May 21, 2018

TO: Suzanne Case
Chairperson and Member. Board of Land and Natural Resources

FROM: Major General Arthur J. Logan
Director, Hawaii Emergency Management Agency

SUBJECT: Request Approval to execute an Agreement with Verizon Wireless to park and operate a trailer mounted cellular radio base station with antenna at the HI-EMA Operating Support Center (B303) warehouse located at the Diamond Head State Monument TMK (1) 3-1-042-006.

In accordance with §171-11 Hawai’i Revised Statutes, which requires the approval of the Board of Land and Natural Resources for the use of facilities in excess of 14-days, the Department of Defense (DOD) Hawaii Emergency Management Agency (HI-EMA) is requesting approval to enter into an Agreement for one (1) year, annually renewable subject to Board approval, to park a trailer mounted cellular base station and antenna adjacent to the HI-EMA Operations Support Center (B303) warehouse located within the Diamond Head State Monument.

The use of the property by Verizon Wireless will provide critical communications that will support HI-EMA’s current and future emergency response and recovery missions. This site will augment the current wireless coverage and capacity locally within the crater that is presently inadequate to meet HI-EMA’s wireless communications needs. Additionally, the use of this site will also increase the safety of Diamond Head State Monument visitors and staff by providing improved communications for first responders.

Your favorable support and placement of the request on the next Land Board meeting agenda is appreciated.

Should there be any questions, please contact Mr. David Hafner, Telecommunications Planner at 733-4300 x583 (e-mail: david.t.hafner@hawaii.gov).

ITEM M-8
Board of Land and Natural Resources  
State of Hawaii'i  
Honolulu, Hawaii'i  

Request approval to enter into a Revocable Permit, Non-Exclusive, between the Hawaii Emergency Management Agency (HI-EMA) and Verizon Wireless to Park and Operate One (1) Mobile Trailer Mounted Cellular Base Station adjacent to Building 303 located within the Diamond Head State Monument (DHSM), Honolulu, Oahu Tax Map Key No.: TMK (1) 3-1-042-006.

REQUEST:

This is a request to approve the State of Hawaii Department of Defense, Hawaii Emergency Management Agency (HI-EMA) to enter into a one-year revocable agreement with a provision for an annual renewal approved by the Board of Land and Natural Resources (BLNR) to permit Verizon Wireless to park and operate one (1) mobile trailer mounted cellular base station at HI-EMA's Operations Support Center (B303) for the purpose of providing needed emergency cellular communications services to HI-EMA and other Park users.

LEGAL REFERENCE:

Section 171-11, 13 55 and other applicable sections of Chapter 171 and Section 102-2(b)(4), Hawaii'i Revised Statutes.

SITE USE APPLICANT:

Verizon Wireless, whose principal place of business is Honolulu, Hawaii'i.

LOCATION AND TAX MAP KEY:

Portion of HI-EMA State Operation Support Center Building 303 warehouse parking area, 4304 Diamond Head Road, Diamond Head State Monument, Honolulu, Oahu, identified by Tax Map Key: (1) 3-1-042-006.

AREA:

An area of approximately 150 square feet of space adjacent to HI-EMA's Operations Support Center in the general location identified in the photo entitled “Cellular Trailer Parking” attached as Exhibit A.
ZONING:

State Land Use District: Conservation
City & County of Honolulu: Preservation Restricted/General
FEMA Flood Designation: X
Tsunami Evacuation Zone: No

TRUST LAND STATUS:

Section 5(b) lands of the Hawai‘i Admissions Act.
DHHL 30% entitlement lands pursuant to the Hawaii State Constitution: Yes

CURRENT USE STATUS:

Land presently encumbered by Governor’s Executive Order No. 3688 dated April 30, 1996, setting aside the land to the Division of State Parks, Department of Land and Natural Resources (DLNR), concurrently and jointly with the “Diamond Head Reservation” as managed and under the jurisdiction of the Department of Defense (DOD).

CHARACTER OF USE:

Trailer mounted un-occupied automatic cellular communications base station and 24 ft. antenna tower with accompanying communications interface cabinet.

TERM:

A 1-year term with option to be renewed for one year annually with the approval of BLNR

COMMENCEMENT DATE:

To be determined by the Director of the Hawaii Emergency Management Agency

MONYHLY FEE PAYMENT:

Not Applicable

CHAPTER 343, HRS – ENVIRONMENTAL ASSESSMENT:

DLNR Exemption Class 3 10. “Installation of weatherports and radio repeaters and other similar communications equipment and related infrastructure for natural resources management purposes or for emergency response.”

DLNR Exemption Class 3 18. “Construction of Civil Defense emergency system facilities.”
REMARKS:
This cellular communications facility is needed to provide emergency wireless service to State, Federal, and Volunteer emergency workers located within the DHSM crater floor.

RECOMMENDATION: That the Board:

A. Declare that, after considering the potential effects of the proposed disposition as provided by Chapter 343, HRS, and Chapter 11-200, HAR, this project will have minimal or no significant effect on the environment and is therefore exempt from the preparation of an environmental assessment.

B. Authorize the issuance of a revocable non-exclusive agreement to Verizon Wireless to place and operate a trailer mounted cell system in the area depicted in Exhibit A subject to any applicable conditions cited above which are by this reference incorporated herein and further subject to the following:

1. Review and approved by the Division of State Parks, Department of Land and Natural Resources; and
2. Review and approved by the Department of the Attorney General; and
3. Such other terms and conditions as be prescribed by the Director of HI-EMA to best serve the interest of the State of Hawaii

Respectfully submitted,

May 27, 2018

ARTHUR J. LOGAN
Major General
Hawai‘i National Guard
Adjutant General

APPROVED FOR SUBMITTAL:

SUZANNE CASE, Chairperson and Member
CONSTRUCTION DRAWINGS

HON BUILDING 303 (COW)
4204 DIAMOND HEAD ROAD
(BUILDING 303)
HONOLULU, HI 96816

SITE INFORMATION

SITE NAME: 4204 DIAMOND HEAD ROAD
BUILDING 303
HONOLULU, HI 96816

LATITUDE: 21° 19' 45.83" N
LONGITUDE: 157° 48' 14.86" W

SOURCE: 1A CERTIFICATION
PARCEL NUMBER: (1) 3-254-258
ZONING CLASSIFICATION: P.J.F.A
JURISDICTION: CITY AND COUNTY OF HONOLULU

PROJECT CONTACTS

APPLICANT: VERIZON WIRELESS
2401 NW 168TH AVE M-2-231
BELLEVUE, WA 98005

PROPERTY OWNERS:
STATE OF HAWAII – DEFENSE CENTER
CONTACT: DAVID M. HAYNER
PH: 808.733.4300 EXT. 583

PRINCIPAL ENGINEER, NETWORK CONSTRUCTION:
AMERICAN ENGINEER, INC.
1141 KAAU KULA RD
225 KAAU KULA AVE
MALL 2, HI 96783
TEO TANABE
PH: 808.346.8987

PROJECT MANAGER:
CENTERLINE SOLUTIONS
3275 KAKAPAPA ST, SUITE D-185
HONOLULU, HI 96819
PJ CAMO
PH: 808.529.7468 X7003

LEASE CONSULTANT:
CENTERLINE SOLUTIONS
3275 KAKAPAPA ST, SUITE D-185
HONOLULU, HI 96819
ROBYN KAIRELEIHA
PH: 808.529.7468 X7004

ENGINEER OF RECORD:
CENTERLINE SOLUTIONS
15836 TABLE MOUNTAIN PARKWAY
EUCLID, OH 44117
ROBYN KAIRELEIHA
PH: 808.529.7468 X7004

STRUCTURAL ENGINEER:
VECTORS STRUCTURAL ENGINEERING, LLC
651 W. PARK BLVD., SUITE 3-101
DANIEL, UT 84323
WEISL L.S., KOMLOS S.E.
WEISL@VECTORS.COM
WWW.VECTORS.COM

ELECTRICAL ENGINEER:
RICHARD LUNDE, P.E.
CONSULTING ELECTRICAL ENGINEER
3260 CHERRY CREEK DR. DU, SUITE 33
DENVER, CO 80237
PH: 303.581.5081

DRAWING INDEX

SHEET DESCRIPTION
T1.0 TITLE SHEET
D1.0 SURVEY ISSUES
A1.0 OVERALL SITE PLAN
A2.0 ENLARGED SITE PLAN
A2.1 CONDOMINIUM PLAN
A3.0 ELEVATION
A4.0 CABINET AND ANTENNA DETAILS
A4.1 GENERATOR DETAILS
A5.0 SIGNAGE DETAILS
G1.0 GENERAL NOTES
G2.0 GENERAL NOTES
G3.0 GENERAL NOTES
G4.0 GENERAL NOTES

SIGN OFF OF FINAL CONSTRUCTION DRAWINGS

REVIEWERS SHALL CLEARLY PLACE INITIALS AND DATE EACH SHEET OF CONSTRUCTION DRAWINGS. ALL REVISIONS TO THE CONSTRUCTION DRAWINGS AND DRAWING SETS MUST BE DRAWN AND REVIEWED. A "SIGN-OFF" BY PARTIES TO THE CONSTRUCTION DRAWINGS DOES NOT CONSTITUTE ALTERNATION OF THE CONTRACT DRAWINGS.

OWNER: VERIZON WIRELESS
SIGNATURE: DAVID M. HAYNER
DATE: 09/05/2008

SITE ACQUISITION:
PERMITTING CONSULTANT:
RF ENGINEER:
CONSTRUCTION MANAGER:
OPS MANAGER:
PROJECT MANAGER:
REGULATORY REV.
DEV. MANAGER:

PROJECT VICINITY MAP

DRIVING DIRECTIONS
FROM HONOLULU INTERNATIONAL AIRPORT (HNL):
1. START OUT GOING NORTH ON ROGERS BLVD. TOWARD P. WAIKIKI
Hwy. (0.2 MILES)
2. TURN RIGHT AT OAHU ST. (0.2 MILES)
3. TURN LEFT AT ALOHA AVE. (0.2 MILES)
4. TURN RIGHT AT DIAMOND HEAD RD. (0.2 MILES)
5. TURN LEFT AT DIAMOND HEAD RD. (0.2 MILES)
6. TURN RIGHT AT DIAMOND HEAD MONUMENT PARK (0.2 MILES)
7. TURN RIGHT AT DIAMOND HEAD RD. (0.2 MILES)
8. TURN LEFT ON DIAMOND HEAD RD. (0.2 MILES)
9. TURN RIGHT AT DIAMOND HEAD RD. (0.2 MILES)
10. TURN LEFT AT DIAMOND HEAD RD. (0.2 MILES)
11. TURN LEFT AT DIAMOND HEAD RD. (0.2 MILES)
12. TURN RIGHT AT DIAMOND HEAD RD. (0.2 MILES)
13. TURN LEFT AT DIAMOND HEAD RD. (0.2 MILES)

ESTIMATED TIME: 20 MINUTES
ESTIMATED DISTANCE: 12 MILES

GOVERNMENT CODES

- BO - 2008, INTERNATIONAL BUILDING CODE
  - ALL CONSTRUCTION SHALL COMPLY TO THE 2008 EDITION OF THE CODE
  - SEE THE LATEST CITY AND COUNTY OF HONOLULU AMENDMENTS
- NEC 2008, NATIONAL ELECTRICAL CODE
- PER 2000 NFPA, 1.15, FIRE SAFETY DURING DEMOLITION 16.5.1
  - A BUILDING INTENDED TO BE DEMOLISHED CONTAINS A CONSUMER SUBSTATION WHICH IS SUCCESSFULLY BURNT IN A BUILDING
  - THE CONSUMER SUBSTATION SHOULD BE DISCONNECTED AND TAKEN OUT OF SERVICE

UTILITY COMPANIES

POW: HECO
TEL/CABLE: TIME WARNER TELECOM

THE INFORMATION CONTAINED IN THIS SET OF DOCUMENTS IS PROPRIETARY BY NATURE. ANY USE OR DISCLOSURE, OTHER THAN THAT WHICH IS EXPRESSLY AUTHORIZED SERVICES IS STRICTLY PROHIBITED.

DATE: 09/05/2008

T1.0 SHEET

PROJECT LOCATION
Add A and E sheet (the latter for permitting) showing an elevation view of the outrigger supports.
NOTICE

Beyond this point you are entering an area where RF Emissions may exceed the FCC General Population Exposure Limits.

Follow all posted signs and site guidelines for working in this RF environment.

RF WARNING SIGN

NOT TO SCALE

INFORMATION

Verizon operates telecommunications antennas at this location. Persons at least 10 feet away from any antenna and obey all posted signs.

Contact the owner of the antenna(s) before working closer than 3 feet from the antenna(s).

Contact Verizon at VISIT MyFCC.com to perform any maintenance repairs on our Verizon antennas.

This is a vital

Contact the management office if this door/exit/exit is found unsecured.

INFORMACIÓN

Esta propiedad se ubica en antenas de telecomunicaciones operadas por Verizon. Favor mantener una distancia de al menos 3 pies de cualquier antena y obedecer todas las señales.

Contacte al dueño de la antena antes de trabajar a menos de 3 pies de la antena.


Esto es vital

Contacte al área de administración si esta puerta está desbloqueada.

A5.0
Add A and E sheet (the latter for permitting) showing an elevation view of the outrigger supports.
GENERAL BUILDING CONSTRUCTION NOTES


2. CONTRACTOR SHALL SUPPLY AND INSTALL THE ELECTRICAL SYSTEM AND ANY ADDITIONAL ELECTRICAL APPARATUS, MATTER, MACHINES, AND ANY APPLICATIONS.

3. CONTRACTOR SHALL SUPPLY AND INSTALL FUNCTIONAL AND ANY ADDITIONAL ELECTRICAL APPARATUS, MACHINES, AND ANY APPLICATIONS.

4. CONTRACTOR SHALL SUPPLY AND INSTALL FUNCTIONAL AND ANY ADDITIONAL ELECTRICAL APPARATUS, MACHINES, AND ANY APPLICATIONS.

5. CONTRACTOR SHALL SUPPLY AND INSTALL FUNCTIONAL AND ANY ADDITIONAL ELECTRICAL APPARATUS, MACHINES, AND ANY APPLICATIONS.

6. CONTRACTOR SHALL SUPPLY AND INSTALL FUNCTIONAL AND ANY ADDITIONAL ELECTRICAL APPARATUS, MACHINES, AND ANY APPLICATIONS.

7. CONTRACTOR SHALL SUPPLY AND INSTALL ALL COMPONENTS OF THE ELECTRICAL SYSTEM AND ANY ADDITIONAL ELECTRICAL APPARATUS.

8. ELECTRICAL CONTRACTOR SHALL SUPPLY AND INSTALL ALL COMPONENTS OF THE ELECTRICAL SYSTEM AND ANY ADDITIONAL ELECTRICAL APPARATUS.

9. ELECTRICAL CONTRACTOR SHALL SUPPLY AND INSTALL ALL COMPONENTS OF THE ELECTRICAL SYSTEM AND ANY ADDITIONAL ELECTRICAL APPARATUS.

10. ELECTRICAL CONTRACTOR SHALL SUPPLY AND INSTALL ALL COMPONENTS OF THE ELECTRICAL SYSTEM AND ANY ADDITIONAL ELECTRICAL APPARATUS.

11. ELECTRICAL CONTRACTOR SHALL SUPPLY AND INSTALL ALL COMPONENTS OF THE ELECTRICAL SYSTEM AND ANY ADDITIONAL ELECTRICAL APPARATUS.

12. ELECTRICAL CONTRACTOR SHALL SUPPLY AND INSTALL ALL COMPONENTS OF THE ELECTRICAL SYSTEM AND ANY ADDITIONAL ELECTRICAL APPARATUS.

13. ELECTRICAL CONTRACTOR SHALL SUPPLY AND INSTALL ALL COMPONENTS OF THE ELECTRICAL SYSTEM AND ANY ADDITIONAL ELECTRICAL APPARATUS.

14. ELECTRICAL CONTRACTOR SHALL SUPPLY AND INSTALL ALL COMPONENTS OF THE ELECTRICAL SYSTEM AND ANY ADDITIONAL ELECTRICAL APPARATUS.

15. ELECTRICAL CONTRACTOR SHALL SUPPLY AND INSTALL ALL COMPONENTS OF THE ELECTRICAL SYSTEM AND ANY ADDITIONAL ELECTRICAL APPARATUS.

16. ELECTRICAL CONTRACTOR SHALL SUPPLY AND INSTALL ALL COMPONENTS OF THE ELECTRICAL SYSTEM AND ANY ADDITIONAL ELECTRICAL APPARATUS.

17. ELECTRICAL CONTRACTOR SHALL SUPPLY AND INSTALL ALL COMPONENTS OF THE ELECTRICAL SYSTEM AND ANY ADDITIONAL ELECTRICAL APPARATUS.

18. ELECTRICAL CONTRACTOR SHALL SUPPLY AND INSTALL ALL COMPONENTS OF THE ELECTRICAL SYSTEM AND ANY ADDITIONAL ELECTRICAL APPARATUS.

19. ELECTRICAL CONTRACTOR SHALL SUPPLY AND INSTALL ALL COMPONENTS OF THE ELECTRICAL SYSTEM AND ANY ADDITIONAL ELECTRICAL APPARATUS.

20. ELECTRICAL CONTRACTOR SHALL SUPPLY AND INSTALL ALL COMPONENTS OF THE ELECTRICAL SYSTEM AND ANY ADDITIONAL ELECTRICAL APPARATUS.

21. ELECTRICAL CONTRACTOR SHALL SUPPLY AND INSTALL ALL COMPONENTS OF THE ELECTRICAL SYSTEM AND ANY ADDITIONAL ELECTRICAL APPARATUS.

22. ELECTRICAL CONTRACTOR SHALL SUPPLY AND INSTALL ALL COMPONENTS OF THE ELECTRICAL SYSTEM AND ANY ADDITIONAL ELECTRICAL APPARATUS.

23. ELECTRICAL CONTRACTOR SHALL SUPPLY AND INSTALL ALL COMPONENTS OF THE ELECTRICAL SYSTEM AND ANY ADDITIONAL ELECTRICAL APPARATUS.

24. ELECTRICAL CONTRACTOR SHALL SUPPLY AND INSTALL ALL COMPONENTS OF THE ELECTRICAL SYSTEM AND ANY ADDITIONAL ELECTRICAL APPARATUS.

25. ELECTRICAL CONTRACTOR SHALL SUPPLY AND INSTALL ALL COMPONENTS OF THE ELECTRICAL SYSTEM AND ANY ADDITIONAL ELECTRICAL APPARATUS.

26. ELECTRICAL CONTRACTOR SHALL SUPPLY AND INSTALL ALL COMPONENTS OF THE ELECTRICAL SYSTEM AND ANY ADDITIONAL ELECTRICAL APPARATUS.

27. ELECTRICAL CONTRACTOR SHALL SUPPLY AND INSTALL ALL COMPONENTS OF THE ELECTRICAL SYSTEM AND ANY ADDITIONAL ELECTRICAL APPARATUS.

28. ELECTRICAL CONTRACTOR SHALL SUPPLY AND INSTALL ALL COMPONENTS OF THE ELECTRICAL SYSTEM AND ANY ADDITIONAL ELECTRICAL APPARATUS.

29. ELECTRICAL CONTRACTOR SHALL SUPPLY AND INSTALL ALL COMPONENTS OF THE ELECTRICAL SYSTEM AND ANY ADDITIONAL ELECTRICAL APPARATUS.

30. ELECTRICAL CONTRACTOR SHALL SUPPLY AND INSTALL ALL COMPONENTS OF THE ELECTRICAL SYSTEM AND ANY ADDITIONAL ELECTRICAL APPARATUS.

31. ELECTRICAL CONTRACTOR SHALL SUPPLY AND INSTALL ALL COMPONENTS OF THE ELECTRICAL SYSTEM AND ANY ADDITIONAL ELECTRICAL APPARATUS.

32. ELECTRICAL CONTRACTOR SHALL SUPPLY AND INSTALL ALL COMPONENTS OF THE ELECTRICAL SYSTEM AND ANY ADDITIONAL ELECTRICAL APPARATUS.

33. ELECTRICAL CONTRACTOR SHALL SUPPLY AND INSTALL ALL COMPONENTS OF THE ELECTRICAL SYSTEM AND ANY ADDITIONAL ELECTRICAL APPARATUS.

34. ELECTRICAL CONTRACTOR SHALL SUPPLY AND INSTALL ALL COMPONENTS OF THE ELECTRICAL SYSTEM AND ANY ADDITIONAL ELECTRICAL APPARATUS.

35. ELECTRICAL CONTRACTOR SHALL SUPPLY AND INSTALL ALL COMPONENTS OF THE ELECTRICAL SYSTEM AND ANY ADDITIONAL ELECTRICAL APPARATUS.

36. ELECTRICAL CONTRACTOR SHALL SUPPLY AND INSTALL ALL COMPONENTS OF THE ELECTRICAL SYSTEM AND ANY ADDITIONAL ELECTRICAL APPARATUS.

37. ELECTRICAL CONTRACTOR SHALL SUPPLY AND INSTALL ALL COMPONENTS OF THE ELECTRICAL SYSTEM AND ANY ADDITIONAL ELECTRICAL APPARATUS.

38. ELECTRICAL CONTRACTOR SHALL SUPPLY AND INSTALL ALL COMPONENTS OF THE ELECTRICAL SYSTEM AND ANY ADDITIONAL ELECTRICAL APPARATUS.

39. ELECTRICAL CONTRACTOR SHALL SUPPLY AND INSTALL ALL COMPONENTS OF THE ELECTRICAL SYSTEM AND ANY ADDITIONAL ELECTRICAL APPARATUS.

40. ELECTRICAL CONTRACTOR SHALL SUPPLY AND INSTALL ALL COMPONENTS OF THE ELECTRICAL SYSTEM AND ANY ADDITIONAL ELECTRICAL APPARATUS.

41. ELECTRICAL CONTRACTOR SHALL SUPPLY AND INSTALL ALL COMPONENTS OF THE ELECTRICAL SYSTEM AND ANY ADDITIONAL ELECTRICAL APPARATUS.

42. ELECTRICAL CONTRACTOR SHALL SUPPLY AND INSTALL ALL COMPONENTS OF THE ELECTRICAL SYSTEM AND ANY ADDITIONAL ELECTRICAL APPARATUS.

43. ELECTRICAL CONTRACTOR SHALL SUPPLY AND INSTALL ALL COMPONENTS OF THE ELECTRICAL SYSTEM AND ANY ADDITIONAL ELECTRICAL APPARATUS.

44. ELECTRICAL CONTRACTOR SHALL SUPPLY AND INSTALL ALL COMPONENTS OF THE ELECTRICAL SYSTEM AND ANY ADDITIONAL ELECTRICAL APPARATUS.

45. ELECTRICAL CONTRACTOR SHALL SUPPLY AND INSTALL ALL COMPONENTS OF THE ELECTRICAL SYSTEM AND ANY ADDITIONAL ELECTRICAL APPARATUS.

46. ELECTRICAL CONTRACTOR SHALL SUPPLY AND INSTALL ALL COMPONENTS OF THE ELECTRICAL SYSTEM AND ANY ADDITIONAL ELECTRICAL APPARATUS.

47. ELECTRICAL CONTRACTOR SHALL SUPPLY AND INSTALL ALL COMPONENTS OF THE ELECTRICAL SYSTEM AND ANY ADDITIONAL ELECTRICAL APPARATUS.

48. ELECTRICAL CONTRACTOR SHALL SUPPLY AND INSTALL ALL COMPONENTS OF THE ELECTRICAL SYSTEM AND ANY ADDITIONAL ELECTRICAL APPARATUS.

49. ELECTRICAL CONTRACTOR SHALL SUPPLY AND INSTALL ALL COMPONENTS OF THE ELECTRICAL SYSTEM AND ANY ADDITIONAL ELECTRICAL APPARATUS.

50. ELECTRICAL CONTRACTOR SHALL SUPPLY AND INSTALL ALL COMPONENTS OF THE ELECTRICAL SYSTEM AND ANY ADDITIONAL ELECTRICAL APPARATUS.
48. LOCATION OF ELECTRIC METER AND DISCONNECT SWITCH TO BE PROVIDED BY GENERAL CONTRACTOR.

49. CONTRACTOR SHALL INSPECT THE EXISTING CONDITIONS PRIOR TO SUBMITTING BID. ANY QUESTIONS RELATING TO THE EXISTING CONDITIONS OR TO THE CONTRACT DOCUMENTS SHOULD BE ADDRESSED TO THE GENERAL CONTRACTOR PRIOR TO PROCEEDING WITH THE BID PROCESS.

50. LOCATION OF EQUIPMENT, CONDUIT AND DEVICES SHOWN ON THE DRAWINGS ARE APPROXIMATE AND SHALL BE COORDINATED WITH FIELD CONDITIONS PRIOR TOough-in.

51. WHEN LOCATION OF INTERNAL GRID WIRE IS UNKNOWN, THE APPROPRIATE EXACT LOCATION AND ROUTING SHALL BE PER FIELD EXISTING CONDITIONS.

52. PROVIDE PULL BOXES AND JUNCTION BOXES WHERE SHOWN OR REQUIRED BY NEC.

53. ALL CONDUITS SHALL BE MET WITH BENDS MADE IN ACCORDANCE WITH NEC TABLE 364.44. NO RIGHT ANGLES OR BENDS TO BE MADE ON STANDARD CONDUIT BENDS WITH 12" MINIMUM ROLL SLEEVES FOR ALL CONDUITS 2" OR LARGER.

54. ALL CONDUIT TERMINATIONS SHALL BE PRODUCED WITH PLASTIC THREADED INSERTING GROUNDED TERMINATIONS.

55. ALL WIRE SHALL BE "THIN" THIN, SOLID, ANNEALED COPPER UPTO #8 WIRE AND #14 AND LARGER TO BE #12 COPPER STRANDED 7/30 DIA. CW, 1/2 GAGE, #12 COPPER CONDUCTOR SIZE MUST BE HIGHLIGHTED.

56. ALL WIRE SHALL BE TAGGED AT ALL PULL BOXES. JUNCTION BOXES, EQUIPMENT BOXES AND CABINETS WITH APPROVED PLASTIC TURN, ACTION GROW, BRAD, OR APPROVED EQUAL.

57. ALL NEW MATERIAL SHALL HAVE A PLT LABEL.

58. CONDUIT RIGGIN IS TO BE COORDINATED WITH THE MECHANICAL EQUIPMENT TO AVOID LOCATION TO CONFICTS. VERIFY WITH MECHANICAL CONTRACTOR AND COMPARE AS REQUIRED.

59. ALL PANEL DIRECTORIES SHALL BE TYPWRITTEN AND HAND WRITTEN.

60. INSTALL AN EQUIPMENT GROUNDING CONDUCTOR IN ALL CONDUITS PER THE SPECIFICATIONS AND NEC. THE EQUIPMENT GROUNDING CONDUCTORS SHALL BE BURIED AT ALL JUNCTION BOXES. PANEL BOXES, AND ALL DISCONNECTS, SWITCHES, STARTERS, AND EQUIPMENT CABINETS.

61. THE CONTRACTOR SHALL PREPARE AS BUILT DRAWINGS. DOCUMENT ANY AND ALL WIRING AND CIRCUIT CHANGES AND PROVIDE ADDITIONAL CONSULTS WHILE COMPLETING THIS CONTRACT. SUBMIT AT SUBSTANCIALLY COMPLETION.

62. ALL DISCONNECT SWITCHES AND OTHER CONTROLLING DEVICES SHALL BE PROVIDED WITH MOUNTING PLATES ACCEPTABLE TO THE LOCAL ELECTRICAL JURISDICTION. ALL CURRENT CARRIERS MAY BE PROVIDED TO BE INSTALLED ON, AND PANEL FIELD LOCATIONS FEW (NO EXCEPTIONS) PROVIDE SAMPLE COMPONENT FOR CONSIDERATION TO THE LOCAL ELECTRICAL JURISDICTION.

63. ALL ELECTRICAL DEVICES AND INSTALLATIONS OF THE DEVICES SHALL COMPLY WITH (ADA) AMERICANS WITH DISABILITIES ACT AS ADOPTED BY THE APPLICABLE STATE.

64. PROVIDE CORING AS NECESSARY FOR PENETRATIONS OR RUNS THROUGH BUILDINGS. DO NOT PENETRATE STRUCTURAL MEMBERS WITHOUT CONSTRUCTION MANAGER APPROVAL. SLEEVES AND/OR PIPETIONS IN FIRE RATED CONSTRUCTION SHALL BE Fitted WITH FIRE RATED MATERIAL WHICH WILL MAINTAIN THE FIRE RATINGS OF THE WALL OR STRUCTURE. FITTING FOR POLYMER WIRE, RUBBER, MINERAL, AND FLAMMABLE MATERIALS WILL BE APPROVED BY THE GENERAL CONTRACTOR AND ISSUED INSTRUCTIONS.

65. ELECTRIC CHARACTERISTICS OF ALL EQUIPMENT IS TO BE DETERMINED PRIOR TO INSTALLATION AND ONCE SHEETED, THE GENERAL CONTRACTOR SHALL BE NOTIFIED OF THE SAME. ANY AND ALL WORK ERRORS THAT MAY CAUSE ANY MISTAKES IN THE DESIGN OR PROJECTS MIGHT CAUSE THE CONTRACTOR TO BE HELD TO A MINSUM OF THE CONTRACTORS.

66. ALL EXISTING UTILITIES, FACILITIES, CONDITIONS AND THEIR DIMENSIONS SHOWN ON PLANS HAVE BEEN TAKEN FROM ANTIQUATED INFORMATION AND SHOULD NOT BE DEPENDENT ON THEM. ANY CHANGES OR ERRORS TO THE INFORMATION SHOWN ON THE PLANS MUST BE NOTIFIED TO THE DESIGNER PRIOR TO PROCEEDING WITH ANY WORK ON EXISTING UTILITIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF EXISTING UTILITIES.

67. CONTRACTOR SHALL VERIFY ALL EXISTING UTILITIES BOTH VERTICALLY AND HORIZONTALLY PRIOR TO START OF WORK, ANY DEVIATIONS OR ERRORS TO THE INTERPRETATIONS OF THE PLANS OR ANY ADDITIONAL WORK THAT IS REQUIRED TO PROTECT EXISTING UTILITIES AND COMPLY WITH THE REQUIREMENTS OF THE LOCAL ELECTRICAL JURISDICTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ANY EXISTING UTILITIES.

68. CONTRACTOR SHALL NOT CAUSE ANY DAMAGE TO OR LOSS OF EQUIPMENT OR MATERIALS DUE TO WORK ACTIVITY OR ANY DEVIATIONS FROM THE CONTRACTOR'S OWN SPECIFICATIONS.

69. CONTRACTOR SHALL NOT BE RESPONSIBLE FOR ANY DAMAGE TO OR LOSS OF EQUIPMENT OR MATERIALS DUE TO WORK ACTIVITY OR ANY DEVIATIONS FROM THE CONTRACTOR'S OWN SPECIFICATIONS.

70. CONTRACTOR SHALL NOT BE RESPONSIBLE FOR ANY DAMAGE TO OR LOSS OF EQUIPMENT OR MATERIALS DUE TO WORK ACTIVITY OR ANY DEVIATIONS FROM THE CONTRACTOR'S OWN SPECIFICATIONS.

71. CONTRACTOR SHALL NOT BE RESPONSIBLE FOR ANY DAMAGE TO OR LOSS OF EQUIPMENT OR MATERIALS DUE TO WORK ACTIVITY OR ANY DEVIATIONS FROM THE CONTRACTOR'S OWN SPECIFICATIONS.

72. CONTRACTOR SHALL NOT BE RESPONSIBLE FOR ANY DAMAGE TO OR LOSS OF EQUIPMENT OR MATERIALS DUE TO WORK ACTIVITY OR ANY DEVIATIONS FROM THE CONTRACTOR'S OWN SPECIFICATIONS.

73. CONTRACTOR SHALL NOT BE RESPONSIBLE FOR ANY DAMAGE TO OR LOSS OF EQUIPMENT OR MATERIALS DUE TO WORK ACTIVITY OR ANY DEVIATIONS FROM THE CONTRACTOR'S OWN SPECIFICATIONS.

74. CONTRACTOR SHALL NOT BE RESPONSIBLE FOR ANY DAMAGE TO OR LOSS OF EQUIPMENT OR MATERIALS DUE TO WORK ACTIVITY OR ANY DEVIATIONS FROM THE CONTRACTOR'S OWN SPECIFICATIONS.

ENVIRONMENTAL NOTES

1. ALL WORK PERFORMED SHALL BE DONE IN ACCORDANCE WITH LICENSED PERMITS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PAYMENT OF FINE AND CLEEN UP FOR ANY VIOLATIONS.

2. CONTRACTOR AND/OR DEVELOPER SHALL BE RESPONSIBLE FOR CONSTRUCTION AND MAINTENANCE OF EROSION AND SEDIMENTATION CONTROLS DURING CONSTRUCTION FOR SHOULDER AND VEHICLE PARKING AREAS. ALL EROSION AND SEDIMENTATION CONTROL MEASURES REQUIRED BY PERMITS OR PERMITS REQUIREMENTS OF THE SITE.

3. CONTRACTOR SHALL INSTALL CONSTRUCT ALL NECESSARY SEDIMENTATION CONTROL FENCING AND PROTECTIVE MEASURES WITHIN THE LIMITS OF THE ONTOIRC DUPRISATION PRIOR TO CONSTRUCTION.

4. NO SEDIMENT SHALL BE ALLOWED TO BE DUMPED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR TAKING APPROPRIATE MEASURES FOR CONTROLLING EROSION. ADDITIONAL SEDIMENT CONTROL, FENCING MAY BE REQUIRED IN ANY AREAS SUBJECT TO SEDIMENT.

5. THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING POSITIVE DRAINAGE ON THE SITE AT ALL TIMES. CEMENT MOUNDS MAINTAINED IN THE DRAINAGE SYSTEM OF THE SITE DRAINAGE. ANY DAMAGE TO ADJACENT PROPERTY AND AREAS OF EROSION WILL BE CORRECTED AT THE CONTRACTORS EXPENSE.

6. CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGES OF ANY AND ALL REPAIRS OF ANY AND ALL SEDIMENT CONTROL MEASURES INCLUDING SEDIMENT REMOVAL, AS NECESSARY.

7. CLEARING OF VEGETATION AND TREE REMOVAL SHALL BE DETERMINED PRIOR TO PROCEEDING WITH THE WORK. THE CONTRACTOR SHALL BE HELD TO A MINSUM OF THE CONTRACTORS.

8. CONTRACTOR SHALL BE HELD TO A MINSUM OF THE CONTRACTORS.

9. THE CONTRACTOR SHALL BE HELD TO A MINSUM OF THE CONTRACTORS.

10. THE CONTRACTOR SHALL BE HELD TO A MINSUM OF THE CONTRACTORS.

11. THE CONTRACTOR SHALL BE HELD TO A MINSUM OF THE CONTRACTORS.

12. THE CONTRACTOR SHALL BE HELD TO A MINSUM OF THE CONTRACTORS.

13. THE CONTRACTOR SHALL BE HELD TO A MINSUM OF THE CONTRACTORS.

14. THE CONTRACTOR SHALL BE HELD TO A MINSUM OF THE CONTRACTORS.
CONCRETE MASONRY NOTES

1. CONCRETE MASONRY UNITS SHALL BE MEDIUM WEIGHT UNITS CONFORMING TO ASTM C 65, GRADE H-1, (500+150 PSI) MEDIUM WEIGHT (1750+500 LC)
2. WEIGHT SHALL BE TYPE "B" (MINIMUM 1,700 PSF AT 28 DAYS)
3. GROUT SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 3,000 PSI AT 28 DAYS.
4. ALL CELLS CONTAINING REINFORCING STEEL OR EMBEDDED ITEMS AND ALL CELLS IN RETAINING WALLS AND FARCS BELOW GRADE SHALL BE SOLID GROUTED
5. ALL HORIZONTAL REINFORCEMENT SHALL BE PLACED IN BOND BEAM OR LINTEL BEAM UNITS
6. WHEN GROUTING IS STOPPED FOR ONE HOUR OR LONGER, HORIZONTAL REINFORCEMENT JOINTS SHALL BE FORMED BY STOPPING THE GROUT POURED 1-1/2" BELOW TOP OF THE UPPERMOST UNIT.
7. ALL BOND BEAM BLOCKS SHALL BE "DEEP CUT" UNITS.
8. PROVIDE INSPECTION AND CLEANOUT HOLES AT BASE OF VERTICAL CELLS HAVING GROUT LIFTS IN EXCESS OF 2'-0" IN HEIGHT.
9. ALL GROUT JOINTS ARE CONSOLIDATED WITH A MECHANICAL VIBRATOR.
10. GROUT SHALL BE AS SPECIFIED FOR CONCRETE.
11. REINFORCING BARS - SEE NOTES UNDER "STRUCTURAL CONCRETE CODE" FOR REQUIREMENTS.
12. PROVIDE ONE BAR DIAMETER (A MINIMUM OF 1/2") GROUT BETWEEN MAIN REINFORCING AND MASONRY UNITS.
13. LOW-LIFT CONSTRUCTION, MAXIMUM GROUT PURITY HEIGHT IS 4 FEET.
14. ALL CELLS IN CONCRETE BLOCKS SHALL BE FILLED SOLID WITH GROUT, EXCEPT AS NOTED IN DRAWINGS OR SPECIFICATIONS.
15. CELLS SHALL BE IN VERTICAL ALIGNMENT. DOORS AND WINDOWS SHALL BE SET TO ALIGN WITH CORES CONTAINING REINFORCING STEEL.
16. REFER TO ARCHITECTURAL DRAWINGS FOR SURFACE AND HEIGHT OF UNITS, LAYING PATTERN AND JOINT TYPE.
17. SAND SHALL BE CLEAN, SHARP AND WELL GRADED. FREE FROM INJURIOUS AMOUNTS OF DUST, LUMPS, SHALE, ALGIN OR ORGANIC MATERIAL.
18. B Rick shall conform to ASTM C-63 and shall be grade AN OR BETTER.

STRUCTURAL CONCRETE NOTES

1. ALL CONCRETE WORK SHALL BE IN ACCORDANCE WITH THE ACI 318-11 AND THE SPECIFICATION FOR CAST IN PLACE CONCRETE.
2. ALL CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 3,000 PSI AT 28 DAYS UNLESS NOTED OTHERWISE.
3. REINFORCING STEEL SHALL CONFORM TO ASTM A 615, GRADE 60, DEFORMED UNLESS NOTED OTHERWISE. HEADED WIRE FABRIC SHALL CONFORM TO ASTM A 484-85 STEEL Wired WIRE Fabric UNLESS NOTED OTHERWISE. SPIRALS, CLASPB "B" AND ALL HOURS SHALL BE STANDARD UNLESS NOTED OTHERWISE.
4. THE FOLLOWING MINIMUM CONCRETE COVER SHALL BE PROVIDED FOR REINFORCING STEEL UNLESS SHOWN OTHERWISE ON DRAWINGS:

   | Concrete Cast Against Earth | 3 IN |
   | Concrete Exposed to Earth or Weather | 6 IN |
   | 8 IN AND LARGER | 1-1/2 IN |
   | 4 IN AND SMALLER | 1/2 IN |
5. CONCRETE NOT EXPOSED TO EARTH OR WEATHER OR NOT CAST AGAINST THE GROUND | 3/4 IN |

BEAMS AND COLUMNS | 1-1/2 IN |

6. A 3" CHAMFER SHALL BE PROVIDED AT ALL EXPOSED EDGES OF CONCRETE UNLESS NOTED OTHERWISE IN ACCORDANCE WITH ACI 318-11, LATEST EDITION, SECTION 5.4.7.
7. HOLES FOR REINFORCEMENT ANCHORS SHALL BE 3" DEEP THAN THE ANCHOR BOLT, NUTS OR ROD AND SHALL CONFORM TO MANUFACTURER'S RECOMMENDATION FOR EMBEDMENT DEPTH OR AS SHOWN ON THE DRAWINGS. LOCATE AND MARK CUTTING EXISTING REPAIR OR TÉAMS WHEN DRILLING HOLES IN ELEVATED CONCRETE SLABS OR CONCRETE WALLS.
8. USE AND INSTALLATION OF CONCRETE EXPANSION ANCHOR, SHALL BE PER VAO 018, MANUFACTURER'S WRITTEN RECOMMENDATIONS AND PROCEDURES. THIRD PARTY SPECIAL INSPECTION IS REQUIRED FOR 5/16" KIN, 3/16" EXPANSION ANCHORS PURCHASED AFTER 5/15 CONCRETE EXPANSION ANCHOR, INSTALLATION OF WEDGE ANCHORS (S.1.9 KIN BOLT TAZ ANCHORS) IN MASONRY IS NOT PERMITTED.

GNN 3
SPECIAL INSPECTION NOTES

INSPECTION OF HIGH-STRENGTH BOLTING (PER ANSI A300-10, SECTION II)

Observation of Bolting Operations shall be the primary method used to confirm that the materials, procedures and workmanship incorporated in construction are in conformance with the construction documents and the provisions of the ANSI specification.

1. For SNS-THIN joints, pre-installation verification testing as specified in Table N5-6.1 and monitoring of the installation procedures as specified in Table N6-6.2 are not applicable. The C21 and C5G need not be present during the installation of fasteners in SNS-THIN joints.

2. For Pretensioned, Joints and/or Critical Joints, when the Installer is using the calibrated method, with or without both methods included, as the pretensioning method, the pretensioning reading method, or the calibrated method. Monitoring of bolt pretensioning procedures shall be as specified in Table N6.2. The C21 and C5G shall be placed in their assigned inspection duties during installation of fasteners when these methods are used by the Installer.

3. For Pretensioned, Joints and/or Critical Joints, when the Installer is using the calibrated method, with or without both methods included, as the pretensioning method, the pretensioning reading method, or the calibrated method. Monitoring of bolt pretensioning procedures shall be as specified in Table N6.2. The C21 and C5G shall be placed in their assigned inspection duties during installation of fasteners when these methods are used by the Installer.

4. Minimum Bolting Inspection Tasks are as follows:

- Conducting Inspections with Tables N6.1-1, N6.2 and N6.3. In these tables, the inspection tasks are as follows:
  - Observe these items on a random basis. Operations need not be delayed pending these inspections.
  - Perform these tasks for each bolted connection.

5. Table N5.6-1 Inspection Tasks Prior to Bolting

<table>
<thead>
<tr>
<th>TABLE N5.6-1</th>
<th>INSPECTION TASKS PRIOR TO BOLTING</th>
</tr>
</thead>
</table>

| TABLE N5.6-2 | INSPECTION TASKS DURING BOLTING |

| TABLE N5.6-3 | INSPECTION TASKS AFTER BOLTING |

<table>
<thead>
<tr>
<th>DRAWING ABBREVIATIONS</th>
</tr>
</thead>
<tbody>
<tr>
<td>AFF</td>
</tr>
<tr>
<td>ASL</td>
</tr>
<tr>
<td>AWG</td>
</tr>
<tr>
<td>B</td>
</tr>
<tr>
<td>BLDG</td>
</tr>
<tr>
<td>CM</td>
</tr>
<tr>
<td>CAB</td>
</tr>
<tr>
<td>C1</td>
</tr>
<tr>
<td>C2</td>
</tr>
<tr>
<td>CLR</td>
</tr>
<tr>
<td>CCI</td>
</tr>
<tr>
<td>COM</td>
</tr>
<tr>
<td>CON</td>
</tr>
<tr>
<td>CON</td>
</tr>
<tr>
<td>CONT</td>
</tr>
<tr>
<td>DC</td>
</tr>
<tr>
<td>DEMO</td>
</tr>
<tr>
<td>DIA OR B</td>
</tr>
<tr>
<td>DM</td>
</tr>
<tr>
<td>DN</td>
</tr>
<tr>
<td>DTL</td>
</tr>
<tr>
<td>DUM</td>
</tr>
<tr>
<td>EA</td>
</tr>
<tr>
<td>ELEC</td>
</tr>
<tr>
<td>ELV</td>
</tr>
<tr>
<td>EN</td>
</tr>
<tr>
<td>EQUIP</td>
</tr>
<tr>
<td>EXT</td>
</tr>
<tr>
<td>FIN</td>
</tr>
<tr>
<td>FLL</td>
</tr>
<tr>
<td>FRP</td>
</tr>
<tr>
<td>FTY</td>
</tr>
<tr>
<td>GA</td>
</tr>
<tr>
<td>GNL</td>
</tr>
<tr>
<td>GC</td>
</tr>
<tr>
<td>GLB</td>
</tr>
<tr>
<td>GMW</td>
</tr>
<tr>
<td>GR</td>
</tr>
<tr>
<td>GMRD</td>
</tr>
<tr>
<td>HHC</td>
</tr>
<tr>
<td>HRT</td>
</tr>
<tr>
<td>HT</td>
</tr>
<tr>
<td>IBC</td>
</tr>
<tr>
<td>ID</td>
</tr>
<tr>
<td>IN</td>
</tr>
<tr>
<td>INSUL</td>
</tr>
<tr>
<td>INT</td>
</tr>
<tr>
<td>JBX</td>
</tr>
<tr>
<td>LRG</td>
</tr>
</tbody>
</table>

SITE NAME: HON BUILDING
SITE ADDRESS: 303 (COW)
SITE DESCRIPTION: 4201 DIAMOND HEAD ROAD, BUILDING 303, HONOLULU, HAWAII