

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	7601A-01-09	2010	4	41

GENERAL NOTES:

- THE SCOPE OF WORK FOR THIS PROJECT INCLUDES REMOVING AND DISPOSING OF EXISTING CURB, CUTTER, CONCRETE SIDEWALK; INSTALLING CONCRETE CURBS, CURB RAMPS AND CONCRETE PAVEMENT; INSTALLING AC PAVT. TRANSITION AND ADJUSTING WATER METER BOX & WATER VALVE.
- THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND DETAILS SHOWN ON THE DRAWINGS PRIOR TO SUBMITTING A PROPOSAL (SEE SPEC. PROV. SUBSECT. - 102.050). ANY DISCREPANCY SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE ENGINEER.
- THE CONTRACTOR IS REMINDED OF THE REQUIREMENTS OF SUBSECTION 105.16(A) SUBCONTRACT REQUIREMENTS, WHICH REQUIRES HIM TO PERFORM WORK AMOUNTING TO NOT LESS THAN 30 PERCENT OF THE TOTAL CONTRACT COST LESS DEDUCTIBLE ITEMS. NON-COMPLIANCE WITH THIS SUBSECTION MAY BE GROUNDS FOR REJECTION OF BID.
- THE CONTRACTOR'S ATTENTION IS DIRECTED TO THE FOLLOWING SECTIONS OF THE STANDARD SPECIFICATIONS: SUBSECTION 104.11 - UTILITIES AND SERVICES; SUBSECTION 107.06 - CONTRACTOR DUTY REGARDING PUBLIC CONVENIENCE; AND SUBSECTION 645.03 - CONSTRUCTION.
- AT THE END OF EACH DAY'S WORK, THE CONTRACTOR SHALL REMOVE ALL EQUIPMENT AND OTHER OBSTRUCTIONS TO PERMIT FREE AND SAFE PASSAGE OF PUBLIC TRAFFIC.
- THE EXISTENCE AND LOCATION OF UNDERGROUND UTILITIES, MANHOLES, MONUMENTS, AND CONCRETE PAVEMENTS, AND OTHER STRUCTURES AS SHOWN ON THE PLANS ARE FROM THE LATEST AVAILABLE DATA BUT THE ACCURACY IS NOT GUARANTEED. THE CONTRACTOR SHALL MAKE AN INDEPENDENT CHECK ON THE GROUND BY PROBING AND/OR WITH THE VARIOUS UTILITY COMPANIES AND GOVERNMENTAL AGENCIES TO VERIFY THE EXACT LOCATIONS AND DEPTHS OF THE EXISTING UTILITIES AND OBSTRUCTIONS. THE CONTRACTOR SHALL EXERCISE PROPER CARE IN EXCAVATING IN THE AREA. WHENEVER CONNECTIONS OF NEW UTILITIES TO EXISTING UTILITIES ARE SHOWN ON THE PLANS, THE CONTRACTOR SHALL EXPOSE THE EXISTING LINES AT THE PROPOSED CONNECTION TO VERIFY THEIR LOCATION AND DEPTH PRIOR TO EXCAVATING FOR THE NEW LINES. THE CONTRACTOR SHALL BE HELD LIABLE FOR ANY DAMAGES INCURRED TO THE EXISTING FACILITIES AND/OR IMPROVEMENTS AS A RESULT OF HIS OPERATIONS.
- THE CONTRACTOR SHALL NOTIFY IN WRITING, THE OAHU TRANSIT SERVICES, LOWELL TOM (848-4578), TWO WEEKS PRIOR TO CONSTRUCTION, INFORMING THEM OF LOCATION, SCOPE OF WORK, AND CLOSURE OF NAME OF HIGHWAY AND/OR TRAFFIC LANES AND DATES OF CLOSURE.
- THE CONTRACTOR SHALL NOTIFY THE ENGINEER IN WRITING, TWO (2) WEEKS PRIOR TO STARTING PAVING OPERATIONS.
- EXISTING DRAINAGE SYSTEM WILL BE FUNCTIONAL AT ALL TIMES DURING CONSTRUCTION. THE CONTRACTOR IS TO FURNISH MATERIAL, EQUIPMENT, LABOR, TOOLS AND INCIDENTALS NECESSARY TO MAINTAIN FLOW. THIS WORK SHALL BE CONSIDERED INCIDENTAL TO THE VARIOUS CONTRACT ITEMS AND WILL NOT BE PAID FOR SEPARATELY.
- THE CONTRACTOR SHALL PROVIDE AND MAINTAIN FOR ACCESS TO AND FROM ALL EXISTING DRIVEWAYS, SIDEWALKS AND ADA ACCESS ROUTES, AND SIDE STREETS AND CROSS STREETS AT ALL TIMES. THIS WORK SHALL BE CONSIDERED INCIDENTAL TO THE VARIOUS CONTRACT ITEMS AND WILL NOT BE PAID FOR SEPARATELY.
- ALL SAW CUTTING WORK SHALL BE CONSIDERED INCIDENTAL TO SECTION 650 - CURB RAMPS AND WILL NOT BE PAID FOR SEPARATELY.
- TEMPORARY BENCH MARKS INDICATED ON THE PLANS MAY FALL WITHIN THE NEW CURB RAMPS. THE CONTRACTOR SHALL ESTABLISH NEW TEMPORARY BENCHMARKS, UNDER THE SUPERVISION OF A LICENSED SURVEYOR, OUTSIDE THE LIMITS OF THE NEW WORK. THIS WORK SHALL BE CONSIDERED INCIDENTAL TO SECTION 650 - CURB RAMPS AND WILL NOT BE PAID FOR SEPARATELY.
- SMOOTH RIDING CONNECTIONS SHALL BE CONSTRUCTED AT ALL TIMES OF THE PROJECT, INCLUDING THE BEGINNING AND END OF THE PROJECT, CONNECTING APPROACHES, SIDE STREETS, WALKWAYS AND DRIVEWAYS AS SHOWN ON THE PLANS AND/OR AS DIRECTED BY THE ENGINEER.
- THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR THE PROTECTION OF ADJACENT PROPERTIES, UTILITIES AND EXISTING STRUCTURES FROM THE DAMAGES DUE TO CONSTRUCTION. REPAIRING OF ANY DAMAGE SHALL BE AT THE CONTRACTOR'S OWN EXPENSE, TO THE SATISFACTION OF THE OWNER.
- THE CONTRACTOR SHALL CLEAN AND REMOVE ALL ACCUMULATION OF AGGREGATES ALONG THE ROADSIDE WITHIN 10 FEET OF THE EDGE OF PAVEMENT. THIS WORK SHALL BE CONSIDERED INCIDENTAL TO THE VARIOUS CONTRACT ITEMS AND WILL NOT BE PAID FOR SEPARATELY.
- REMOVAL AND DISPOSAL OF EXISTING CURB AND GUTTER, CURB, SIDEWALK AND ASPHALT CONCRETE PAVEMENT, CURB, SIDEWALK AND ANY DEBRIS SHALL BE CONSIDERED INCIDENTAL TO THE VARIOUS CONTRACT ITEMS FOR SIDEWALK AND CURB AND GUTTER AND WILL NOT BE PAID FOR SEPARATELY.
- DRESSING OF SIDEWALK SHALL CONSIST OF CLEARING AND GRUBBING, GRADING, RESHAPING AND COMPACTING WITH SUITABLE MATERIAL THE AREA ADJACENT TO THE IMPROVEMENT AS SHOWN ON THE PLANS AND/OR AS DIRECTED BY THE ENGINEER AND SHALL BE CONSIDERED INCIDENTAL TO SIDEWALK.
- PROVIDE SMOOTH TRANSITION WHERE NEW SIDEWALK CONSTRUCTION MEETS THE EXISTING GRADE OR SIDEWALK.
- ALL CURB ANGLE POINTS WITHIN THE CURB RAMPS SHALL BE ROUNDED WITH R=6".

GENERAL NOTES: (Cont.)

- THE CONTRACTOR SHALL PROVIDE AND MAINTAIN A TEMPORARY PEDESTRIAN-SAFE AND EASILY ACCESSIBLE ROUTE OR DETOUR WITH BARRICADES IN OR NEAR THE WORK ZONE. THIS TEMPORARY ROUTE OR DETOUR SHALL BE STABLE, FIRM AND SLIP-RESISTANT AND SHALL BE AMERICAN WITH DISABILITIES ACT COMPLIANT (THIS ONLY APPLIES IF EXISTING SURFACE IN NON-ADA COMPLIANT). THIS WORK SHALL BE INCIDENTAL TO ALL CONTRACT ITEMS AND WILL NOT BE PAID FOR SEPARATELY.
- NO MATERIAL AND/OR EQUIPMENT SHALL BE STOCKPILED OR OTHERWISE STORED WITHIN THE HIGHWAY RIGHT-OF-WAY EXCEPT AT LOCATIONS DESIGNATED IN WRITING AND APPROVED BY THE ENGINEER. IF USE OF A LOCATION IS APPROVED BY THE ENGINEER, THE CONTRACTOR SHALL OBTAIN A PERMIT TO USE THE PROPERTY WITHIN THE HIGHWAY RIGHT-OF-WAY FROM THE STATE HIGHWAYS RIGHT-OF-WAY BRANCH AT TELEPHONE NO. (808)692-7332.
- NO MATERIAL AND/OR EQUIPMENT SHALL BE STOCKPILED OR OTHERWISE STORED WITHIN CITY RIGHT-OF-WAY.
- BEFORE FINAL INSPECTION OF THE WORK IS HELD, THE CONTRACTOR SHALL RESTORE GRADES AND GROUND COVER DISTURBED AS A RESULT OF THE PROJECT TO A CONDITION EQUAL OR BETTER THAN EXISTING BEFORE SUCH DAMAGE OR INJURY WAS DONE.
- EXISTING UTILITIES SHALL REMAIN IN SERVICE AND IN PLACE AT ALL TIMES. IF RELOCATION OF THE EXISTING UTILITIES IS REQUIRED BY THE CONTRACT DOCUMENTS OR FOR THE CONTRACTOR'S CONVENIENCE, INTERRUPTION OF SERVICE SHALL BE KEPT TO A MINIMUM AND SHALL BE DONE AT THE CONTRACTOR'S EXPENSE WITH THE APPROVAL OF THE AFFECTED UTILITY COMPANY.
- THE CONTRACTOR SHALL NOTIFY THE CADASTRAL SECTION AT TELEPHONE NO. (808) 692-7596 PRIOR TO REMOVAL OF ANY STATE SURVEY MONUMENT (BRASS DISK) SO THAT THE CADASTRAL CAN REFERENCE THE MONUMENT PRIOR TO DEMOLITION OF THE EXISTING MONUMENT. THE CONTRACTOR SHALL BEAR ALL COSTS INVOLVED IN RESTORING THE STATE SURVEY MONUMENTS WHICH ARE AFFECTED BY THEIR WORK.
- ALL CONSTRUCTION WORK SHALL BE DONE IN ACCORDANCE WITH THE STANDARDS AND SPECIFICATIONS OF THE HDOT AS AMENDED, UNLESS OTHERWISE SPECIFIED BY THE CONTRACT PLANS AND SPECIFICATIONS.
- NO CONTRACTOR SHALL PERFORM ANY CONSTRUCTION OPERATION SO AS TO CAUSE FALLING ROCKS, SOIL OR DEBRIS IN ANY FORM TO FALL, SLIDE OR FLOW INTO EXISTING CITY DRAINAGE SYSTEMS, OR 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.
- BENCH MARK AND ELEV. ARE INDICATED ON SITE & GRADING SHEETS.
- TACK COAT SHALL BE INCIDENTAL TO THE VARIOUS ASPHALT CONCRETE PAVEMENT ITEMS.
- THE CONTRACTOR SHALL BE HELD LIABLE FOR ANY DAMAGES INCURRED TO THE EXISTING LANDSCAPING AS A RESULT OF HIS OPERATIONS.

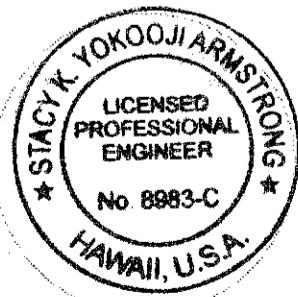
CURB RAMP AND SIDEWALK NOTES:

- CURB RAMPS TYPICAL DETAILS ARE INTENDED AS CURB RAMP GUIDELINES FOR DESIGN AND CONSTRUCTION.
- A 2% MAXIMUM CROSS SLOPE SHALL BE MAINTAINED IN THE DIRECTION OF PEDESTRIAN TRAFFIC.
- CONCRETE SIDEWALK SHALL BE REINFORCED WITH 6X6 W1.4XW1.4 WELDED WIRE FABRIC.
- SUBJECT TO FIELD CONDITIONS, THE ENGINEER SHALL DETERMINE THE FINAL LOCATION OF CURB RAMPS.
- ALL PULLBOXES SHALL BE INSTALLED AWAY FROM THE CURB RAMP AND WITHIN THE SIDEWALK/UNPAVED AREA TO THE MAXIMUM EXTENT FEASIBLE.
- WHERE NECESSARY, EXISTING PULLBOXES, HANDHOLES, MANHOLES, ETC. SHALL BE ADJUSTED TO MATCH CURB RAMP GRADE. ADJUSTMENTS SHALL NOT BE PAID FOR SEPARATELY BUT SHALL BE CONSIDERED INCIDENTAL TO THE VARIOUS CURB RAMP ITEMS UNLESS INDICATED OTHERWISE.
- TRANSITIONS FROM RAMPS TO GUTTERS AND ROADWAYS SHALL BE FLUSH.
- CURB RAMPS AND SIDEWALKS SHALL BE CONSTRUCTED TO ELIMINATE PONDING TO THE MAXIMUM EXTENT FEASIBLE.
- THE PEDESTRIAN PUSH BUTTON SHALL MEET OPERATIONAL AND REACH REQUIREMENTS OF THE AMERICAN WITH DISABILITIES ACT ACCESSIBILITY GUIDELINES (ADAAG):
  - FORWARD REACH. THE MAXIMUM HEIGHT FOR FORWARD REACH SHALL BE 48".
  - SIDE REACH. THE MAXIMUM HEIGHT FOR SIDE REACH SHALL BE 54". OPERATION.
  - CONTROLS AND OPERATING MECHANISMS SHALL BE OPERABLE WITH ONE HAND AND SHALL NOT REQUIRE TIGHT GRASPING, PINCHING, OR TWISTING OF THE WRIST. THE FORCE REQUIRED TO ACTIVATE CONTROLS SHALL BE NO GREATER THAN 5 LBF.

CURB RAMP AND SIDEWALK NOTES: (Cont.)

- THE MAXIMUM SLOPES OF ADJOINING GUTTERS OR ROAD SURFACE IMMEDIATELY FRONTING THE CURB RAMP SHALL NOT EXCEED 5% FOR TYPE A, D, AND COMBINATION RAMPS AND 8.33% FOR TYPE B, C, AND E RAMPS.
- THERE SHALL BE A 30"x48" LEVEL GROUND SURFACE (2% MAX. CROSS SLOPE, BOTH DIRECTIONS) FOR A FORWARD OR SIDE APPROACH, AS APPROPRIATE, TO A PEDESTRIAN PUSH BUTTON.
- CONSTRUCTION JOINTS ARE REQUIRED TO JOIN CURB RAMPS WITH SIDEWALKS.
- UNLESS OTHERWISE NOTED, NEW GUTTERS ARE REQUIRED AS SHOWN.
- ALL CURB RAMPS SHALL BE REINFORCED WITH 6X6 W1.4/W1.4 WELDED WIRE FABRIC.
- SURFACE OF SIDEWALKS AND CURB RAMPS SHALL BE FIRM, STABLE, AND SLIP-RESISTANT. THIS INCLUDES THE SURFACES OF PULLBOXES, VALVE COVERS, MANHOLE COVERS, ETC.
- BED COURSE MATERIAL IS REQUIRED FOR CURB RAMPS, SIDEWALKS, AND GUTTERS.
- ALL SIDEWALKS SHALL PROVIDE A MINIMUM CLEAR WIDTH OF 3'-0" (EXCLUDING CURB) FOR PEDESTRIAN CIRCULATION. IF THIS CANNOT BE MET, A MINIMUM 32-INCH CLEAR WIDTH IS ALLOWED FOR A DISTANCE OF 24-INCHES.
- PASSING SPACES ALONG NEW SIDEWALKS WITH 5' CLEAR WIDTH OR LESS SHALL BE PROVIDED AT MAXIMUM 200' INTERVALS AS REQUIRED BY ADA GUIDELINES. THE PASSING AREA SHALL BE A MINIMUM 5' WIDE BY 5' LONG AS FEASIBLE.
- IF POSSIBLE, INSTALL UTILITY POLES, FIRE HYDRANTS, LIGHT POLES, SIGN POSTS, PULLBOXES, ETC. OFF OF SIDEWALK BUT WITHIN THE RIGHT-OF-WAY.
- OBJECTS PROTRUDING FROM UTILITY POLES AND WALLS ADJACENT TO THE SIDEWALKS (I.E. WALL MOUNTED FIRE HYDRANTS, TELEPHONES, METERS ON POLES, ETC.) SHALL BE MOUNTED TO MEET THE CURRENT AMERICAN WITH DISABILITIES ACT ACCESSIBILITY GUIDELINES (ADAAG) AND WILL BE SUBJECT TO ENGINEER'S APPROVAL.
- IF A CURB RAMP IS NOT CONSTRUCTED ACCORDING TO THE PLANS, THE CONTRACTOR SHALL RECONSTRUCT THE CURB RAMP AT NO COST TO THE STATE. CONSTRUCTION TOLERANCE FOR PORTLAND CEMENT CONCRETE SHALL BE BASED ON 1/4 INCH PER 10 FT. (0.2%). REMEDIAL MEASURES WILL NOT BE ACCEPTED.
- ADDITIONAL INFORMATION IS AVAILABLE FROM:
  - AMERICAN WITH DISABILITIES ACT ACCESSIBILITY GUIDELINES (ADAAG), JAN. 1998, THE ACCESS BOARD.
  - ACCESSIBLE RIGHTS-OF-WAY: A DESIGN GUIDE, NOV. 1999, THE ACCESS BOARD.
  - DESIGNING SIDEWALKS AND TRAILS FOR ACCESS, PART 1, JULY 1999, FHWA.
  - DESIGNING SIDEWALKS AND TRAILS FOR ACCESS, PART 2, SEPT. 2001, FHWA.
- PAY LIMITS FOR THE VARIOUS TYPES OF CURB RAMPS ARE AS SHOWN ON THESE TYPICAL DETAILS.
- FOR CURB RAMPS AT CURB RETURNS, INSTALL CONSTRUCTION JOINTS PER STANDARD DETAIL D-15 (2008 STD. PLANS), FULL WIDTH SIDEWALK AT CURB RETURN.
- WHEN DIRECTED BY THE ENGINEER, SIDEWALK TRANSITION AREA SHALL BE EXTENDED BEYOND SHOWN PLAN LIMITS TO MATCH THE NEAREST SCORELINE.

DESIGNED BY	DATE
DRAWN BY	
CHECKED BY	
IN CHARGE	
NOTES BOOK	
QUANTITIES BY	
CHECKED BY	



THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION AND CONSTRUCTION OF THIS PROJECT WILL BE UNDER MY OBSERVATION.

Signature: AS-2-2010-05 DATE: April 30, 2012

"OBSERVATION OF CONSTRUCTION" IS DEFINED IN CHAPTER 16-115, HAWAII ADMINISTRATIVE RULES ENTITLED "PROFESSIONAL ENGINEERS, ARCHITECTS, SURVEYORS AND LANDSCAPE ARCHITECTS".

STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION	
NOTES - 1	
Pedestrian Facilities & ADA Compliance, Vicinity of Old Waiolae Rd. and S. King St. Proj. No. 7601A-01-09	
Scale: None	Date: March 2010
SHEET No. C-3 OF 41 SHEETS	

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	7601A-01-09	2010	5	41

WATER POLLUTION AND EROSION CONTROL NOTES:

1. GENERAL:

SEE SECTION 209 – WATER POLLUTION AND EROSION CONTROL, IN THE "HAWAII STANDARD SPECIFICATIONS FOR ROAD, BRIDGE AND PUBLIC WORKS CONSTRUCTION," AS AMENDED. SECTION 209 DESCRIBES BUT IS NOT LIMITED TO: SUBMITTAL REQUIREMENTS; SCHEDULING OF A WATER POLLUTION AND EROSION CONTROL CONFERENCE WITH THE ENGINEER; CONSTRUCTION REQUIREMENTS; METHOD OF MEASUREMENT; AND BASIS OF PAYMENT. NO WORK SHALL COMMENCE WITHOUT A BEST MANAGEMENT PRACTICES (BMP) PLAN APPROVED BY THE DEPARTMENT OF HEALTH.

EFFECTIVE OCTOBER 1, 2008, FOLLOW THE GUIDELINES IN THE "CONSTRUCTION BEST MANAGEMENT PRACTICES FIELD MANUAL," DATED JANUARY 2008 IN DEVELOPING, INSTALLING AND MAINTAINING THE BEST MANAGEMENT PRACTICES (BMPS) FOR THE PROJECT. THE CONTRACTOR MAY SUBMIT ALTERNATE METHODS TO THE ENGINEER FOR ACCEPTANCE.

KEEP A COPY OF THE APPROVED BMP, NOI, ETC. ON THE PROJECT SITE. THE BMP SHALL BE UPDATED TO REFLECT ANY CHANGES MADE DURING THE COURSE OF CONSTRUCTION FOR THE DURATION OF THE PROJECT.

THE ENGINEER MAY ASSESS LIQUIDATED DAMAGES OF UP TO \$27,500 FOR NON-COMPLIANCE OF EACH BMP REQUIREMENT AND EACH REQUIREMENT STATED IN SECTION 209, FOR EVERY DAY OF NON-COMPLIANCE. THERE IS NO MAXIMUM LIMIT ON THE AMOUNT ASSESSED PER DAY.

THE ENGINEER WILL DEDUCT THE COST FROM THE PROGRESS PAYMENT FOR ALL CITATIONS RECEIVED BY THE DEPARTMENT FOR NON-COMPLIANCE, OR THE CONTRACTOR SHALL REIMBURSE THE STATE FOR THE FULL AMOUNT OF THE OUTSTANDING COST INCURRED BY THE STATE, WHICHEVER IS GREATER.

2. WASTE DISPOSAL:

- A. WASTE MATERIALS: COLLECT AND REMOVE ALL WASTE MATERIALS FROM PROJECT SITE ON A DAILY BASIS. STORE ALL WASTE MATERIALS IN A SECURELY LIDDED METAL DUMPSTER THAT DOES NOT LEAK. THE DUMPSTER SHALL MEET ALL LOCAL AND STATE SOLID WASTE MANAGEMENT REGULATIONS. DEPOSIT ALL TRASH AND CONSTRUCTION DEBRIS FROM THE SITE IN THE DUMPSTER. EMPTY THE DUMPSTER A MINIMUM OF TWICE PER WEEK OR AS OFTEN AS IS DEEMED NECESSARY. DO NOT BURY CONSTRUCTION WASTE MATERIALS ONSITE. THE CONTRACTOR'S SUPERVISORY PERSONNEL SHALL BE INSTRUCTED REGARDING THE CORRECT PROCEDURE FOR WASTE DISPOSAL. POST NOTICES STATING THESE PRACTICES IN THE OFFICE TRAILER AND THE CONTRACTOR SHALL BE RESPONSIBLE FOR SEEING THAT THESE PROCEDURES ARE FOLLOWED.
- B. HAZARDOUS WASTE: DISPOSE ALL HAZARDOUS WASTE MATERIALS IN THE MANNER SPECIFIED BY LOCAL OR STATE REGULATIONS AND BY THE MANUFACTURER. THE CONTRACTOR'S SITE PERSONNEL SHALL BE INSTRUCTED IN THESE PRACTICES AND SHALL BE RESPONSIBLE FOR SEEING THAT THESE PRACTICES ARE FOLLOWED.
- C. SANITARY WASTE: COLLECT ALL SANITARY WASTE FROM THE PORTABLE UNITS A MINIMUM OF ONCE PER WEEK, OR AS REQUIRED.

3. EROSION AND SEDIMENT CONTROL INSPECTION AND MAINTENANCE PRACTICES:

- A. INSPECT ALL CONTROL MEASURES SHALL BE INSPECTED AT LEAST ONCE EACH WEEK AND WITHIN 24 HOURS OF ANY RAINFALL EVENT OF 0.5 INCHES OR GREATER OCCURRING WITHIN A 24 HOUR PERIOD.
- B. MAINTAIN ALL MEASURES IN GOOD WORKING ORDER. IF REPAIR IS NECESSARY, IT SHALL BE INITIATED WITHIN 24 HOURS AFTER THE INSPECTION.
- C. MAKE A MAINTENANCE INSPECTION REPORT PROMPTLY AFTER EACH WEEKLY INSPECTION. SUBMIT A COPY TO THE ENGINEER NO LATER THAN ONE WEEK FROM THE DATE OF INSPECTION.
- D. SUBMIT THE NAMES OF A MINIMUM OF THREE PERSONNEL DESIGNATED RESPONSIBLE FOR INSPECTIONS, MAINTENANCE AND REPAIR ACTIVITIES AND FILLING OUT THE INSPECTION AND MAINTENANCE REPORT.
- E. PERSONNEL SELECTED FOR THE INSPECTION AND MAINTENANCE RESPONSIBILITIES SHALL RECEIVE TRAINING FROM THE CONTRACTOR. THEY SHALL BE TRAINED IN ALL THE INSPECTION AND MAINTENANCE PRACTICES NECESSARY FOR KEEPING THE EROSION AND SEDIMENT CONTROLS USED ONSITE IN GOOD WORKING ORDER.
- F. CONTAIN, REMOVE, AND DISPOSE SLURRY GENERATED FROM SAW CUTTING OF PAVEMENT IN ACCORDANCE WITH APPROVED BMPS. PAYMENT FOR CONFINEMENT, REMOVAL, AND DISPOSAL OF SLURRY SHALL BE CONSIDERED INCIDENTAL TO THE VARIOUS CONTRACT ITEMS.
- G. TEMPORARY EROSION CONTROLS SHALL NOT BE REMOVED BEFORE PERMANENT EROSION CONTROLS ARE IN-PLACE AND ESTABLISHED.

WATER POLLUTION AND EROSION CONTROL NOTES: (Cont.)

4. GOOD HOUSEKEEPING BEST MANAGEMENT PRACTICES:

A. MATERIALS POLLUTION PREVENTION PLAN:

1. APPLICABLE MATERIALS OR SUBSTANCES LISTED BELOW ARE EXPECTED TO BE PRESENT ONSITE DURING CONSTRUCTION. OTHER MATERIALS AND SUBSTANCES NOT LISTED BELOW SHALL BE ADDED TO THE INVENTORY OF THE CONSTRUCTION CONTRACTOR'S SITE-SPECIFIC BMP PLAN.
- |                           |                          |
|---------------------------|--------------------------|
| CONCRETE                  | FERTILIZERS              |
| DETERGENTS                | PETROLEUM BASED PRODUCTS |
| PAINTS (ENAMEL AND LATEX) | CLEANING SOLVENTS        |
| METAL STUDS               | WOOD                     |
| TAR                       | MASONRY BLOCK            |
2. USE MATERIAL MANAGEMENT PRACTICES TO REDUCE THE RISK OF SPILLS OR OTHER ACCIDENTAL EXPOSURE OF MATERIALS AND SUBSTANCES TO STORM WATER RUNOFF. MAKE AN EFFORT TO STORE ONLY ENOUGH PRODUCT AS IS REQUIRED TO DO THE JOB.
3. STORE ALL MATERIALS STORED ONSITE IN A NEAT, ORDERLY MANNER IN THEIR APPROPRIATE CONTAINERS AND IF POSSIBLE UNDER A ROOF OR OTHER ENCLOSURE.
4. KEEP PRODUCTS IN THEIR ORIGINAL CONTAINERS WITH THE ORIGINAL MANUFACTURER'S LABEL.
5. DO NOT MIX SUBSTANCES WITH ONE ANOTHER UNLESS RECOMMENDED BY THE MANUFACTURER.
6. WHENEVER POSSIBLE, USE A PRODUCT UP COMPLETELY BEFORE DISPOSING OF THE CONTAINER.
7. FOLLOW MANUFACTURER'S RECOMMENDATIONS FOR PROPER USE AND DISPOSAL.
8. CONDUCT A DAILY INSPECTION TO ENSURE PROPER USE AND DISPOSAL OF MATERIALS ON SITE.

B. HAZARDOUS MATERIAL POLLUTION PREVENTION PLAN

1. KEEP PRODUCTS IN ORIGINAL CONTAINERS UNLESS THEY ARE NOT RESEALABLE.
2. RETAIN ORIGINAL LABELS AND MATERIAL SAFETY DATA SHEETS (MSDS) AND MAKE THEM AVAILABLE TO THE ENGINEER UPON REQUEST.
3. DISPOSE OF SURPLUS PRODUCTS ACCORDING TO MANUFACTURERS' INSTRUCTIONS AND LOCAL AND STATE REGULATIONS.

C. ONSITE AND OFFSITE PRODUCT SPECIFIC PLAN

THE FOLLOWING PRODUCT SPECIFIC PRACTICES SHALL BE FOLLOWED ONSITE:

- a. PETROLEUM BASED PRODUCTS: MONITOR ALL ONSITE VEHICLES FOR LEAKS AND PERFORM REGULAR PREVENTIVE MAINTENANCE TO REDUCE THE CHANCE OF LEAKAGE. STORE PETROLEUM PRODUCTS IN TIGHTLY SEALED CONTAINERS WHICH ARE CLEARLY LABELED. APPLY ASPHALT SUBSTANCES USED ONSITE ACCORDING TO THE MANUFACTURER'S RECOMMENDATION.
- b. FERTILIZERS: APPLY FERTILIZERS USED ONLY IN THE MINIMUM AMOUNTS RECOMMENDED BY THE MANUFACTURER. ONCE APPLIED, WORK FERTILIZER INTO THE SOIL TO LIMIT EXPOSURE TO STORM WATER. STORAGE SHALL BE IN A COVERED SHED. TRANSFER THE CONTENTS OF ANY PARTIALLY USED BAGS OF FERTILIZER SHALL BE TRANSFERRED TO A SEALABLE PLASTIC BIN TO AVOID SPILLS.
- c. PAINTS: SEAL AND STORE ALL CONTAINERS WHEN NOT REQUIRED FOR USE. DO NOT DISCHARGE EXCESS PAINT TO THE HIGHWAY DRAINAGE SYSTEM. DISPOSE PROPERLY ACCORDING TO MANUFACTURERS' INSTRUCTIONS OR STATE AND LOCAL REGULATIONS.
- d. CONCRETE TRUCKS: WASH OUT OR DISCHARGE CONCRETE TRUCK DRUM WASH WATER ONLY AT DESIGNATED SITE. DO NOT DISCHARGE WATER IN THE HIGHWAY DRAINAGE SYSTEM OR WATERS OF THE UNITED STATES. CONTACT DRINKING WATER BRANCH, DEPARTMENT OF HEALTH AT 586-4258 TO RECEIVE PERMISSION TO DESIGNATE A DISPOSAL SITE. CLEAN DISPOSAL SITE AS REQUIRED OR AS REQUESTED BY THE OWNER'S REPRESENTATIVE.

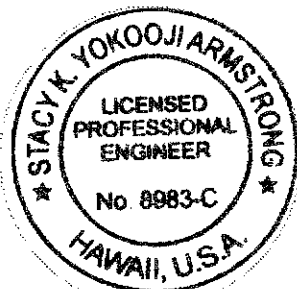
WATER NOTES

1. UNLESS OTHERWISE SPECIFIED, ALL MATERIALS AND CONSTRUCTION OF WATER SYSTEM FACILITIES AND APPURTENANCES SHALL BE IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, DATED 2005, AS AMENDED, OF THE HAWAII HIGHWAYS DIVISION, DEPARTMENT OF TRANSPORTATION, AND THE CITY AND COUNTY OF HONOLULU BOARD OF WATER SUPPLY'S "WATER SYSTEMS STANDARD", DATED 2002, THE "WATER SYSTEM EXTERNAL CORROSION CONTROL STANDARDS", VOLUME 3, DATED 1991, AND ALL SUBSEQUENT AMENDMENTS AND ADDITIONS.
2. ALL PLANS APPROVED BY THE BOARD OF WATER SUPPLY ARE BASED SOLELY ON THE ADEQUACY OF THE WATER SUPPLY. ALL OTHER FEATURES OF THE WATER SYSTEM, SUCH AS LINES, GRADES, FITTINGS, DRAINAGE, ETC., AND OTHER FEATURES OF IMPROVEMENTS SHALL NOT BE THE RESPONSIBILITY OF THE BOARD OF WATER SUPPLY.
3. THE CONTRACTOR SHALL NOTIFY BWS MAINTENANCE UNIT-ENGINEERING, CONSTRUCTION SECTION ONE WEEK PRIOR TO COMMENCING WORK ON THE WATER SYSTEM.
4. THE EXISTENCE AND LOCATION OF UNDERGROUND UTILITIES AND STRUCTURES AS SHOWN ON THE PLANS ARE FROM THE LATEST AVAILABLE DATA BUT IS NOT GUARANTEED AS TO THE ACCURACY OF ENCOUNTERING OF OTHER OBSTACLES DURING THE COURSE OF THE WORK. THE CONTRACTOR SHALL BE RESPONSIBLE AND PAY FOR ALL DAMAGES TO EXISTING UTILITIES. THE CONTRACTOR SHALL NOT ASSUME THAT WHERE NO UTILITIES ARE SHOWN, THAT NONE EXIST.
5. RE-APPROVAL SHALL BE REQUIRED IF THIS PROJECT IS NOT UNDER CONSTRUCTION WITHIN A PERIOD OF TWO YEARS.
6. PRIOR TO ANY EXCAVATING, THE CONTRACTOR SHALL VERIFY IN THE FIELD THE LOCATION OF EXISTING WATER MAINS AND APPURTENANCES.
7. THE CONTRACTOR SHALL ADJUST ALL MANHOLE FRAMES/VALVE BOXES/METER BOXES WITHIN THE PROJECT LIMITS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR "REFERENCING" THESE MANHOLES/VALVES BOXES/METER BOXES TO FACILITATE THE ADJUSTMENTS.
8. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL WATER LINES DURING CONSTRUCTION. THE CONTRACTOR SHALL BE ESPECIALLY CAREFUL WHEN EXCAVATING BEHIND WATER LINES, TREES, AND BENDS WHEREVER THERE IS A POSSIBILITY OF WATER LINE MOVEMENT DUE TO THE REMOVAL OF THE SUPPORTING EARTH BEYOND THE EXISTING REACTION BLOCKS. THE CONTRACTOR SHALL TAKE WHATEVER MEASURES NECESSARY TO PROTECT THE WATER LINES, SUCH AS CONSTRUCTION SPECIAL REACTION BLOCKS (WITH BWS APPROVAL) AND/OR MODIFYING HIS CONSTRUCTION METHOD.
9. CONTRACTOR SHALL CUT AND PLUG ALL EXISTING UNUSED LATERALS AT THE MAIN WHETHER OR NOT SHOWN ON THE PLANS. METER AND VALVE BOXES TO BE OR ALREADY ABANDONED SHALL BE DEMOLISHED OR REMOVED AND PROPERLY DISPOSED OF. THE DAMAGED AREA SHALL BE REPAIRED TO AN EQUAL OR BETTER CONDITION THAN THE IMMEDIATE AREA. ALL WORK SHALL BE DONE AT THE EXPENSE OF THE CONTRACTOR.
10. THE CONTRACTOR SHALL VERIFY ALL EXISTING SERVICE LATERAL LOCATIONS WHETHER SHOWN OR NOT SHOWN ON PLANS PRIOR TO COMMENCING WITH ANY OF THE WORK AND SHALL NOT ASSUME THAT WHERE NO SERVICES ARE SHOWN, NONE EXIST.
11. MAINTAIN 3'-0" MINIMUM COVER FOR ALL EXISTING WATERLINES (18" MINIMUM FOR SERVICE LATERALS) FROM NEW FINISH GRADE. THE CONTRACTOR SHALL PROBE THE WATERLINE AND SERVICE LATERALS AND SUBMIT THE PROBING DATA TO BWS MAINTENANCE UNIT-ENGINEERING CONSTRUCTION SECTION. ANY ADJUSTMENTS TO THE EXISTING WATER SYSTEM TO MEET THE MINIMUM COVER AND THERE REQUIREMENTS OF THE BWS STANDARDS, WHETHER SHOWN ON PLANS OR NOT, SHALL BE DONE BY THE CONTRACTOR AT NO COST TO BWS.

Approved:

Chief , Capital Projects Division , BWS

Date



THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION AND CONSTRUCTION OF THIS PROJECT WILL BE UNDER MY OBSERVATION.

Signature: *Yokoji Armstrong* April 30, 2012  
DATE

"OBSERVATION OF CONSTRUCTION" IS DEFINED IN CHAPTER 18-115, HAWAII ADMINISTRATIVE RULES ENTITLED "PROFESSIONAL ENGINEERS, ARCHITECTS, SURVEYORS AND LANDSCAPE ARCHITECTS".

STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
HIGHWAYS DIVISION

NOTES – 2

Pedestrian Facilities & ADA Compliance,  
Vicinity of Old Waiālae Rd. and S. King St.  
Proj. No. 7601A-01-09

Scale: None

Date: March 2010

SHEET No. C-4 OF 41 SHEETS

"AS-BUILT" 5

DATE	_____
DESIGNED BY	_____
CHECKED BY	_____
ORIGINAL PLAN	_____
NO. _____	_____

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	7601A-01-09	2010	6	41

SEWER NOTES:

1. ALL SEWER CONSTRUCTION SHALL BE PERFORMED IN ACCORDANCE WITH THE CITY'S STANDARD SPECIFICATIONS, SEPT. 1986, THE DEPARTMENT OF PUBLIC WORKS STANDARD DETAILS, SEPT. 1984, CURRENT CITY PRACTICES AND REVISED ORDINANCES OF HONOLULU, 1990 AS AMENDED, AND THE DESIGN STANDARDS OF THE DEPT. OF WASTEWATER MANAGEMENT, VOL. 1, JULY 1993.
2. THE CONTRACTOR SHALL NOTIFY THE INSPECTION SECTION, WASTEWATER BRANCH, DDC AT 527-5855 OR 523-4345 TO ARRANGE FOR INSPECTION SERVICES AND SUBMIT FOUR (4) SETS OF APPROVED CONSTRUCTION PLANS SEVEN (7) CALENDAR DAYS PRIOR TO COMMENCEMENT OF SEWER WORK. THE CONTRACTOR SHALL PAY FOR ALL INSPECTION COSTS.
3. THE UNDERGROUND PIPES, CABLES OR DUCTLINES KNOWN TO EXIST BY THE ENGINEER FROM HIS RESEARCH OF RECORDS ARE INDICATED ON THE PLANS. THE CONTRACTOR SHALL VERIFY THE LOCATION AND DEPTH OF THE FACILITIES INCLUDING AND AFFECTING SEWER LINES, IN THE PRESENCE OF THE WASTEWATER INSPECTOR, AND EXERCISE PROPER CARE IN EXCAVATING THE AREA. THE CONTRACTOR SHALL BE RESPONSIBLE AND SHALL PAY FOR ALL DAMAGED UTILITIES.
4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING CONTINUOUS SEWER SERVICE TO ALL AFFECTED AREAS DURING CONSTRUCTION.
5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY SEWAGE SPILLS CAUSED DURING CONSTRUCTION. THE CONTRACTOR SHALL NOTIFY THE STATE DEPARTMENT OF HEALTH AND UTILIZE APPROPRIATE SAMPLING AND ANALYZING PROCEDURES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL PUBLIC NOTIFICATIONS AND PRESS RELEASES.
6. ADJUST ALL UTILITY VALVE BOX FRAMES AND COVERS, WATER METER BOXES, MANHOLE FRAMES AND COVERS, ETC. , TO NEW FINISH GRADE. COORDINATE WITH PRIVATE COMPANIES AND CITY AGENCIES FOR WORK ON EACH RESPECTIVE UTILITY.
7. FOR SEWER MANHOLE ADJUSTMENTS UPWARD LESS THAN 3", SEE STD. DETAIL S-25. FOR SMH ADJUSTMENTS UPWARD GREATER 3" OR FOR ANY ADJUSTMENTS DOWNWARD RECONSTRUCT SMH TOP FROM BELOW THE CONE SECTION.
8. CONFINED SPACE

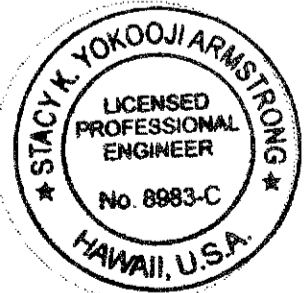
FOR ENTRY BY CITY PERSONNEL, INCLUDING INSPECTORS, INTO A PERMIT REQUIRED CONFINED SPACE AS DEFINED IN 29 CFR PART 1910.146(B), THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING:

- A. ALL SAFETY EQUIPMENT REQUIRED BY THE CONFINED SPACE REGULATIONS APPLICABLE TO ALL PARTIES OTHER THAN THE CONSTRUCTION INDUSTRY, TO INCLUDE, BUT NOT LIMITED TO, THE FOLLOWING:
1. FULL BODY HARNESSES FOR UP TO TWO PERSONNEL.
  2. LIFELINE AND ASSOCIATED CLIPS.
  3. INGRESS/EGRESS AND FALL PROTECTION EQUIPMENT.
  4. TWO-WAY RADIOS (WALKIE-TALKIES) IF OUT OF LINE-OF-SIGHT.
  5. EMERGENCY (ESCAPE) RESPIRATOR (10 MINUTE DURATION).
  6. CELLULAR TELEPHONE TO CALL FOR EMERGENCY ASSISTANCE.
  7. CONTINUOUS GAS DETECTOR (CALIBRATED) TO MEASURE O2, H2S, CO AND FLAMMABLES (CAPABLE OF MONITORING AT A DISTANCE AT LEAST 20 FEET AWAY).
  8. PERSONAL MULTI-GAS DETECTOR TO BE CARRIED BY INSPECTOR.
- B. CONTINUOUS FORCED AIR VENTILATION ADEQUATE TO PROVIDE SAFE ENTRY CONDITIONS.
- C. ONE ATTENDANT/RESCUE PERSONNEL TOPSIDE (TWO, IF CONDITIONS WARRANT IT).

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) REQUIREMENTS:

1. THE CONTRACTOR SHALL OBTAIN AND COMPLY WITH THE NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) REQUIREMENTS FOR OAHU DISTRICT PERMIT PROJECTS. THIS IS AVAILABLE AT THE OAHU DISTRICT OFFICE AT 727 KAKOI STREET (PH. 831-6793). DUE TO POTENTIAL COST IMPACTS, THE CONTRACTOR NEEDS TO BE AWARE OF THESE REQUIREMENTS.
2. THE CONTRACTOR SHALL COMPLETE AND SUBMIT A CONTRACTOR'S CERTIFICATION OF NPDES COMPLIANCE, INCLUDING COMPLETION OF THE BEST MANAGEMENT PRACTICE (BMP) CHECKLIST AND SUBMITTAL OF A WRITTEN BMP PLAN AND DRAWINGS, PRIOR TO ISSUANCE OF THE PERMIT TO PERFORM WORK UPON STATE HIGHWAYS.

ORIGINAL PLAN	DATE
DESIGNED BY	
CHECKED BY	
NOTED BY	
NO.	



THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION AND CONSTRUCTION OF THIS PROJECT WILL BE UNDER MY OBSERVATION.

Signature: *Stacy K. Yokooji Armstrong* April 30, 2012  
DATE

"OBSERVATION OF CONSTRUCTION" IS DEFINED IN CHAPTER 16-115, HAWAII ADMINISTRATIVE RULES ENTITLED "PROFESSIONAL ENGINEERS, ARCHITECTS, SURVEYORS AND LANDSCAPE ARCHITECTS".

STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
HIGHWAYS DIVISION

NOTES - 3

*Pedestrian Facilities & ADA Compliance,  
Vicinity of Old Waiʻalae Rd. and S. King St.  
Proj. No. 7601A-01-09*

Scale: None Date: March 2010

SHEET No. C-5 OF 41 SHEETS