

GENERAL NOTES

- INVESTIGATE, VERIFY AND BE RESPONSIBLE FOR PROJECT CONDITIONS INCLUDING ELEVATIONS, UNDERGROUND OBSTACLES, GRADES AND DIMENSIONS. REPORT DISCREPANCIES TO CONTRACTING OFFICER BEFORE COMMENCING WORK.
- VERIFY THE LOCATION OF EXISTING UTILITIES, WHETHER SHOWN ON DRAWINGS OR NOT, AND BE RESPONSIBLE FOR REPAIR OR REPLACEMENT OF THE SAME IN THE EVENT OF DAMAGE DUE TO CONSTRUCTION ACTIVITIES.
- VERIFY DIMENSIONS AND CONDITIONS AND REPORT DISCREPANCIES IN WRITING TO CONTRACTING OFFICER BEFORE COMMENCING WORK OR ORDERING MATERIALS.
- PERFORM EXISTING CONDITIONS SURVEY PRIOR TO BID. NO EXTRA COST WILL BE APPROVED BASED ON CONTRACTOR'S FAILURE TO OBSERVE CONFLICTING EXISTING CONDITIONS AND PROVIDE FOR THEIR CORRECTIONS.
- NOTIFY THE CONTRACTING OFFICER OF DISCREPANCIES OF CONSTRUCTION DRAWINGS/SPECIFICATIONS OR CLARIFICATIONS NEEDED PRIOR TO COMMENCEMENT OF WORK.
- FOR INSTALLATION OF NEW ITEMS TO EXISTING STRUCTURES, VERIFY THE EXISTING CONDITIONS AT PROJECT SITE AND INCLUDE ITEMS FOR A COMPLETE INSTALLATION, WHETHER SHOWN OR NOT.
- BE RESPONSIBLE FOR CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES AND PROCEDURES, FOR COORDINATION OF WORK INCLUDING TEMPORARY BRACING, SHORING, SCAFFOLDING, AND DEWATERING.
- LAYOUT WORK WITH PRECISION AND ACCURACY THROUGHOUT PROJECT.
- OBSERVE AND COMPLY WITH FEDERAL, STATE AND LOCAL LAWS REQUIRED FOR THE PROTECTION OF PUBLIC HEALTH AND SAFETY AND ENVIRONMENTAL QUALITY.
- DO NOT TAKE ADVANTAGE OF APPARENT ERRORS OR OMISSIONS IN THE CONTRACT DOCUMENTS.
- BE RESPONSIBLE FOR INITIATING, MAINTAINING AND SUPERVISING SAFETY PRECAUTIONS AND PROGRAMS ON OR OFF JOBSITE.
- DETAILS SHOWN ON DRAWINGS SHALL BE TYPICAL FOR SIMILAR CONDITIONS. MODIFY DETAILS FOR SPECIAL CONDITIONS FOR APPROVAL BY THE CONTRACTING OFFICER.
- WHEN EXCAVATION IS ADJACENT TO OR UNDER EXISTING STRUCTURES, FACILITIES, OR GUY ANCHORS, BE RESPONSIBLE FOR PROPERLY SHEETING AND BRACING THE EXCAVATION AND STABILIZING THE EXISTING GROUND TO RENDER IT SAFE AND SECURE FROM POSSIBLE SLIDES, CAVE-INS AND SETTLEMENT, AND FOR PROPERLY SUPPORTING EXISTING STRUCTURES AND FACILITIES WITH BEAMS, STRUTS OR UNDERPINNING TO FULLY PROTECT IT FROM DAMAGE.
- IMMEDIATELY CORRECT WORK REJECTED BY THE CONTRACTING OFFICER OR WORK FAILING TO CONFORM TO REQUIREMENTS RELEVANT TO CONSTRUCTION DOCUMENTS OR INDUSTRY STANDARDS.
- PERFORM CUTTING, FITTING, PATCHING, EXCAVATING AND BACKFILLING WHICH MAY BE REQUIRED TO MAKE WORK AND ITS PARTS, COME TOGETHER PROPERLY.
- REPAIR/REPLACE DAMAGED OR LOSS TO PROJECT PROPERTY CAUSED BY CONTRACTOR OR ANYONE DIRECTLY EMPLOYED BY CONTRACTOR OR SUBCONTRACTORS.
- PATCH, REPAIR AND RESTORE DAMAGED SURFACES TO MATCH ADJACENT FINISHED SURFACES. FINISHED SURFACES OR REPAIRED AREA SHALL BE FLUSH WITH ADJACENT SURFACES AND SHALL MATCH ADJACENT SURFACE AS CLOSELY AS POSSIBLE AS TO TEXTURE AND FINISH.
- BE RESPONSIBLE FOR COMPLETE WEATHER TIGHT STRUCTURES SUITABLE UNDER LOCAL CONDITIONS.
- UPON COMPLETION, RESTORE SITE TO ORIGINAL OR BETTER CONDITION, CLEAN UP WORK AREA AND DISPOSE DEBRIS OFF-SITE.
- EXISTING COMMUNICATIONS EQUIPMENT MUST REMAIN IN OPERATION DURING CONSTRUCTION WORK.
- NO INTERRUPTION OF POWER IS ALLOWED. PROVIDE BACK-UP FACILITIES WHEN REQUIRED BY WORK CONDITIONS.
- FIRE SAFETY DURING CONSTRUCTION, OPERATION OR DEMOLITION SHALL COMPLY WITH ARTICLE 87, 1997 UNIFORM FIRE CODE.
- PROVIDE PORTABLE FIRE EXTINGUISHER(S) (MIN 2A-10BC) IN ACCORDANCE WITH 1997 UFC SECTION 1002, 1997 UFC STANDARD 10-01.
- INSTALL EQUIPMENT IN ACCORDANCE WITH IBC REQUIREMENTS. SEE T-2
- OPERATION OF AND ACCESS TO NEIGHBORING HAWAIIAN TELCOM FACILITY MUST BE MAINTAINED. IN CASE OF DAMAGE TO HAWAIIAN TELCOM FACILITY, CALL (808)-643-4835 IMMEDIATELY.

GRADING NOTES

- GRADING WORK SHALL CONFORM TO CHAPTER 10 OF THE HAWAII COUNTY CODE AND GEOTECHNICAL ENGINEERING REPORT ENTITLED "GEOTECHNICAL ENGINEERING EXPLORATION D.A.G.S. ANUENUE RADIO SITES AND TOWERS - HALAI HILL HILO, ISLAND OF HAWAII," DATED APRIL 1, 2010, PREPARED BY GEOLABS, INC. SHOULD A GRADING PERMIT BE REQUIRED, NO WORK SHALL COMMENCE UNTIL THE D.P.W. APPROVES A GRADING PERMIT.
- NO CONTRACTOR SHALL PERFORM ANY GRADING OPERATION SO AS TO CAUSE FALLING ROCKS, SOIL OR DEBRIS IN ANY FORM TO FALL, SLIDE OR FLOW ONTO ADJOINING PROPERTIES, STREETS OR NATURAL WATERCOURSES. SHOULD SUCH VIOLATIONS OCCUR, THE CONTRACTOR MAY BE CITED AND THE CONTRACTOR SHALL IMMEDIATELY MAKE ALL REMEDIAL ACTIONS NECESSARY.
- KEEP THE PROJECT AREA AND SURROUNDING AREA FREE FROM DUST NUISANCE. THE WORK SHALL BE IN CONFORMANCE WITH THE AIR POLLUTION CONTROL STANDARDS AND REGULATIONS OF THE STATE DEPARTMENT OF HEALTH CONTAINED IN CHAPTER 11-60, "AIR POLLUTION CONTROL".
- THE UNDERGROUND PIPES, CABLES OR DUCT LINES KNOWN TO EXIST BY THE ENGINEER FROM HIS SEARCH OF RECORDS ARE INDICATED ON THE PLANS. THE CONTRACTOR SHALL VERIFY THE LOCATIONS AND DEPTHS OF THE FACILITIES AND EXERCISE PROPER CARE IN EXCAVATING IN THE AREA WHEREVER CONNECTIONS OF NEW UTILITIES ARE SHOWN ON THE PLANS. THE CONTRACTOR SHALL EXPOSE THE EXISTING LINES AT THE PROPOSED CONNECTIONS TO VERIFY THEIR LOCATIONS AND DEPTHS PRIOR TO EXCAVATION FOR THE NEW LINES.
- ADEQUATE PROVISIONS SHALL BE MADE TO PREVENT SURFACE WATERS FROM DAMAGING THE CUT FACE OF AN EXCAVATION OR THE SLOPED SURFACES OF A FILL. FURTHERMORE, ADEQUATE PROVISIONS SHALL BE MADE TO PREVENT SEDIMENT-LADEN RUN-OFF FROM LEAVING THE SITE.
- GRADING MUST BE COORDINATED WITH AND APPROVED IN ADVANCE BY THE CONTRACTING OFFICER.
- FILLS ON SLOPES STEEPER THAN 5:1 SHALL BE KEYED.
- NO GRADING WORK SHALL BE DONE ON SATURDAYS, SUNDAYS, AND HOLIDAYS AT ANY TIME WITHOUT PRIOR APPROVAL FROM THE CONTRACTING OFFICER. GRADING WORK ON NORMAL WORKING DAYS SHALL BE BETWEEN THE HOURS OF 8:30 AM TO 3:30 PM.
- THE LIMITS OF THE AREA TO BE GRADED SHALL BE FLAGGED BEFORE THE COMMENCEMENT OF THE GRADING WORK.
- GRADING OPERATIONS SHALL BE PERFORMED IN CONFORMANCE WITH THE APPLICABLE PROVISIONS OF THE WATER POLLUTION CONTROL AND WATER QUALITY STANDARDS CONTAINED IN HAWAII ADMINISTRATIVE RULES, CHAPTER 11-55, "WATER POLLUTION CONTROL" AND CHAPTER 11-54, "WATER QUALITY STANDARDS" TO THE EROSION AND SEDIMENTATION CONTROL STANDARDS AND GUIDELINES OF THE DEPARTMENT OF PUBLIC WORKS, COUNTY OF HAWAII, AND IF APPLICABLE, THE NPDES PERMIT FOR THE PROJECT.
- WHERE APPLICABLE AND FEASIBLE THE MEASURES TO CONTROL EROSION AND OTHER POLLUTANTS SHALL BE IN PLACE BEFORE ANY EARTH MOVING PHASE OF THE GRADING IS INITIATED.
- TEMPORARY EROSION CONTROLS SHALL NOT BE REMOVED BEFORE PERMANENT EROSION CONTROLS ARE IN-PLACE AND ESTABLISHED.
- TEMPORARY EROSION CONTROL PROCEDURES SHALL BE SUBMITTED FOR APPROVAL PRIOR TO APPLICATION FOR GRADING PERMIT.
- IF CONTAMINATED SOIL IS ENCOUNTERED, GRADING WORK SHALL BE DONE IN CONFORMANCE WITH APPLICABLE STATE AND FEDERAL REQUIREMENTS. INFORM THE CONTRACTING OFFICE.
- NON-COMPLIANCE TO ANY OF THE ABOVE REQUIREMENTS SHALL MEAN IMMEDIATE SUSPENSION OF ALL WORK, AND REMEDIAL WORK SHOULD COMMENCE IMMEDIATELY. ALL COSTS INCURRED SHALL BE BILLED TO THE PERMITTEE. FURTHERMORE, VIOLATORS SHALL BE SUBJECT TO ADMINISTRATIVE, CIVIL AND/OR CRIMINAL PENALTIES.
- PROVIDE DUST CONTROL MEASURES WHERE WATER IS USED FOR DUST CONTROL, CONTRACTOR SHALL APPLY WATER ONLY IN QUANTITIES SUFFICIENT FOR THAT PURPOSE, AND PREVENT SIGNIFICANT RUNOFF.
- FOR BENCH MARK LOCATION, SEE SHEET C-2.

NOTES ON EXISTING TOPOGRAPHY

- VISIBLE UTILITY STRUCTURES HAVE BEEN LOCATED IN THE FIELD, HOWEVER, CONNECTION OF UNDERGROUND UTILITY LINES AS SHOWN ARE UNVERIFIED AND COMPILED FROM EXISTING DATA. UNDERGROUND UTILITIES SHOWN HEREON ARE FOR INFORMATION ONLY, HAVING BEEN OBTAINED FROM THE BEST AVAILABLE SOURCES, BUT FROM OTHERS NOT CONNECTED WITH THIS COMPANY. THEREFORE, THE CONSULTANTS NOR THE STATE OF HAWAII CANNOT GUARANTEE THE ACCURACY OR COMPLETENESS OF SAID INFORMATION.
- VERIFY THE TOPOGRAPHIC INFORMATION SHOWN ON THESE DRAWINGS WITH FIELD INVESTIGATION PRIOR TO THE PREPARATION OF HIS BID AND ACCOUNT FOR DEVIATIONS OF THE FIELD CONDITION FROM THESE DRAWINGS IN HIS BID.

PERMITTEE NOTES TO CONTROL DRAINAGE & EROSION

- EROSION CONTROL MEASURES SHALL BE IN PLACE BEFORE ANY DEMOLITION WORK IS STARTED.
- EXPOSED AREAS AND CUT SLOPES SHALL BE PAVED OR GRASSED AS SOON AS FINISHED GRADING IS COMPLETED.
- PREVENT DUST RESULTING FROM WORK FROM BECOMING AIR-BORNE AT ALL TIMES INCLUDING NON-WORKING HOURS, WEEKENDS AND HOLIDAYS. IN CONFORMANCE WITH STATE DEPARTMENT OF HEALTH ADMINISTRATIVE RULES, TITLE 11, CHAPTER 60-AIR POLLUTION CONTROL.
- TEMPORARY EROSION CONTROLS SHALL NOT BE REMOVED BEFORE PERMANENT EROSION CONTROLS ARE IN PLACED AND ESTABLISHED. CONTRACTOR IS THE SOLE PARTY RESPONSIBLE FOR THE ADEQUACY OF TEMPORARY EROSION CONTROL MEASURES TO PROTECT THE WORK FROM THE EFFECTS OF WATER AND ALSO TO PROTECT ADEQUATE PROPERTIES FROM THE EFFECTS OF THE WORK.

NOTE REGARDING DISCOVERIES OF ARCHAEOLOGICAL INTEREST

- SHOULD HISTORIC SITES SUCH AS WALLS, PLATFORMS, PAVEMENTS AND MOUNDS, OR REMAINS SUCH AS ARTIFACTS, BURIALS, CONCENTRATION OF CHARCOAL OR SHELLS ARE ENCOUNTERED DURING CONSTRUCTION WORK, WORK SHALL CEASE IN THE IMMEDIATE VICINITY OF THE FIND AND THE FIND SHALL BE PROTECTED FROM FURTHER DAMAGE. IMMEDIATELY CONTACT THE CONTRACTING OFFICER AND THE STATE HISTORIC PRESERVATION DIVISION (1-808-692-8015), WHICH WILL ASSESS THE SIGNIFICANCE OF THE FIND AND RECOMMEND AS APPROPRIATE MITIGATION MEASURE, IF NECESSARY.

SPECIAL INSPECTION (IBC CHAPTER 17)

- SPECIAL INSPECTION SHALL BE PERFORMED PER REQUIREMENTS OF CHAPTER 17 OF THE INTERNATIONAL BUILDING CODE (2003 EDITION) AS AMENDED BY THE CITY & COUNTY OF HONOLULU.

SPECIAL INSPECTION SCHEDULE ESTABLISHED PER 2003 IBC SECTION 109 & CHAPTER 17			
ITEM	CONTINUOUS INSPECTION	PERIODIC INSPECTION	COMMENTS
FOUNDATION EXCAVATION			
RETAINING WALLS	X		
RADIO EQUIPMENT ROOM	X		
FUEL TANK PAD	X		
ANTENNA PAD	X		
PROBING AND GROUTING			
RADIO EQUIPMENT ROOM	X		
ANTENNA PAD	X		
BACKFILLING OF RETAINING WALLS	X		

- THE SPECIAL INSPECTOR SHALL SUBMIT A SIGNED FINAL REPORT TO THE BUILDING DEPARTMENT AND CONTRACTING OFFICER.
- STATE WILL ENGAGE THE SERVICES OF AN INDEPENDENT STRUCTURAL ENGINEER TO PROVIDE INSPECTIONS INCLUDING SPECIAL INSPECTIONS IN ACCORDANCE WITH SECTION 1709 OF THE IBC. OBSERVED DEFICIENCIES SHALL BE REPORTED IN WRITING.
- ENGAGE A QUALIFIED INDEPENDENT TESTING AND INSPECTING AGENCY TO SAMPLE MATERIALS, PERFORM TESTS, AND SUBMIT TEST REPORTS TO STATE.

ADD 1	1	ADDED NOTES	1	5/10	[Signature]
REVISION NO.	SYL	DESCRIPTION	SHT. OF	DATE	APPROVED: PUBLIC WORKS ADMINISTRATOR
		DEPT. OF ACCOUNTING & GENERAL SERVICES DIVISION OF PUBLIC WORKS STATE OF HAWAII INFORMATION AND COMMUNICATION SERVICES DIVISION HILO MAUKA RADIO SITE AND TOWER HILO, HAWAII 96720 HILO, HAWAII T.M.K. 2-3-022:037			
THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION [Signature]		CONSTRUCTION NOTES DACS JOB NO. 11-10-0479 DRAWING NO. C-1 DATE APR 5 2010 SHEET 4 OF 6 SCALE: AS NOTED			

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