

**STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION**

ADDENDUM NO. 1

FOR

**KUHIO HIGHWAY
INVASIVE SPECIES MANAGEMENT
KALIHUWAI ROAD TO KAHILI HOLO ROAD
PROJECT NO. 56D-01-13M**

**DISTRICT OF HANAIEI
ISLAND OF KAUAI**

FY 2013

Amend the bid documents as follows:

A. NOTICE TO BIDDERS

Prospective bidders are hereby notified that receiving of sealed proposals scheduled for June 13, 2013 will be postponed and rescheduled for June 27, 2013 at 2:00 P.M. The attached NOTICE TO BIDDERS shall be incorporated and made a part of the NOTICE TO BIDDERS.

B. SPECIAL PROVISIONS

1. Replace Page 1 - Table of Contents dated 3/27/13 with the attached Table of Contents dated r05/28/13.
2. Replace 107.03 – Working Hours: Night Work of Section 107 Legal Relations and Responsibility to Public dated 04/01/13 with the attached 107.03 – Working Hours: Night Work of Section 107 Legal Relations and Responsibility to Public dated r05/28/13.
3. Replace Specification Section 201 – Clearing and Grubbing dated 04/09/13 with the attached Specification Section 102 – Clearing and Grubbing dated r05/28/13.

4. Replace Specification Section 645 – Work Zone Traffic Control dated 04/16/13 with the attached Specification Section 645 – Work Zone Traffic Control dated r05/28/13.
5. Replace page P-1 - Proposal to the State of Hawaii Department of Transportation dated 07/01/08 with the attached page P-1 - Proposal to the State of Hawaii Department of Transportation dated r05/28/13.

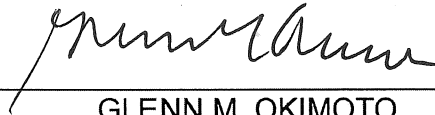
C. **Drawings**

1. Add plan sheet Nos. ADD. 1 through ADD. 12.

D. **PRE-BID MEETING**

The meeting minutes for the May 21, 2013 Pre-bid meeting are attached for your information.


Please acknowledge receipt of this Addendum No. 1 by recording the date of its receipt in the space provided on Page P-4 of the Proposal.



GLENN M. OKIMOTO
Director of Transportation

NOTICE TO BIDDERS

The receiving of sealed proposals for **KUHIO HIGHWAY, KUNIA INVASIVE SPECIES MANAGEMENT, KALIHIWAI ROAD TO KAHILI HOLO ROAD PROJECT NO. 56D-01-13M, DISTRICT OF HANAIEI, ISLAND OF KAUAI**, at the Contracts Office, Department of Transportation, 869 Punchbowl Street, Honolulu, Hawaii 96813 and The Office of the District Engineer – Kauai, 1720 Haleukana Street, Lihue, Hawaii 96766, scheduled for 2:00 P.M., June 13, 2013, is hereby POSTPONED UNTIL 2:00 P.M., June 27, 2013, at which time and place they will be publicly opened and read.



GLENN M. OKIMOTO
Director of Transportation

Advertised:

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Special Provisions

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Performance Bond

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Labor and Material Payment Bond

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1 **SECTION 107 - LEGAL RELATIONS AND RESPONSIBILITY TO PUBLIC**

2
3 Make the following amendments to said Section:

4
5 **(I) Amend 107.01(B)(1) – Commercial General Liability (Occurrence**
6 **form) from lines 61 to 62 to read as follows:**

7
8 **“(c) Bodily Injury & Property Damage Insurance.”**

9
10 **(II) Amend 107.03 – Working Hours; Night Work from lines 140 to 142 as follows:**

11
12 “Normal working hours shall be from 7:00 a.m. to 3:30 p.m.,
13 Monday through Friday, excluding holidays. Work performed
14 during the following hours shall be considered “night work:”

15
16 Sunday 9:00 P.M. – 5:00 A.M.

17
18 Monday to Friday 9:00 P.M. – 5:00 A.M.

19
20 All night work shall conform to the Community Noise
21 Variance permit. The following activities and conditions
22 should be performed during the night working hours unless
23 determined to be unsafe by the contractor and approved by
24 the Engineer:

25
26 (1) Movement of tree logs, branches, debris and other
27 parts from the slope to the Kuhio Highway that can
28 be done safely should be performed during night
29 working hours.

30
31 (2) The Contractor shall make every effort to minimize
32 noise emanating from the project.

33
34 (3) The Contractor shall have a job-site inspector to
35 whom immediate complaints can be forwarded for
36 prompt response and who shall have the general
37 responsibility of monitoring quiet work procedures.

38
39 (4) The Contractor shall give sufficient notice regarding
40 the project to any residents that may be impacted by
41 the nighttime activity. The notification for the planned
42 nighttime activity shall also contain the name and
43 telephone number of the job-site inspector.”

(III) Add 107.18 – Citizen and Residential Labor Force after line 745.

“107.18 – Citizen and Residential Labor Force.

(1) Citizen Labor - No person shall be employed as a laborer or mechanic unless such person is a citizen of the United States or eligible to become one; provided that persons without such qualifications may be employed with the approval of the Governor until persons who are citizens and are competent for such services are available for hire.

(2) Residential Labor Force - In accordance with Act 68; SLH 2010, not less than eighty (80) percent of the bidder's work force working on the contract shall be provided by Hawaii residents. This act applies to all construction procurements under HRS Chapter 103D; however this act does not apply to procurements for professional services under Section 103D-304 and small purchases under Section 103D-305. This act is also applicable to any subcontract of \$50,000.00 or more in connection with this contract. Residency shall be as defined by HRS Section 78-1.

(3) Percentage of workforce shall be determined by dividing the labor hours (including subcontractors) provided by residents working on the project divided by the total number of hours worked by all employees of the contractor in the performance of the contract. Hours worked by employees within shortage trades as determined by the department of labor and industrial relations, shall not be included in the calculation of this percentage.

(4) Certification of compliance with the forgoing provisions shall be made by the contractor in the form of a written oath to the procurement officer on a monthly basis for the duration of the contract.

(5) Sanctions for non compliance with these provisions are as follows:

(a) Temporary suspension of work on the project until the contractor or subcontractor complies with these provisions.

(b) Withholding of payment on the contract until compliance is attained.

(c) Permanent suspension of work on the contract.

(d) Recovery of any moneys expended on the contract.

(e) Debarment or suspension of the contractor under Section 103D-702.

93 This section shall not apply when its application will disqualify the State
94 from receiving federal funds or aid."

95

96

97

98

END OF SECTION 107

Amend **Section 201 - Clearing And Grubbing** to read as follows:

"SECTION 201 - CLEARING AND GRUBBING

201.01 Description. This section describes clearing, grubbing, protecting trees, vegetation, and objects designated to remain, removing and disposing of vegetation, debris, and unwanted material from right-of-way, easements, road approaches, project and borrow pit sites, and other areas designated in the contract documents or by the Engineer.

Clearing is defined as removing and disposing of all unwanted surface material, such as trees, brush, grass, weeds, downed trees, and other material.

Grubbing is defined as removing and disposing of all unwanted vegetative matter from underground, such as stumps, roots, buried logs, and other debris.

Debris is defined as unusable or unwanted material produced by clearing and grubbing.

201.02 Materials. None

201.03 Construction.

(A) Vector Control. Prior to starting site clearing or structure removal, comply with rodent control requirements of Title 11, Chapter 26, Section 11-26-35, HAR.

(B) Best Management Practices (BMP). Ensure that all BMP measures are in place before clearing and grubbing starts. If BMP measure is removed temporarily to accommodate construction operations, reinstall before end of workday.

(C) Limits. Clear entire length of project within limits specified in the contract documents.

(D) Access. The Engineer will consider arrangements made by the Contractor for alternative access to the state right of way through private property that will reduce lane closures.

(E) Clearing. Contract tree work to an ISA Certified Arborist with a minimum of 6 years of continuous certification and experience in Hawaii. Two ISA Certified Tree Workers with 3 years of continuous certification and experience in Hawaii shall be on site during all tree work operations. Perform tree work in accordance with ANSI A300 and ANSI Z133.

Each phase of the project shall begin with the removal and herbicide

of six (6) inch diameter or less trees followed by the removal of larger trees. After all trees are removed, identify bare soil areas and install jute mesh erosion control and Indonesian Privet. Lastly, install tree planting. Every 6 months after the last tree is planted remove and herbicide all invasive tree saplings.

1. Contractor to survey the entire right of way boundaries using state monuments for reference. Stakes corners and every 500 feet. Use licensed surveyors. Contractor's archeologist to accompany surveyors and preform an Archeological Inventory Survey. See Section 212 Archeological Inventory Survey.
2. Contractor shall close the road for the brief act of felling trees that pose a risk to road users and for clearing the fallen tree from the travel lanes.
3. Remove and Herbicide Trees 6 Inches or Less in Diameter. Cut all trees as close to the finish grade as possible. For trees being removed, climbing with spikes will be allowed. Trees removed shall be herbicided within 30 minutes of cutting with Pathfinder II with a red dye using the cut stump method per manufacturer label.
4. Remove and Herbicide Trees 6 Inches or Greater in Diameter. Cut all trees as close to the finish grade as possible. For trees being removed, climbing with spikes will be allowed. Trees removed shall be herbicided within 30 minutes of cutting with Pathfinder II using the cut stump method with a red dye.
5. Contractor may chip the logs on site and spread to a maximum depth of 4 inches bark mulch on slopes less than 2:1 slope (horizontal:vertical). Chips shall be 6 inches or less in size. Remove and dispose of logs unable to be chipped on the project site.
6. Contractor may leave fallen debris that is secure in place for removal during night hours.
7. Erosion Control. Cover all exposed soils resulting from tree operations with jute mesh erosion control fabric installed per manufacturer's recommendations. Submit product information for approval by the Engineer. Do not exceed total erosion control exposure area limits described in Subsection 209.03(B) – Construction Requirements.
8. Plant trees. See Section 619 – Planting.
9. Removal and Herbiciding of Invasive Tree Saplings. Every six months for a period of 36 months after the last new tree is planted, remove and herbicide all Albizia tree saplings (*Falcataria moluccana*), African Tulip Tree saplings (*Spathodea campanulata*), Octopus Tree saplings

(Schefflera actinophylla), Parasol leaf tree (Macaranga tanarius) and Bingabing tree saplings (Macaranga mappa) and any other invasive tree specie saplings as determined by Hawaii Weed Risk Assessment within the project limits. Perform these tree saplings removals a total of 6 times over thirty-six months. Additionally, the project limits shall expand to include the Kuhio Highway Emergency Slope Stabilization project after final acceptance by the Engineer from Sta. 35+00 to Sta. 44+00 for the purposes of removing the invasive trees listed above for 4 rounds of sapling removals (24 months). At the same time remove all vegetation around newly planted trees within 5 feet of trunk and inspect trees that have been staked.

Protect remaining trees and shrubbery from injury or damage. Cut trees to be removed without injuring trees and shrubbery that are to remain. Preserve trees, shrubs, plants, and other objects to remain within the established limits. All Shoebuttan Ardisia (Ardisia elliptica) shall be preserved.

No night work from September 15th to December 15th.

Protect land monuments, property markers, or official datum points until the Engineer authorizes their removal.

(F) Grubbing. Grub areas below natural ground surface of vegetative and unwanted material interfering with proposed work within thirty (30) feet of the edge of pavement as determined by the Engineer.

Leave in place, stumps and nonperishable solid objects that extend less than 6 inches above the ground line or low water level when they are outside the excavation and embankment areas. Cut stumps flush or as close as possible to finish grade.

Backfill stump holes and other holes with embankment material and compact in accordance with Subsection 203.03(C) - Embankment Construction, except in areas to be excavated.

(G) Removal and Disposal of Material. Remove material and debris, and dispose of at an authorized disposal site. Obtain written authorization from property owners and governmental authorities for disposal locations outside highway right-of-way limits.

When accepted by the Engineer, reduce degradable materials to mulch or chips of a maximum size of 6 inches and dispose of in areas enclosed by interchange loops and ramps or between slope lines and right-of-way lines. Spread mulch and chips uniformly on ground surface, and mix one to one with underlying earth.

143 Leave roadway and adjacent areas with neat and finished
144 appearance. Dispose of slashings, flammable material, and other debris
145 within or adjacent to highway right-of-way. Do not burn material and debris.
146

147 **(H) Hawaiian Hoary Bat.** The Hawaiian hoary bat (*Lasiurus cinereus*
148 *semotus*) is listed as Endangered Species and protected under the
149 Endangered Species Act. No clearing or pruning of trees taller than 15 feet
150 from June 1st to September 15th. Contractor shall be responsible for
151 conducting annual training in May of each year of all tree workers on
152 identification of the Hawaiian hoary bat. If the Hawaiian hoary bat is
153 observed at the Project Site, notify the Engineer.
154

155 If an injured threatened or endangered Hawaiian hoary bat is found
156 in the rights-of-way, the Contractor shall notify the Engineer immediately
157 and cease all construction and maintenance work in the vicinity of the
158 downed bat. If DOFAW officers arrange to come on site to pick up the bat,
159 do not resume construction or maintenance in the vicinity of the bat till it is
160 removed. If advised by the local DOFAW office to pick up and injured bat,
161 then follow these guidelines:
162

- 163 1. Cease all construction and maintenance work in the vicinity of
164 downed bird/bat.
- 165 2. Carefully pick up the bat from behind using a towel, t-shirt or cloth
166 by gently wrapping it around its back and wings.
- 167 3. Place the bat in a ventilated cardboard box, pet carrier, or other
168 container. Keep the bird/bat covered and in a quiet, shaded
169 location.
- 170 4. Do not feed, water, handle or release the bat.
- 171 5. The Engineer shall contact the local DOFAW office to find out
172 where to deliver the injured bird/bat.
173

174 If a dead threatened or endangered bird or bat is found within the
175 rights-of-way, the Contractor shall report this to the Engineer who will contact
176 local DOFAW office.
177

178 **(I) Project Arborist.** Contract shall include a Project Arborist who is an
179 International Society of Arboriculture (ISA) Certified Arborist with a minimum
180 of 10 years of continuous certification and experience in Hawaii. Submit
181 copies of certification from ISA and proof of employment as an arborist in
182 Hawaii for the past ten years. Submit a list of ten similar projects. The
183 Project Arborist shall be in addition to the contractor's arborist. Experience
184 shall include extensive experience with Albizia trees (*Falataria moluccana*)
185 removal involving large tree rigging and removal. The selection of the Project
186 Arborist is subject to approval by the Engineer.
187

188 The project arborist reports to the Engineer and is responsible for
189 providing the Engineer technical expertise during construction. The duties of
190 the Project Arborist shall include attending construction meetings, inspection

of work, reviewing submittals, technical consultation, selection of new trees, preparing reports and other duties as determined by the Engineer.

(J) Work Plan. Contract shall include a written plan of the clearing methods, personnel qualifications, lane closures, number of crews, access arrangements, night work and equipment type and quantity to perform the scope of work. The work plan shall include the plans to minimize quantity, duration of lane closures and the coordination with the Kauai Highways Emergency Slope Sta. The work plan shall be submitted prior to any construction activities and is subject to approval by the Engineer.

(K) Phasing. Work shall be phased in 3 phases. Work shall not proceed to the next phase until the previous phase is completed or as directed by the Engineer.

- a. Phase 1 - Makai side only from Sta. 34+56.18 to Sta. 44+00
- b. Phase 2 - Both sides of road from Sta. 44+00 to Sta. 67+00
- c. Phase 3 - Both sides of road from Sta. 11+00 to Sta. 26+58

Each phase shall begin with the removal and herbicide of six (6) inch diameter or less trees first followed by the removal of larger trees. After all trees are removed, identify bare soil areas and install jute mesh erosion control and Indonesian Privet. Install tree planting locations.

201.04 Measurement.

(A) The Engineer will measure Project Arborist, if ordered by the Engineer, on a force account basis, in accordance with Subsection 109.06 – Force Account Provisions and Compensation.

(B) The Removal and Disposal of Trees will be paid on a lump sum basis. Measurement for payment will not apply.

(C) The Removal and Herbiciding of Invasive Tree Saplings will be paid on a lump sum basis. Measurement for payment will not apply.

201.05 Payment. The Engineer will pay for the accepted clearing and grubbing on a contract lump sum basis. Payment will be full compensation for the work prescribed in the section and the contract documents.

The Engineer will pay for each of the following pay items when included in the proposal schedule:

Pay Item	Pay Unit
Project Arborist	Force Account

238	Removal & Disposal of Trees	Lump Sum
239	6 Inches or Less in Diameter	
240		
241	Removal & Disposal of Trees	Lump Sum
242	6 Inches to 12 Inches in Diameter	
243		
244	Removal & Disposal of Trees	Lump Sum
245	12 Inches to 18 Inches in Diameter	
246		
247	Removal & Disposal of Trees	Lump Sum
248	18 Inches to 24 Inches in Diameter	
249		
250	Removal & Disposal of Trees	Lump Sum
251	24 Inches to 36 Inches in Diameter	
252		
253	Removal & Disposal of Trees	Lump Sum
254	36 Inches or Greater in Diameter	
255		
256	Removal and Herbiciding of Invasive Tree Saplings	Lump Sum
257		
258	An estimated amount of the force account may be allocated in the proposal	
259	schedule under 'Project Arborist,' but the actual amount to be paid will be the sum	
260	shown on the accepted force account records, whether this sum is more or less	
261	than the estimated amount allocated in the proposal schedule.	
262		
263	The partial payment schedule for Removal & Disposal of Trees. The Engineer will	
264	pay for:	
265	(A) 10 percent upon completion of Phase I - Removal & Disposal of Trees.	
266		
267	(B) 65 percent upon completion of Phase II - Removal & Disposal of Trees.	
268		
269	(C) 25 percent upon completion of Phase III - Removal & Disposal of Trees.	
270		
271	The partial payment schedule for Removal and Herbiciding of Invasive Tree	
272	Saplings. The Engineer will pay for:	
273		
274	(A) 16 percent upon completion every 6 months of the Removal and	
275	Herbiciding of Invasive Tree Saplings for the entire project area."	
276		
277	END OF SECTION 201	

Amend **Section 645 – Work Zone Traffic Control** to read as follows:

SECTION 645 - WORK ZONE TRAFFIC CONTROL

645.01 Description. This section describes the following:

(A) Furnishing, installing, maintaining and subsequently removing work zone traffic control devices, and personnel. Work zone traffic control shall include providing flaggers and police officers.

(B) Keeping roads for public traffic open and in passable condition; providing and maintaining temporary access crossings for trails, businesses, parking lots, garages, residences, farms, parks, and other driveways; taking necessary work precautions for the protection, safety, and convenience of the public; should pedestrian facilities exist, taking necessary measures for safe and accessible passage, with route information and ADAAG compliance, for pedestrians traveling through or near work zone.

(C) Taking safety and precautionary measures, such as illuminating roadway obstructions during hours of darkness, in accordance with Chapter 286, HRS; Title 19, Subtitle 5, Chapters 127, 128, and 129, HAR; and *MUTCD*.

645.02 Materials.

Signs	750.01
Sign Posts	750.02
Fasteners for Signs and Route Markers	750.03
Reflector Marker	750.07
Flexible Delineator Posts and Reflectors	750.08
Traffic Delineators	750.09
Preformed Pavement Marking Tape	755.04

Submit 10 sets of FHWA approval letters certifying compliance with NCHRP Report 350 for signs, sign supports, barricades, delineators, cones, vertical panels, and other traffic control devices. Use of signs, sign supports, barricades, delineators, cones, vertical panels, and other traffic control devices that are not certified to be NCHRP Report 350 compliant will not be allowed.

Upon request of the Engineer, furnish self-certified NCHRP Report 350

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645-1a

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compliant letter from vendor for each type of Category 1 traffic control device, as defined in NCHRP Report 350, including single-piece traffic cone, single-piece drum, tubular marker, and delineator.

Traffic control devices, including signs, barricades, warning lights, arrow boards, changeable message signs, cones, delineators, and markers, shall conform to the American Traffic Safety Services Association (ATSSA), *Quality Standards for Work Zone Traffic Control Devices* and *MUTCD*.

Protective devices including barricades, warning signs, lights, and temporary signals shall conform to Title 19, Subtitle 5, Chapters 127, 128, and 129, HAR. Reflectorization for protective devices such as barricades, delineators, and warning signs shall conform to Subsection 750.01 – Signs.

645.03 Construction. Furnish, install, and maintain barricades, signs, cones, delineators, lights, flashing signals, and other traffic control devices.

Furnish two police officers for each location that requires work zone traffic control. If TCP is included in the contract documents, furnish number of police officers indicated in TCP.

When directing traffic, flaggers or police officers, or both shall be in direct communication with each other.

Submit TCP and schedule at least 15 working days before work starts. Submit modifications and deviations from accepted TCP and schedule at least 15 working days before start of work requiring modification or deviation. Illegible TCP will not be accepted.

Include the following in TCP and schedule:

- (1) Signs (type, size, designation, and placement).
- (2) Traffic movements shown by arrows.
- (3) Positions of flaggers and police officers.
- (4) Barricades, cones, delineators, and additional traffic control devices and measures necessary for protection of work and public safety; and placement, spacing, distances, and reference points for traffic control devices.
- (5) Layout, drawn to scale, of traffic control devices, including information needed to layout TCP.
- (6) Brief description of work.

95 (7) Dates of work.

96
97 (8) Times of day affected.

98
99 (9) Proposed public information sign.

100
101 (10) Proposed news release.

102
103 Place sign or device situated farthest upstream from work zone first. Then
104 place others progressively downstream toward work zone.

105
106 Extend cones or delineators to point where cones or delineators are visible to
107 approaching traffic.

108
109 For signs with messages on both faces, cover inapplicable message before
110 placement.

111
112 Keep barricades, construction and warning signs, and other traffic control
113 devices in good condition. Repair, clean, or replace barricades, signs, or other
114 devices as required to maintain effectiveness and appearance. The Engineer alone
115 will decide suitable condition of each barricade, sign, or other traffic control device.

116
117 Remove or cover regulatory and warning signs that conflict with TCP.
118 Restore signs upon completion of work or as ordered by the Engineer. Affix object
119 markers to post(s) of covered sign.

120
121 Promptly remove or cover construction and warning signs that are not
122 applicable or not in use.

123
124 Promptly remove traffic control devices that are no longer needed.

125
126 Remove traffic control devices in reverse order of installation, starting closest
127 to work zone and continuing away from work zone.

128
129 Maintain abutting owners' existing access until replacement access is usable.
130 Obtain permission from abutting owners, including conditions for closing existing
131 access. Submit copy of agreement with abutting owners before beginning work in
132 the affected area.

133
134 When working on existing facility that will be kept open to traffic, provide
135 smooth and even surface for public traffic use. Only work on a portion of roadway
136 at one time, and stage construction from one side to other while routing traffic over
137 opposite side.

138
139 During subgrade and paving operations, paved shoulders may be used for
140 public traffic.

141

Do not store material or equipment where it will interfere with public traffic. Remove equipment and other obstructions out of right-of-way or clear zone to permit free and safe passage of public traffic during non-working hours or suspension of work. For storage of materials and equipment, see Subsection 105.14 – Storage and Handling of Materials and Equipment.

Notify Fire Department, in writing, at least 24 hours before blocking or closing road access. Keep fire hydrants accessible to Fire Department by not placing material or other obstructions within five feet of fire hydrant or closer than permitted by applicable ordinances, rules, and regulations.

Notify the Engineer and County, including Bus Systems Division, Police Department, Fire Department, Emergency Medical Services, and Department of Health in writing at least five days before start of construction.

(A) Signs. Install signs sufficiently ahead of location where operations may interfere with use of road by traffic and at intermediate points where new work crosses or coincides with existing road.

Place signs in accordance with TCP as accepted by the Engineer.

(B) Construction Signs. Erect construction signs at the beginning of project and at the end of project at the location indicated by the Engineer.

These signs shall remain for the duration of the highway project. Maintain these signs. Place these signs besides the required traffic control signs called for herein.

The construction signs shall be new and become the property of the Contractor.

(C) Sign Covers. Use sign covers when existing signs confuse the public or are in conflict with TCP signs installed. Sign covers shall be commercially manufactured and accepted by the Engineer before use. Sign covers shall at all times and under all conditions not allow any portion of the sign being covered to be visible. If more than one side of the sign has words or symbols cover all sides of the signs until needed. "Homemade" or "field made" covers shall not be used. Cover both sides of the sign if both sides have symbols or words. Covering of sign identification markings are not required if that is the only markings on that side of the sign. Sign covers shall be maintained.

Removal of the existing sign in lieu of the use of sign covers may be acceptable to the Engineer providing the previously existing sign is immediately reinstalled when directed. Removal of existing post(s) and mounting hardware is required if not used by the new TCP sign. New mounting hardware shall be used to mount the TCP signs if the existing hardware is in an unacceptable condition in the opinion of the Engineer.

189 In addition, should the sign or post during storage, in the opinion of the
190 Engineer, become unacceptable or lost or stolen the Contractor shall
191 replace the sign or post with a new sign or post. Use new hardware to
192 reinstall the sign regardless whether it is an existing sign or new
193

194 **(D) Barricades**

195
196 **(1) General.** Provide, erect, and maintain necessary barricades
197 suitable for protection of work and safety of the public.
198

199 Barricades shall be in good condition. Barricade application
200 and installation shall be in accordance with accepted TCP.
201

202 Provide sand bags if required or ordered by the Engineer.
203 Sand bags and installation method shall comply with *MUTCD* and be
204 accepted by the Engineer prior to use. Do not place sand bags on
205 striped barricade rail.
206

207 During hours of darkness, install steady burn or flashing lamps
208 on barricades selected by the Engineer. Attach lamps on barricade
209 ends closest to traveled way and visible to oncoming traffic.
210

211 Do not install signs on barricades unless signs and barricades
212 have been crash tested as a unit and accepted under NCHRP Report
213 350.
214

215 **(2) Retroreflectorization.** Retroreflectorize barricade rails and
216 attachment with retroreflective sheeting in accordance with
217 Subsection 750.01(C)(4) - Type III or IV Retroreflective Sheeting
218 (High Intensity) or Subsection 750.01(C)(5) - Hardened Aluminum-
219 Backed Retroreflective Sheeting.
220

221 Retroreflectorize both vertical faces of each barricade rail.
222

223 **(3) Color.** Provide white colored rails, frames, and braces with
224 front and back rail faces having 6-inch-wide alternating orange or red
225 and white stripes sloping downward toward traveled way at angle of
226 45 degrees from vertical. Use stripe colors in accordance with the
227 following:
228

229 **(a)** Use orange and white stripes for the following
230 conditions:
231

232 1. Construction work.
233

234 2. Detours.
235

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3. Maintenance work.

(b) Use red and white stripes for the following conditions:

1. On roadways with no outlet, such as dead-ends and cul-de-sacs.
2. Ramps or lanes closed for operational purposes.
3. Permanent or semi-permanent closure or termination of roadway.

(4) **Maintenance.** Keep barricades in good condition. Repair, repaint, clean, or replace barricades to maintain effectiveness and appearance. Immediately replace missing or damaged barricades, lamps, sandbags, and other accepted weights.

Clean and repair barricades before relocating to other locations.

(E) **Traffic Delineators.** Install traffic delineators in accordance with accepted TCP.

Maintain traffic delineators in good condition. Immediately replace missing or damaged traffic delineators.

Clean delineator prior to relocating to new location.

(F) **Cones.** Install traffic cones in accordance with accepted TCP.

Maintain traffic cones. Keep traffic cones clean and in good repair. Immediately replace lost, stolen, or damaged traffic cones.

Clean cones prior to relocating to new location.

(G) **Lane Closures.** Lane closures will be allowed from 8:30 a.m. to 3:00 p.m., Monday through Friday and are limited to 15 minutes per hour or as determined by the Engineer. Lane closures will be allowed from 9:00 p.m. to 5:00 a.m., Sunday through Friday as determined by the Engineer. Exceptions to lane closure hours specified require written acceptance by the Engineer. No increase in contract price or contract time will be given for lane closure restrictions specified.

No lane closures will be allowed during 24-hour periods as follows:

(1) Day preceding holiday (3:00 p.m. to Midnight), except as otherwise specified.

- 283
284 (2) Holidays (Midnight to Midnight).
285
286 (3) Day before and day after Thanksgiving Day (Midnight to
287 Midnight).
288
289 (4) Three-week holiday period for Christmas and New Years
290 (Midnight to Midnight).
291
292 (5) Three-week "Beat-the-School-Jam" period, to be determined,
293 (Midnight to Midnight) beginning approximately third week of August.
294
295 (6) Other dates of events indicated in the contract documents.
296
297 (7) No lane closures before January 6, 2014.
298

299 No time extension will be given for the above restrictions. The
300 contract time for the project has accounted for any loss of time due to the
301 above restrictions.
302

303 Closure of only one lane of traffic will be allowed during lane-closure
304 hours. Contraflowing is allowed. Stacking of vehicles on bridge during lane
305 closures is not allowed. Full road closure is required for the brief act of tree
306 felling when there is a risk to road users and for clearing the road of resulting
307 debris. Keep lanes open to traffic and allow flow at normal posted speed limit
308 during nonlane-closure hours.
309

310 If applicable, coordinate lane closures with adjacent project(s) at no
311 increase in contract price or contract time.
312

313 Rental fees will be assessed in accordance with Subsection 108.09 –
314 Rental Fees for Unauthorized Lane Closure or Occupancy, for failure to open
315 lanes to traffic during peak hours. Morning and afternoon peak hours shall
316 be from 5:00 a.m. to 8:30 a.m. and 3:00 p.m. to 9:00 p.m., respectively,
317 Monday through Friday.
318

319 Before scheduling work, submit requests for detours and lane
320 closures as follows:
321

- 322 (1) Detours - 8 weeks before implementing detours.
323
324 (2) Lane closures - 6 weeks before implementing lane closures.
325

326 Include the following with detour and lane closure requests:
327

- 328 (1) Explanation of proposed changes to existing traffic pattern.
329

- 330 (2) Installation schedule for informational and traffic control signs.
331
332 (3) Publication schedule for legal notices.
333
334 (4) Plan showing proposed informational signs.
335
336 (5) Plan showing lane changes or detours in accordance with
337 accepted TCP, including details at beginning of multi-lane highway
338 lane changes and detours.
339
340 Detours or lane closures will not be allowed before the Engineer
341 accepts detour or lane closure request.

TABLE 645-I - FOR TRAFFIC CONTROL PLAN							
POSTED SPEED LIMIT (M.P.H.)	SIGN SPACING (D) (FEET)	TAPER LENGTH (T) (FEET)		LONGI- TUDINAL BUFFER SPACE (B) (FEET)	SPACING OF CONES OR DELINEATORS (FEET)		
		W = 12' OR LESS *	W = GREATER THAN 12' *		TAPER	TANGEN T	WORK AREA
20	250	200	W x 17	35	20	20	10
25	250	200	W x 17	55	25	25	10
30	250	250	W x 20	85	30	30	10
35	250	250	W x 20	120	35	35	10
40	500	350	W x 30	170	40	40	10
45	500	550	W x 45	220	45	45	10
50	1000	600	W x 50	280	50	50	10
55	1000	700	W x 55	335	55	55	10
* W = width of lane or shoulder							

(H) **Advisory Signs.** Submit advisory sign shop drawings. Construct, install, maintain, and remove two advisory signs as ordered by the Engineer. Place signs at locations designated by the Engineer. Provide signs, minimum 8 feet wide by 4 feet high, with black letters on orange background, and with three 4.00 pounds/foot flanged channel posts for each sign.

Include starting date and hours of construction in sign message. Use letter heights of 8 inches, Series D. The Engineer will review and accept advisory signs' wording before fabrication. Install advisory signs two weeks before start of construction. Remove advisory signs immediately after construction has been completed or as ordered by the Engineer.

(I) **Advertisement.** Place advertisement in newspaper for the following traffic pattern changes or night work:

- (1) Detours.
- (2) Lane closure.
- (3) Permanent road closure.
- (4) Permanent new route that changes previous route.

Include the following information:

- (1) Map of traffic pattern change limits.
- (2) Map showing lane(s) closure and detour pattern.

372
373 (3) Notice of starting and ending dates and duration.

374
375 (4) Explanation of lane(s) closure or detours in "Notice To
376 Motorist".

377
378 Quality of map shall conform to the following requirements:

379
380 (1) No freehand printing or penciling.

381
382 (2) Highlight important features by darkening, cross-hatching,
383 crossing-out, or coloring important words, as necessary.

384
385 (3) Provide maps with minimum size of five columns wide and four
386 column inches deep. Lesser width columns may be considered to
387 balance against size of drawing.

388
389 (4) Text specifications.

390
391 (a) Work being featured - 3/16-inch text.

392
393 (b) Major roads and features - 1/8-inch text.

394
395 (c) Other roads and features- first letter of sentence upper
396 case.

397
398 (d) "NOTICE TO MOTORIST" in upper case.

399
400 (e) Message - first letter of sentence upper case.

401
402 (5) Line Thickness.

403
404 (a) Important feature being advertised - line thicker than
405 rest of map.

406
407 (b) Directional arrow - bolder than rest of lines shown on
408 map, when important, to show route traffic should use.

409
410 (6) Show reference direction such as "TO HONOLULU" with
411 arrow.

412
413 Submit the following:

414
415 (1) "Notice to Motorists" before placement in newspaper, six
416 weeks before start of work.

417
418 (2) Actual size of notice to be published in newspaper. The

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645-10a

Engineer will not allow size reduction of notices once accepted.
Submit final, camera-ready "Notice to Motorists" advertisement.

Place advertisement for three consecutive days and within one week before traffic pattern changes or night work, in publication as ordered by the Engineer. In lieu of the advertisement(s) the Engineer may substitute the use of two portable changeable message boards and accessories at no additional cost for three days for each required advertisement.

645.04 Measurement.

(A) Traffic control as specified in Subsection 645.03 - Construction including sign covers and the initial advertisement(s) will be measured on a contract lump sum basis. Measurement for payment will not apply.

(B) The Engineer will measure additional police officers, additional traffic control devices, and additional advertisements, if ordered by the Engineer, on a force account basis, in accordance with Subsection 109.06 - Force Account Provisions and Compensation.

645.05 Payment. The Engineer will pay for the accepted traffic control, additional police officers, additional traffic control devices, and additional advertisement at the contract price per pay unit, as shown in the proposal schedule. Payment will be full compensation for the work prescribed in this section and the contract documents.

The Engineer will pay for the following pay items when included in the proposal schedule:

Pay Item	Pay Unit
Traffic Control	Lump Sum
Additional Police Officers, Additional Traffic Control Devices, And Additional Advertisements	Force Account

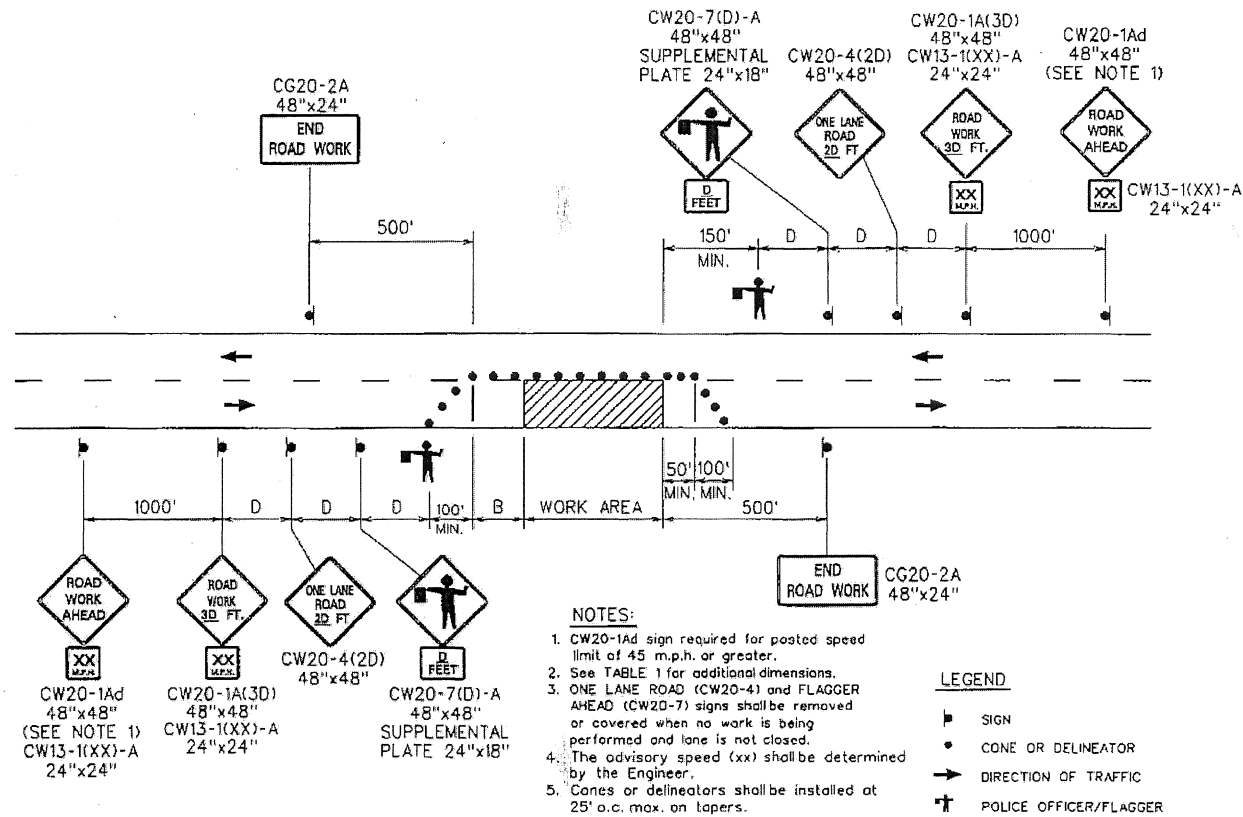
An estimated amount for the force account may be allocated in the proposal schedule under "Additional Police Officers, Additional Traffic Control Devices And Additional Advertisements", but the actual amount to be paid will be the sum shown on the accepted force account records, whether this sum be more or less than the estimated amount allocated in the proposal schedule.

The Engineer will not pay for request submittals. The Engineer will not consider claims for additional compensation of late submittals or requests by Contractor.

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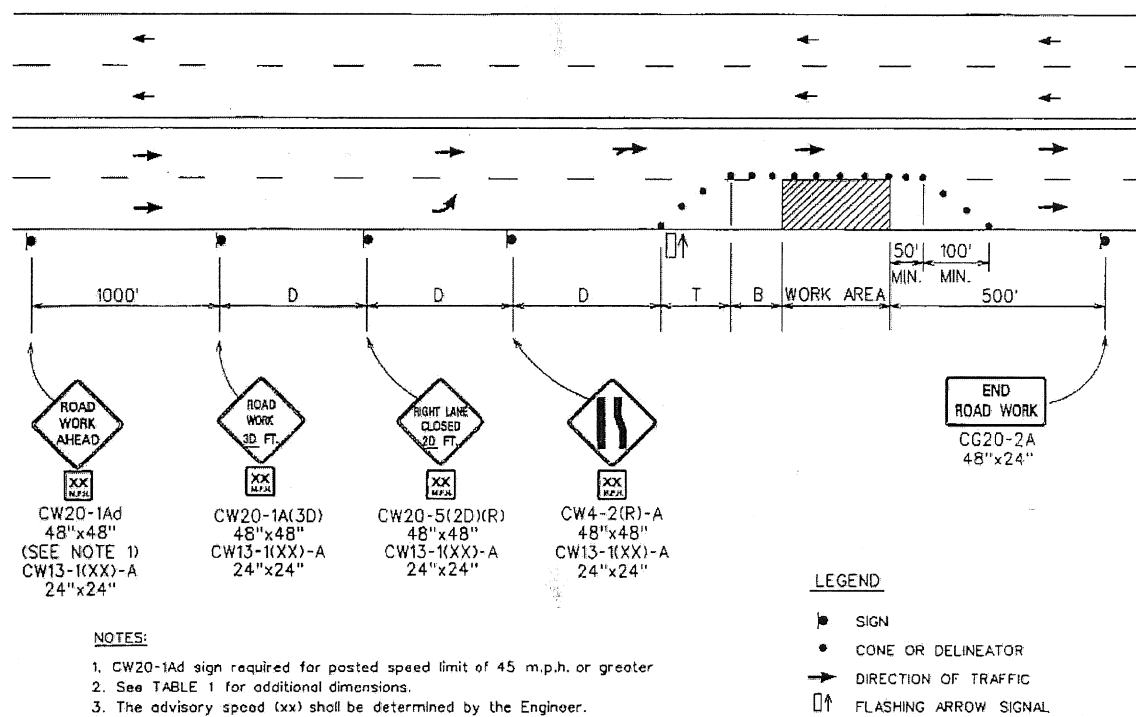


TWO-LANE HIGHWAY - ONE LANE CLOSED
FIGURE 1 - TRAFFIC CONTROL PLAN

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NOTES:

1. CW20-1Ad sign required for posted speed limit of 45 m.p.h. or greater
2. See TABLE 1 for additional dimensions.
3. The advisory speed (xx) shall be determined by the Engineer.

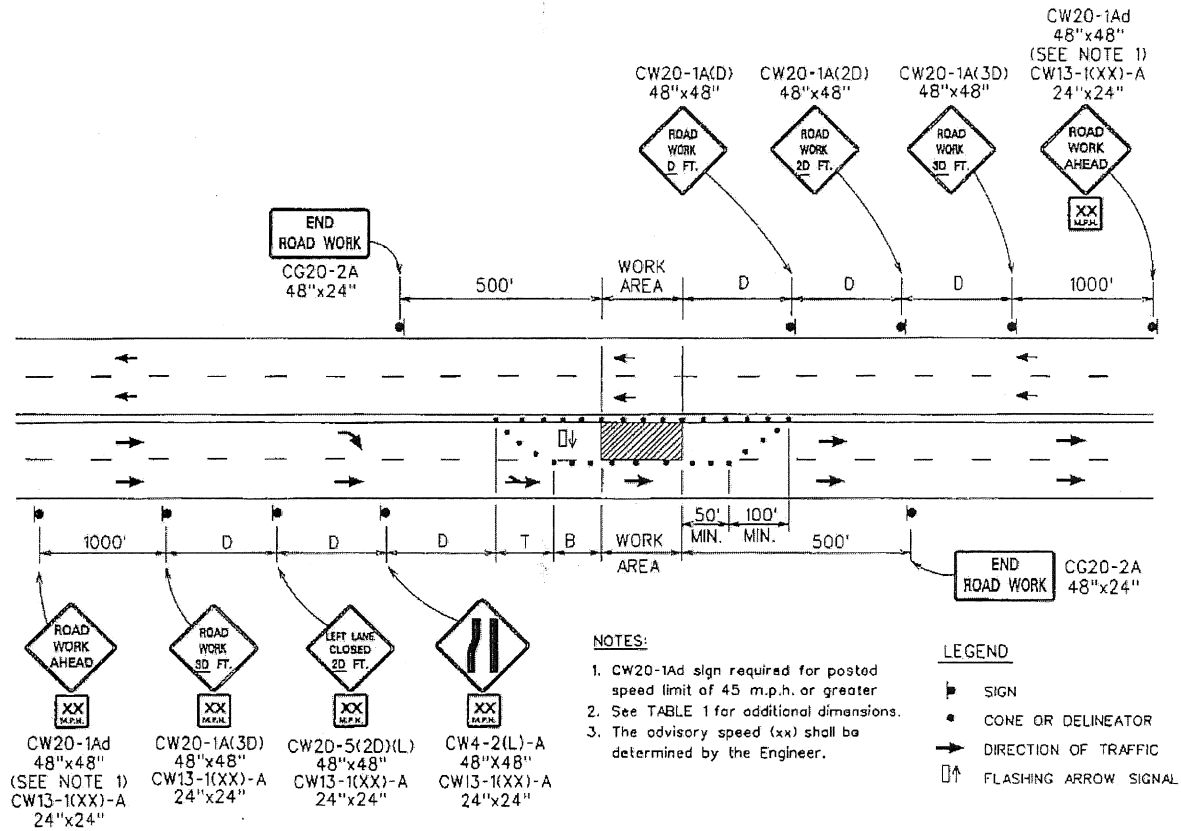
MULTILANE UNDIVIDED HIGHWAY - RIGHT LANE CLOSED

FIGURE 2 - TRAFFIC CONTROL PLAN

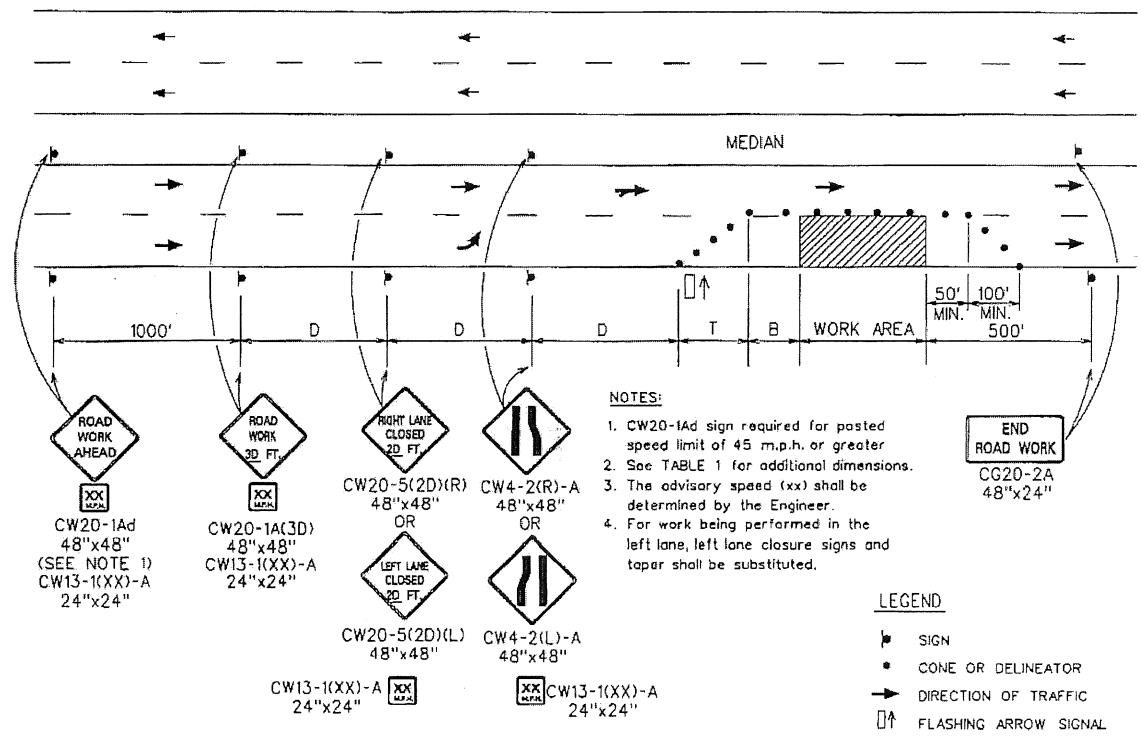
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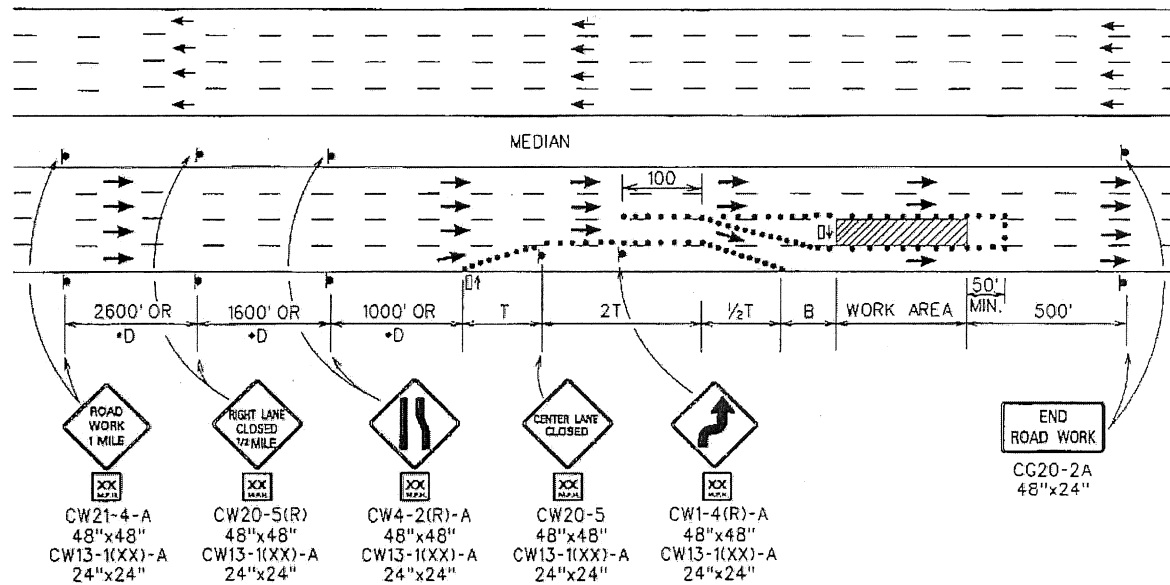
MULTILANE UNDIVIDED HIGHWAY - LEFT LANE CLOSED
FIGURE 3 - TRAFFIC CONTROL PLAN



MULTILANE DIVIDED HIGHWAY - ONE LANE CLOSED
FIGURE 4 - TRAFFIC CONTROL PLAN

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645-16a



NOTES:

1. For work being performed in the left center lane, use mirror image of above with appropriate left lane closure signs and taper.
2. For undivided highways, delete advance warning signs shown posted in median area.
3. The advisory speed (xx) shall be determined by the Engineer.
4. See TABLE 1 for additional dimensions.
5. For posted speeds of 40 m.p.h. or less, use sign spacings and taper lengths from TABLE 1 and change signs CW21-4-A and CW20-5(R) to CW20-1A(3D) and CW20-5(2D)(R) as shown in Figure 4.

MULTILANE HIGHWAY - CENTER LANE CLOSED

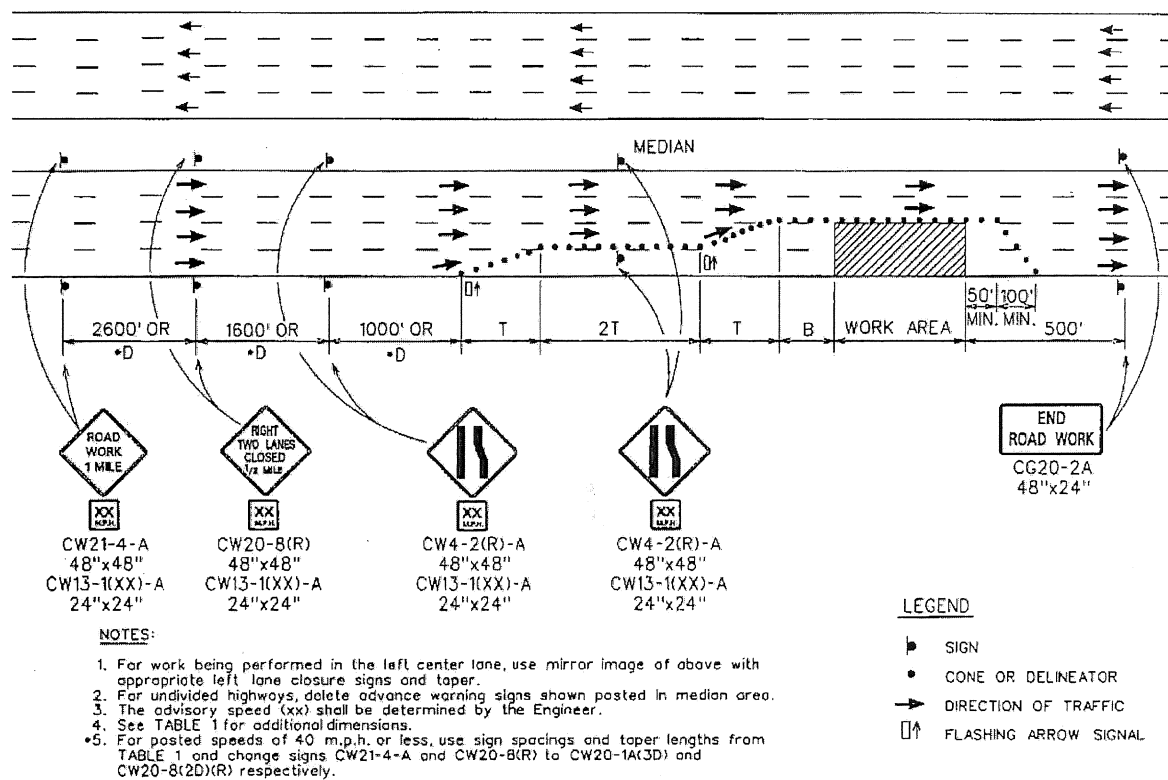
FIGURE 5 - TRAFFIC CONTROL PLAN

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645-17a

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MULTILANE HIGHWAY - MULTIPLE LANE CLOSED

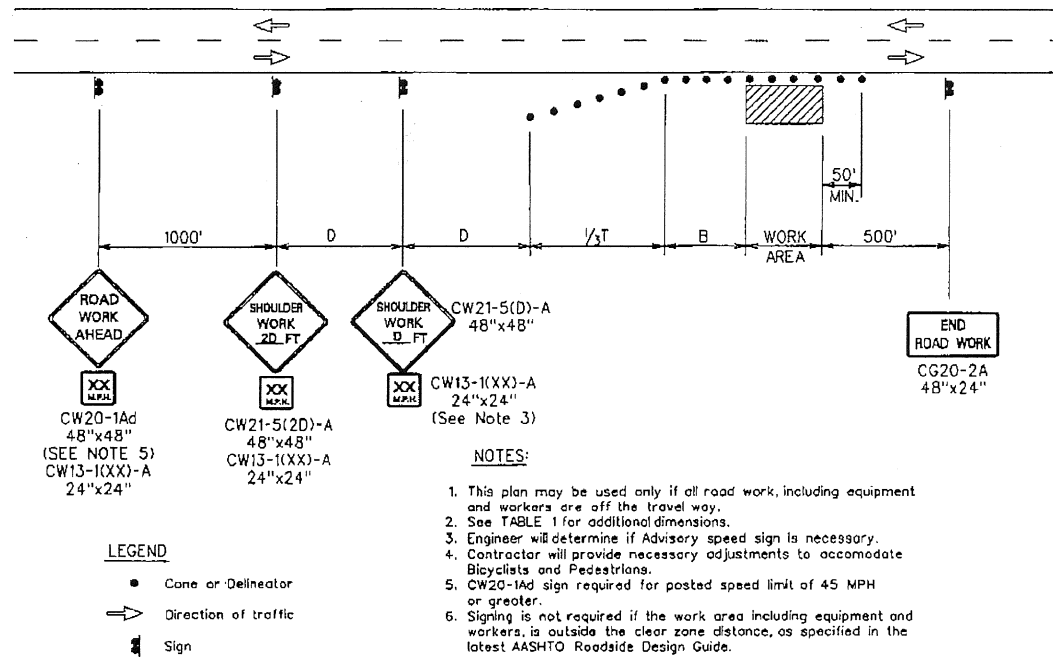
FIGURE 6 - TRAFFIC CONTROL PLAN

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END OF SECTION 645

56D-01-13M
645-18a

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WORKING ON SHOULDER OR ROADSIDE
FIGURE 7 - TRAFFIC CONTROL PLAN

R10/96

**PROPOSAL TO THE
STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION**

PROJECT: KUHIO HIGHWAY INVASIVE
SPECIES MANAGEMENT
Kalihiwai Road to Kahili Holo Road
Project No. 56D-01-13M
District of Hanalei
Island of Kauai

PROJECT NO.: 56D-01-13M

COMPLETION TIME: 360 Calendar days from the date indicated in the Notice to Proceed from the Department will begin with Phase I. After satisfactory completion of Phase I, the Engineer will approve of the beginning of Phase II. After satisfactory completion of Phase II, the Engineer will approve of the beginning of Phase III.

NOTE: Completion of time does not include three (3) years of maintenance involving removal & herbiciding of invasive tree saplings.

DESIGN PROJECT MANAGER:

NAME: Chris Dacus
ADDRESS: 601 Kamokila Boulevard, Room 609
Kapolei, Hawaii 96707
PHONE NO.: (808) 692-8363
EMAIL: Christopher.A.Dacus@hawaii.gov
FAX NO.: (808) 692-7590

May 21, 2011 PRE-BID MEETING MINUTES

Subject: Kuhio Highway Invasive Species Management from Kahiliholo Road to Kalihiwai Road on the Island of Kauai
PROJECT NO. 56M-01-13M

Date, Time & Place: May 21, 2013; 9:00 A.M.; Project Site

Attendees: See attached lists of attendees

A. The meeting was called to order by Chris Dacus (DOT Project Engineer) at about 9:05 a.m. and provided a brief overview of the project to the prospective bidders.

B. Questions

1. **Question:** Could you explain the project's lane closure?

Response: There will be no lane closures until after January 6, 2014. Working hours are 7:00 a.m. to 3:30 p.m. Lane closures are allowed 8:30 a.m. to 3:00 p.m. Closure of only lane of traffic will be allowed during lane-closure hours. There is a \$2,500 penalty for every one-to fifteen-minute increment for each roadway lane closed to the public use. Contraflow of the open lane is allowed.

2. **Question:** Will the contractor be required to close the lane for the act of tree felling?

Response: The contractor will be required to close the traffic lane for trees that pose a risk to a person, property or the road.

3. **Question:** Can the contractor use a different herbicide protocol?

Response: Contract calls for a systemic herbicide labeled for Albizia use. Contractor may submit an equal herbicide alternative but may require a NPDES permit which is the contractor's responsibility. DOT is revising the specifications to the labeled use of Pathfinder II

4. **Question:** Is the contractor responsible for the removal of existing felled trees and logs within the project site?

Response: If the felled trees or logs pose no risk as determined by the Project Arborist and approved by the Engineer then they may remain in place.

5. **Question:** Is it possible to remove the rockfall barrier for access?

Response: Due to the fact that only 20 linear feet of the rockfall barrier is within the working areas of the project site, it was determined at the prebid meeting that it was unnecessary and labor intensive.

6. Question: Will the State accept larger mulch size than the ¼ inch specified?

Response: Yes the State will accept up to 6-inch mulch.

7. Question: Will the contractor be required to replace planted trees that die after planting?

Response: Plants accepted by the Project Arborist during delivery shall not be replaced unless the contractor improperly installed or neglected the plants as determined by the Project Arborist and approved by the Engineer.

8. Question: Will the contractor be required to perform tree work at night?

Response: DOT will be revising the special provisions to allow the contractor to perform night work that is deemed safe by the contractor.

9. Question: Will the contractor be allowed to chip trees on site and spread mulch chips to remain on site?

Response: The contractor will be allowed to chip trees on site and spread to a maximum depth of four inches on slopes less than 2:1 slope (2 feet horizontal for every 1 foot vertical slope) or as determined by the Engineer.

10. Question: Is the contractor responsible for areas denuded during tree removals?

Response: Yes, the contractor is responsible for mitigating all denuded areas by installing jute mesh erosion control fabric installed per the manufacturer's recommendations. In addition, the Project Arborist will direct the placement of Clerodendrum inerme (Indonesian Privet) to be planted at denuded areas for further slope stabilization.

- C. HWY-DL mentioned that the State DOT would be issuing an addendum.
- D. Meeting was adjourned at about 11:00 A.M.

HIGHWAYS DIVISION
PRE-BID MEETING ATTENDANCE

SUBJECT: Kuhio Highway Invasive Species Management from Kahiliholo Road to Kalihiwai Road on the Island of Kauai

PROJ. NO.: 56D-01-13M

DATE, TIME & PLACE: May 21, 2013 9:00 A.M.; Project Site

NAME	Organization	TELEPHONE
DAN RAMPANI	Asplundh	808-864-6777
CRAIG DUFF	KAUAI NURSERY	808-245-7747
DAN INGERSOL	"	"
LELAN NISHEK	"	"
JOHN HATCHERSON	Asplundh	645-6896
Elliott Fries	Asplundh	808 960 2663
Chris Deas	DOT	
Taj APERS	INLIA	917-414-9927
L		
S. SHIBUYA	BOW CM	246-8880
R RUBIO	Bow Cm	246-8880
EDDIE CASTILLO	Bow Cm	246-8880
Willy Orbi	Kauai District DOT	