light spillage on surrounding lots and public rights-of-way. Lighting for unloading of cold-planed asphalt shall be directed away from adjoining residential uses and be turned off upon completion of unloading operations.

3.4.1 GRACE PACIFIC'S RESPONSE TO CUP CONDITION #4.A, B, AND C

A Site Plan, Water Source and Distribution Plan and Outdoor lighting Plan were submitted by Belt Collins to DPP on July 08, 2011 for review and approval. A copy of the letter is attached as Appendix G of this 2011 Report.

3.5 CUP CONDITION #5

- 5. The applicant shall stabilize exposed soils during the construction of any berms to minimize runoff impacts to the area's natural drainage features. Landscaping of any berms shall commence within 30 days of completion of berm construction.
- 3.5.1 GRACE PACIFIC'S RESPONSE TO CUP CONDITION #5 Grace Pacific acknowledges this condition of the Conditional Use Permit.
- 3.6 CUP CONDITION #6
- 6. Operation of the resource extraction facility and accessory uses shall be in general conformance with the approved project, as described herein and shown on plans on file with the DPP. Any modification to the project and/or plans shall be subject to the prior review and approval by the Director. Major modifications shall require a new Conditional Use Permit.
- 3.6.1 GRACE PACIFIC'S RESPONSE TO CUP CONDITION #6 Grace Pacific acknowledges this condition of the Conditional Use Permit.

3.7 CUP CONDITION #7

- 7. This application has only been reviewed and approved pursuant to the provisions of Section 21-5.520 (Resource Extraction), and its approval shall not constitute compliance with the requirements of other governmental agencies. These are subject to separate review and approval. The application shall be responsible for insuring that the final plans for the project approved under this permit comply with all applicable government agencies' provisions and requirements, including compliance with all other provisions of the Land Use Ordinance.
- 3.7.1 GRACE PACIFIC'S RESPONSE TO CUP CONDITION #7 Grace Pacific acknowledges this condition of the Conditional Use Permit.

3.8 CUP CONDITION #8

- 8. The applicant and/or landowner shall submit written notification to the Director of DPP of any changes in use, including the addition of any accessory uses and/or structure, termination of any use on the property; and/or transfer in ownership of the property or of any use on the property. In the case of any addition and/or change in use, the Director shall determine if the proposed change requires a minor or major modification of the Conditional Use Permit. In the event of a change in ownership, the Director shall notify the new owner (by copy of this report) that the site and/or facility is permitted and/or governed by the Conditional Use Permit, and that compliance with all conditions of approval is required.
- 3.8.1 GRACE PACIFIC'S RESPONSE TO CUP CONDITION #8 Grace Pacific acknowledges this condition of the Conditional Use Permit.

Letters notifying DPP and LUC that a change of ownership occured were sent on November 05, 2009 (Appendix G to the 2009 Report) and on March 26, 2010 (Appendix J on the 2010 Report).

3.9 CUP CONDITION #9

9. The Director may modify the conditions of this permit by imposing additional conditions, modifying existing conditions, or deleting conditions deemed satisfied upon a finding that circumstances related to the approved project have significantly changed so as to warrant a modification to the conditions of approval. In the event of the noncompliance with any of the conditions set forth herein, the Director may terminate all uses approved under this permit or halt their operation until all conditions are met or may declare this Conditional Use Permit null and void or seek civil enforcement.

3.9.1 GRACE PACIFIC'S RESPONSE TO CUP CONDITION #9

Grace Pacific acknowledges this condition of the Conditional Use Permit.

----- End of 2011 Annual Report

ANNUAL COMPLIANCE REPORT

Makakilo Quarry, Hawaii

2011

APPENDIX A:

LETTER FROM DPP TO BELT COLLINS DATED DECEMBER 28, 2010 REGARDING GRACE PACIFIC'S SECOND ANNUAL COMPLIANCE REPORT DEPARTMENT OF PLANNING AND LEMMENT CITY AND COUNTY OF HONOLURECEIVED 650 SOUTH KING STREET, 7TH FLOOR • HONOLULU, HAWAII 96813 PHONE: (808) 768-8000 • FAX: (808) 768-6041 DEPT. WEB SITE: WWW.honoluludpp.org • CITY WEB SITE: WWW.honolulu.gov 110 UFC 30 AM 11: 15 DEPARTMENT OF PLANNING AND PERMITTING

PETER B. CARLISLE MAYOR



BELT COLLINS HAWAII DAVID K. TANOUE

DIRECTOR

ROBERT M. SUMITOMO DEPUTY DIRECTOR

2007/SUP-6(rv) 2007/CUP-91

December 28, 2010

Mr. Lee W. Sichter Belt Collins Hawaii. Ltd. 2153 North King Street, Suite 200 Honolulu, Hawaii 96819-4554

Dear Mr. Sichter:

Subject: Second Annual Report Land Use Commission Docket No. SP73-147 Grace Pacific Corporation Makakilo Quarry Tax Map Keys: 9-1-016: 004, 9-2-002:006, 9-2-083: 074 and 082

We have reviewed the Second Annual Report dated November 5, 2010. Also, additional documentation dated October 27, November 3, 2010 and your request dated October 8, 2010, regarding clarification of Condition 3 of the Land Use Commission's Decision for Docket No. SP73-147 Grace Pacific Corporation were reviewed. We provide the following responses:

Special Use Permit (SUP) Conditions:

1. Regarding Condition 2 which requires the submittal and approval of a Renaturalization Plan (RP), we note that our August 24, 2009, letter indicates that RP dated November 5, 2009, does not cover the remaining portions of the quarry rim, the quarry floor, and surrounding buffer areas disturbed by golf course construction. Condition No. 2 states, in part, as follows:

"...shall submit to the Director of Planning and Permitting for review and approval a renaturalization plan in coordination with the proposed Closure Grading Plan for the guarry site and buffer area mauka of the H-1 Freeway showing landscape details including plant types, sizing and spacing, irrigation facilities and distribution systems."

Our August 24 letter further indicates that renaturalization of the remaining portion of the quarry rim and pit walls, the quarry floor and the impacted soils of the buffer area, as was represented by the applicant, will contribute to the reduction of fugitive dust and associated impacts on surrounding neighbors. Thus, we find that in order to satisfy Condition No. 2, a revised RP which includes the excluded areas, stamped and signed by a Hawaii licensed landscape architect, be submitted for review and approval.

Should you wish to clarify or modify the language of this condition, your options are to seek clarification with the Land Use Commission or submit a request to modify Condition No. 2 to the Planning Commission.

- 2. Regarding Condition No. 9, we have not received the referenced AutoCAD file of the aerial topography.
- 3. Regarding Condition No. 14, on December 21, the 2010, the DPP staff called the "Makakilo Quarry Hotline" phone number, 671-4722, and found that this number was disconnected. The DPP staff also checked the applicant's web page, <u>www.gracepacificcorp.com</u>, however, an updated complaints contact number could not be found. As we do not have any records as to when the phone number was disconnected, we cannot conclude that the applicant's report that there were no citizen complaints is a reliable indication of the community's complaints on the quarry and recycling's operations.

Please submit the material referenced above as soon as possible and notify the Department of Planning and Permitting as soon as the complaints hotline and web information have been re-established. If you have any questions, please contact Raymond Young of our staff at 768-8049.

Very truly yours,

David K. Tanoue, Director Department of Planning and Permitting

DKT:bkg Doc: 820819

cc: Land Use Commission Grace Pacific Corporation DR Horton – Schuler Homes, LLC

ANNUAL COMPLIANCE REPORT

Makakilo Quarry, Hawaii

2011

APPENDIX B:

LETTER FROM BELT COLLINS TO DPP DATED JANUARY 18, 2011 REGARDING GRACE PACIFIC'S SECOND ANNUAL COMPLIANCE REPORT



January 18, 2011 11P-010 / 2004-33-8000

Mr. David K. Tanoue, Director Department of Planning and Permitting City and County of Honolulu 650 South King Street, 7th Floor Honolulu, Hawaii 96813

Dear Mr. Tanoue:

Second Annual Report LUC Docket No. SP73-147, Grace Pacific Corporation <u>Makakilo Quarry</u>

Thank you for your letter of December 28, 2010 regarding the above project. Following are responses to your comments in the order they were presented in your letter.

- 1. As we appear to have a difference of opinion regarding the requirements of Condition 2, we have taken your advice and have contacted Mr. Orlando Davidson, Executive Director of the State Land Use Commission. We are presently in conversation with him and hope to reach a determination shortly about how best to proceed.
- 2. Enclosed is a CD of the requested AutoCADD file.
- 3. We wish to assure you that the Makakilo Quarry Hotline has not been disconnected. Enclosed is a copy of an email that Grace Pacific received from Hawaiian Telcom stating that the telephone company experienced "...a software problem in the switch on our side..." which caused the outage on December 21, 2010. We are advised that the Grace Pacific web page has been updated to include a reference to the phone number.

With regard to your comment, "...we cannot conclude that the applicant's report that there were no citizen complaints is a reliable indication of the community's complaints on the quarry and recycling operations...," please be informed that Grace Pacific creates a weekly summary of all phone calls made to the hotline, as well as a separate transcript of each call received, in an effort to ensure that the community's concerns are fully addressed. For these reasons, the petitioner is confident in the representations made in its annual reporting.

Grace Pacific and its consultants have made every effort to comply with all applicable laws and regulations pertaining to the operations of the Makakilo Quarry and the entitlements granted thereto. Grace Pacific has a record of over 30 years of continuous and faithful dedication to the interests of its neighbors and the greater community.

Belt Collins Hawaii Ltd. | 2153 North King Street, Suite 200 | Honolulu, HI 96819-4554 USA Tel: 808.521.5361 | Fax: 808.538.7819 | www.beltcollins.com | honolulu@beltcollins.com Mr. David Tanoue January 18, 2011 – 11P-010 Page 2

We will provide follow-up correspondence on our communications with the office of the State Land Use Commission regarding the specifics of Condition 2. Should you require any future information on the other items in your December 28, 2010 letter as addressed herein, kindly contact us.

Very truly yours,

BELT COLLINS HAWAII LTD.

Lee Sichter

Principal Planner

LWS:jdk enclosures

cc: Robert Creps/Grace Pacific Corporation J. Douglas Ing, Esq./Watanabe Ing LLC Orlando "Dan" Davidson/State Land Use Commission Mike Jones/D.R. Horton – Schuler Homes, LLC



To <RCREPS@GRACEPACIFICCORP.COM> 01/03/2011 04:53 PM cc "Moani Browne" <Moani.Browne@hawaiiantel.com> Subject Hawaiian Telcom Ticket information - 8086714722

Aloha Mr. Creps -

Per your request, here is the information regarding the recent trouble on your phone line. Ticket 964004 was created at approximately 2:59pm on December 22, 2010 when you reported that customers were receiving a disconnect recording when calling telephone number 671-4722. Unfortunately when our technicians looked into this, we found that there was a software issue in the switch on our side that caused this to occur. Once our technicians restored the service into our switch, your line was back in service. Our records also indicate that we made test calls to 671-4722 at approximately 6:36pm on December 22nd and were successful in reaching the Grace Pacific Makakilo Hotline.

We apologize for this error as it occurred through no fault of Grace Pacific, and I sincerely hope it did not cause any adverse situations for your company.

Thank you, Moani

~~*~*~*~*~*~*

Moani Browne Supervisor – 24 Hour Services Center 808-546-6004

This message is for the designated recipient only and may contain privileged, proprietary, or otherwise private information. If you have received it in error, please notify the sender immediately and delete the original. Any other use of this message by you is prohibited.

ANNUAL COMPLIANCE REPORT

Makakilo Quarry, Hawaii

2011

APPENDIX C:

LETTER FROM BELT COLLINS TO DPP DATED MARCH 28, 2011 REGARDING REVISED RENATURALIZATION PLAN



March 28, 2011 2004.33.8000 / 11P-060

Mr. David K. Tanoue, Director Department of Planning and Permitting City and County of Honolulu 650 South King Street, 7th Floor Honolulu, Hawaii 96813

Dear Mr. Tanoue:

Revised Renaturalization Plan LUC Docket No. SP73-147, Grace Pacific Corporation Makakilo Quarry, Ewa, O`ahu

We are writing to follow up on our letter of January 18, 2011 to you concerning the above matter. As we indicated in that letter, we had conversations with the staff of the State Land Use Commission. While a petition to the LUC remains an option, we have decided to prepare a revision to the Renaturalization Plan, dated November 4, 2009, which was previously submitted to you in fulfillment of and compliance with Condition 2.

To that end, we respectfully request a meeting with DPP to discuss the extent of the physical area that you wish to be included in revised plan. In your letter of August 24, 2010, you stated that the November 5, 2009 Renaturalization Plan

"...excludes renaturalization of the balance of the quarry rim, the quarry floor and the surrounding buffer areas disturbed by golf course construction. Renaturalization of all areas with appropriate landscaping is necessary...the renaturalization plan should be expanded to include all areas disturbed by the quarry operations and former golf course construction <u>as was represented by Grace Pacific</u>." [emphasis added]

Before we can move forward with the requested revision to the plan, we wish to scope the extent of the area to be included. We are unclear concerning your reference to what representation by Grace Pacific you are referring at the top of page two of the August 24, 2010 letter. It would be most helpful if you could identify this representation. We look forward to the discussion of the areas to be included in the revised plan.

As you know, economic conditions have been quite challenging over the past three years. The cost of extending renaturalization beyond the area addressed in our 2009 plan may be considerable over the remaining life of the quarry. Therefore, your assistance in identifying the extent of the revised plan would be greatly appreciated. As you are probably aware, natural revegetation of much of the former Makakilo Golf Course has already occurred since Grace Pacific first began discussions with the City about quarry expansion in 2004. We look forward to meeting with you on this matter.

Very truly yours,

BELT COLLINS HAWAJI LTD.

Lee W. Sichter **Principal Planner**

cc: R. Creps J. Douglas Ing Belt Collins Hawaii Ltd. | 2153 North King Street, Suite 200 | Honolulu, HI 96819-4554 USA Tel: 808.521.5361 | Fax: 808.538.7819 | www.beltcollins.com | honolulu@beltcollins.com

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LWS:jdk

ANNUAL COMPLIANCE REPORT

Makakilo Quarry, Hawaii

2011

APPENDIX D:

LETTER FROM BELT COLLINS TO DPP DATED JUNE 13, 2011 REGARDING LOWER QUARRY LANDSCAPE PLAN



June 13, 2011 11P-130 / 2004-33-8000

Mr. David K. Tanoue, Director Department of Planning and Permitting City and County of Honolulu 650 South King Street, 7th Floor Honolulu, Hawaii 96813

Dear Mr. Tanoue:

Lower Quarry Landscape Plan LUC Docket No. SP73-147, Grace Pacific Corporation <u>Makakilo Quarry, Ewa, O`ahu</u>

On behalf of Grace Pacific Corporation, we respectfully submit for your review and approval a landscape plan for the lower quarry of Makakilo Quarry. Condition No. 4 of the Land Use Commission (LUC) Docket No. SP73-147, Findings of Fact, Conclusions of Law, and Decision and Order, state that a landscape plan shall be submitted to the Director of Planning and Permitting for review and approval on the second anniversary date of the LUC's Decision and Order and the approved landscape plan shall be implemented within one year of its approval.

The second anniversary date was November 6, 2010. At that time Grace Pacific was preparing its second annual compliance report and inadvertently overlooked the submission date for the landscape plan. This plan is being filed to meet Condition No. 4 described above.

Sincerely yours,

Belt Collins Hawaii Ltd.

glin L Koyama

Glen T. Koyama Project Manager

GTK:ajk Enclosure

cc: Mr. Robert Creps, Grace Pacific Corporation

Belt Collins Hawaii Ltd. | 2153 North King Street, Suite 200 | Honolulu, HI 96819-4554 USA Tel: 808.521.5361 | Fax: 808.538.7819 | www.beltcollins.com | honolulu@beltcollins.com

Makakilo Quarry Grace Pacific Corporation

Lower Quarry Landscape Plan

Date: May 31, 2011

Prepared by: Belt Collins Hawaii Ltd. 2153 North King Street, Suite 200 Honolulu, Hawaii 96819

Prepared for: Grace Pacific Corporation P.O. Box 78 Honolulu, HI 96810

Makakilo Quarry Grace Pacific Corporation

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- 1. Purpose of the Lower Quarry Landscape Plan
- 2. Cessation of Operations and Removal of Plant and Equipment
- 3. Voluntary Response Program
- 4. Continuance/Discontinuance of Current Landscape Plan
- 5. Primary Objectives of the Landscape Plan
- 6. Exhibits to the Plan
- 7. Landscape Guidelines
 - A. General Planting and Irrigation Guidelines
 - B. Erosion Control Hydro-mulch.
 - C. Erosion Control Geobinder
 - D. Erosion Control Synthetic blanket

Exhibits

- Exhibit 1 Proposed Post-Closure Grading Plan for the Lower Quarry;
- Exhibit 2 Overlay Comparison between 1969 Pre-Quarry Topography and Proposed Post-Closure Grading Plan;
- Exhibit 3 Site Condition after Removal of Quarry Operations;
- Exhibit 4 Plan and Section of Existing Landscape Buffer along Kapolei Knolls.
- Exhibit 5 Plan and Section of Berm along Farrington Highway.
- Exhibit 6 Selection of Recommended Grasses and Groundcover.
- Exhibit 7 Before and After Views of Farrington Highway Berm.
- Exhibit 8 Before and After Views from H-1 towards Diamond Head.

1. Purpose of the Lower Quarry Landscape Plan

On November 6, 2008, the Land Use Commission of the State of Hawaii adopted the Decision and Order in the matter of the Application of Grace Pacific Corporation to Extend the Life of the Makakilo Quarry (Docket No. SP73-147).

Condition No. 4 of the Approval requires that the Lower Quarry (the Processing Site), being Tax Map Key 9-1-016-004 ("Parcel 4", or the" Property"), be returned to landscaped open space use within six years of the date of the Decision and Order, that date being November 6, 2014. Condition No. 4 further required that a landscape plan (the "Plan") be submitted to the Director of Planning and Permitting for review and approval on the second anniversary date of the Decision and Order.

The second anniversary date was November 6, 2010. At that time Grace Pacific was preparing its second annual compliance report and inadvertently overlooked the submission date for the landscape plan. This plan is being filed to meet Condition No. 4 described above.

2. Cessation of Operations and Removal of Plant and Equipment

Condition No. 4 of the Approval requires that Grace Pacific close the Processing Site on Parcel 4 by relocating all uses on the site into the Upper Quarry pit or Campbell Industrial Park by December 31, 2012.

Upon the ceasing of operations, Grace Pacific will remove all of the mobile equipment not supporting the removal and remedial work being performed, the crushing and screening plants, conveyors, truck scale, trailers, sheds, tanks, the maintenance shop and related structures.

The office building and related infrastructure will be retained for security purposes, and the deep well and electrical substation and related infrastructure will remain to support operations in the Upper Quarry. All utility and communications lines supporting the office, substation and operations in the Upper Quarry will be retained. The deep well and substation, as well as the entrance to the tunnel under the H-1 Freeway, will be fenced off for security purposes.

All concrete footings, slabs, underground piping and conduit, and the portion of the IWS (individual wastewater system) not serving the office will be removed and properly disposed of off- site. All of the asphalt pavement, other than what is necessary to access the office and the perimeter of the Property for maintenance and security purposes will be removed. All overhead utility and communications lines, other than those described above, will be removed.

3. Voluntary Response Program

Grace Pacific is entering into a Voluntary Response Program (VRP) Agreement with the State of Hawai`i Department of Health for the assessment and remediation of potential environmental impacts arising from the historical industrial use of the Property. It is expected that the Agreement will be signed in June of 2011, and that work under the VRP will begin shortly thereafter, starting from the Kapolei Knolls end of the Property and working towards the maintenance shop.

The tasks contemplated under the VRP are as follows:

- Task 1: Summary of Environmental Work.
- Task 2: General Work Plan.
- Task 3: Detailed Work Plan.
- Task 4: Site Characterization.
- Task 5: Environmental Hazard Evaluation.
- Task 6: Remedial Alternatives Analysis.
- Task 7: Public Participation Plan and Draft Response Action Memorandum.
- Task 8: Final Response Action Memorandum.
- Task 9: Remedial Action.
- Task 10: Letter of Completion.

It is contemplated that as remedial actions under the VRP, including land farming (the above-ground remediation of soils to reduce the concentrations of petroleum hydrocarbons), and other remedial actions are completed, the affected portions of the Property will be released for landscaping as described in the Plan. The portions of the Property not subject to remediation will be landscaped following removal of the plant and equipment.

4. Continuance/Discontinuance of Current Landscape Plan

Grace Pacific's current obligations for landscaping of the Lower Quarry arise from the original 1973 Conditional Use Permit (72/CUP-15) and the 2002 Use Variance (2002/VAR-51) relocating the B-Grade activities to the Upper Quarry and allowing concrete and asphalt recycling in the Upper Quarry.

The 1973 CUP required visual screening of the quarry operations from viewpoints along the H-1 Freeway and Farrington Highway. An oleander hedge has been planted and maintained behind the guardrail along the H-1, and a berm with a chain-link security fence along the Farrington Highway boundary has been established and maintained with Oleander and other shrubs. The 2002 Use Variance required a 50 foot wide (minimum) landscape strip, including canopy-form trees and other plantings along the southwestern property line, abutting the Kapolei Knolls subdivision. Grace Pacific has planted and maintains a 300 foot buffer as described above.

The existing landscaping will be maintained during the removal of plant and equipment and, as described further in the Plan, will thereafter be reduced in scope as the need for visual screening ceases.

A graded and grassed maintenance road will be created to keep access to the existing well location, utility structures, and tunnel.

5. Primary Objectives of the Landscape Plan

<u>Visual Screening</u>. For the period of time that the Property has an industrial appearance, being the active quarry processing and the subsequent removal of plant and equipment, visual screening will be an important element of the Plan. As noted above, as the requirement for screening declines, the nature of the landscaping will also de-emphasize visual screening.

<u>Erosion and Dust Control.</u> As the industrial activities cease on the Property, the focus of the landscape plan will shift from visual mitigation to minimizing erosion and dust emanating from the Property. The landscaped open space requirement, or buffer zone nature of the land use, does not suggest anything more than a gently graded, grassed open space.

<u>Minimal Disturbance of Landforms</u>. As can be seen from the topography of Exhibit 2 (comparison of 1969 (pre-quarry) with current), minimal disturbance of the original landforms has occurred from the quarry activity. The plan contemplates retaining this minimal disturbance, with grading work conducted only as necessary to enhance run-on/run-off sheet flow and to minimize opportunities for erosion.

<u>Conservation of Water Resources</u>. While Grace Pacific will be maintaining its deep well on the Property, requirements for landscaping and dust control in the Upper Quarry leave a minimal amount available for the Property. The existing BWS water supply off of Farrington Highway should be adequate for the needs of this Plan.

Drought Tolerant Plant Palette. It is contemplated that a grassing and ground cover mix will be established on the graded slopes previously affected by quarry operations. A carefully selected combination of adapted grass and ground cover species that are fast growing, drought tolerant and that will reseed or otherwise spread will be used. No large landscape materials will be used. A mixture of species will be used so that the most adapted plant types will establish within the varying microclimates present within the site. The colors and textures of the species used will be similar over the rainy and dry seasons to those occurring in the surrounding natural

hillside areas. This area should be considered a temporary re-naturalization only and mitigation should be limited to the establishment of the hydro-seeded grass and groundcover mixes recommended in this report which will blend with the surrounding hillsides around Makakilo.

<u>Two Year Grow-in Period.</u> Irrigation will be required to establish and maintain plant materials in this area. Rotary impact heads will be used for a period of approximately two years to establish the grassing and groundcovers. The irrigation rates will be slowly reduced during the second year of establishment to acclimate the plants to the climate of the area. Irrigation main and lateral lines will be buried in shallow 4" trenches to minimize UV exposure and other damage and to lengthen usable life of system. The system will be left in place after the two-year establishment period to be turned on periodically in times of drought to minimize potential fire hazards.

6. Exhibits to the Plan include;

- Exhibit 1 - Proposed Post-Closure Grading Plan for the Lower Quarry;

- Exhibit 2 - Overlay Comparison between 1969 Pre-Quarry Topography and Proposed Post-Closure Grading Plan;

- Exhibit 3 - Site Condition after Removal of Quarry Operations;

- Exhibit 4 Plan and Section of Existing Landscape Buffer along Kapolei Knolls.
- Exhibit 5 Plan and Section of Berm along Farrington Highway.
- Exhibit 6 Selection of Recommended Grasses and Groundcover.
- Exhibit 7 Before and After Views of Farrington Highway Berm.
- Exhibit 8 Before and After Views from H-1 towards Diamond Head.

7. Landscape Guidelines

A. General Planting and Irrigation Guidelines

i. Landscape installation is to be performed by persons familiar with planting work and under the supervision of a qualified planting foreman. Work progress needs to be coordinated with the Owner's representative as areas become available for planting.

ii. The Landscape Contractor is to verify the location of all on-site utilities (including irrigation piping and wiring) before commencing work.

iii. Contractor must take all reasonable precautions to coordinate work and to minimize damage to graded site, electrical, gas, or irrigation lines, roads and curbs, and any related work.

iv. Plant locations shown on the plans are diagrammatic and subject to field adjustment by the Landscape Architect. v. The Landscape Architect reserves the right to make substitutions, additions, and deletions in the planting scheme as necessary. Any such changes will be accompanied by equitable adjustments in the contract price if and when appropriate.

vi. Quantities shown on the Landscape Materials List are for the convenience of the Contractor only. It is the responsibility of the Contractor to provide and install the necessary landscape materials in quantities sufficient to fulfill the design at the specified spacing and depth, in the locations shown.

vii. The Contractor is to field verify the location of grass mix areas with the Landscape Architect prior to planting. Areas of grasses are to be staked or sprayed in the field by the Contractor for review by Landscape Architect.

viii. For grassed areas, rotor head irrigation will be used, Laterals and mainline pipes will be buried a minimum of 4 "in depth. Rotor heads shall be positioned to overlap at least 10% of the throw radius of the heads to ensure good coverage. Refer to Exhibit 26 for typical rotor head installation detail.

ix. All irrigation system will be automatically controlled with a suitable timer.

B. Erosion Control - Hydro-mulch. (Refer to Appendix C for product information)

i. Irrigation systems shall be installed prior to hydro mulching.

ii. All grass seed used in hydro mulching is to be pure live seed, approved and guaranteed by the supplier

iii. Soil Preparation: Scarify 1/2" deep all graded or disturbed areas. Do not weed or apply any herbicide to hydro mulched areas.

iv. Seed ratio to be applied per landscape specifications.

v. Contractor to provide irrigation to hydro-mulched areas for a minimum of 2 years. Constant light irrigation is needed during establishment and germination to promote seed germination and proper root growth.

C. Erosion Control - Geobinder

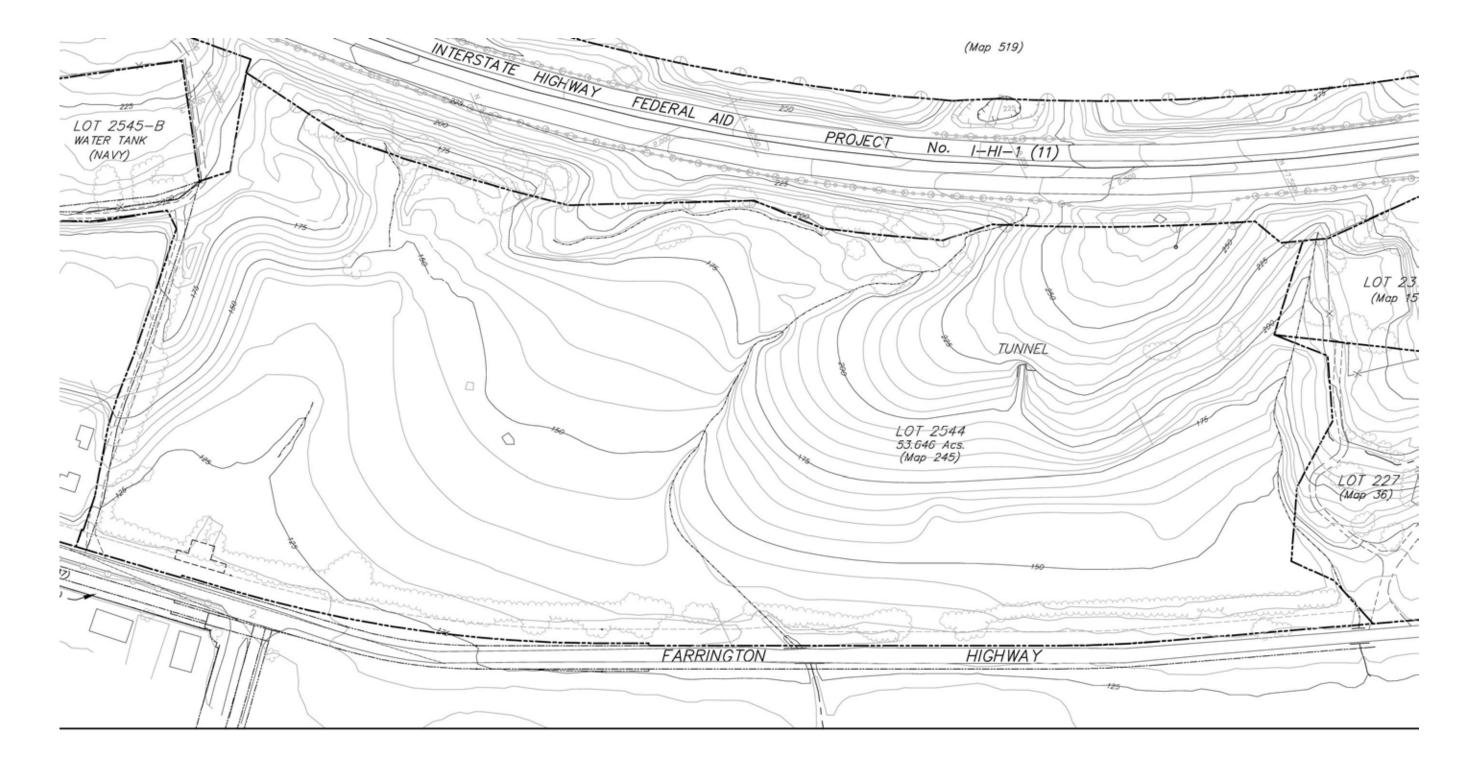
i. These are made from naturally occurring gypsum, polymers and asphaltic emulsions. Cementitious gypsum binders added to cellulose form a crust-like barrier that controls water and wind-induced erosion. Applied at recommended rates, it replaces some uses of erosion control blankets. The binder also has many valuable side effects besides its primary use for erosion such as mitigation of toxic levels of salt, Boron and Magnesium that may be present in certain site soils. ii. The plaster lowers soil surface temperatures by reflecting solar radiation, reduces siltation of streams and waterways, buffers soil pH and adds valuable calcium and sulfur to the soil.

D. Erosion Control - Synthetic blanket

i. A variety of different erosion control blankets are available. The best blankets allow some sunlight and water to filter through to promote plant growth. Only materials specifically manufactured for use as erosion control blankets will be used.

Exhibits

- Exhibit 1 Proposed Post-Closure Grading Plan for the Lower Quarry;
- Exhibit 2 Overlay Comparison between 1969 Pre-Quarry Topography and Proposed Post-Closure Grading Plan;
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SITE CONDITIONS AFTER GRADING MAKAKILO QUARRY – GRACE PACIFIC CORPORATION MAY 31, 2011

Exhibit 1 Proposed Post-Closure Grading Plan for the Lower Quarry



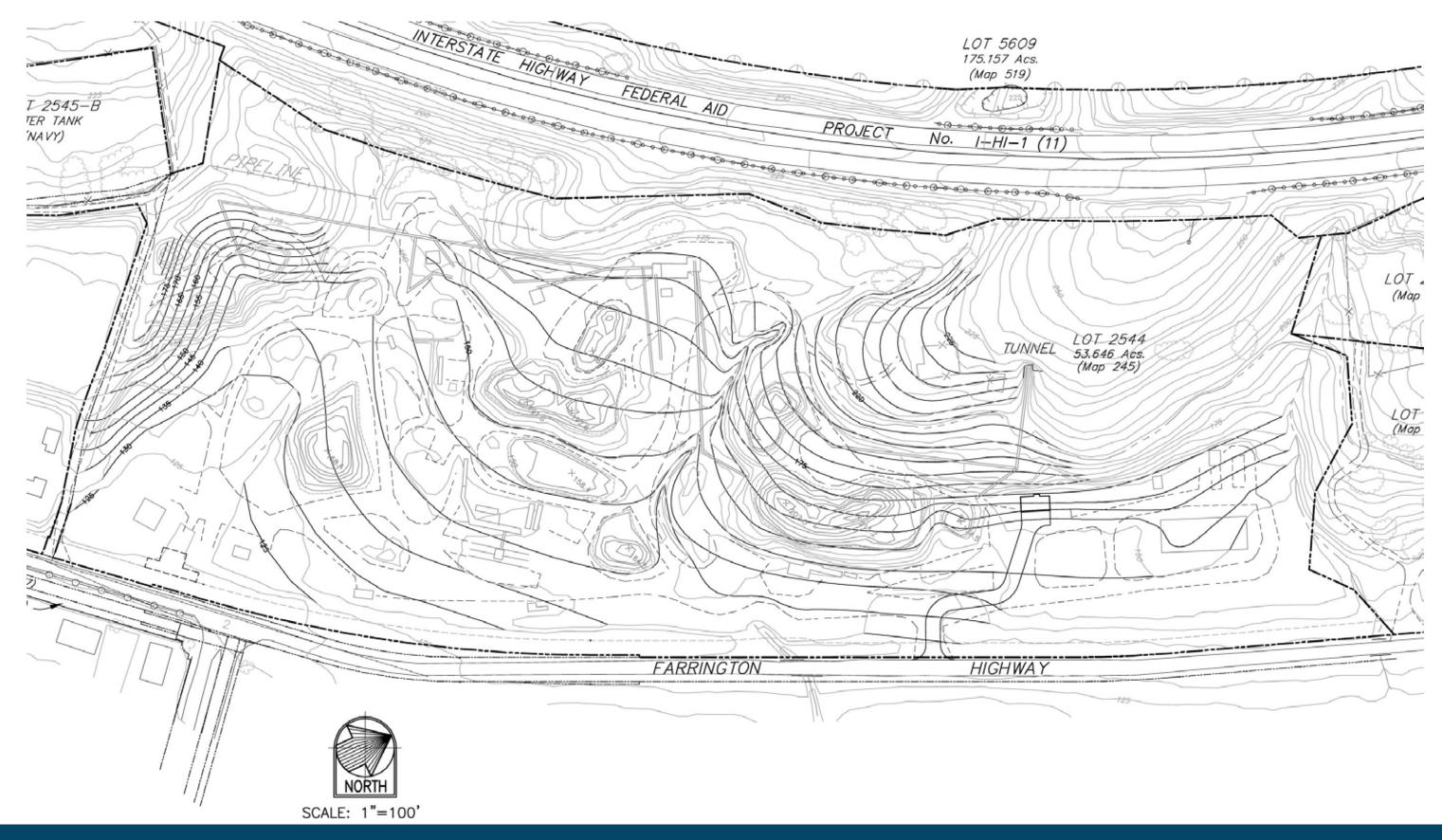


Exhibit 2 Overlay Comparison between 1969 Pre-Quarry Topography and Proposed Post-Closure Grading Plan

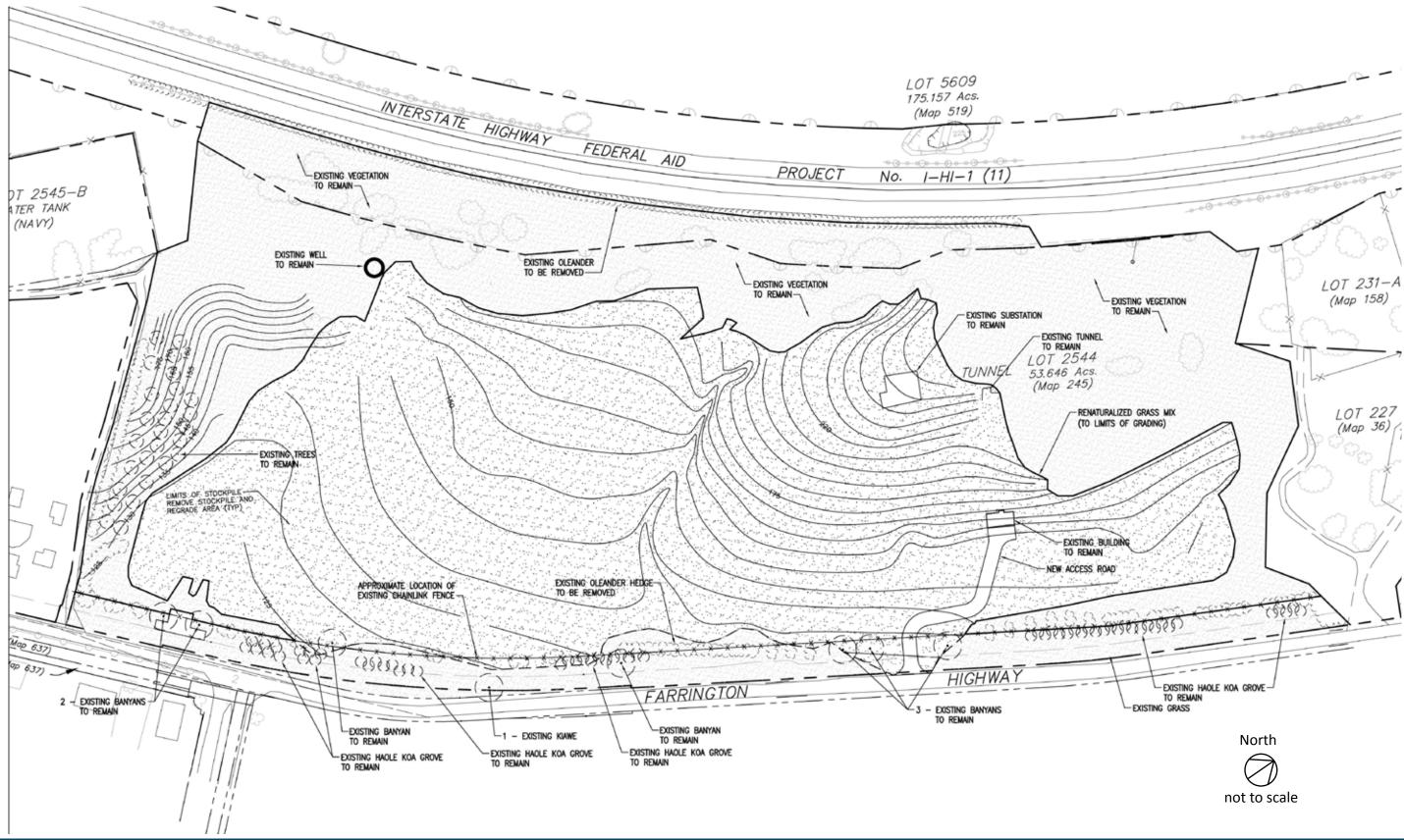


Exhibit 3 Site Condition After Removal of Quarry Operations



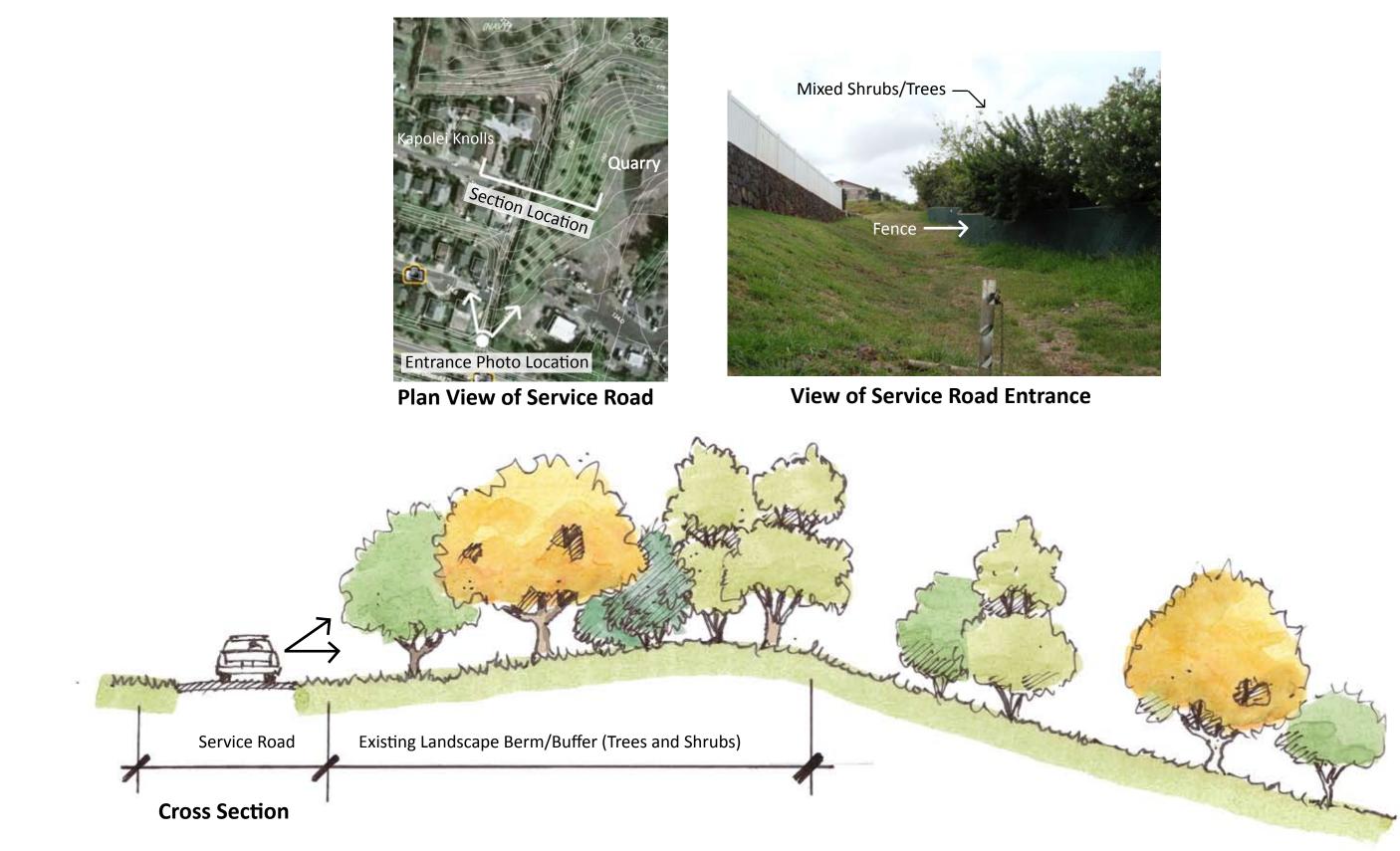


Exhibit 4 Plan and Section of Existing Landscape Buffer Along Kapolei Knolls

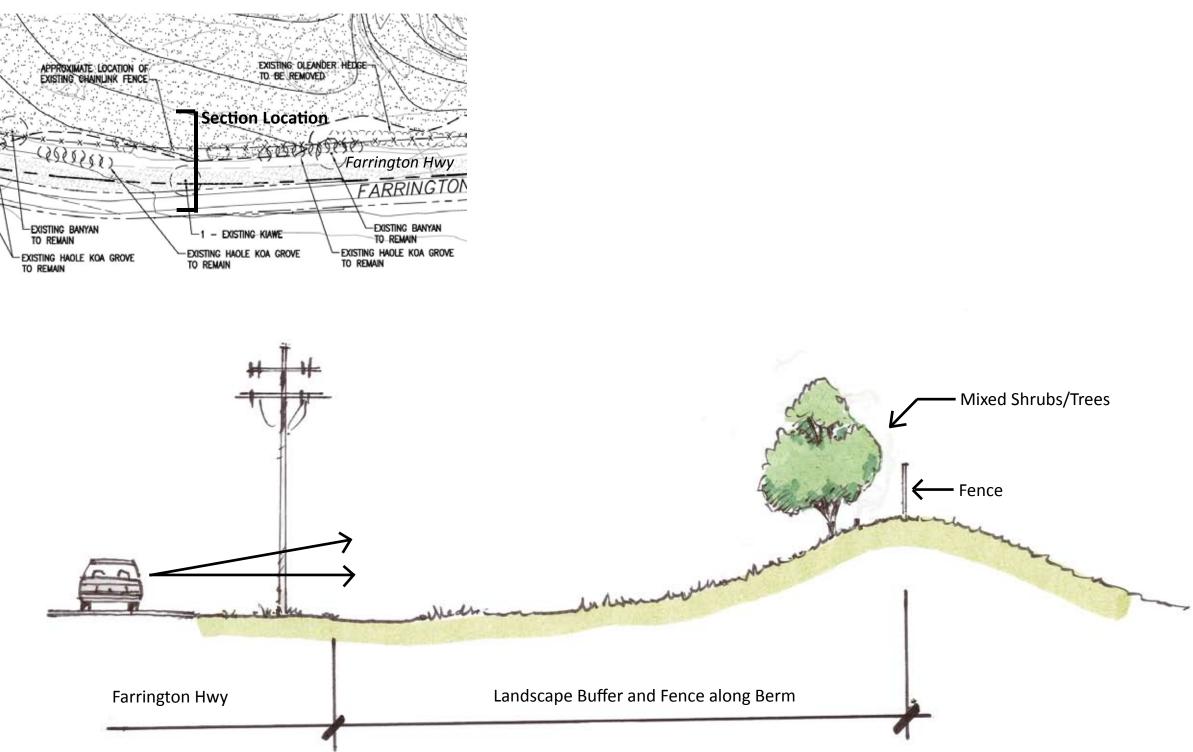


Exhibit 5 Plan and Section of Berm Along Farrington Highway







Buffelgrass

Common Bermuda

PLANT MATRIX

BOTANICAL NAME	COMMON NAME	OUTPLANTING SIZE (hardened to sun and drought)	ESTIMATED OUTPLANTING QUANTITY PER ACRE	REMARKS
Cenchrus ciliaris 'Laredo"	Loredo Buffelgrass	Un-hulled Seeds	10 lbs. de-hulled seeds	Hydroseed with bonded fiber matrix (Airtrol Geobin
Cynodon dactylon	Common bermuda	Hulled Seeds	25 lbs. de-hulled seeds	(450 lbs. per acre, 10-30-10 + 2% iron/zinc) and mul
Lolium multiflorum	Annual rygrass	Seeds	25 lbs. seeds	

Exhibit 6 Selection of Recommended Grasses and Groundcover



Annual Rye

oinder) fertilizer nulch in one mix.





BEFORE (Existing)



View Location of Planted Berm



AFTER (Removal of Shrubs at Fence)

Exhibit 7 Before and After Views of the Farrington Highway Berm





BEFORE (Existing Quarry Operations)



AFTER (Re-naturalized, regraded and planted)

Exhibit 8 Before and After Views from H-1 Toward Diamond Head Crater

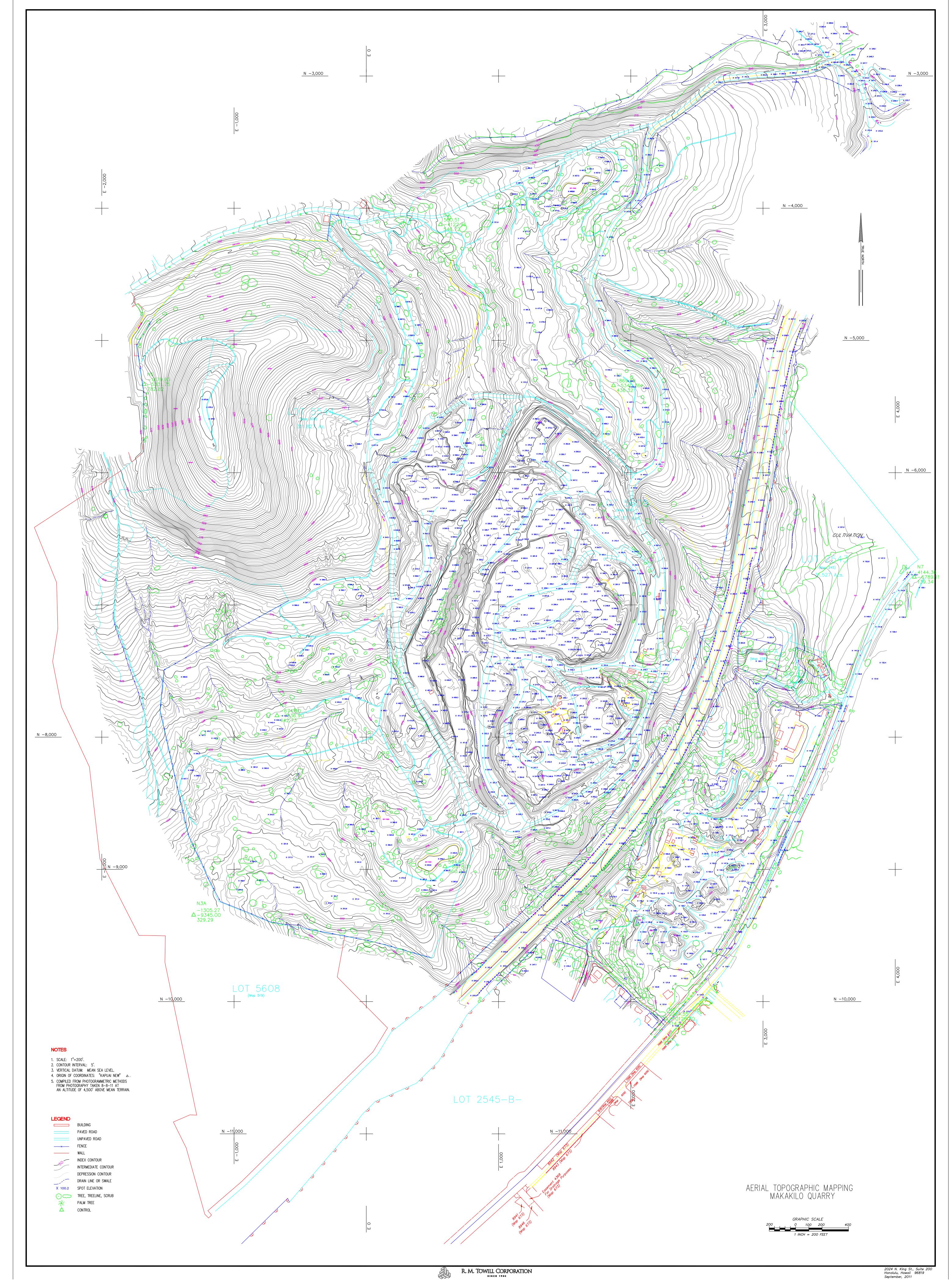


Makakilo Quarry, Hawaii

2011

APPENDIX E:

MAKAKILO QUARRY AERIAL TOPOGRAPHY DATED AUGUST 08, 2011



Makakilo Quarry, Hawaii

2011

APPENDIX F:

MAKAKILO QUARRY HOTLINE PHONE LOG

OCTOBER 01, 2010 THROUGH SEPTEMBER 30, 2011

			GRACE	E PACIFIC MAKAKILO QUARRY HOTLINE 67 PHONE LOG	HOTLINE LOG FROM OCTOBER 1, 2010 TO SEPTEMBER 30, 2011				
Date of Call	Time of Call	Last Name	First Name	Message/Description of Call	Caller's Contact Info	Investigation/ Responsible Party	Investigation/ Action Taken	Follow-up with Caller	Date Of Follow-up
None									8/4/2010

Makakilo Quarry, Hawaii

2011

APPENDIX G:

Letter from Belt Collins to DPP dated July 08, 2011 regarding Compliance with CUP Condition #4



July 8, 2011 2004-33-8000 / 11P-136

Mr. David K. Tanoue, Director Department of Planning and Permitting City and County of Honolulu 650 South King Street, 7th Floor Honolulu, HI 96813

Dear Mr. Tanoue:

Conditional Use Permit No. 2007/CUP-91 Grace Pacific Corporation 92-1130 Pueonani Street - Makakilo Tax Map Keys 9-2-3: Por 74 and 82; and 9-2-2: Por 6

On behalf of Grace Pacific Corporation, we submit for your review and approval the enclosed set of building drawings in compliance with Condition #4 of Conditional Use Permit No. 2007/CUP-91 which states:

Prior to the issuance of a building permit for any structures within and/or the relocation of any structures to the Project Site, the applicant shall submit to the Director for review and approval:

- a. A site plan showing compliance with all development standards of the Land Use Ordinance, including but not limited to, parking and loading, structure heights and setbacks, and building coverage.
- b. A water source and distribution plan approved by the Board of Water Supply. The plan shall include the disposition of the existing water source in the processing site.
- c. An outdoor lighting plan showing all existing and proposed outdoor lighting fixtures. All exterior lighting shall be fully shielded to prevent glare and light spillage on surrounding lots and public rights-of-way. Lighting for unloading of cold-planed asphalt shall be directed away from adjoining residential uses and be turned off upon completion of unloading operations.

These drawings provide the plans for equipment expansion in Makakilo Quarry. They are also for review by Mr. Keith Tamura of your staff. Mr. Tamura has made an initial review of the equipment expansion plans as part of the Applicant's building permit application process for the quarry.

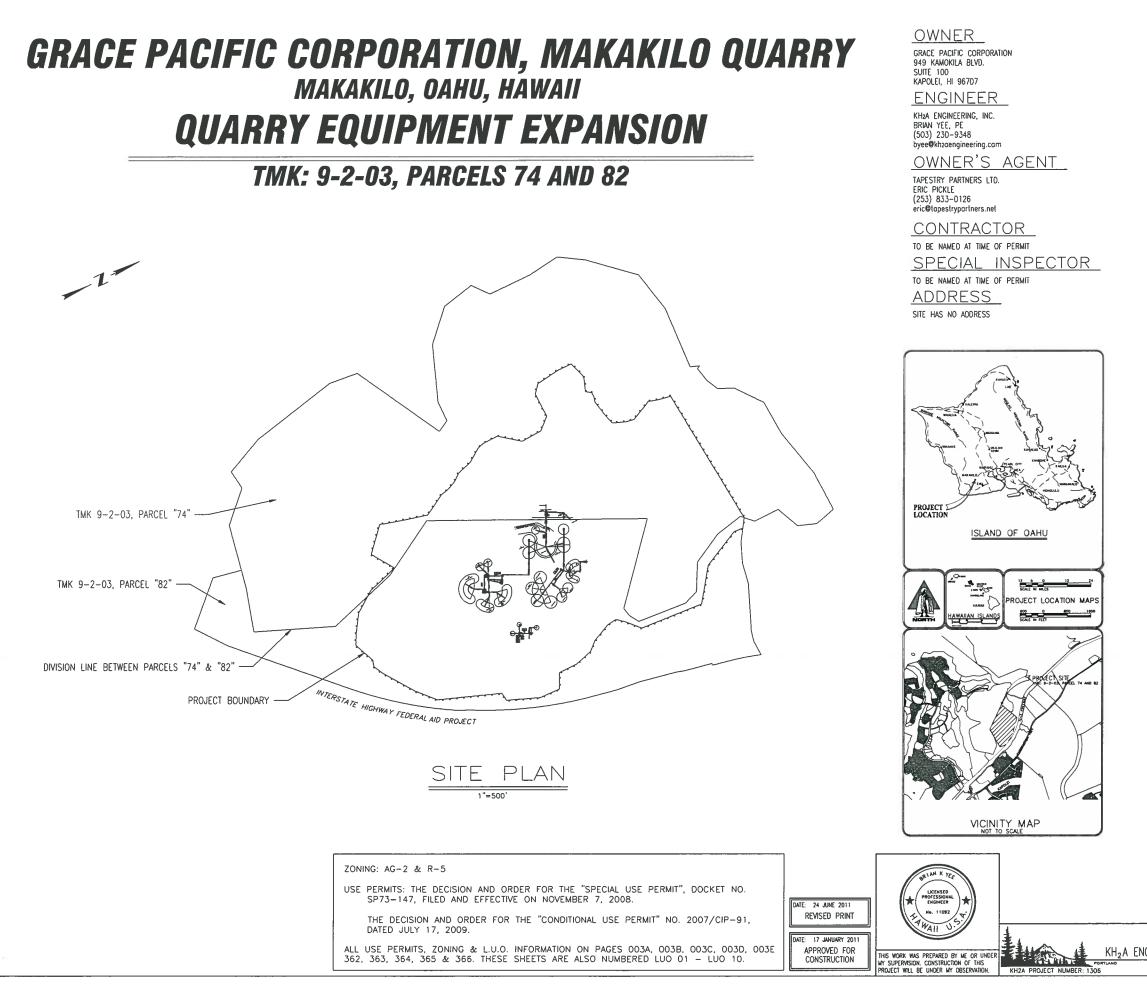
If there are any questions regarding this submittal, please do not hesitate to contact me at 521-5361.

Sincerely yours,

BELT COLLINS HAWAII LTD. Jen C. Kovama Glen T. Koyama

GTK:jdk cc: Robert Creps, Grace Pacific Corporation Enclosure

Belt Collins Hawaii Ltd. | 2153 North King Street, Suite 200 | Honolulu, HI 96819-4554 USA Tel: 808.521.5361 | Fax: 808.538.7819 | www.beltcollins.com | honolulu@beltcollins.com



	Page No. 001
CODE REVIEW SUMMARY	
IBC GENERAL OVERVIEW THIS PROJECT ADDS RDCK PROCESSING AND CONVEYING EQU LOCATED IN AN EXISTING OUTDOOR ROCK OUARRY. THE EQUI NDN-COMBUSTIBLE AND IS SUPPORTED ON STRUCTURAL STEE WILL BE SMALL OPERATOR CONTROL ROOMS AND MOTOR CON ROOMS.	PMENT IS
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CONSTRUCTION TYPE II B OCCUPANCY TYPE U HEAVY EQUIPMENT	
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ENERGY CONSERVATION CHAPTER 13 CLIMATE ZONE 1 CDNDITIONED SPACE - A SPACE WITHIN A BUILDING ENVELOP HEATED OR COOLED BY HVAC SYSTEM EXTERIOR ENVELOPE - OTHER BUILDINGS INSULATION MATERIALS FLOORS R-11 ROOFS R-19 WALLS R-13 WINDOWS <30% GLAZING FRACTION <u>40.54</u> U FACTOR <u>40.54</u> SHADING CO	1302
DOORS VAPOR RETARDER 1-PERM VAPOR RETARDER ON WARM SIDE DF ALL EXTEF FLOORS AND CEILINGS.	
HVAC SIMPLE SYSTEMS (PACKAGED UNITARY EQUIPMENT) AIRCOOLED, CONSTANT VOLUME PACKAGED UNITARY EQUIP PROVIDE HEATING AND COOLING AND REOURES ONLY EX CONNECTION TO DUCTWORK AND ENERGY SERVICES.	1317.1 PMENT. THAT 1317.9
VENTILATION NATURAL 4% OF FLOOR AREA OR 2D CFM OUTDODR AIR HVAC CONTROL PROGRAMMABLE THERMOSTAT, DOWN TO 55'F, UP TO 85'F OFF HOUR CONTROL AUTOMATIC SHUTDOWN	PER OCCUPANT 1317.4.2.1 1317.4.3 1317.4.3.1
INDIVIDUAL WASTE WATER SYSTEM	
IWS FILE NO.: 45458 (SEPTIC TANK) PLUMBING FIXTURES 6 WATER CLOSET 6 LAVATORY	
MINE SAFETY AND HEALTH ADMINI THE PROJECT SITE IS A M.S.H.A. REGULATED "CLOSED ACCESS FOR SITE MAP REFER TO THE "GENERAL NOTES" PAGE 3.	
MAKAKILO QUARRY – M.S.H.A. MINE # 51-00173 MINE IS MONITORED BY THE WESTERN DISTRICT OFFICE VACAVI 2060 PEABODY ROAD, SUITE 610 VACAVILLE, CA 95687 (707) 271-1250	ILE
	hescription Drawing
The second sec	
Aggrage	25-7160 · (503) 390-6284 · FAX (503) 390-6342
SITE PLAN	
Bigger State	CORPORATION or the preparty of Aggregate Matchiney Inc., submitted to the may memory or disclosed to may activities y retrained the written mad exclusively for inference or with on exciting to a proposals and the returned on request. All rights reserved
GINEERING INC. 함정별정 Proven By: CR	Dete: Scole: NOTED
PLOT SCALE 6000	D05475 Rev G

GENERAL NOTES

LOADING CRITERIA

ROOF LL	20.0 PSF
FLOOR LL	50.0 PSF OR 1000 LB. CONCENTRATED LL
CONVEYOR WALKWAY LL	40.0 PSF OR 300 LB. CONCENTRATED
WIND	BASIC WIND SPEED = 105 MPH 3 SECOND GUST EXPOSURE C
SEISMIC	S_s =0.6 S1=0.16 SITE CLASS B SOIL IMPORTANCE FACTOR = 1.0

GENERAL REQUIREMENTS

- ALL MATERIALS AND WORKMANSHIP SHALL CONFORM TO THE "INTERNATIONAL BUILDING CODE" ("IBC") 2003. 1.
- THE OWNER HAS APPLIED TO THE COUNTY OF HONOLULU FOR THE GENERAL BUILDING PERMIT AND WILL OBTAIN AND PAY FOR THIS PERMIT PRIOR TO ANY CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE TO OBTAIN AND PAY FOR ALL PERMITS AND BONDS AS REQUIRED FOR THE CONSTRUCTION. 2
- CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CONSTRUCTION METHODS 3. TECHNIQUES, SEQUENCING, AND SAFETY REQUIRED FOR THE CONSTRUCTION.
- ALL STAIRS, HANDRAILS, GUARDRAILS, LADDERS, RAMPS AND MECHANICAL GUARDS SHALL COMPLY WITH 29 CODE OF THE FEDERAL REGULATIONS SECTION 1910. 4
- CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND EXISTING CONDITIONS PRIOR TO BEGINNING WORK. NOTIFY ENGINEER OF ANY DISCREPANCIES BEFORE -5 BEGINNING WORK.
- A "STRUCTURAL" ELEMENT IS DEFINED AS A MEMBER, PLATE OR FASTENER ASSOCIATED WITH A COLUMN, BEAM OR DIAGONAL BRACE AS DETAILED ON THE STRUCTURAL ARRANGEMENT DRAWINGS.

SUBMITTALS

- CONTRACTOR SHALL PROVIDE TO ENGINEER PRIOR TO FABRICATION ALL SHOP DRAWINGS, PRODUCT DATA, ETC. NECESSARY FOR PERFORMANCE OF THE WORK IN THE SHOP AND AT THE SITE. SUBMIT (5) SETS OF THE FOLLOWING: 1
 - WELDING/CUTTING PERMIT INSPECTION/TESTING REPORTS REINFORCING STEEL SHOP/PLACEMENT DRAWINGS CONCRETE MIX DESIGN STRUCTURAL STEEL ERECTION DRAWINGS WELDER CERTIFICATIONS WELDING PROCEDURES EQUIPMENT CATALOG CUTSHEETS BUILDING SYSTEMS DOORS AND HARDWARE

PROJECT/SITE CONDITIONS

- CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS. IF EXISTING CONDITIONS DIFFER FROM THOSE SHOWN, THE ENGINEER SHALL BE NOTIFIED PRIOR TO CONTINUANCE OF THE WORK. 1.
- CONTRACTOR SHALL BE RESPONSIBLE TO WORK AROUND ALL OBSTRUCTIONS DURING THE INSTALLATION OF NEW MATERIALS. 2.

TEMPORARY CONSTRUCTION FACILITIES

- CONTRACTOR SHALL BE RESPONSIBLE FOR DESIGN AND CONSTRUCTION OF ALL TEMPORARY SHORING, BRACING, ETC. REQUIRED FOR THE CONSTRUCTION.
- ALL SHORING PLANS, BRACING DESIGNS AND CALCULATIONS SHALL BE STAMPED BY A REGISTERED STRUCTURAL ENGINEER LICENSED IN THE STATE OF HAWAII. SUBMIT (5) SETS OF SHORING PLANS AND CALCULATIONS.

FIRE PREVENTION AND PROTECTION

- CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE STATE AND LOCAL FIRE-PREVENTION REGULATIONS AND ORDINANCES. WHERE THESE REGULATIONS DO NOT APPLY, APPLICABLE PARTS OF NFPA NO. 241 "STANDARD FOR SAFEGUARDING OF BUILDING CONSTRUCTION, ALTERATION AND DEMOLITION OPERATIONS" SHALL BE FOLLOWED.
- CUTTING AND WELDING SAFETY PROCEDURES SHALL BE IN ACCORDANCE WITH NFPA NO. 51B "STANDARD FOR FIRE PREVENTION IN USE OF CUTTING OR WELDING OPERATIONS". PRIOR TO ANY CUTTING OR WELDING, A CUTTING/WELDING PERMIT SHALL BE OBTAINED EACH DAY FOR EACH CUTTING/WELDING OPERATION FROM THE OWNER'S REPRESENTATIVE RESPONSIBLE FOR AUTHORIZING CUTTING OR WELDING 2. OPERATIONS. CUTTING OR WELDING WITHOUT A PERMIT SHALL NOT BE PERMITTED.

INSPECTION AND TESTING

1. SPECIAL INSPECTIONS SHALL CONFORM TO SECTION 1704 OF THE "IBC" 2003.

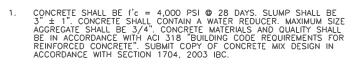
REINFORCING STEEL PLACEMENT CONCRETE PLACEMENT HIGH STRENGTH BOLTS SHOP WELDING FIELD WELDING BOLTS INSTALLED IN CONCRETE STRUCTURAL MASONRY

- ALL INSPECTIONS AND TESTING WITH RELATED SAMPLING, WHETHER REQUIRED BY THE CONSTRUCTION DOCUMENTS OR BY THE GOVERNING BUILDING CODE SHALL BE PERFORMED BY AN INDEPENDENT TESTING AGENCY MEETING THE REQUIREMENTS OF ASTM E329. THE OWNER SHALL SECURE AND PAY FOR THE SERVICES OF THE INDEPENDENT TESTING AGENCY TO PERFORM ALL INSPECTIONS AND TESTS. SUBMIT COPY OF INSPECTION/TEST REPORTS TO THE ENGINEER. CONTRACTOR TO NOTIFY SPECIAL INSPECTOR WHEN INSPECTIONS ARE REQUIRED. 2. 2. 4. 5. STRUCTURAL STEEL/METAL FABRICATIONS 1A. STRUCTURAL STEEL STEEL WIDE FLANGE SHAPES SHALL BE ASTM A992 RECTANGULAR AND SQUARE HSS SHAPES SHALL BE ASTM A500 GRADE B, FY=46KSI, GALVANIZED. GROUT FY=46KSI, GALVANIZED. STRUCTURAL STEEL PLATES SHALL BE ASTM A572 GRADE 50. STEEL PIPE SHALL BE ASTM A53 GRADE B, FY=35 KSI, GALVANIZED. 1B. NON-STRUCTURAL, SECONDARY STEEL: SECONDARY, NON-STRUCTURAL STEEL PLATES SHALL BE ASTM A36 MINIMUM. ANGLES, CHANNEL AND BAR SHALL BE ASTM A36 MINIMUM. STEEL WIDE FLANGE SHAPES SHALL BE ASTM A36 MINIMUM. RECTANGULAR AND SQUARE HSS SHAPES SHALL BE ASTM A500 GRADE B GALV. PAINTING STEEL PIPE SHALL BE ASTM A53 GRADE B, FY=35 KSI, GALVANIZED. FLOOR PLATES: ASTM A36 RAISED (MEDIUM) PATTERN. THICKNESS IS EXCLUSIVE OF RAISED PATTERN HEIGHT. SEE PAINTING NOTES FOR COATING SYSTEM. STAIR TREADS SHALL BE ANSI MBG 531 GALVANIZED GRIP STRUT AS NOTED ON PLANS. GRATING GRIP STRUT TO BE CONNECTED TO SUPPORTING MEMBERS WITH BENT-CLIP & GALVANIZED TEKS SCREWS FASTENERS OR WELDED. PROVIDE FASTENERS @ 18" O.C. WITH 2 MIN. PER PANEL. SUBMIT CLIP DETAILS WITH 3. 2. SHOP DETAILS. FABRICATION AND ERECTION SHALL BE IN ACCORDANCE WITH AISC "SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS" AND AISC "CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES". 4. 3. 5A. FASTENERS - STRUCTURAL FASTENERS – STRUCTURAL BOLTS SHALL BE ASTM A325. HIGH STRENGTH HIGH STRENGTH, STRUCTURAL BOLTS SHALL BE ASTM A325. HIGH STRENGTH BOLTING SHALL BE IN ACCORDANCE WITH AISC "SPECIFICATION FOR STRUCTURAL JOINTS USING ASTM A325 OR A490 BOLTS". TIGHTENED BOLTS TO BE FULLY PRETENSIONED IN ACCORDANCE WITH SECTION 8 OF THIS AISC CODE. BOLTS SHALL BE HOT DIP GALVANIZED. 5B. FASTENERS – NON–STRUCTURAL NON–HIGH STRENGTH, NON–STRUCTURAL FASTENERS SHALL BE ASTM A307 GRADE A ZINC PLATED OR HOT DIP GALVANIZED. 5.
- ALL WELDING SHALL BE IN ACCORDANCE WITH AWS D1.1 "STRUCTURAL WELDING CODE-STEEL". WELDING FILLER METAL SHALL BE AWS A5.1 OR A5.5 E70XX ELECTRODES, AWS A5.18 ER70S-X, OR AWS A5.20 E7XXX LOW HYDROGEN TYPE. WELDERS SHALL BE AWS AND COUNTY OF HONOLULU CERTIFIED. AWS AND COUNTY OF HONOLULU CERTIFIED. SUBMIT COPY OF ALL PROCEDURE QUALIFICATIONS AND WELDER CERTIFICATIONS DRIVE TO ANY WELDENC 6. PRIOR TO ANY WEIDING
- SURFACES TO BE WELDED SHALL BE PROTECTED FROM PAINTING BY USE OF MASKING. INADVERTENT OVER-SPRAY ON SURFACES TO BE WELDED SHALL BE REMOVED BY WIRE BRUSHING. 7.
- ANCHOR BOLTS SHALL BE ASTM F1554 GRADE 36 & 105 BOLTS, HOT DIP GALVANIZED. FOR DIAMETERS AND LENGTHS SEE PLANS. 8.

REINFORCING STEEL

- 1. REINFORCING STEEL SHALL BE ASTM A615 GRADE 60 DEFORMED BARS.
- 2. WELDED WIRE FABRIC (WWF) SHALL BE ASTM A185 AND GALVANIZED.
- FABRICATION AND PLACEMENT OF REINFORCING STEEL SHALL BE IN ACCORDANCE WITH CRSI MSP-1 "MANUAL OF STANDARD PRACTICE" AND CHAPTER 5 OF ACI 301 "SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS". 3.
- REINFORCING STEEL LAP SPLICES NOT OTHERWISE INDICATED SHALL BE ACI STANDARD CLASS B IF SPLICED AT THE SAME LOCATION OR CLASS A IF SPLICES ARE STAGGERED BETWEEN ADJACENT BARS ONE LAP LENGTH 4.
- UNLESS OTHERWISE INDICATED, MINIMUM CLEARANCE FOR REINFORCING STEEL SHALL BE 1" FOR #5 AND SMALLER BARS AND 1-1/2" FOR #6 AND LARGER BARS. INSTALL WITH PROPER BAR SUPPORTS PRIOR TO CONCRETE PLACEMENT. MINIMUM CONCRETE COVER OVER BARS AGAINST 5. EARTH SHALL BE 3".

CONCRETE



DATE: 10 JUNE 2011 REVISED PRINT ATE: 04 FEBRUARY 201 THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION. CONSTRUCTION OF THIS PROJECT WILL BE UNDER MY OBSERVATION. KH2A PROJECT NUMBER APPROVED FOR KH₂A CONSTRUCTION KH2A PROJECT NUMBER: 1306

- TRANSPORTI ASTM C94 " CONCRETE F 301 "SPECIF
- 3. EXTERIOR SL
- PROVIDE 3/
- STRENGTH T (4) - 6" x OR FRACTION

- 1. GROUT TO E MASTER BUI
- 2. INSTALL IN

1. STRUCTURAL FOLLOWING

> SURFA COAT COLOF

- HANDRAILS GUARD FEN SHALL BE S
- INTERMEDIAT SURFACES PREPARE S MANUFACTU
- 4. PAINT SHALL OF SSPC PA MANUFACTUR PAINTING O DONE IN AC
- SURFACE PR MANUFACTUR STRUCTURAL FIELD TOUC

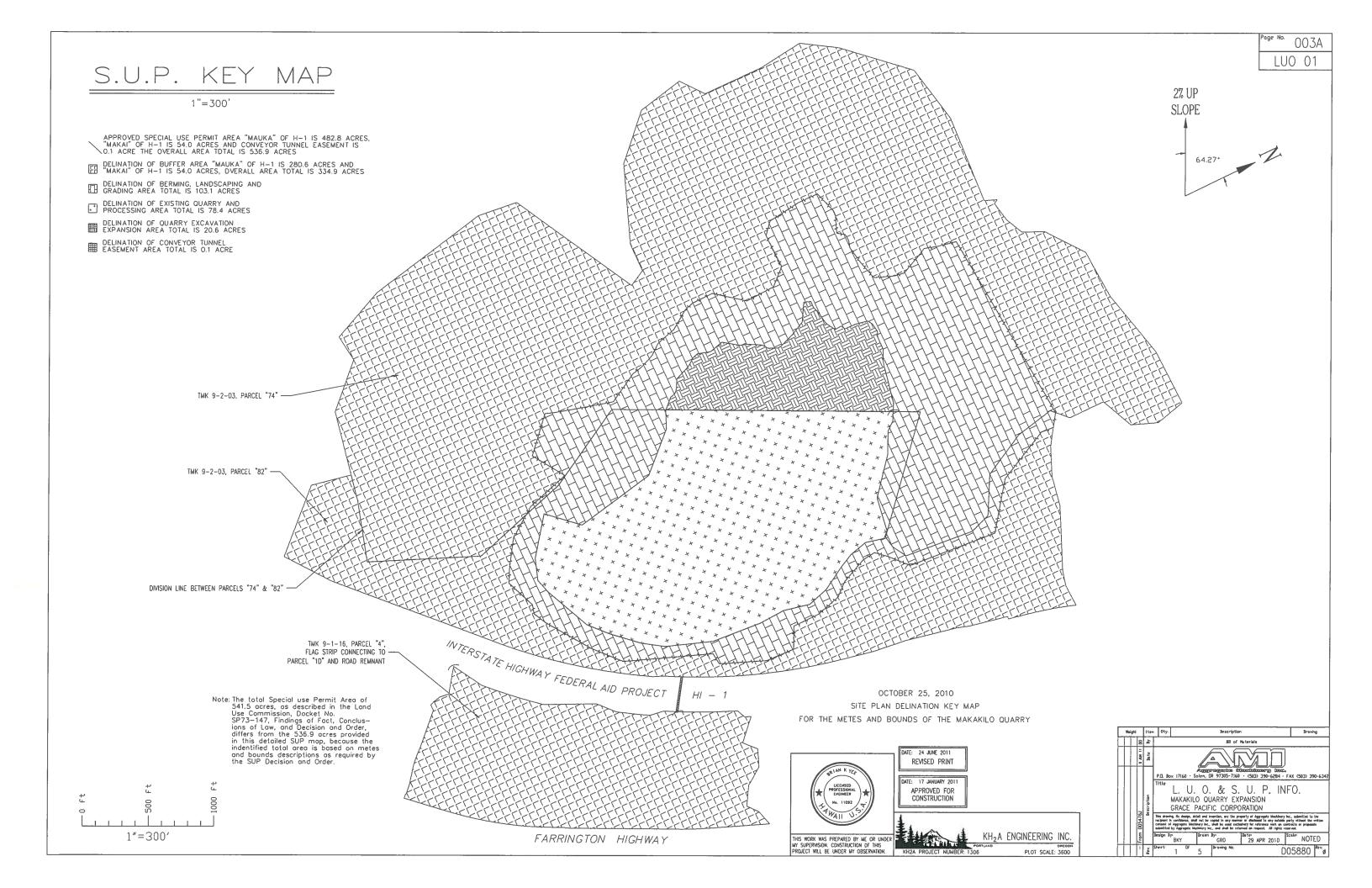
FOUNDATIONS

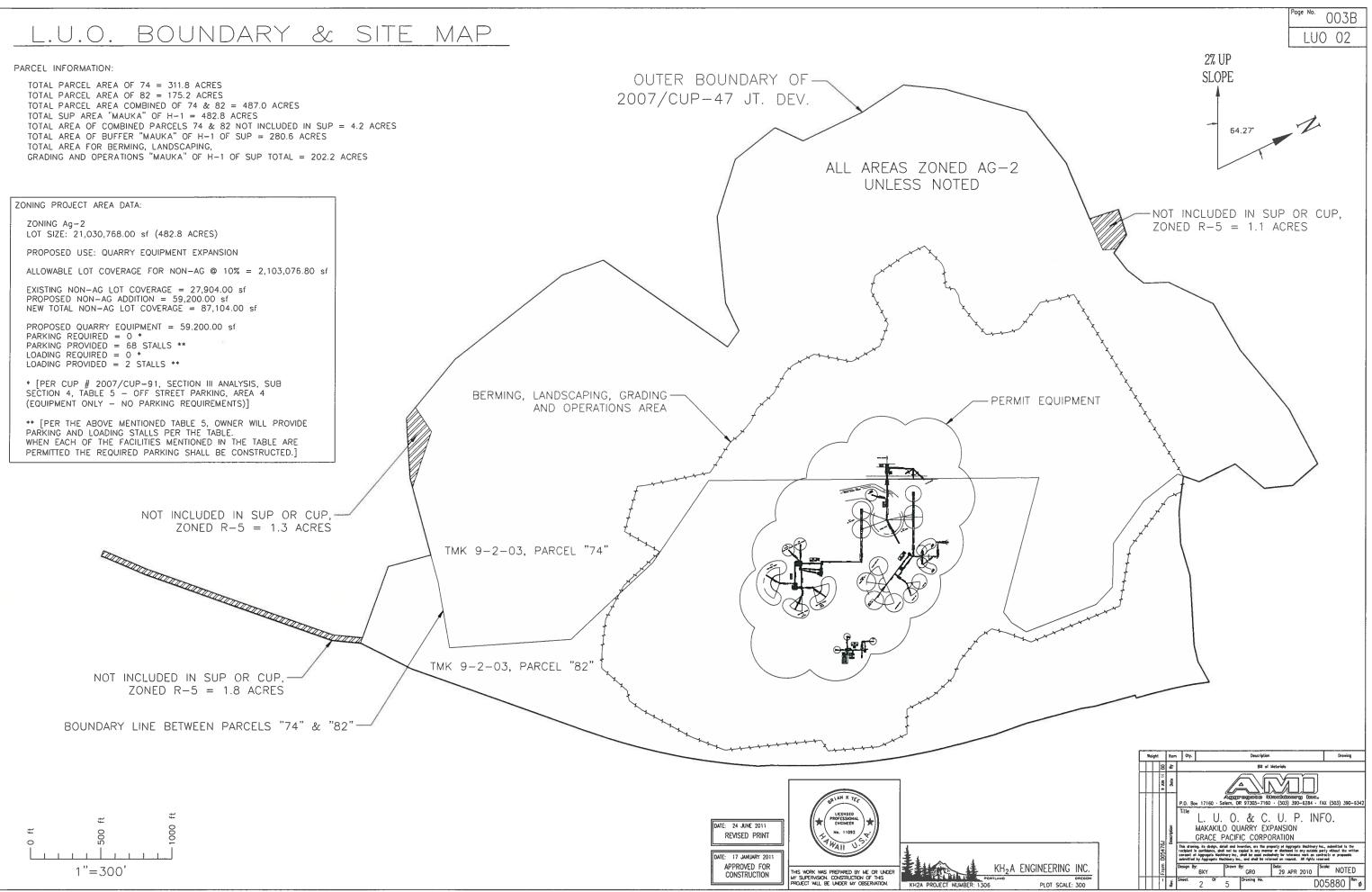
- ALLOWABLE 1. INCREASE FO
- ALL FOOTING 2.
- FOUNDATION 3. DATED 10/2
- RECLAIM FEE 4.
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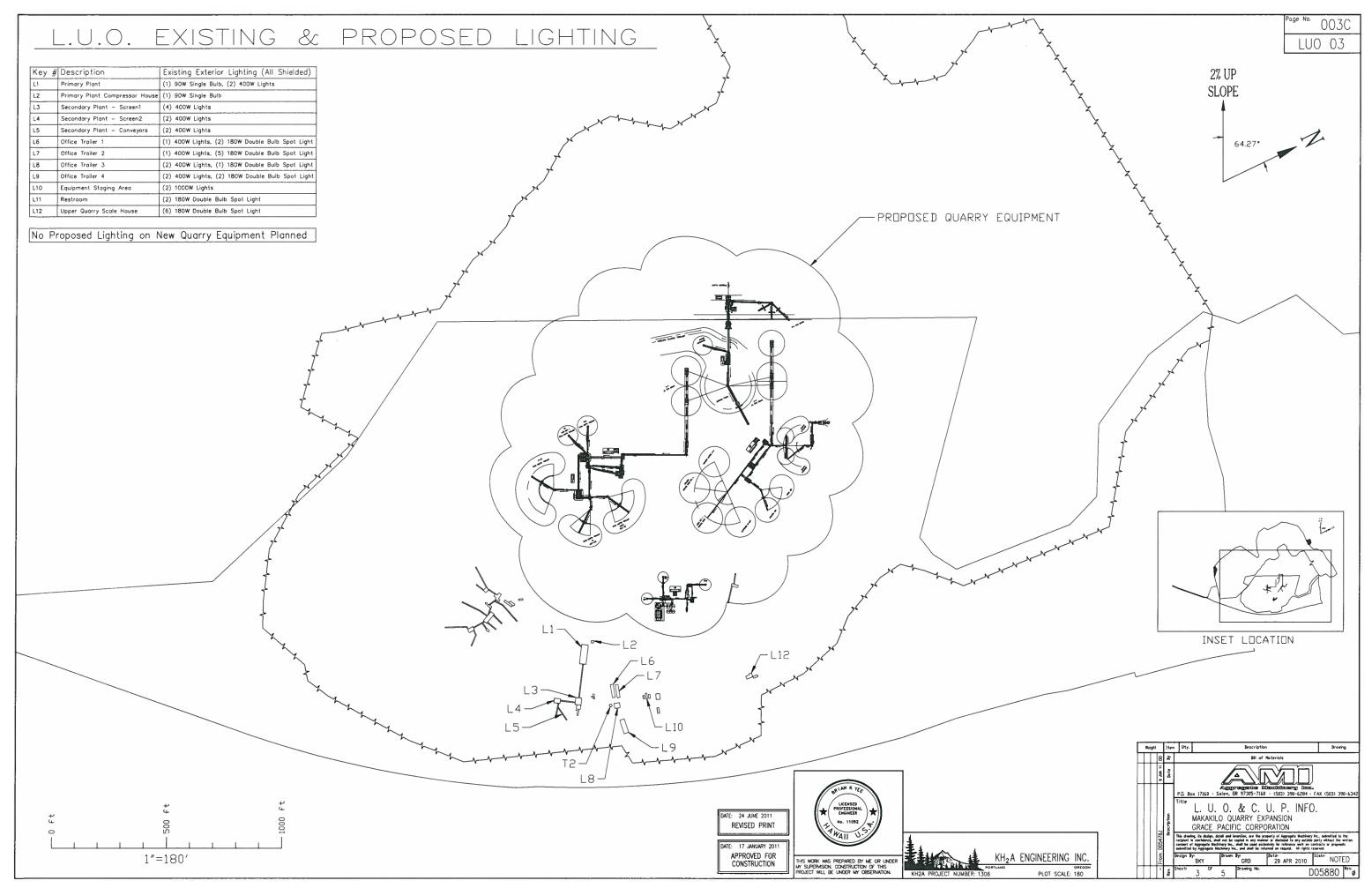
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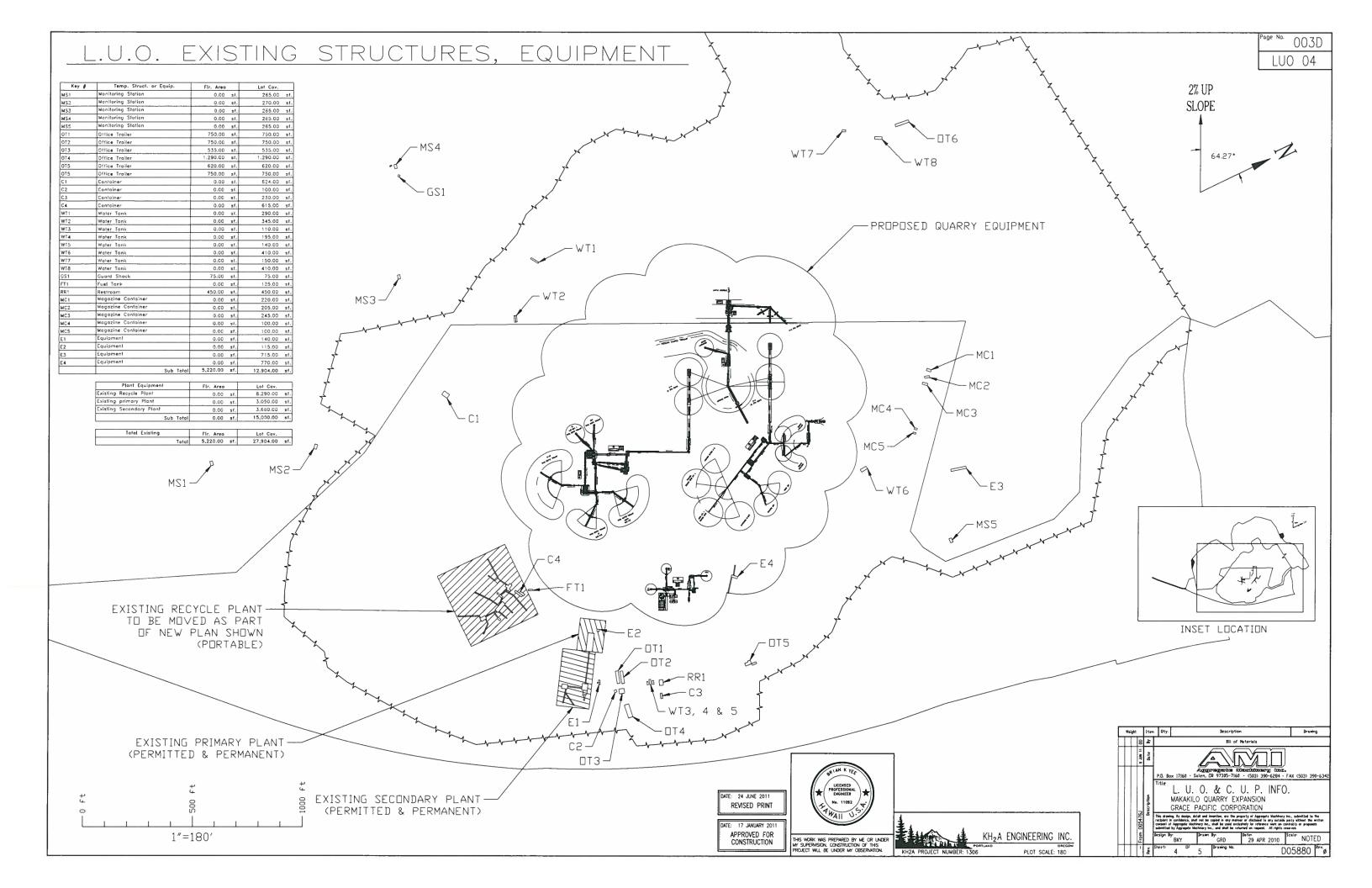
- SITE PREPARAT
- AREAS TO R 1 MOISTURE CO ASTM D 155
- FILL MATERIA 2. BASALT, WEL THAN 3 INCI PERCENT PA HAVE CAR ASTM D 188
- 3. THE SELECT OPTIMUM PL COMPACTED WITH SHEEF ACCEPTABLE
- FOUNDATION 4. COMPACTION TO FIRM SO BACK FILLED

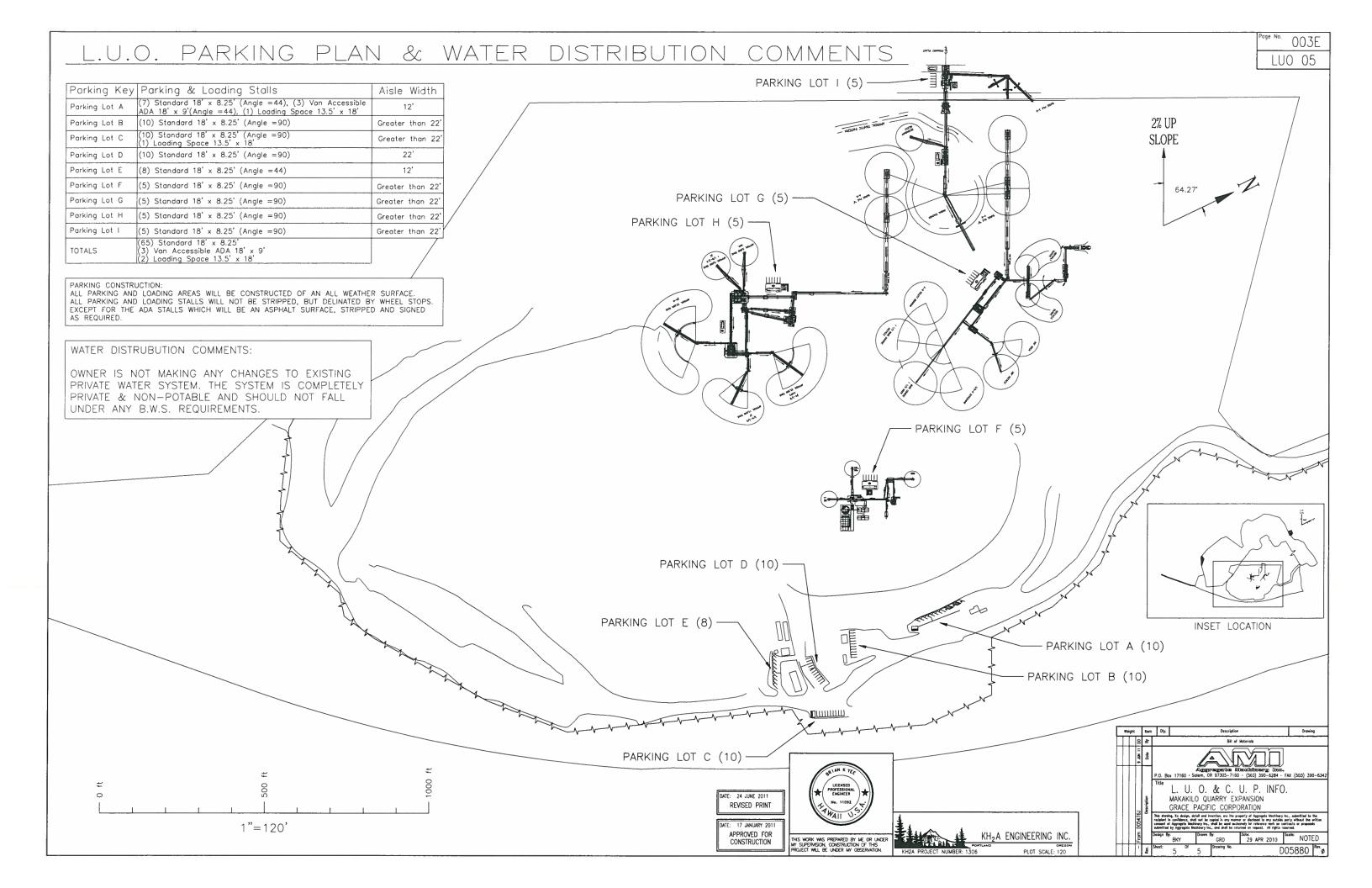
	rage No	002
NG OF READY-MIX CONCRETE SHALL BE IN ACCORDANCE WITH STANDARD SPECIFICATION FOR READY-MIX CONCRETE" AND PLACEMENT AND CURING SHALL BE IN ACCORDANCE WITH ACI TICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS".		
AB FINISH SHALL BE BROOM FINISH.		
4" CHAMFER @ ALL CORNERS.		
ESTING OF CONCRETE SHALL BE IN ACCORDANCE WITH ACI 301 ONS FOR STRUCTURAL CONCRETE FOR BUILDINGS". A SET OF 12" CYLINDERS SHALL BE MADE FOR EACH 50 CUBIC YARDS N THEREOF OF CONCRETE PLACED EACH DAY.		
BE MASTERFLOW 555 NON-SHRINK GROUT AS MANUFACTURED BY LDERS TECHNOLOGIES.		
ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.		
STEEL AND EQUIPMENT SHALL BE PAINTED WITH THE SYSTEM:		
CE PREPARATION: SSPC-SP3 POWER TOOL CLEANING PRIMER - FORREST 16P300X RED OXIDE PRIMER, OR EQUAL. INTERMEDIATE OPCOATS - FORREST OUIXNAMEL INDUSTRIAL ENAMEL 100, RAL #3005 WINE RED, 2.0-2.5 MILS DFT, OR EQUAL.		
GUARDRAILS, DRIVE GUARDS, TAIL PULLEY GUARDING, TAKE-UP CES, TAKE-UP WEIGHT BOXES, AND SCISSOR TAKE-UP WEIGHTS IAFETY YELLOW.		
E AND FINISH COATS NOT TO BE INCLUDED ON THE FAYING DF ANY CONNECTION DESIGNATED TO BE SLIP CRITICAL. JRFACE AND APPLY IN STRICT ACCORDANCE WITH RER'S RECOMMENDATIONS. ALL PAINT TO BE SHOP APPLIED.		
. BE APPLIED IN ACCORDANCE WITH THE APPLICABLE PARTS 11 "SHOP, FIELD, AND MAINTENANCE PAINTING" AND THE RER'S LABELED INSTRUCTIONS AND SPECIFICATIONS. TOUCH-UP DAMAGED AREAS AS A RESULT OF THIS PROJECT SHALL BE CORDANCE WITH SECTION 9.3 OF SSPC PA-1.		
EPARATION SHALL BE IN ACCORDANCE WITH THE PAINT VERS LABELED INSTRUCTIONS AND SPECIFICATIONS EXCEPT STEEL SURFACE PREPARATION SHALL BE SSPC SP3, AND 1-UP SHALL BE SSPC-SP3.		
SOIL BEARING PRESSURE SHALL BE 6000 PSF, WITH 1/3 OR WIND AND SEISMIC. IS HAVE BEEN DESIGNED TO BEAR ON UNDISTURBED SOILS		
RED FILLS AT DEPTHS INDICATED.		
S WERE DESIGNED PER GEOLABS, INC. SOILS REPORT, 8/2010.		
EDER HOUSES WERE DESIGNED USING PRESSURES PER SHAW REPORT DATED APRIL 14, 2010.		
SOILS REPORT SHALL BE MADE AVAILABLE TO COUNTY OF SOILS REPORT SHALL INCLUDE SEISMIC SITE CLASS.		
ION		
ECEIVE FILL SHALL BE SCARIFIED TO A DEPTH OF 8 INCHES, ONDITIONED TO AT LEAST 2 PERCENT ABOVE OPTIMUM MOISTURE TED TO AT LEAST 95 PERCENT RELATIVE COMPACTION PER 7.		
ALS SHALL BE SELECT GRANULAR NON-EXPANSIVE CRUSHED L GRADED FROM COARSE TO FINE WITH PARTICLES NO LESS HES MAXIMUM DIMENSION. FILL SHALL CONTAIN 10 TO 30 SSING 200 MESH. SIEVE BY WEIGHT. FILL MATERIAL SHALL F 20 OR HIGHER AND SWELL LESS THAN 1 PERCENT PER 3.		
GRANULAR FILL SHALL BE MOISTURE-CONDITIONED ABOVE ACED IN LEVEL LIFTS NOT EXCEEDING 8 INCHES LOOSE AND TO A MINIMUM OF 95 PERCENT OF MAXIMUM DRY DENSITY SFOOT ROLLERS, VIBRATORY ROLLERS, OR OTHER TYPES OF COMPACTION EQUIPMENT.		
EXCAVATIONS SHALL BE RECOMPACTED TO 95% RELATIVE SOFT OR LOOSE MATERIALS SHALL BE OVER EXCAVATED LS BELOW AND SELECT GRANULAR MATERIALS SHALL BE TO 95% RELATIVE COMPACTION.		
Weight Iten Oty. Description		Draving
81 박명 명 년 과 = = = = = = = = = = = = = = = = = = =		
	J90-6284 · FAX	1503> 390~6342
IST L 방방문 MAKAKILO QUARRY EXPANSI		
recipient in confidence, shall not be capital in any service or declar		submitted to the others the written to or proceeds
ENGINEERING INC.	VPR 2010	" FULL
PLOT SCALE: 1 OF Draving No.		476 ^{Rev} K

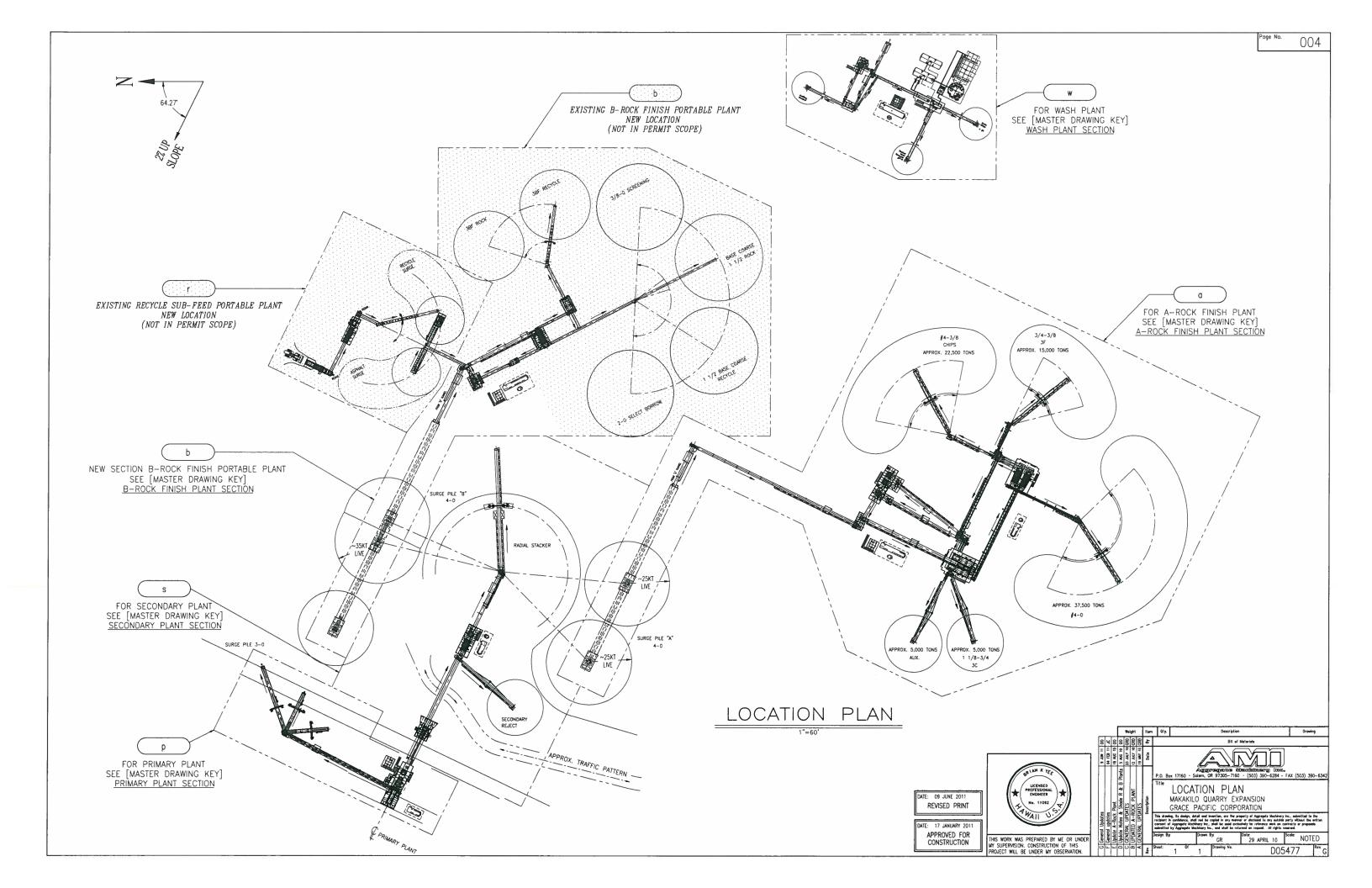






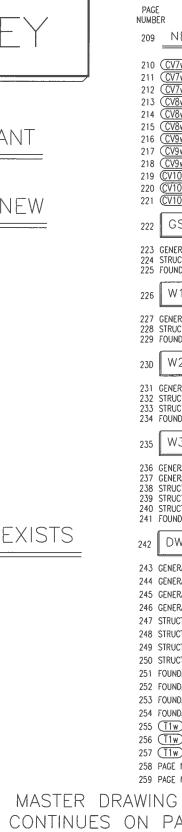






		Page No. 005
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002 GENERAL NOTES	PAGE	088 CV170 STRUCTURAL ARRANGEMENT
0030 L. U. O. & C. U. P. INFO LUO D3] 005880 SHT. 3 OF 5 003D L. U. O. & C. U. P. INFO	NUMBER	090 CV180 STRUCTURAL ARRANGEMENT
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005 MASTER DRAWING KEY	AND PRIMARY PLANT CONTROL FOUNDATIONS	094 CV2005 STRUCTURAL ARRANGEMENT
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	039 MAJOR CONVEYORS	098 CV220) STRUCTURAL ARRANGEMENT
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		Image: Second
	080 CV80 STRUCTURAL ARRANGEMENT	
EXISTING A-ROCK FINISH PLANT	082 CV90 STRUCTURAL ARRANGEMENT	P.0. Box 17160 · Solem, 0R 97305-7160 · (503) 390-6284 · FAX (503) 190-6342
B-ROCK NEW		TE: 24 JUNE 2011 (★ (PROFESSIONAL BEGINEER)★)
P PRIMARY PLANT		REVISED PRINT
KEY PLAN	KH2A ENGINEERING INC.	APPROVED FOR CONSTRUCTION THIS WORK WAS PREPARED BY ME OR UNDER La 문화되는 Design By: Drawn By: Dodr: 4 AUGUST 2010 Scole: NONE
	KHZA PROJECT NUMBER: 1306 PLOT SCALE: 360	PROJECT WILL BE UNDER MY OBSERVATION

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$(\gamma - f_{P} - \gamma))$	343 (EM2g) A-ROCK FINISH PLANT MCC ROOM DD5512 SHT. 6 OF 11
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r RECYCLE SUB-FEED PLANT EXISTING

B-ROCK NEW

PRIMARY PLANT

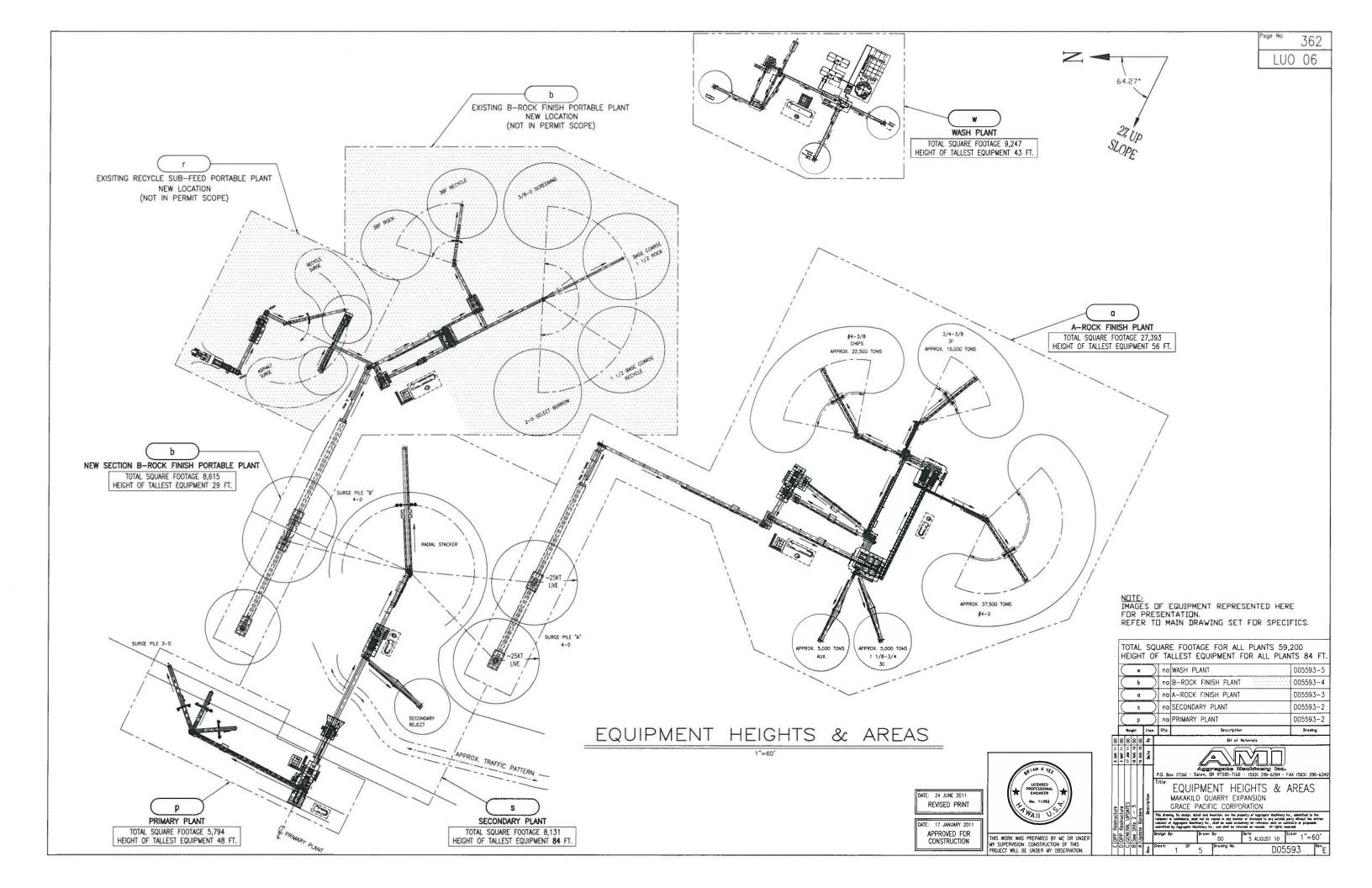
a A-ROCK FINISH PLANT

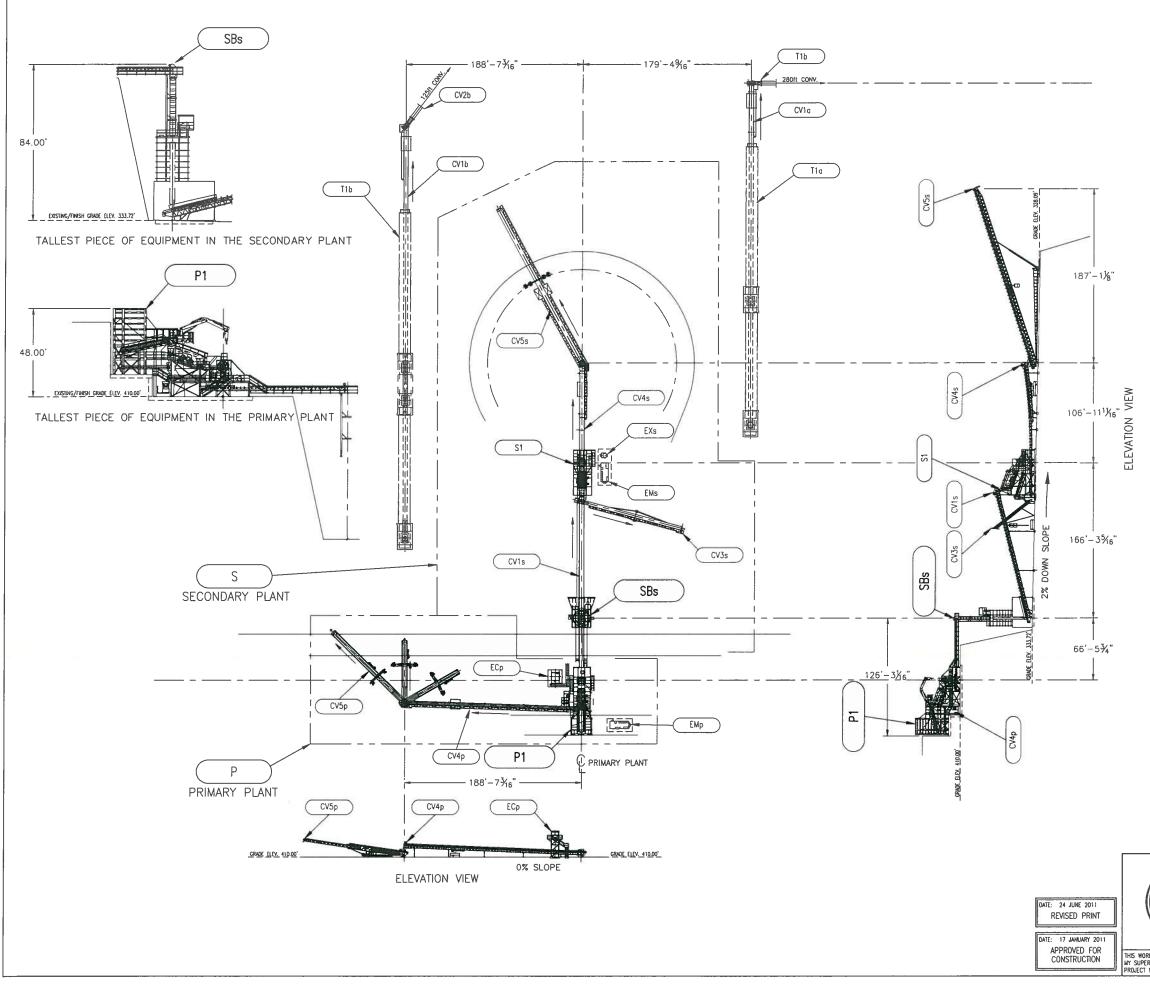
SECONDARY PLANT

KEY PLAN

DATE: 24 JUNE 2011 REVISED PRINT DATE: 17 JANUARY 2011 APPROVED FOR CONSTRUCTION KH2A ENGINEERING INC. THIS WO MY SUPE PROJECT TRANT PLOT SCALE: 360

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EMP 1 PRIMARY MOTOR CONTROL CENTER								TOR CONTROL CENTER	10ft	422.00'	384sf		
CV5p 1B-ROCK RADIAL TELE-STOCKOUT CONV. 16ft										410.00'	1,395sf		
	$\left[\right]$	CV4p	\mathcal{T}	1	В	-R	OCł	<	RE	JECT TRANSFER CONVEYOR	17ft	410.00	1,249sf
	$\left(\right)$	P1	\mathcal{T}	1	P	RIM	AR'	Y	ST/	ATION	48ft	410.00'	2,260sf
						HEI	GH.	TS	D	ETERMINED AT ITEM STRAIGH	T DOWN	TO NEARES	T GRADE
		Idenlifier		Qty.					_	Description	Height	Grade	Arec
							_	_		Legend			
PEGESSION HAN K YEC PEGESSION HAN KINS TREPARED BY					6 AU 11	CENERAL UPDATES 12 MM 11 D0	11 YOC 10	C9 MIC 10	Description Dete By	P.O. Box 17160 - Solarn, OR 97305-717 Title EQUIPMENT H PRIMARY & SECONDA GRACE PACIFIC CORP Design By: Design By: Design By: Design By: Design By: Design Control (Control) Design By: Design Control (Control) Design Control (Control) Control (Cont	50 · (503) 390 EIGHTS ARY PLANT PORATION property al Appropriation property al Appropriation pro	e Mechinery Inc., and my entaile party wi all rights reserved. Scole:	EAS
PERVISION. CONSTRUCTION CT WILL BE UNDER MY O				ľ	-		8		Rev.	Sheet: Of Drawing No.		D05	593 ^{ev} e

1 SURGE RADIAL STACKING CONVEYOR	71ft	328.09'	3,207sf
1 UNDERCONE /SURGE RAD FEED CONV.	19ft	329.75'	722sf
1 STOCKOUT CONVEYOR (3/8 REJECT)	46ft	333.64'	893sf
1 SECONDARY CRUSH'G / SCREENING STA.	46ft	331.64'	1,234sf
1 SECONDARY SCALPER FEED CONVEYOR	46ft	333.72'	796sf
1 SECONDARY SURGE BIN	84ft	333.72'	725sf
	1 UNDERCONE /SURGE RAD FEED CONV. 1 STOCKOUT CONVEYOR (3/8 REJECT) 1 SECONDARY CRUSH'G / SCREENING STA. 1 SECONDARY SCALPER FEED CONVEYOR	1 UNDERCONE /SURGE RAD FEED CONV. 19ft 1 STOCKOUT CONVEYOR (3/8 REJECT) 46ft 1 SECONDARY CRUSH'G / SCREENING STA. 46ft 1 SECONDARY SCALPER FEED CONVEYOR 46ft	1 UNDERCONE /SURGE RAD FEED CONV. 19ft 329.75' 1 STOCKOUT CONVEYOR (3/8 REJECT) 46ft 333.64' 1 SECONDARY CRUSH'G / SCREENING STA. 46ft 331.64' 1 SECONDARY SCALPER FEED CONVEYOR 46ft 333.72'

PRIMARY PLANT TOTAL SQUARE FOOTAGE 5,794 PRIMARY PLANT HEIGHT OF TALLEST EQUIPMENT 48 FT.

29ft 410.00' 506sf

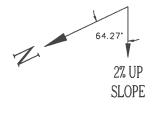
ECP 1 PRIMARY CONTROL HOUSE

ſ	SECOND	ARY	PLANT TOTAL SQUARE FOO	TAGE 8	,131				
	SECONDARY PLANT HEIGHT OF TALLEST EQUIPMENT 84 FT.								
	EMs		SECONDARY MOTOR CONTROL CENTER	11ft	331.65'	340sf			
	EXs		1 SECONDARY TRANSFORMER, 2000KVA	8ft	331.65'	214sf			

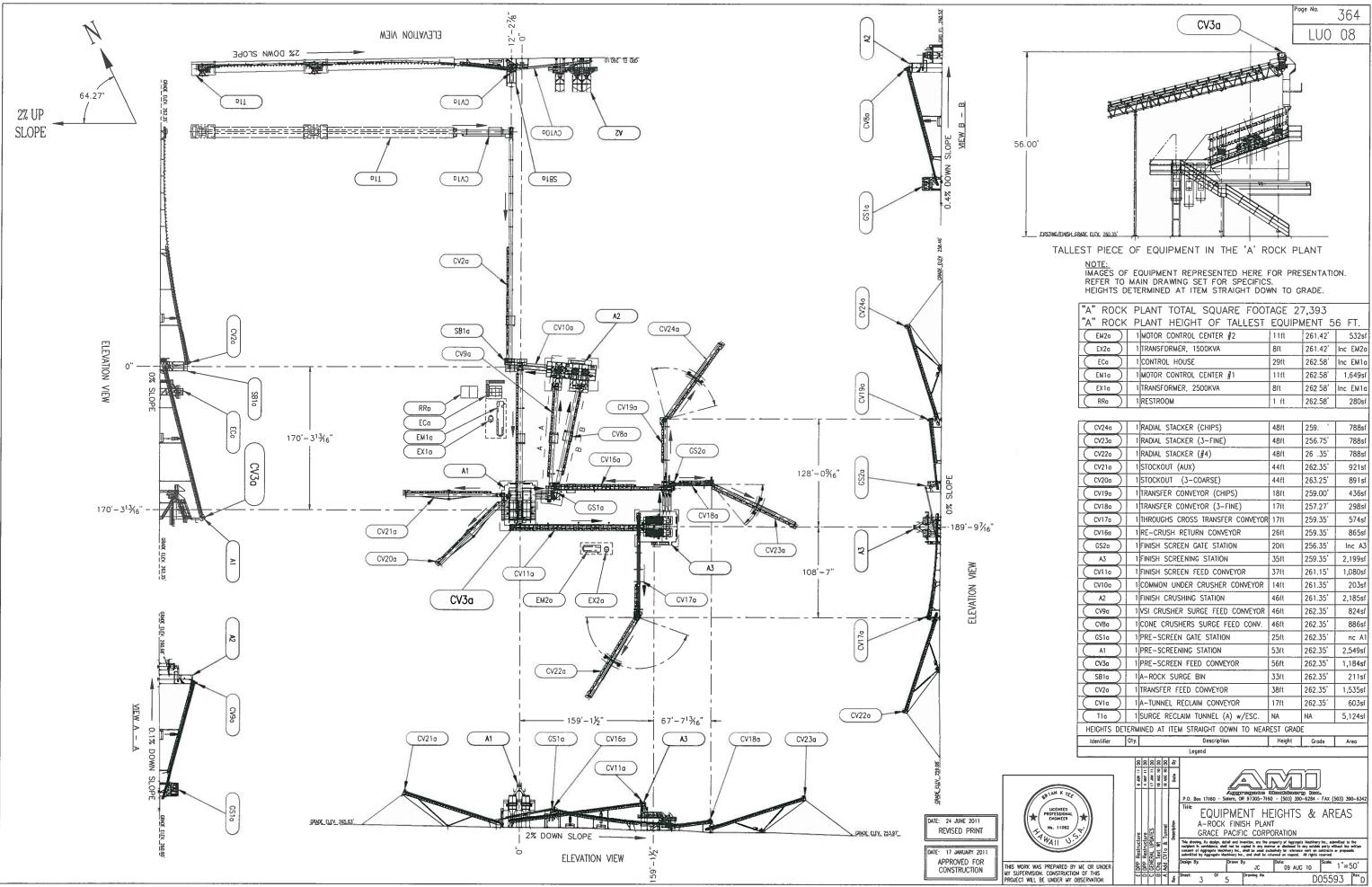
\square	CV2a	ref	TRANSFER FEED CONVEYOR (A)	2 AWAING OF 5
\square	CV1a)	ref	TUNNEL RECLAIM CONVEYOR (A)	SEE 05593 5h 364
\Box	T1a)	ref	SURGE RECLAIM TUNNEL (A) w/ESC.	PAGE

$\left[\right]$	CV2b)	ref	PRE-SCREEN FEED CONVEYOR (B)	CAWING of 5
Γ	CV1b	ref	TUNNEL RECLAIM CONVEYOR (B)	SEE 05593 55 365
Γ	T10)	ref	SURGE RECLAIM TUNNEL (B) w/ESC.	PAGE Nº

NOTE: IMAGES OF EQUIPMENT REPRESENTED HERE FOR PRESENTATION. REFER TO MAIN DRAWING SET FOR SPECIFICS. HEIGHTS DETERMINED AT ITEM STRAIGHT DOWN TO GRADE.

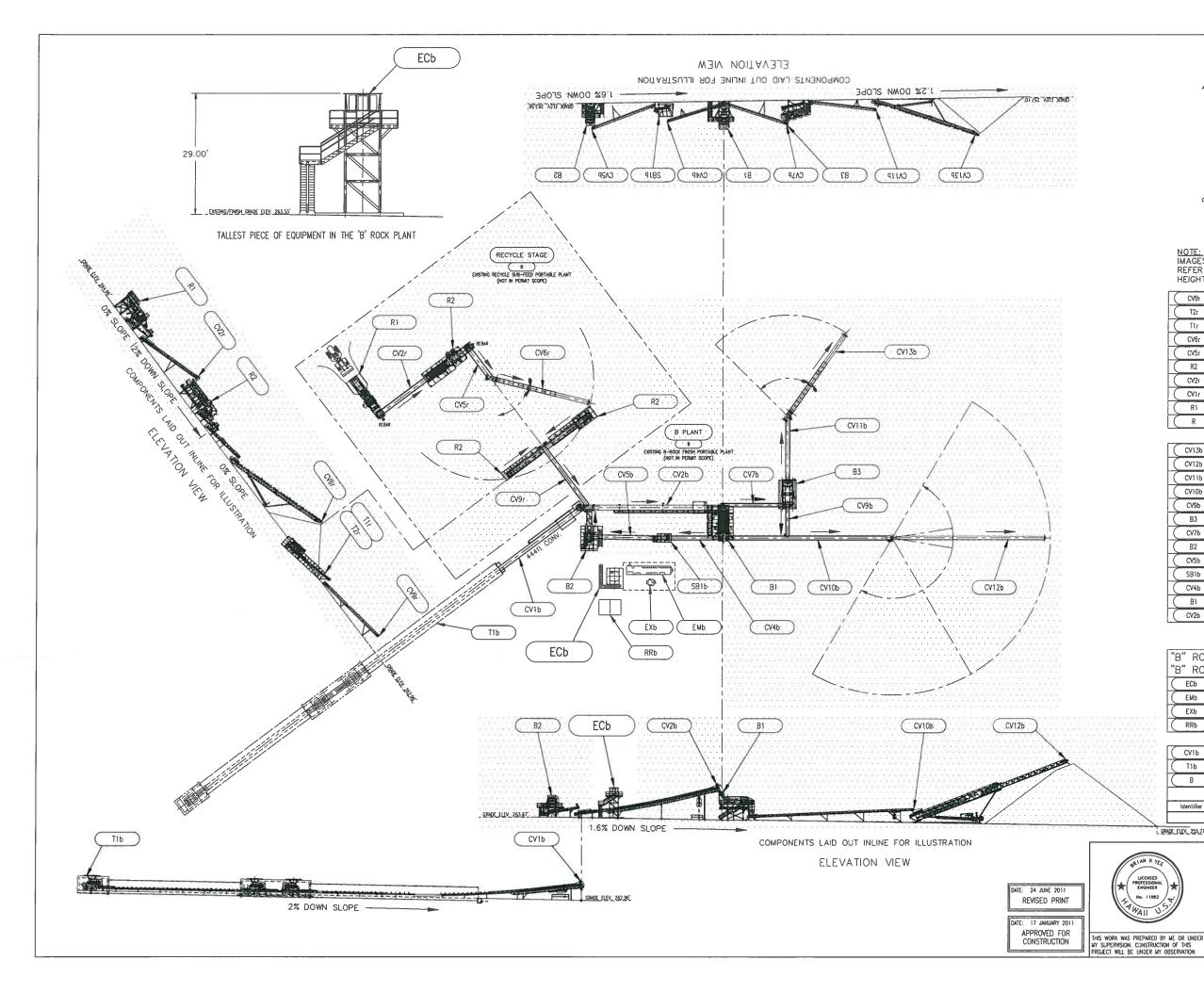


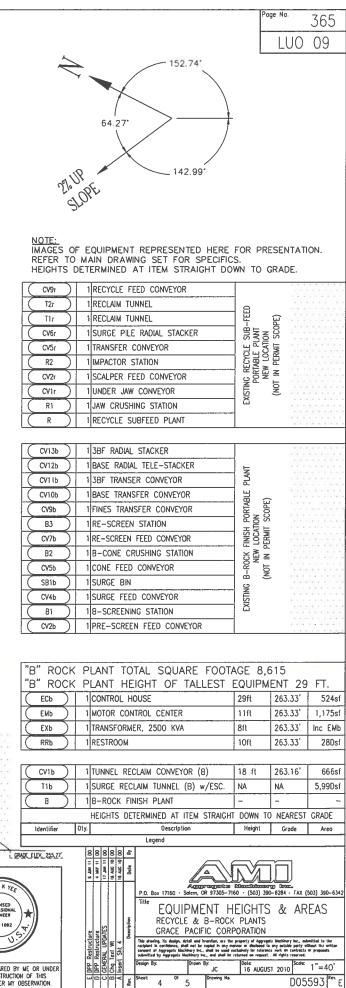
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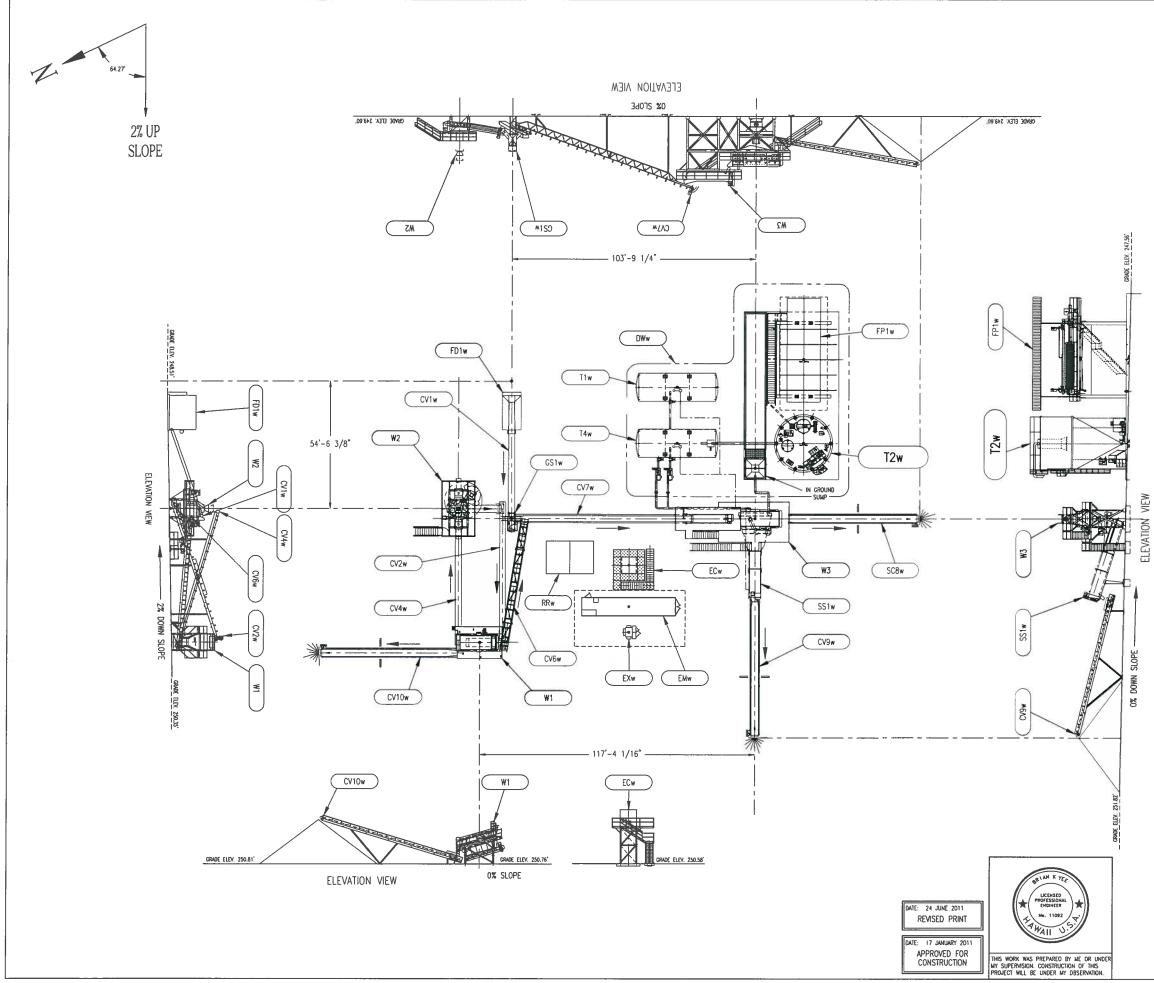


"A" ROCK PLANT HEIGHT OF TALLEST EQUIPMENT 56 FT. EN20 1 MOTOR CONTROL CENTER #2 1111 261.42' 532sf EX20 1 TRANSFORMER, 1500KVA Bft 261.42' Inc EM20 EX20 1 TRANSFORMER, 1500KVA Bft 262.58' Inc EM10 EM10 1 MOTOR CONTROL CENTER #1 11ft 262.58' Inc EM10 EX10 1 TRANSFORMER, 2500KVA Bft 262.58' 280sf CV240 1 RADIAL STACKER (CHIPS) 48ft 256.75' 788sf CV220 1 RADIAL STACKER (3-FINE) 48ft 263.35' 788sf CV210 1 STACKER (#4) 48ft 263.25' 881sf CV210 1 STACKER (H4) 48ft 263.25' 881sf CV210 1 STACKER (CHIPS) 18ft 259.00' 436sf CV100 1 STACKER (CHIPS) 18ft 265.75' 788sf CV200 <th>"A" ROCK</th> <th>PLANT TOTAL SQUARE FOOT</th> <th>AGE 27</th> <th>7.393</th> <th></th>	"A" ROCK	PLANT TOTAL SQUARE FOOT	AGE 27	7.393									
EM20 1 MOTOR CONTROL CENTER #2 11ft 261.42' 532sf EX20 1 TRANSFDRMER, 1500KVA 8ft 261.42' Inc EM20 EC0 1 CONTROL HOUSE 29ft 262.58' Inc EM10 EM10 1 MOTOR CONTROL CENTER #1 11ft 262.58' Inc EM10 EX10 1 TRANSFORMER, 2500KVA 8ft 262.58' 280sf CV240 1 RADIAL STACKER (CHIPS) 48ft 259. 788sf CV220 1 RADIAL STACKER (J+4) 48ft 263.25' 788sf CV210 1 STOCKOUT (J-COARSE) 44ft 263.25' 891sf CV100 1 TRANSFER CONVEYOR 17ft 257.27' 298sf CV100 1 TRANSFER CONVEYOR 17ft 259.35' 574sf CV190					6 FT.								
ECo 1 CONTROL HOUSE 29ft 262.58' Inc EM1a EM1a 1 MOTOR CONTROL CENTER #1 11ft 262.58' 1,649sf EX1a 1 TRANSFORMER, 2500KVA 8ft 262.58' 1,649sf EX1a 1 TRANSFORMER, 2500KVA 8ft 262.58' 280sf CV24a 1 RADIAL STACKER (CHIPS) 48ft 259. 788sf CV22a 1 RADIAL STACKER (3-FINE) 48ft 266.75' 788sf CV2a 1 RADIAL STACKER (#4) 48ft 263.25' 921sf CV2a 1 RADIAL STACKER (#4) 48ft 263.25' 921sf CV2a 1 STOCKOUT (AUX) 44ft 263.25' 921sf Cv1a 1 TRANSFER CONVEYOR (CHIPS) 18ft 259.00' 436sf Cv1a 1 TRANSFER CONVEYOR (3-FINE) 17ft 257.27' 298sf Cv1a 1 TRANSFER CONVEYOR 17ft 259.35' 574sf Cv1			T										
EM10 1 MOTOR CONTROL CENTER #1 11ft 262.58' 1,649sf EX10 1 TRANSFORMER, 2500KVA 8ft 262.58' Inc EM10 R0 1 RESTROOM 1 ft 262.58' 280sf CV240 1 RADIAL STACKER (CHIPS) 48ft 256.75' 788sf CV220 1 RADIAL STACKER (3-FINE) 48ft 263.35' 788sf CV220 1 RADIAL STACKER (#4) 48ft 263.35' 788sf CV210 1 STOCKOUT (AUX) 44ft 263.25' 891sf CV100 1 TRANSFER CONVEYOR (CHIPS) 18ft 259.00' 436sf CV190 1 TRANSFER CONVEYOR (3-FINE) 17ft 257.27' 298sf CV170 1 THROUGHS CROSS TRANSFER CONVEYOR 17ft 259.35' 574sf CV160 1 RE-CRUSH RETURN CONVEYOR 26ft 259.35' 2,199sf CV1710 1 FINISH SCREEN GATE STATION 35ft 259.35'	EX20	1 TRANSFORMER, 1500KVA	8ft	261.42'	Inc EM2a								
EX10 I TRANSFORMER, 2500KVA Bft 262 58' Inc EM10 RR0 1 RESTROOM 1 ft 262 58' 280sf CV240 1 RADIAL STACKER (CHIPS) 48ft 259. 788sf CV230 1 RADIAL STACKER (3-FINE) 48ft 256.75' 788sf CV220 1 RADIAL STACKER (#4) 48ft 26.35' 788sf CV210 1 STOCKOUT (AUX) 44ft 263.25' 891sf CV100 1 TRANSFER CONVEYOR (CHIPS) 18ft 259.00' 436sf CV190 1 TRANSFER CONVEYOR (CHIPS) 18ft 259.35' 574sf CV160 1 RE-CRUSH RETURN CONVEYOR 26ft 259.35' 865sf CV160 1 RE-CRUSH RETURN CONVEYOR 26ft 259.35' 2,199sf CV110 1 FINISH SCREEN GATE STATION 35ft 259.35' 2,199sf CV160 1 RE-CRUSH RETURN CONVEYOR 37ft 26ft.15' 1,080s	ECo)	1 CONTROL HOUSE	29ft	262.58	Inc EM1a								
RR0 1 RESTROOM 1 ft 262.58' 280sf CV240 1 RADIAL STACKER (CHIPS) 48ft 259. 788sf CV230 1 RADIAL STACKER (3-FINE) 48ft 256.75' 788sf CV220 1 RADIAL STACKER (#4) 48ft 26.35' 788sf CV220 1 RADIAL STACKER (#4) 48ft 26.35' 788sf CV210 1 STOCKOUT (AUX) 44ft 263.25' 891sf CV100 1 STOCKOUT (3-COARSE) 44ft 263.25' 891sf CV190 1 TRANSFER CONVEYOR (CHIPS) 18ft 259.00' 436sf CV190 1 TRANSFER CONVEYOR (3-FINE) 17ft 257.27' 298sf CV170 1 THROUGHS CROSS TRANSFER CONVEYOR 17ft 259.35' 574sf CV160 1 RE-CRUSH RETURN CONVEYOR 26ft 259.35' 2,199sf CV110 1 FINISH SCREEN FEED CONVEYOR 37ft 261.15' 1,080sf	EM10	1 MOTOR CONTROL CENTER #1	11ft	262.58	1,649sf								
CV240 1 RADIAL STACKER (CHIPS) 48/t 259. 788sf CV230 1 RADIAL STACKER (3-FINE) 48/t1 256.75' 788sf CV220 1 RADIAL STACKER (#4) 48/t1 266.35' 788sf CV220 1 RADIAL STACKER (#4) 48/t1 266.35' 788sf CV210 1 STOCKOUT (AUX) 44/t1 262.35' 921sf CV200 1 STOCKOUT (3-COARSE) 44/t1 263.25' 891sf CV190 1 TRANSFER CONVEYOR (CHIPS) 18/t1 259.00' 436sf CV190 1 TRANSFER CONVEYOR (3-FINE) 17/t1 257.27' 298sf CV170 1 THROUGHS CROSS TRANSFER CONVEYOR 17/t1 259.35' 574sf CV160 1 RE-CRUSH RETURN CONVEYOR 26/t1 259.35' 2,199sf CV110 1 FINISH SCREEN FEED CONVEYOR 37/f1 26/1.15' 1,080sf CV110 1 FINISH CRUSHING STATION 35/f1 262.35'	(EX10)	1 TRANSFORMER, 2500KVA	8ft	262 58'	Inc EM1a								
CV230 1 RADIAL STACKER (3-FINE) 48ft 256.75' 788sf CV220 1 RADIAL STACKER (#4) 48ft 26.35' 788sf CV210 1 STOCKOUT (AUX) 44ft 262.35' 921sf CV200 1 STOCKOUT (AUX) 44ft 263.25' 891sf CV190 1 TRANSFER CONVEYOR (CHIPS) 18ft 259.00' 436sf CV190 1 TRANSFER CONVEYOR (CHIPS) 18ft 259.00' 436sf CV190 1 TRANSFER CONVEYOR (3-FINE) 17ft 257.27' 298sf CV170 1 THROUGHS CROSS TRANSFER CONVEYOR 7ft 259.35' 574sf CV160 1 RE-CRUSH RETURN CONVEYOR 26ft 259.35' 2,199sf CV110 1 FINISH SCREEN MAE STATION 35ft 259.35' 2,199sf CV110 1 FINISH SCREEN FEED CONVEYOR 37ft 261.15' 1,080sf CV100 1 COMMON UNDER CRUSHER CONVEYOR 37ft 261.35'	RRo	1 RESTROOM	1 ft	262.58'	280sf								
CV230 1 RADIAL STACKER (3-FINE) 48ft 256.75' 788sf CV220 1 RADIAL STACKER (#4) 48ft 26.35' 788sf CV210 1 STOCKOUT (AUX) 44ft 262.35' 921sf CV200 1 STOCKOUT (AUX) 44ft 263.25' 891sf CV190 1 TRANSFER CONVEYOR (CHIPS) 18ft 259.00' 436sf CV190 1 TRANSFER CONVEYOR (CHIPS) 18ft 259.00' 436sf CV190 1 TRANSFER CONVEYOR (3-FINE) 17ft 257.27' 298sf CV170 1 THROUGHS CROSS TRANSFER CONVEYOR 7ft 259.35' 574sf CV160 1 RE-CRUSH RETURN CONVEYOR 26ft 259.35' 2,199sf CV110 1 FINISH SCREEN MAE STATION 35ft 259.35' 2,199sf CV110 1 FINISH SCREEN FEED CONVEYOR 37ft 261.15' 1,080sf CV100 1 COMMON UNDER CRUSHER CONVEYOR 37ft 261.35'													
CV220 1 RADIAL STACKER (#4) 48ft 26 35' 788sf CV210 1 STOCKOUT (AUX) 44ft 262.35' 921sf CV200 1 STOCKOUT (3-COARSE) 44ft 263.25' 891sf CV190 1 TRANSFER CONVEYOR (CHIPS) 18ft 259.00' 436sf CV180 1 TRANSFER CONVEYOR (CHIPS) 18ft 259.00' 436sf CV170 1 THROUGHS CROSS TRANSFER CONVEYOR 17ft 257.27' 298sf CV160 1 RE-CRUSH RETURN CONVEYOR 26ft 259.35' 574sf CV160 1 RE-CRUSH RETURN CONVEYOR 20ft 256.35' Inc A3 A3 1 FINISH SCREEN GATE STATION 35ft 259.35' 2,199sf CV110 1 FINISH SCREEN FEED CONVEYOR 37ft 261.15' 1,080sf CV100 1 COMMON UNDER CRUSHER CONVEYOR 14ft 261.35' 2,185sf CV100 1 COMMON UNDER CRUSHER SURGE FEED CONVEYOR	(CV240)	1 RADIAL STACKER (CHIPS)	48ft	259. '	788sf								
CV210 1 STOCKOUT (AUX) 44ft 262.35' 921sf CV200 1 STOCKOUT (3-COARSE) 44ft 263.25' 891sf CV100 1 TRANSFER CONVEYOR (CHIPS) 18ft 259.00' 436sf CV180 1 TRANSFER CONVEYOR (CHIPS) 18ft 259.00' 436sf CV180 1 TRANSFER CONVEYOR (3-FINE) 17ft 257.27' 298sf CV170 1 THROUGHS CROSS TRANSFER CONVEYOR 17ft 259.35' 574sf CV160 1 RE-CRUSH RETURN CONVEYOR 26ft 259.35' 219sf GS20 1 FINISH SCREEN GATE STATION 35ft 259.35' 2,199sf CV110 1 FINISH SCREEN FEED CONVEYOR 37ft 261.15' 1,080sf CV100 1 COMMON UNDER CRUSHER CONVEYOR 14ft 261.35' 203sf A2 1 FINISH SCREEN FEED CONVEYOR 14ft 261.35' 2,185sf CV100 1 COMMON UNDER CRUSHER SURGE FEED CONVEYOR 46ft <td>(CV230)</td> <td>1 RADIAL STACKER (3-FINE)</td> <td>48ft</td> <td>256.75'</td> <td>788sf</td>	(CV230)	1 RADIAL STACKER (3-FINE)	48ft	256.75'	788sf								
CV200 1 STOCKOUT (3-COARSE) 44ft 263.25' 891sf CV190 1 TRANSFER CONVEYOR (CHIPS) 18ft 259.00' 436sf CV190 1 TRANSFER CONVEYOR (CHIPS) 18ft 259.00' 436sf CV180 1 TRANSFER CONVEYOR (3-FINE) 17ft 257.27' 298sf CV170 1 THROUGHS CROSS TRANSFER CONVEYOR 17ft 259.35' 574sf CV160 1 RE-CRUSH RETURN CONVEYOR 26ft 259.35' 219sf GS20 1 FINISH SCREEN GATE STATION 20ft 256.35' 1nc A3 A3 1 FINISH SCREEN FEED CONVEYOR 37ft 261.15' 1,080sf CV110 1 FINISH SCREEN FEED CONVEYOR 37ft 261.35' 203sf A2 1 FINISH CRUSHING STATION 46ft 261.35' 2185sf CV100 1 COMMON UNDER CRUSHER SURGE FEED CONVEYOR 46ft 262.35' 2,185sf CV90 1 VSI CRUSHER SURGE FEED CONVEYOR </td <td>(CV220)</td> <td>1 RADIAL STACKER (#4)</td> <td>48ft</td> <td>26 .35'</td> <td>788sf</td>	(CV220)	1 RADIAL STACKER (#4)	48ft	26 .35'	788sf								
CV190 1 TRANSFER CONVEYOR (CHIPS) 18ft 259.00' 436sf CV180 1 TRANSFER CONVEYOR (3-FINE) 17ft 257.27' 298sf CV170 1 TRANSFER CONVEYOR (3-FINE) 17ft 259.35' 574sf CV160 1 RE-CRUSH RETURN CONVEYOR 26ft 259.35' 865sf GS20 1 FINISH SCREEN GATE STATION 20ft 256.35' Inc A3 A3 1 FINISH SCREEN ING STATION 35ft 259.35' 2,199sf CV110 1 FINISH SCREEN FEED CONVEYOR 37ft 261.15' 1,080sf CV110 1 FINISH SCREEN FEED CONVEYOR 37ft 261.15' 1,080sf CV100 1 COMMON UNDER CRUSHER CONVEYOR 14ft 261.35' 2,185sf CV90 1 VSI CRUSHER SURGE FEED CONVEYOR 46ft 262.35' 824sf CV80 1 CONE CRUSHERS SURGE FEED CONV. 46ft 262.35' 1,184sf GS10 1 PRE-SCREEN FEED CONVEYOR	(CV210)	1 STOCKOUT (AUX)	44ft	262.35'	921sf								
CV180 1 TRANSFER CONVEYOR (3-FINE) 17ft 257.27' 298sf CV170 1 THROUGHS CROSS TRANSFER CONVEYOR 17ft 259.35' 574sf CV160 1 RE-CRUSH RETURN CONVEYOR 26ft 259.35' 865sf GS20 1 FINISH SCREEN GATE STATION 20ft 256.35' Inc A3 A3 1 FINISH SCREEN ING STATION 35ft 259.35' 2,199sf CV110 1 FINISH SCREEN FEED CONVEYOR 37ft 261.15' 1,080sf CV100 1 COMMON UNDER CRUSHER CONVEYOR 37ft 261.35' 2,185sf CV100 1 COMMON UNDER CRUSHER CONVEYOR 14ft 261.35' 2,185sf CV90 1 VSI CRUSHER SURGE FEED CONVEYOR 46ft 262.35' 824sf CV80 1 CONE CRUSHERS SURGE FEED CONV. 46ft 262.35' 1,184sf S10 1 PRE-SCREEN GATE STATION 25ft 262.35' 1,184sf CV80 1 CONE CRUSHERS SURGE FEED CONV.	(CV200)	1 STOCKOUT (3-COARSE)	44ft	263.25'	891sf								
CV170 1 THROUGHS CROSS TRANSFER CONVEYOR 17ft 259.35' 574sf CV160 1 RE-CRUSH RETURN CONVEYOR 26ft 259.35' 865sf GS20 1 FINISH SCREEN GATE STATION 20ft 256.35' Inc A3 A3 1 FINISH SCREEN FED CONVEYOR 37ft 261.15' 1,080sf CV110 1 FINISH SCREEN FED CONVEYOR 37ft 261.15' 1,080sf CV100 1 COMMON UNDER CRUSHER CONVEYOR 37ft 261.15' 1,080sf CV100 1 COMMON UNDER CRUSHER CONVEYOR 14ft 261.35' 2,185sf CV90 1 VSI CRUSHERS SURGE FED CONVEYOR 46ft 262.35' 886sf GS10 1 PRE-SCREEN GATE STATION 25ft 262.35' 1,184sf SB10 </td <td>(CV190)</td> <td>1 TRANSFER CONVEYOR (CHIPS)</td> <td>18ft</td> <td>259.00'</td> <td>436sf</td>	(CV190)	1 TRANSFER CONVEYOR (CHIPS)	18ft	259.00'	436sf								
CV160 1 RE-CRUSH RETURN CONVEYOR 26ft 259.35' 865sf GS20 1 FINISH SCREEN GATE STATION 20ft 256.35' Inc A3 A3 1 FINISH SCREEN ING STATION 35ft 259.35' 2,199sf CV110 1 FINISH SCREEN FEED CONVEYOR 37ft 261.15' 1,080sf CV100 1 COMMON UNDER CRUSHER CONVEYOR 37ft 261.35' 203sf A2 1 FINISH SCREEN STATION 46ft 261.35' 2,185sf CV90 1 VSI CRUSHER SURGE FEED CONVEYOR 46ft 262.35' 824sf CV80 1 CONE CRUSHERS SURGE FEED CONV. 46ft 262.35' nc A1 A1 1 PRE-SCREEN GATE STATION 25ft 262.35' 1,184sf SB10 1 A-ROCK SURGE BIN 33ft 262.35' 1,184sf CV30 1 PRE-SCREEN FEED CONVEYOR 36ft 262.35' 1,184sf SB10 1 A-ROCK SURGE BIN 33ft 262.35'	(CV180)	1 TRANSFER CONVEYOR (3-FINE)	17ft	257.27	298sf								
GS20 1 FINISH SCREEN GATE STATION 20ft 256.35' Inc A3 A3 1 FINISH SCREENING STATION 35ft 259.35' 2,199sf CV110 1 FINISH SCREENING STATION 35ft 261.15' 1,080sf CV100 1 COMMON UNDER CRUSHER CONVEYOR 37ft 261.15' 1,080sf CV100 1 COMMON UNDER CRUSHER CONVEYOR 14ft 261.35' 203sf A2 1 FINISH CRUSHING STATION 46ft 261.35' 2,185sf CV90 1 VSI CRUSHER SURGE FEED CONVEYOR 46ft 262.35' 824sf CV80 1 CONE CRUSHERS SURGE FEED CONV. 46ft 262.35' nc.A1 A1 1 PRE-SCREEN GATE STATION 25ft 262.35' 1,184sf SB10 1 A-ROCK SURGE BIN 33ft 262.35' 1,184sf CV30 1 PRE-SCREEN FEED CONVEYOR 56ft 262.35' 1,184sf SB10 1 A-ROCK SURGE BIN 33ft 262.35'	(CV170)	1 THROUGHS CROSS TRANSFER CONVEYOR	17ft	259.35'	574sf								
A3 1 FINISH SCREENING STATION 35ft 259.35' 2,199sf CV110 1 FINISH SCREEN FEED CONVEYOR 37ft 261.15' 1,080sf CV100 1 COMMON UNDER CRUSHER CONVEYOR 37ft 261.15' 1,080sf CV100 1 COMMON UNDER CRUSHER CONVEYOR 14ft 261.35' 203sf A2 1 FINISH CRUSHING STATION 46ft 261.35' 2,185sf CV90 1 VSI CRUSHER SURGE FEED CONVEYOR 46ft 262.35' 824sf CV80 1 CONE CRUSHERS SURGE FEED CONV. 46ft 262.35' 886sf GS10 1 PRE-SCREEN GATE STATION 25ft 262.35' 1,184sf A1 1 PRE-SCREEN FEED CONVEYOR 56ft 262.35' 1,184sf SB10 1 A-ROCK SURGE BIN 33ft 262.35' 1,55sf CV10 1 A-TUNNEL RECLAIM CONVEYOR 36ft 262.35' 1,55sf CV10 1 A-TUNNEL RECLAIM CONVEYOR 37ft <	(CV160)	1 RE-CRUSH RETURN CONVEYOR	26ft	259.35	865sf								
CV110 1 FINISH SCREEN FEED CONVEYOR 37ft 261.15' 1,080sf CV100 1 COMMON UNDER CRUSHER CONVEYOR 14ft 261.35' 203sf A2 1 FINISH CRUSHING STATION 46ft 261.35' 2,185sf CV90 1 VSI CRUSHER SURGE FEED CONVEYOR 46ft 262.35' 824sf CV80 1 CONE CRUSHERS SURGE FEED CONV. 46ft 262.35' 824sf CV80 1 CONE CRUSHERS SURGE FEED CONV. 46ft 262.35' 886sf GS10 1 PRE-SCREEN GATE STATION 25ft 262.35' 1,184sf A1 1 PRE-SCREEN FEED CONVEYOR 56ft 262.35' 1,184sf SB10 1 A-ROCK SURGE BIN 33ft 262.35' 1,184sf SB10 1 A-ROCK SURGE BIN 33ft 262.35' 1,55sf CV10 1 A-TUNNEL RECLAIM CONVEYOR 38ft 262.35' 1,55sf CV10 1 A-TUNNEL RECLAIM CONVEYOR 17ft 262.3	GS20	1 FINISH SCREEN GATE STATION	20ft	256.35	Inc A3								
CV100 1 COMMON UNDER CRUSHER CONVEYOR 14ft 261.35' 203sf A2 1 FINISH CRUSHING STATION 46ft 261.35' 2,185sf CV90 1 VSI CRUSHER SURGE FEED CONVEYOR 46ft 262.35' 824sf CV80 1 CONE CRUSHER SURGE FEED CONVEYOR 46ft 262.35' 886sf GS10 1 PRE-SCREEN GATE STATION 25ft 262.35' 2,549sf CV30 1 PRE-SCREEN FEED CONVEYOR 56ft 262.35' 2,549sf CV30 1 PRE-SCREEN FEED CONVEYOR 56ft 262.35' 1,184sf SB10 1 A-ROCK SURGE BIN 33ft 262.35' 1,184sf CV20 1 TRANSFER FEED CONVEYOR 36ft 262.35' 1,55sf CV10 1 A-TUNNEL RECLAIM CONVEYOR 17ft 262.35' 1,55sf CV10 1 A-TUNNEL RECLAIM CONVEYOR 17ft 262.35' 603sf T10 1 SURGE RECLAIM TUNNEL (A) w/ESC. NA N	(A3)	1 FINISH SCREENING STATION	35ft	259.35'	2,199sf								
A2 1 FINISH CRUSHING STATION 46ft 261.35' 2,185sf CV90 1 VSI CRUSHER SURGE FEED CONVEYOR 46ft 262.35' 824sf CV80 1 CONE CRUSHERS SURGE FEED CONVEYOR 46ft 262.35' 886sf GS10 1 PRE-SCREEN GATE STATION 25ft 262.35' nc A1 A1 1 PRE-SCREEN ING STATION 53ft 262.35' 2,549sf CV30 1 PRE-SCREEN FEED CONVEYOR 56ft 262.35' 1,184sf SB10 1 A-ROCK SURGE BIN 33ft 262.35' 2,11sf CV20 1 TRANSFER FEED CONVEYOR 38ft 262.35' 1,55sf CV10 1 A-TUNNEL RECLAIM CONVEYOR 38ft 262.35' 1,55sf CV10 1 A-TUNNEL RECLAIM CONVEYOR 17ft 262.35' 603sf T10 1 SURGE RECLAIM TUNNEL (A) w/ESC. NA NA 5,124sf HEIGHTS DETERMINED AT ITEM STRAIGHT OOWN TO NEAREST GRADE Identifier 01y.	(CV110)	1 FINISH SCREEN FEED CONVEYOR	37ft	261.15'	1,080sf								
CV90 1 VSI CRUSHER SURGE FEED CONVEYOR 46ft 262.35' 824sf CV80 1 CONE CRUSHERS SURGE FEED CONV. 46ft 262.35' 886sf GS10 1 PRE-SCREEN GATE STATION 25ft 262.35' nc A1 A1 1 PRE-SCREENING STATION 53ft 262.35' 2,549sf CV3a 1 PRE-SCREEN FEED CONVEYOR 56ft 262.35' 2,11sf SB10 1 A-ROCK SURGE BIN 33ft 262.35' 1,535sf CV10 1 A-TUNNEL RECLAIM CONVEYOR 38ft 262.35' 1,535sf CV10 1 A-TUNNEL RECLAIM CONVEYOR 17ft 262.35' 603sf T10 1 SURGE RECLAIM CONVEYOR 17ft 262.35' 603sf T10 1 SURGE RECLAIM TUNNEL N	(CV100)	1 COMMON UNDER CRUSHER CONVEYOR	14ft	261.35'	203sf								
CV8a 1 CONE CRUSHERS SURGE FEED CONV. 46ft 262.35' 886sf GS1a 1 PRE-SCREEN GATE STATION 25ft 262.35' nc A1 A1 1 PRE-SCREENING STATION 53ft 262.35' 2,549sf CV3a 1 PRE-SCREEN FEED CONVEYOR 56ft 262.35' 1,184sf SB1a 1 A-ROCK SURGE BIN 33ft 262.35' 2,11sf CV2a 1 TRANSFER FEED CONVEYOR 38ft 262.35' 1,535sf CV1a 1 A-TUNNEL RECLAIM CONVEYOR 17ft 262.35' 603sf T1a 1 SURGE RECLAIM CONVEYOR 17ft 262.35' 603sf T1a 1 SURGE RECLAIM TUNNEL (A) w/ESC. NA NA 5,124sf HEIGHTS DETERMINED AT ITEM STAIGHT Own <t< td=""><td>(A2)</td><td>1 FINISH CRUSHING STATION</td><td>46ft</td><td>261.35'</td><td>2,185sf</td></t<>	(A2)	1 FINISH CRUSHING STATION	46ft	261.35'	2,185sf								
GS10 1 PRE-SCREEN GATE STATION 25ft 262.35' nc A1 A1 1 PRE-SCREENING STATION 53ft 262.35' 2,549sf CV30 1 PRE-SCREENING STATION 53ft 262.35' 1,184sf SB10 1 A-ROCK SURGE BIN 33ft 262.35' 1,184sf CV20 1 TRANSFER FEED CONVEYOR 36ft 262.35' 1,535sf CV10 1 A-TUNNEL RECLAIM CONVEYOR 17ft 262.35' 603sf T10 1 SURGE RECLAIM TUNNEL (A) w/ESC. NA NA 5,124sf HEIGHTS DETERMINED AT ITEM STRAIGHT OOWN TO NEAREST GRADE Identifier 01y. Description Height Gcade Area	(CV90)	1 VSI CRUSHER SURGE FEED CONVEYOR	46ft	262.35'	824sf								
A1 1 PRE-SCREENING STATION 53f1 262.35' 2,549sf CV3a 1 PRE-SCREEN FEED CONVEYOR 56ft 262.35' 1,184sf SB1a 1 A-ROCK SURGE BIN 33ft 262.35' 211sf CV2a 1 TRANSFER FEED CONVEYOR 38ft 262.35' 1,535sf CV1a 1 A-TUNNEL RECLAIM CONVEYOR 17ft 262.35' 603sf T1a 1 SURGE RECLAIM TUNNEL (A) w/ESC. NA NA 5,124sf HEIGHTS DETERMINED AT ITEM STRAIGHT OOWN TO NEAREST GRADE Identifier 01y. Description Height Grade Area	CV80	1 CONE CRUSHERS SURGE FEED CONV.	46ft	262.35'	886sf								
CV3a 1 PRE-SCREEN FEED CONVEYOR 56ft 262.35' 1,184sf SB1a 1 A-ROCK SURGE BIN 33/t 262.35' 211sf CV2a 1 TRANSFER FEED CONVEYOR 38/t 262.35' 1,535sf CV1a 1 A-TUNNEL RECLAIM CONVEYOR 17ft 262.35' 603sf T1a 1 SURGE RECLAIM TUNNEL (A) w/ESC. NA NA 5,124sf HEIGHTS DETERMINED AT ITEM STRAIGHT OWN TO NEAREST Grade Area Legend	GS10	1 PRE-SCREEN GATE STATION	25ft	262.35'	nc A1								
SB10 1 A-ROCK SURGE BIN 33ft 262.35' 211sf CV20 1 TRANSFER FEED CONVEYOR 38ft 262.35' 1,535sf CV10 1 A-TUNNEL RECLAIM CONVEYOR 17ft 262.35' 603sf T10 1 SURGE RECLAIM TUNNEL (A) w/ESC. NA NA 5,124sf HEIGHTS DETERMINED AT ITEM STRAIGHT OOWN TO NEAREST Grade Area Identifier 01y. Description Height Grade Area	(A1)	1 PRE-SCREENING STATION	53ft	262.35'	2,549sf								
CV20 1 TRANSFER FEED CONVEYOR 38ft 262.35' 1,535sf CV10 1 A-TUNNEL RECLAIM CONVEYOR 17ft 262.35' 603sf T10 1 SURGE RECLAIM TUNNEL (A) w/ESC. NA NA 5,124sf HEIGHTS DETERMINED AT ITEM STRAIGHT OWN TO NEAREST Grade Area Identifier Oly. Description Height Grade Area	(CV30)	1 PRE-SCREEN FEED CONVEYOR	56ft	262.35'	1,184sf								
CV1o 1 A-TUNNEL RECLAIM CONVEYOR 17ft 262.35' 603sf T1o 1 SURGE RECLAIM TUNNEL (A) w/ESC. NA NA 5,124sf HEIGHTS DETERMINED AT ITEM STRAIGHT OOWN TO NEAREST GRADE Identifier 01y. Description Height Grade Area Legend Legend Keight Keigh	SB10	1 A-ROCK SURGE BIN	33ft	262.35	211sf								
T1a 1 SURGE RECLAIM TUNNEL (A) w/ESC. NA NA 5,124sf HEIGHTS DETERMINED AT ITEM STRAIGHT OOWN TO NEAREST GRADE Identifier Q1y. Description Height Grade Area Legend	(CV20)	1 TRANSFER FEED CONVEYOR	38ft	262.35	1,535sf								
HEIGHTS DETERMINED AT ITEM STRAIGHT OOWN TO NEAREST GRADE Identifier Q1y. Description Height Grade Area Legend	(CV10)	1 A-TUNNEL RECLAIM CONVEYOR	17ft	262.35	603sf								
Identifier Q1y. Description Height Grade Area Legend	T10	1 SURGE RECLAIM TUNNEL (A) w/ESC.	NA	NA	5,124sf								
Legend	HEIGHTS DETERMINED AT ITEM STRAIGHT OOWN TO NEAREST GRADE												
	Identifier		Height	Grade	Area								
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	ANT HEIGHT OF TALLEST I	1		
ECw City	1 CONTROL HOUSE	24ft	250.58'	296sf
(EMw)	1 MOTOR CONTROL CENTER 1 TRANSFORMER, 1500KVA	11ft 8ft	250.58' 250.58'	1,140sf Inc EMw
(RRw)	1 RESTROOM	10ft	250.56 [°]	280sf
	c, 1		1	·
(FP1w)	1 FILTERPRESS	38ft	248.52'	2,970sf
T4w	1 FRESH WATER TANK	13ft	249.DO'	973sf
(T2w)	1 DECANTER	43ft	248.52'	Inc FP1w
	1 FRESH WATER TANK - PERMITTED OPTIONAL	13ft	248.52'	Inc T4w
(CV10w)	1 PRODUCT STOCKOUT CONVEYOR (AUX)	22ft	250.81	234sf
CV9w	1 PRODUCT STOCKOUT CONVEYOR (SAND)	22ft	250.32	234sf
CV8w SS1w	1 PRODUCT STOCKOUT CONVEYOR (CHIPS)	22ft 19ft	249.58' 249.60'	223sf 109sf
(SS1w) (W3)	1 WASH PLANT STATION	35ft	249.60 249.60'	865sf
CV7w	1 WASH PLANT FEED CONVEYOR	35ft	249.60	231sf
CV6w	1 SCREEN THRUS TRANSFER CONVEYOR	14ft	249.02	189sf
(W2)	1 DRY CRUSHING STATION	18ft	249.64'	418sf
CV4w	1 CRUSHER FEED CONVEYOR	24ft	249.70'	96sf
(W1)	1 DRY SCREENING STATION	25ft	250.76'	273sf
CV2w	1 SCREEN FEED CONVEYOR	25ft	250.35'	128sf
CS1w	1 GATE STATION	16ft	249.40'	356sf
CV1w	1 LIFT CONVEYOR	18ft		83sf
(FD1w)	1 BELT FEEDER	18ft		133sf
	DETERMINED AT ITEM STRAIGHT OOWN TO	GRADE		
Identifier (Dty. Description Legend	Height	Grode	Area
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	SUPERATE PACIFIC CORF		e Machinery Inc., su any autoide party a	miled is the theri the writen
	to by the stand of	returned an request.	All cights reserved.	at proposes
	torian in the second s	Date: 6 AUG	10 Scole:	1''=20' 593 ^{Rev.} Ε

Makakilo Quarry, Hawaii

2011

APPENDIX H:

LETTER FROM DPP TO BELT COLLINS DATED JULY 1, 2011 REGARDING CONDITIONAL USE PERMIT 2007/CUP-47

DEPARTMENT OF PLANNING AND PERMITTING

CITY AND COUNTY OF HONOLUL RECEIVED 650 SOUTH KING STREET, 7TH FLOOR • HONOLULU, HAWAII 96813 PHONE: (808) 768-8000 • FAX: (808) 768-6041 DEPT. WEB SITE: WWW.honoluludpp.org • CITY WEB SITE: WWW.honolulu.gov

2011 JUL -5 PM 2:26

BELT COLLINS HAWANDUE DIRECTOR

> JIRO A. SUMADA DEPUTY DIRECTOR

2011/ELOG-1410(JM)

PETER B. CARLISLE MAYOR



July 1, 2011

Mr. Glen T. Koyama Belt Collins Hawaii, Ltd. 2153 North King Street, Suite 200 Honolulu, Hawaii 96819-4554

Dear Mr. Koyama:

Subject: Conditional Use Permit No. 2007/CUP-47 Puu Makakilo, Inc. and James Campbell Company LLC 92-1130 Pueonani Street (Makakilo Quarry) - Honouliuli Tax Map Key 9-2-3: 74 and 82

We have reviewed the documentation submitted on June 27, 2011, and determined that it meets Condition 1c of the above Conditional Use Permit. As such, the Applicant may now proceed with processing of their building permit(s).

If you have any questions, please contact James Morisato of our staff at 768-8026 .

Very truly yours,

Elizabett Ch ...

for David K. Tanoue, Director Department of Planning and Permitting

DKT:nw

Doc. No. 860240

Makakilo Quarry, Hawaii

2011

APPENDIX I:

CORRESPONDENCE FROM STATE OF HAWAII CLEAN AIR BRACH DATED OCTOBER 21, 2011

RE: Complaint Reports for Grace Pacific Makakilo Quarry CSP No. 0045-01-C/CT Cab General to: MDEntremont 10/21/2011 10:46 AM

From:	"Cab General" <cab.general@doh.hawaii.gov></cab.general@doh.hawaii.gov>			
To:	<mdentremont@gracepacificcorp.com></mdentremont@gracepacificcorp.com>			
History:	This message has been replied to.	<u>,</u>	,	د

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Dear Ms. D'Entremont,

The Clean Air Branch have reviewed our files and did not find any complaints in calendar year 2010 to present 2011.

If you have any questions, please call me at 586-4200.

Thank you, Jill

From: MDEntremont@gracepacificcorp.com [mailto:MDEntremont@gracepacificcorp.com]
Sent: Fri 10/21/2011 7:10 AM
To: Cab General
Subject: Complaint Reports for Grace Pacific Makakilo Quarry CSP No. 0045-01-C/CT

Good Morning,

I am interested in obtaining any reported complaints against Grace Pacific regarding air quality issues for our Makakilo Quarry for the years2010 and to date for 2011.

Please advise how best to retrieve this information

Thank you for your assistance.

Margaret D'Entremont Admin. Asst. Grace Pacific Quarry Office (808) 674-3545 Direct (808) 306-7998 Cell (808) 674-3998 Fax