

# GENERAL NOTES:

- "AS-BUILT DRAWINGS" SHALL BE SUBMITTED TO THE STATE PRIOR TO FINAL APPROVAL OF THESE IMPROVEMENTS. CONTRACTOR TO PAY FOR ALL COSTS ASSOCIATED WITH THIS REQUIREMENT.
- CONTRACTOR SHALL PROTECT ALL EXISTING UTILITIES WHETHER SHOWN ON THE PLANS OR NOT. BEFORE DISRUPTING SERVICE OF ANY UTILITY, THE CONTRACTOR SHALL CONTACT THE AIRPORT MANAGER AND APPROPRIATE RESPONSIBLE UTILITY AUTHORITY. DAMAGE TO UTILITIES AS A RESULT OF HIS CONSTRUCTION ACTIVITIES SHALL BE REPAIRED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE STATE.
- THE CONTRACTOR SHALL VERIFY AND CHECK ALL DIMENSIONS AND DETAILS SHOWN ON THE DRAWINGS PRIOR TO THE START OF CONSTRUCTION. ANY DISCREPANCY SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE DIRECTOR OF THE STATE DEPARTMENT OF TRANSPORTATION FOR CLARIFICATION.
- THE EXISTING UTILITIES SHOWN ON THESE DRAWINGS ARE ONLY APPROXIMATE. THE CONTRACTOR SHALL VERIFY THESE INFORMATIONS BY TONING, HAND-DIGGING, ETC. PRIOR TO STARTING EXCAVATION WORK. IN ADDITION, THE CONTRACTOR SHALL CONTACT AND COORDINATE WORK INVOLVING OR AFFECTING THE EXISTING UTILITIES WITH THE PROPER AUTHORITIES, BOTH PUBLIC AND PRIVATE, TO MINIMIZE DAMAGES AND DISRUPTION TO SERVICE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DAMAGES RESULTING FROM HIS OPERATIONS AND FOR THE COST OF REPAIRS THERETO.
- THE CONTRACTOR SHALL RESTORE TO THEIR ORIGINAL CONDITION ALL DAMAGES TO EXISTING IMPROVEMENTS AS A RESULT OF THE CONSTRUCTION, INCLUDING PAVEMENTS, EMBANKMENTS, CURBS, SIGNS, LANDSCAPING, STRUCTURES, UTILITIES, WALLS, FENCES, ETC. UNLESS PROVIDED FOR SPECIFICALLY IN THE PROPOSAL, DEMOLITION AND RESTORATION OF EXISTING ITEMS SHALL BE INCIDENTAL TO THE VARIOUS ITEMS OF WORK.
- EXISTING UTILITY STRUCTURES (SEWER MANHOLES, ELECTRICAL HANDHOLES, VALVE BOXES, ETC.) WHETHER SHOWN ON THE PLANS OR NOT, SHALL BE ADJUSTED TO MATCH THE NEW FINISH GRADES. UNLESS OTHERWISE SPECIFIED, THE COST SHALL BE INCIDENTAL TO THE VARIOUS ITEMS OF WORK.
- THE CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR HIS CONSTRUCTION METHODS AND FOR JOB SITE SAFETY REQUIREMENTS AND PRECAUTIONS.
- THE CONTRACTOR SHALL VERIFY THE LOCATIONS (HORIZONTAL & VERTICAL) OF ALL STRUCTURES, UTILITIES, ETC., PRIOR TO START OF ANY WORK. ANY DISCREPANCY SHALL BE BROUGHT TO THE ATTENTION OF THE DIRECTOR AND ANY CHANGES SHALL BE MADE IN ACCORDANCE WITH HIS INSTRUCTIONS. STARTING WORK ON THE PARTICULAR ACTIVITY SHALL BE CONSTRUED TO MEAN THAT THE CONTRACTOR AGREES THAT THE EXISTING LOCATION ARE ESSENTIALLY CORRECT AS SHOWN. NO EXTRA COMPENSATION WILL BE ALLOWED IF THERE IS AN ERROR IN THE LOCATION (HORIZONTAL & VERTICAL) IF HE FAILS TO REPORT THE DISCREPANCIES BEFORE PROCEEDING WITH THE WORK.

## DEMOLITION NOTES:

- UNDERGROUND UTILITIES (IRRIGATION SYSTEMS, SYPHONS, DRAINAGE, ELECTRICAL, ETC.) AS SHOWN ARE FOR INFORMATION ONLY AND WERE GATHERED FROM AVAILABLE PLANS WITHIN THE PROJECT AREA. THEREFORE THE LOCATION AND/OR DEPTH OF THESE UTILITIES ARE APPROXIMATE AND ARE NOT GUARANTEED BY THE CONSULTANTS NOR BY THE STATE OF HAWAII. THE CONTRACTOR SHALL BE RESPONSIBLE TO DETERMINE THE LOCATION OF THESE UTILITIES AND SHALL SEE TO IT THAT HIS WORKMEN OR OPERATORS SHALL BE APPRISED OF THE UTILITIES EXISTENCE AND LOCATION.
- CONTRACTOR SHALL COORDINATE WITH UTILITY COMPANIES OR APPROPRIATE AUTHORITIES FOR THE REMOVAL AND RELOCATION OF EXISTING UTILITIES IN ORDER THAT THESE WORKS MAY PROCEED IN A REASONABLE MANNER AND WILL NOT DELAY THE PROGRESS OF THE CLEARING, GRUBBING AND GRADING OPERATIONS. ANY INTERRUPTION OF EXISTING SERVICES SHALL BE APPROVED BY THE DIRECTOR. ABANDONMENT OF EXISTING UTILITY LINES AND APPURTENANCES SHALL BE DONE ONLY AFTER THE NEW UTILITY SYSTEMS ARE OPERATIONAL AND ACCEPTED BY RESPONSIBLE AGENCIES.
- THE CONTRACTOR SHALL CONTACT THE OWNERS OF THE VARIOUS UTILITIES PRIOR TO START OF CLEARING AND GRUBBING TO COORDINATE THE WORK TO BE DONE BY THE UTILITY'S OWN FORCES AS WELL AS TO OBTAIN FROM THEM ANY INFORMATION PERTAINING TO EXISTING UTILITIES THAT WILL EITHER SUPPLEMENT THE INFORMATION SHOWN ON THE PLANS OR WILL CORRECT ANY SUCH INFORMATION THAT MAY BE IN ERROR.
- EXISTING PIPES TO BE ABANDONED SHALL BE SECURELY SEALED WITH TIGHT-FITTING PLUG OR A WALL OF CLASS "B" CONCRETE NOT LESS THAN 6" THICK. ALL ABANDONED PIPES UNDER THE NEW PAVEMENT AND GRADED AREAS THAT ARE WITHIN 36" INCHES OF THE FINISHED GRADE SHALL BE REMOVED.
- ALL STRUCTURES (CONCRETE HEADWALLS, ETC.) TO BE REMOVED SHALL BE DISPOSED OF OFFSITE TO APPROVED COUNTY DUMPSITE OR TO LOCATION DESIGNATED BY THE DIRECTOR WITHIN THE AIRPORT PROPERTY. COST OF DISPOSAL, INCLUDING COUNTY DUMPSITE FEES, SHALL BE INCIDENTAL TO CLEARING AND GRUBBING.
- EXISTING CONCRETE SLABS AND PAVEMENTS MAY REMAIN, PROVIDED THEY ARE NOT WITHIN THREE (3) FEET OF THE FINISHED GRADE. CONCRETE SLABS AND PAVEMENTS REMOVED MAY BE USED AS FILL MATERIAL IF THEY ARE BROKEN UP INTO WELL GRADED MATERIAL WITH PARTICLE SIZES NOT MORE THAN 8 INCHES IN DIAMETER.
- ALL EXISTING IMPROVEMENTS, UTILITIES, TRAFFIC SIGNS & LANDSCAPING THAT ARE TO BE REMOVED, ABANDONED AND/OR RELOCATED ARE SHOWN ON THE VARIOUS CONSTRUCTION PLANS.
- COST OF PAVEMENT REMOVAL UNDER NEW PAVEMENTS, GRASSED ISLANDS AND MEDIANS SHALL BE INCIDENTAL TO THE VARIOUS ITEMS OF WORK.

## PERMITTEE NOTES TO CONTROL DRAINAGE & EROSION:

- CONTROL DUST BY MEANS OF WATERWAGONS OR BY INSTALLING TEMPORARY SPRINKLER SYSTEMS OR BOTH IF NECESSARY.
- GRADED AREAS SHALL BE THOROUGHLY WATERED AFTER CONSTRUCTION ACTIVITY HAS CEASED FOR THE DAY AND FOR WEEKENDS AND HOLIDAYS.
- ALL EXPOSED AREAS SHALL BE PAVED, GRASSED OR PERMANENTLY LANDSCAPED AS SOON AS FINISHED GRADING IS COMPLETED.
- CONTRACTOR SHALL BE RESPONSIBLE TO OBTAIN AND PAY FOR WATER NECESSARY FOR DUST CONTROL AND IRRIGATION PURPOSES.

## NOTES FOR RELOCATION OF UTILITY POLES:

CONTRACTOR SHALL COORDINATE HIS WORK SCHEDULE WITH UTILITY COMPANIES FOR POLE RELOCATION AND RELATED WORK. COST OF POLE RELOCATION WILL BE PAID BY THE STATE DIRECTLY TO THE UTILITY COMPANIES.

## NOTES FOR CONSTRUCTION WITHIN STATE RIGHT-OF-WAY

- THE CONTRACTOR SHALL OBTAIN A CONSTRUCTION PERMIT FROM THE STATE'S HIGHWAY DISTRICT ENGINEER AT THE MAUI DISTRICT OFFICE AT KAHLUI, MAUI, PRIOR TO THE COMMENCEMENT OF WORK WITHIN THE STATE HIGHWAY RIGHT-OF-WAY.
- CONSTRUCTION AND RESTORATION OF ALL EXISTING HIGHWAY FACILITIES WITHIN STATE RIGHT-OF-WAY SHALL BE DONE IN ACCORDANCE WITH ALL APPLICABLE SECTIONS OF THE CURRENT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, AND THE SPECIFICATIONS FOR INSTALLATION OF MISCELLANEOUS IMPROVEMENTS WITHIN STATE HIGHWAYS, OF THE STATE HIGHWAYS DIVISION.
- ALL LANES SHALL BE OPENED TO TRAFFIC DURING THE MORNING PEAK HOURS FROM 6:30 A.M. TO 8:30 A.M. AND DURING THE AFTERNOON PEAK HOURS FROM 3:30 P.M. TO 6:30 P.M., AND DURING OFF-WORK HOURS ONLY ONE LANE OF HANA HIGHWAY SHALL BE CLOSED AT ANY OTHER TIME.
- THE CONTRACTOR SHALL PROVIDE, INSTALL AND MAINTAIN ALL NECESSARY SIGNS, LIGHTS, FLARES, BARRICADES, MARKERS, CONES AND OTHER PROTECTIVE FACILITIES AND SHALL TAKE ALL NECESSARY PRECAUTIONS FOR THE PROTECTION AND FOR THE CONVENIENCE AND SAFETY OF PUBLIC TRAFFIC. ALL SUCH PROTECTIVE FACILITIES AND PRECAUTIONS TO BE TAKEN SHALL CONFORM TO THE "ADMINISTRATIVE RULES OF HAWAII GOVERNING THE USE OF TRAFFIC CONTROL DEVICES AT WORK SITES ON OR ADJACENT TO PUBLIC STREETS AND HIGHWAYS" ADOPTED BY THE DIRECTOR OF TRANSPORTATION, AND THE CURRENT U.S. FEDERAL HIGHWAY ADMINISTRATION "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS, PART VI - TRAFFIC CONTROL FOR HIGHWAY CONSTRUCTION AND MAINTENANCE OPERATIONS". IF LANE CLOSURES ARE REQUIRED DURING CONSTRUCTION, A TRAFFIC CONTROL PLAN SHALL BE INCORPORATED INTO THE CONSTRUCTION PLANS AND MUST BE APPROVED BY THE DIVISION PRIOR TO THE ISSUANCE OF THE PERMIT.
- THE MINIMUM PAVEMENT STRUCTURE SHALL CONSIST OF:
  - RESIDENTIAL DRIVEWAYS
    - 2" ASPHALT CONCRETE AND 6" AGGREGATE BASE COURSE, OR 2" ASPHALT CONCRETE AND 2 1/2" ASPHALT CONCRETE BASE COURSE OR ASPHALT CONCRETE.
    - 4" OF CLASS "A" CONCRETE REINFORCED WITH 6" x 6" - 6/6 WIRE MESH ON 12" AGGREGATE SUBBASE IF DEEMED NECESSARY BY ENGINEER.
  - COMMERCIAL DRIVEWAYS, SIDEROADS AND UTILITY INSTALLATIONS ON MINOR HIGHWAYS.
    - 2 1/2" ASPHALT CONCRETE, 8" AGGREGATE BASE COURSE AND 12" AGGREGATE SUBBASE, OR 2 1/2" ASPHALT CONCRETE AND 8" ASPHALT CONCRETE BASE COURSE OR ASPHALT CONCRETE.
    - 6" OF CLASS "A" CONCRETE REINFORCED WITH 6" x 6" - 6/6 WIRE MESH ON 12" AGGREGATE SUBBASE IF DEEMED NECESSARY BY ENGINEER.
  - CHANNELIZED INTERSECTIONS AND UTILITY INSTALLATIONS ON MAJOR HIGHWAYS.
    - 4" ASPHALT CONCRETE, 8" AGGREGATE BASE COURSE AND 12" AGGREGATE SUBBASE, OR 4" ASPHALT CONCRETE AND 8" ASPHALT CONCRETE BASE COURSE OR ASPHALT CONCRETE, OR MATCH EXISTING PAVEMENTS STRUCTURE, WHICHEVER IS GREATER.
- NO MATERIAL AND/OR EQUIPMENT SHALL BE STOCKPILED OR OTHERWISE STORED WITHIN HIGHWAY RIGHTS-OF-WAY EXCEPT AT LOCATIONS DESIGNATED IN WRITING AND APPROVED BY THE DISTRICT ENGINEER.
- COMPACTION TESTS SHALL BE TAKEN IN ACCORDANCE WITH THE SPECIFICATIONS FOR INSTALLATION OF MISCELLANEOUS IMPROVEMENTS WITHIN STATE HIGHWAYS, AS FOLLOWS: (SEE NOTE 15 BELOW)
  - SUBBASE: ONE (1) COMPACTION TEST AT EACH ROADWAY CROSSING.
  - BASE COURSE: ONE (1) COMPACTION TEST AT EACH ROADWAY CROSSING.
  - ONE (1) COMPACTION TEST FOR EACH 500 LINEAL FEET OF TRENCH.
- PRIOR TO COMMENCING TRENCH EXCAVATION WORK, THE CONTRACTOR SHALL TAKE A PROFILE ALONG THE NEW CENTERLINE OF UTILITY TRENCH AND THAT SUCH INFORMATION SHALL BE USED IN THE VERIFICATION OF RESTORING THE ROADWAY TO ITS ORIGINAL CONDITION. A COPY OF THE PROFILE SHALL BE SUBMITTED TO THE DISTRICT ENGINEER.
- THE CONTRACTOR SHALL BE REQUIRED TO PROVIDE ADEQUATE, SAFE, NON-SKID BRIDGING MATERIAL OVER THE TRENCH, INCLUDING SHORING, WHEN TRENCHING IN PAVEMENT AREAS TO HANDLE ALL TYPES OF VEHICULAR TRAFFIC.
- NO TRENCH SHALL BE OPENED MORE THAN 300 FEET IN ADVANCE OF THE INSTALLED AND TESTED PIPE AND/OR DUCTLINE.
- LONGITUDINAL DRAINAGE ALONG THE HIGHWAY SHALL BE MAINTAINED.
- PAVEMENT STRIPING SHALL BE DONE BY CONTRACTOR.
- APPROVAL OF PERMIT CONSTRUCTION PLANS SHALL BE VALID FOR A PERIOD OF ONE YEAR THEREOF FROM THE DATE OF NOTIFICATION OF APPROVAL TO THE APPLICANT. IN THE EVENT CONSTRUCTION DOES NOT COMMENCE WITHIN THIS ONE-YEAR PERIOD, THE APPLICANT WILL BE REQUIRED TO RESUBMIT HIS CONSTRUCTION PLANS FOR DIVISION'S REVIEW AND APPROVAL.
- ALL REGULATORY, GUIDE AND CONSTRUCTION SIGNS AND BARRICADES SHALL BE OF HIGH INTENSITY REFLECTIVE SHEETING.
- ASIDE FROM COMPACTION TESTS REQ'D. AS NOTED ON 7A & 7B, ADDITIONAL TESTS, TO BE DETERMINED BY THE DISTRICT ENGINEER, WILL BE REQ'D. ALONG THE HIGHWAY IMPROVEMENTS. RESULTS OF ALL COMPACTION TESTS SHALL BE SUBMITTED TO THE HIGHWAY DISTRICT ENGINEER.

## GRADING NOTES:

- THE CONTRACTOR SHALL OBTAIN A GRADING PERMIT FROM THE DEPT. OF PUBLIC WORKS TWO (2) WEEKS PRIOR TO COMMENCEMENT OF ANY CLEARING OR GRUBBING. THE CONTRACTOR SHALL BE REQUIRED TO SUBMIT A SATISFACTORY GRADING WORK METHOD TO MINIMIZE DUST POLLUTION BEFORE GRADING PERMIT IS ISSUED.
- ALL GRADING OPERATIONS SHALL BE PERFORMED IN CONFORMANCE WITH THE APPLICABLE PROVISIONS OF THE "WATER POLLUTION CONTROL AND WATER QUALITY STANDARD" CONTAINED IN THE PUBLIC HEALTH REGULATIONS, STATE DEPT. OF HEALTH ON WATER POLLUTION CONTROL AND WATER QUALITY STANDARDS AND COUNTY GRADING ORDINANCE.
- THE CONTRACTOR, AT HIS OWN EXPENSE SHALL KEEP THE PROJECT AND SURROUNDING AREA FREE FROM DUST NUISANCE. THE WORK SHALL BE IN CONFORMANCE WITH THE AIR POLLUTION CONTROL STANDARDS AND REGULATIONS OF THE STATE DEPT. OF HEALTH AND COUNTY GRADING ORDINANCE.
- THE CONTRACTOR SHALL REMOVE ALL SILT AND DEBRIS RESULTING FROM HIS WORK AND DEPOSITED IN DRAINAGE FACILITIES, ROADWAY AND OTHER AREAS. THE COST INCURRED FOR ANY NECESSARY REMEDIAL ACTION ORDERED BY THE DIRECTOR OF PUBLIC WORKS SHALL BE PAYABLE BY THE CONTRACTOR.
- CONSTRUCTION DEBRIS AND WASTES SHALL BE DEPOSITED AT AN APPROPRIATE SITE. THE CONTRACTOR SHALL INFORM THE DIRECTOR OF PUBLIC WORKS OF THE LOCATION OF THE DISPOSAL SITE. THE DISPOSAL SITE MUST ALSO FULFILL THE REQUIREMENTS OF THE GRADING ORDINANCES.
- APPROXIMATE:
 

EXCAVATION	=	56,565 CY.	FOR GRADING
EMBANKMENT	=	36,425 CY.	PERMIT
AREA	=	33.0 ACS.	PURPOSES ONLY
- ALL GRADING AND/OR PLACEMENT OF BACKFILL SHALL BE DONE IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS AND BE APPROVED BY A LICENSED ENGINEER. A CERTIFICATION OF COMPLIANCE SHALL BE SUBMITTED TO THE LAND USE & CODES ADMINISTRATION PRIOR TO FINAL APPROVAL.

## CONSTRUCTION NOTES WITHIN COUNTY RIGHT-OF-WAY:

- CONTRACTOR SHALL OBTAIN A "WORK TO PERFORM ON COUNTY ROADS PERMIT" FROM THE DIVISION OF LAND USE & CODES ADMINISTRATION TWO WEEKS PRIOR TO COMMENCEMENT OF WORK.
  - STANDARD DETAIL DRAWINGS AND STANDARD SPECIFICATIONS OF THE DEPARTMENT OF PUBLIC WORKS SHALL BE INCLUDED AS PART OF THE CONSTRUCTION PLANS.
  - ALL CONSTRUCTION WORK SHALL CONFORM STRICTLY TO THE APPLICABLE SECTIONS OF THE "STANDARD SPECIFICATIONS" SEPTEMBER, 1986 AND "STANDARD DETAILS" SEPTEMBER, 1984, FOR PUBLIC WORKS CONSTRUCTION OF THE DEPARTMENT OF PUBLIC WORKS.
  - ALL EXISTING UTILITIES WHETHER OR NOT SHOWN ON PLANS, IF DAMAGED DURING CONSTRUCTION BY THE CONTRACTOR, SHALL BE REPAIRED AT HIS EXPENSE.
  - CONTRACTOR SHALL PROVIDE, INSTALL AND MAINTAIN ALL NECESSARY SIGNS, LIGHTS, FLARES, BARRICADES AND OTHER PROTECTIVE DEVICES FOR THE PROTECTION, SAFETY AND CONVENIENCE OF THE PUBLIC ACCORDING TO THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS", 1978, AND TO THE RULES AND REGULATIONS GOVERNING THE USE OF TRAFFIC CONTROL DEVICES AT WORKSITES ON/OR ADJACENT TO PUBLIC STREETS AND HIGHWAYS ADOPTED BY THE HIGHWAY SAFETY COORDINATOR AND THE U.S. FEDERAL HIGHWAY ADMINISTRATION "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR HIGHWAY CONSTRUCTION AND MAINTENANCE OPERATIONS", DATED 1980.
  - THE DIRECTOR OF PUBLIC WORKS AND/OR THE DIRECTOR OF THE DEPARTMENT OF WATER SUPPLY HAS THE RIGHT TO STOP CONSTRUCTION SHOULD ANY WORK BE FOUND CONTRARY TO THE APPROVED CONSTRUCTION PLAN OR DETRIMENTAL TO THE PUBLIC'S INTERESTS.
  - THE CONTRACTOR SHALL SCHEDULE A PRE-CONSTRUCTION MEETING WITH THE LAND USE & CODES ADMINISTRATION FIVE (5) DAYS PRIOR TO COMMENCEMENT OF CONSTRUCTION.
  - CONTRACTOR SHALL SUBMIT FOUR (4) COPIES OF "AS-BUILT" DRAWINGS AND A MICRO-FILM COPY TO THE LAND USE & CODES ADMINISTRATION VIA THE ENGINEERING CONSULTANT PRIOR TO FINAL APPROVAL OF THE IMPROVEMENTS. COSTS ASSOCIATED WITH THIS REQUIREMENT SHALL BE PAID FOR BY THE CONTRACTOR.
  - COMPACTION TESTS:
    - EMBANKMENT/SELECT BORROW AND SUBGRADE MATERIALS: ONE (1) COMPACTION TEST PER 600 SQUARE YARDS;
    - AGGREGATE SUBBASE COURSE: ONE (1) COMPACTION TEST PER 400 SQUARE YARDS; ONE (1) GRADATION AND SAND EQUIVALENT TEST PER PROJECT;
    - AGGREGATE BASE COURSE: ONE (1) COMPACTION TEST PER 300 SQUARE YARDS; ONE (1) GRADATION AND SAND EQUIVALENT TEST PER PROJECT;
    - ASPHALT CONCRETE PAVEMENT OR ASPHALT TREATED BASE COURSE; THREE (3) A.C. CORES FOR THICKNESS AND DENSITY TESTS PER PROJECT;
    - TRENCH BACKFILL MATERIAL: ONE (1) TEST FOR EACH 300 LINEAL FEET OF TRENCH PER LIFT OF MATERIAL.
- CONTRACTOR SHALL SUBMIT ALL TESTING REPORTS INCLUDING RESULTS TO THE COUNTY'S INSPECTION AGENCY FOR REVIEW AND APPROVAL PRIOR TO COUNTY'S ACCEPTANCE OF WORK. ABOVE COMPACTION TEST ARE MINIMUM REQUIREMENTS. THE COUNTY'S INSPECTION AGENCY MAY REQUIRE ADDITIONAL TESTS. ALL COSTS OF TESTING, INCLUDING ADDITIONAL TEST IF REQUIRED, SHALL BE BORNE BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE STATE.
- \* ALL COMPACTION TEST WILL BE CONDUCTED BY THE STATE OF HAWAII.


## NOTES FOR WORK WITHIN CANEFIELD AREAS AND IRRIGATION SYSTEM MODIFICATIONS:

- WORK NOTIFICATION:
 

CONTRACTOR SHALL NOTIFY HAWAIIAN COMMERCIAL & SUGAR COMPANY (HC&S) AT LEAST 6 WEEKS IN ADVANCE PRIOR TO STARTING ANY WORK ON CANE FIELD AREAS AND IRRIGATION SYSTEMS (SYPHONS, DITCHES, SPRINKLER SYSTEM). HE SHALL COORDINATE HIS WORK SCHEDULE WITH HC&S TO MINIMIZE ANY INCONVENIENCE AND DISRUPTION OF THE AGRICULTURAL OPERATIONS. THE CONTRACTOR SHALL ASSUME ALL LIABILITY, FINANCIAL OR OTHERWISE, IN CONNECTION WITH THIS CONTRACT THAT MAY ARISE DUE TO INCONVENIENCE, DELAY OR LOSS EXPERIENCED BY HIM FROM THE PRESENCE OR OPERATIONS OF HC&S WORKING ON THEIR AFFECTED CANEFIELDS.
- RELOCATION OF IRRIGATION PIPELINES AND APPURTENANCES:
  - EXISTING PIPELINES SHOWN ARE APPROXIMATE. CONTRACTOR TO VERIFY EXACT LOCATION IN FIELD IN COORDINATION WITH HC&S.
  - COORDINATE WITH HC&S FOR THE FINAL LOCATION OF RELOCATED PIPELINES AND APPURTENANCES, INCLUDING RISER ASSEMBLIES, VALVES, AIR VENTS, FLUSHOUTS, ETC. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL NEW FITTINGS AS REQUIRED, INCLUDING CONCRETE REACTION BLOCKS, TO COMPLETE THE RELOCATION AND CONNECTION TO EXISTING PIPELINES. WHERE PIPELINE EXTENSIONS ARE REQUIRED, THE NEW PIPELINE SHALL BE OF THE SAME MATERIAL AND CLASS AS THAT OF THE EXISTING PIPE.
- CROP DAMAGES:
  - ALL CROP DAMAGES WITHIN THE CONTRACT ZONE LIMITS, TO BE PAID BY THE STATE THROUGH AN ALLOWANCE IN THE PROPOSAL.
  - CROPS THAT ARE DAMAGED BY THE CONTRACTOR OUTSIDE THE PROJECT LIMITS SHALL BE PAID BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE STATE. LIKEWISE, IRRIGATION DITCHES, PIPELINES, ETC. WHEN DAMAGED, SHALL BE REPAIRED BY THE CONTRACTOR AT HIS EXPENSE TO THE SATISFACTION OF HC&S.
- INSTALLATION / RELOCATION OF H.C. & S. PIPELINES & CULVERTS MUST BE COMPLETED WITHIN SEVEN (7) CALENDAR DAYS. THE CONTRACTOR MUST COORDINATE WITH H.C. & S. THE TIMING OF ANY WORK TO BE DONE ON THESE PIPELINES & CULVERTS.

## NOTES FOR TRAFFIC CONTROL PLAN:

CONTRACTOR SHALL SUBMIT TRAFFIC CONTROL PLAN FOR APPROVAL TO MAUI DISTRICT ENGINEER, STATE DEPARTMENT OF TRANSPORTATION, HIGHWAYS DIVISION, AT LEAST TEN (10) DAYS BEFORE WORK BEGINS (See Section 645 of the SPECS.) CONTRACTOR SHALL ALSO BE RESPONSIBLE IN OBTAINING NECESSARY PERMIT AND PROVIDE PUBLIC NOTICES AS REQUIRED.



THIS WORK WAS PREPARED BY  
ME OR UNDER MY SUPERVISION.

*Robert T. Tanaka*  
10/3/89

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DSGN.	DRWN.	CHKD.	APPD.

### KEY PLAN / NOTES :

NO.	DATE	REVISIONS
<h2 style="margin: 0;">AS-BUILT</h2> <p style="text-align: right;">(Record Drawing)</p> <p style="text-align: right;">DATE 7/12/91</p> <p style="font-size: small;">This Drawing has been prepared, in part, based upon information furnished by others. While this information is believed to be reliable, the Design Professional cannot assume its accuracy or that it is correct for any other project or use. Any use of this As-Built drawing or for any other project or use without the written consent of the Design Professional may have been incorporated into it as a result.</p>		
PROJECT TITLE :		
<h2 style="margin: 0;">HANA HIGHWAY IMPROVEMENTS</h2>		
PROJECT NO. :		
STATE NO. AM-1061-12 AIP NO. 3-15-0006-11		
SHEET TITLE :		
<h2 style="margin: 0;">CONSTRUCTION NOTES</h2>		
DATE :		
11-15-89		
DWG. NO. :		
<h1 style="margin: 0;">C-3</h1>		