Amend Section 645 - Traffic Control Devices 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.

Preformed Pavement Marking Tape

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

Submit 10 sets of FHWA approval letters certifying compliance with MASH 2016 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 MASH 2016 compliant letter from vendor for each type of Category 1 traffic control device, as defined in

755.04

MASH 2016, 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 (2) 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, whichever is greater.

Furnish, deploy, maintain, and remove two (2) portable changeable message signs (i.e., electronic message boards) for both approaches to each project work area, at locations accepted by the Engineer, seven (7) days prior to start of road work.

Area #1: Sand Island Access Road to Pacific Street

Area #2: Richards Street to Piikoi Street

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

TCP Development. Contractor shall develop site-specific Traffic Control Plan (TCP) and work schedule based on work hours and lane closure restrictions stipulated in the contract documents.

TCP shall be developed after Contractor conducted field investigation of traffic conditions, including but not limited to, traffic volume counts taken during anticipated work hours, detour routes, interchange ramp & city street traffic signal timing, and public gathering places such as schools, businesses and shopping malls within the project limits and surrounding areas.

Contractor may request multiple individual lane-closures within the project limits at the same time based on, including but not limited to, type of work to be performed, traffic volume, surrounding developments (e.g., schools, businesses) at each proposed work site.

| 95 96 97 98 | allow up to to | d on prevailing traffic conditions and other factors, the Engi wo (2) individual closures at one time, with distance between at least 1-mile apart. | • | | | | |
|----------------------|----------------|---|-------------|--|--|--|--|
| 99 | If exce | If excessive work zone traffic delays within project limits were observed during | | | | | |
| 100 | construction | n, the State reserves the rights to suspend TCP if Contractor failed to | | | | | |
| 101 | adjust his wo | rk and/or TCP to address traffic concerns brought forth by the State in a | | | | | |
| 102 | timely and re | esponsive manner. | | | | | |
| 103 | | | | | | | |
| 104 | If TCF | P affects City & County of Honolulu streets, such as but not | limited to, | | | | |
| 105 | traffic detour | rs onto City streets, or traffic control devices placed on City stre | ets, a City | | | | |
| 106 | & County of I | Honolulu, Department of Transportation services (DTS) Permit | for Street | | | | |
| 107 | Usage shall | be obtained prior to starting work. A TCP stamped by a regis | tered Civil | | | | |
| 108 | Engineer fro | om the State of Hawaii may be required to obtain the DTS I | Permit for | | | | |
| 109 | Street Usage | e. | | | | | |
| 110 | | | | | | | |
| 111 | | Submittal. Submit TCP and work schedule for review and ac | | | | | |
| 112 | • | e procedures established in Subsection 105.04. TCP and | | | | | |
| 113 | | cepted by the Engineer prior to starting work in each area. | Submit | | | | |
| 114 | | s and deviations from accepted TCP following the pr | ocedures | | | | |
| 115 | established i | in Subsection 105.04. Illegible TCP will not be accepted. | | | | | |
| 116 | | | | | | | |
| 117 | Includ | de the following in TCP and schedule: | | | | | |
| 118 | (4) | | | | | | |
| 119 | (1) | Signs (type, size, designation, and placement). | | | | | |
| 120 121 | (2) | Troffic movements shown by arrows | | | | | |
| 121 | (2) | Traffic movements shown by arrows. | | | | | |
| 123 | (3) | Positions of flaggers and police officers. | | | | | |
| 123 | (3) | Tositions of haggers and police officers. | | | | | |
| 125 | (4) | Barricades, cones, delineators, and additional traffic contro | ol devices | | | | |
| 126 | ` ' | measures necessary for protection of work and public sa | | | | | |
| 127 | | ment, spacing, distances, and reference points for traffic control | | | | | |
| 128 | μ.σ.σ. | | | | | | |
| 129 | (5) | Layout, drawn to scale, of traffic control devices, including in | formation | | | | |
| 130 | ` , | ed to layout TCP. | | | | | |
| 131 | | · | | | | | |
| 132 | (6) | Brief description of work. | | | | | |
| 133 | | · | | | | | |
| 134 | (7) | Dates of work. | | | | | |
| 135 | | | | | | | |
| 136 | (8) | Times of day affected. | | | | | |
| 137 | | | | | | | |
| 138 | (9) | Proposed public information sign. | | | | | |
| 139 | 44.63 | | | | | | |
| 140 | (10) | Proposed news release. | | | | | |
| 141 | (44) | For land clasures indicate the may length of readway to be | v ologod | | | | |
| 142 | (11) | For lane closures indicate the max. length of roadway to be | i ciosea. | | | | |
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| 143 144 | (12) For mobile operations such as rumble strip milling and striping, provide instruction details for warning sign and flagger deployment. |
|------------|--|
| 145 | |
| 146 | (13) Minimum lane width and offset distances to adjacent roadway elements |
| 147 | (e.g., bridge railing, guardrail, portable concrete barrier, etc.) |
| 148 | |
| 149 | (14) Eradicate conflicting pavement striping per Sec. 629.03(D) – Removal |
| 150 | of Existing Pavement Markings. Eradication of existing markings by painting |
| 151 | over them will not be allowed. |
| 152 | over them will not be allowed. |
| 153 | (15) If the work will affect a pedestrian or bike route, show an alternative |
| 154 | |
| | route and provide appropriate warning signs. |
| 155 | Diagonism on device eiterated fauthoot unaturage from word, sone first. Then |
| 156 | Place sign or device situated farthest upstream from work zone first. Then |
| 157 | place others progressively downstream toward work zone. |
| 158 | |
| 159 | Extend cones or delineators to point where cones or delineators are visible to |
| 160 | approaching traffic. |
| 161 | |
| 162 | For signs with messages on both faces, cover inapplicable message before |
| 163 | placement. |
| 164 | |
| 165 | Keep barricades, construction and warning signs, and other traffic control |
| 166 | devices in good condition. Repair, clean, or replace barricades, signs, or other |
| 167 | devices as required to maintain effectiveness and appearance. The Engineer alone |
| 168 | will decide suitable condition of each barricade, sign, or other traffic control device. |
| 169 | |
| 170 | Remove or cover regulatory and warning signs that conflict with TCP. Restore |
| 171 | signs upon completion of work or as ordered by the Engineer. Affix object markers to |
| 172 | post(s) of covered sign. |
| 173 | F = = (0) = 1 = 1 = 1 = 1 |
| 174 | Promptly remove or cover construction and warning signs that are not |
| 175 | applicable or not in use. |
| 176 | applicable of flot in add. |
| 177 | Promptly remove traffic control devices that are no longer needed. |
| 178 | 1 Tomptiy Temove traine control devices that are no longer needed. |
| 179 | Remove traffic control devices in reverse order of installation, starting closest |
| 180 | · |
| | to work zone and continuing away from work zone. |
| 181 | Maintain abutting augusting accept until nonlanguage accept accept accept a |
| 182 | Maintain abutting owners' existing access until replacement access is usable. |
| 183 | Obtain permission from abutting owners, including conditions for closing existing |
| 184 | access. Submit copy of agreement with abutting owners before beginning work in |
| 185 | the affected area. |
| 186 | |
| 187 | When working on existing facility that will be kept open to traffic, provide |
| 188 | smooth and even surface for public traffic use. Only work on a portion of roadway at |
| 189 | one time, and stage construction from one side to other while routing traffic over |
| 190 | opposite side. |
| | |

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|------------------------|---|--|--|--|--|--|--|
| 238 | | on barricades selected by the Engineer. Attach lamps on barricade | | | | | |
| 237 | | During hours of darkness, install steady burn or flashing lamps | | | | | |
| 236 | | During hours of darkness, install stoody burn or floobing lamps | | | | | |
| | | Suipeu particaue faii. | | | | | |
| 23 4 235 | | striped barricade rail. | | | | | |
| 233 234 | | accepted by the Engineer prior to use. Do not place sand bags on | | | | | |
| 233 | | bags and installation method shall comply with <i>MUTCD</i> and be | | | | | |
| 232 | | Provide sand bags if required or ordered by the Engineer. Sand | | | | | |
| 231 | | | | | | | |
| 230 | | installation shall be in accordance with accepted TCP. | | | | | |
| 229 | | Barricades shall be in good condition. Barricade application and | | | | | |
| 228 | | | | | | | |
| 227 | | suitable for protection of work and safety of the public. | | | | | |
| 226 | | (1) General. Provide, erect, and maintain necessary barricades | | | | | |
| 225 | ` ' | | | | | | |
| 224 | (C) | Barricades | | | | | |
| 223 | | | | | | | |
| 222 | Conti | ractor. | | | | | |
| 221 | | The construction signs shall be new and become the property of the | | | | | |
| 220 | | | | | | | |
| 219 | called | d for herein. | | | | | |
| 218 | these | e signs. Place these signs besides the required traffic control signs | | | | | |
| 217 | Thes | e signs shall remain for the duration of the highway project. Maintain | | | | | |
| 216 | | ct and at the end of project at the location indicated by the Engineer. | | | | | |
| 215 | (B) | Construction Signs. Erect construction signs at the beginning of | | | | | |
| 214 | | | | | | | |
| 213 | | Place signs in accordance with TCP as accepted by the Engineer. | | | | | |
| 212 | | | | | | | |
| 211 | work | crosses or coincides with existing road. | | | | | |
| 210 | • | nterfere with use of road by traffic and at intermediate points where new | | | | | |
| 209 | (A) | Signs. Install signs sufficiently ahead of location where operations | | | | | |
| 208 | | | | | | | |
| 207 | Health in wr | iting at least five days before start of construction. | | | | | |
| 206 | • | , Fire Department, Emergency Medical Services, and Department of | | | | | |
| 205 | | the Engineer and County, including Bus Systems Division, Police | | | | | |
| 204 | · | - | | | | | |
| 203 | | e ordinances, rules, and regulations. | | | | | |
| 202 | | other obstructions within five feet of fire hydrant or closer than permitted | | | | | |
| 201 | | s. Keep fire hydrants accessible to Fire Department by not placing | | | | | |
| 200 | Notify | Fire Department, in writing, at least 24 hours before blocking or closing | | | | | |
| .99 | | | | | | | |
| .98 | Handling of | Materials and Equipment. | | | | | |
| .97 | work. For storage of materials and equipment, see Subsection 105.14 – Storage and | | | | | | |
| 96 | free and safe passage of public traffic during non-working hours or suspension of | | | | | | |
| 95 | Remove equipment and other obstructions out of right-of-way or clear zone to permit | | | | | | |
| 94 | | ot store material or equipment where it will interfere with public traffic. | | | | | |
| 193 | _ | | | | | | |
| 92 | public traffic | | | | | | |
| .91 | | ig subgrade and paving operations, paved shoulders may be used for | | | | | |

| 239 | ends closest | to traveled wa | ay and visible to | oncoming traf | ffic. | | |
|------------|------------------|---|--------------------------|-----------------------|----------------|--|--|
| 240 | | | , | 9 | | | |
| 241 | Do no | Do not install signs on barricades unless signs and barricades | | | | | |
| 242 | | have been crash tested as a unit and accepted under MASH 2016. | | | | | |
| 243 | | mate been craen tected as a arm and accepted ander in terrizore. | | | | | |
| 244 | (2) Retro | reflectorizatio | n Retrorefled | rtorize harrica | de rails and | | |
| 245 | ` ' | (2) Retroreflectorization. Retroreflectorize barricade rails and attachment with retroreflective sheeting in accordance with Subsection | | | | | |
| 246 | | 750.01(C)(4) - Type III or IV Retroreflective Sheeting (High Intensity) or | | | | | |
| 247 | | | lardened Alumir | | | | |
| 248 | Sheeting. | 30.01(0)(3) -1 | iarderied Aldiriii | Idili-Dacked N | Stroreneotive | | |
| 249 | Sileeting. | | | | | | |
| 250 | Potro | rofloctorizo bo | th vertical faces | of each barric | rado rail | | |
| 250 251 | Kelio | renecionze bo | iii veriicai iaces | or each barric | aue raii. | | |
| | (2) Color | . Provide wh | ita colorad raila | frames and | braces with | | |
| 252 | ` , | | ite colored rails | | | | |
| 253 | | | ving 6-inch-wid | | | | |
| 254 | | | ownward toward | , | - | | |
| 255 | | n vertical. O | se stripe color | s in accordan | ice with the | | |
| 256 | following: | | | | | | |
| 257 | (0) | | م م مانسلم مانامانسالم م | for the of ollowing | | | |
| 258 | (a) | Use orange a | nd white stripes | for the followin | g conditions: | | |
| 259 | | 4 0 = == + | | | | | |
| 260 | | 1. Constr | ruction work. | | | | |
| 261 | | O Data | | | | | |
| 262 | | 2. Detoui | rs. | | | | |
| 263 | | | | | | | |
| 264 | | 3. Mainte | enance work. | | | | |
| 265 | 4.3 | | 1.16 | . (1 . (. 11 | P.C | | |
| 266 | (b) | Use red and | white stripes for | the following | conditions: | | |
| 267 | | 4 | 1 24 | | | | |
| 268 | | | adways with no | outlet, such as | s dead-ends | | |
| 269 | | and cul-de-sa | acs. | | | | |
| 270 | | • 5 | | | | | |
| 271 | | 2. Ramps | s or lanes close | d for operation | al purposes. | | |
| 272 | | • 5 | | | | | |
| 273 | | | inent or sem | ii-permanent | closure or | | |
| 274 | | termination of | f roadway. | | | | |
| 275 | | | | | | | |
| 276 | | | p barricades ir | | | | |
| 277 | | | barricades to n | | | | |
| 278 | | - | replace missin | | barricades, | | |
| 279 | lamps, sand | bags, and othe | er accepted weig | ghts. | | | |
| 280 | | | | | | | |
| 281 | Clear | and repair bar | ricades before r | elocating to oth | ner locations. | | |
| 282 | | | | | | | |
| 283 | (D) Traffic Deli | neators. Inst | all traffic deline | eators in acco | rdance with | | |
| 284 | accepted TCP. | | | | | | |
| 285 | | | | | | | |
| 286 | Maintain tra | ffic delineators | in good condi | tion. Immedi <i>a</i> | itely replace | | |
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| 287 | missir | missing or damaged traffic delineators. | | | | | |
|---------------------------------|--|---|---|---|--|--|--|
| 288 289 | | Clean delineator prior to relocating to new location. | | | | | |
| 290 291 | (E) | Cones. Install traffic cones in accordance with accepted TCP. | | | | | |
| 292 293 294 | Immo | | Keep traffic cones cle en, or damaged traffic c | • | | | |
| 295 | 11111116 | diately replace lost, stor | en, or damaged traine c | ones. | | | |
| 296 297 | | Clean cones prior to re | elocating to new location |). | | | |
| 298 299 | (F) following | Lane Closures. Laring hours: | ne closures will be all | owed only during the | | | |
| 300 301 302 303 304 | | not requiring lane cle | iring lane closure. Cosures during the day between the hours of 8 | /-time working hours. | | | |
| 305 306 | | (2) Day-time lane | closure hours: | | | | |
| 307 308 | Nimitz Hwy / Ala Moana Blvd. (Sand Island A/R to Piikoi St.) | | | | | | |
| 309 310 | | No day-time lane closure will be allowed | | | | | |
| 311 312 | | (3) Night-time lane closure hours: | | | | | |
| 313 314 315 | | Nimitz Hwy / Ala Moa | na Blvd. (Sand Isl. to | Waiakamilo Rd.) | | | |
| 313 | | 1-lane closure | Inbound | Outbound * | | | |
| | | Sunday | 7:00 P.M Midnight | 7:00 P.M Midnight | | | |
| | | Monday to Thursday | Midnight – 5:30 A.M. | Midnight – 5:30 A.M. | | | |
| | | | 7:00 P.M Midnight | 7:00 P.M Midnight | | | |
| | | Friday | Midnight – 5:30 A.M. | Midnight – 5:30 A.M. | | | |
| 316 | | 2-lane closure | Inbound | Outbound * | | | |
| | | | | | | | |
| | | Sunday Monday to Thursday | 7:00 P.M Midnight Midnight – 4:30 A.M. | 7:00 P.M Midnight Midnight – 2:00 A.M. | | | |
| | | Thursday | 7:00 P.M Midnight | 7:00 P.M Midnight | | | |
| | | | Midnight 4:20 A M | Midnight 2:00 A M | | | |

Friday Midnight – 4:30 A.M. Midnight – 2:00 A.M.

Nimitz Hwy OB contraflow lane coning starts at 2:30 A.M.

Nimitz Hwy OB contraflow lane terminates east of Alakawa St.

318 319

Nimitz Hwy / Ala Moana Blvd. (Waiakamilo Rd. to South St.)

| 1-lane closure | Inbound | Outbound * |
|-----------------------|----------------------|----------------------|
| Sunday | 7:00 P.M Midnight | 7:00 P.M Midnight |
| Monday to Thursday | Midnight – 5:00 A.M. | Midnight – 5:00 A.M. |
| | 7:00 P.M Midnight | 7:00 P.M Midnight |
| Friday | Midnight – 5:00 A.M. | Midnight – 5:00 A.M. |

| 2-lane closure | Inbound | Outbound * |
|-----------------------|----------------------|----------------------|
| Sunday | 8:00 P.M Midnight | 8:00 P.M Midnight |
| Monday to Thursday | Midnight – 4:30 A.M. | Midnight – 4:30 A.M. |
| | 8:00 P.M Midnight | 8:00 P.M Midnight |
| Friday | Midnight – 4:30 A.M. | Midnight – 4:30 A.M. |

^{*} Nimitz Hwy OB contraflow lane coning starts at 2:30 A.M. Nimitz Hwy OB contraflow lane terminates east of Alakawa St.

Ala Moana Blvd. (South St. to Piikoi St.)

| 1-lane closure | Both Directions |
|--------------------|----------------------|
| Sunday | 7:00 P.M Midnight |
| Monday to Thursday | Midnight – 5:30 A.M. |
| | 7:00 P.M Midnight |
| Friday | Midnight – 5:30 A.M. |

| 2-lane closure | Both Directions |
|--------------------|----------------------|
| Sunday | 7:00 P.M Midnight |
| Monday to Thursday | Midnight – 5:30 A.M. |
| | 7:00 P.M Midnight |
| Friday | Midnight – 5:30 A.M. |

See project plans for additional information on scope of work and coordination during construction.

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.

See Section 107.03 - Working Hours; Night Work of the project Special Provisions for description of Noise Variance hours, noise control conditions and restrictions during weekend and night work.

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| 340 | | |
|------------|--------------|--|
| 341 | | island of Oahu, no lane closures will be allowed during 24-hour |
| 342 | periods as | follows: |
| 343 | | |
| 344 | (1) | Day preceding holiday (3:00 p.m. to Midnight), except as |
| 345 | othe | rwise specified. |
| 346 | | |
| 347 | (2) | Holidays (Midnight to Midnight). |
| 348 | | |
| 349 | (3) | Thanksgiving weekend (Thursday to Sunday). |
| 350 | | |
| 351 | (4) | Three-week holiday period for Christmas and New Year. |
| 352 | | |
| 353 | (5) | One-week "Beat-the-School-Jam" period, to be determined, |
| 354 | • | nning approximately third week of August (first week of University |
| 355 | of Ha | awaii Manoa Session). |
| 356 | 40) | |
| 357 | (6) | Other dates of events indicated in the contract documents. |
| 358 | | |
| 359 | | ime extension will be given for the above restrictions. The |
| 360 | | ne for the project has accounted for any loss of time due to the |
| 361 | above restr | rictions. |
| 362 | 01 | |
| 363 | | ure of only one lane of traffic will be allowed during lane-closure |
| 364 | | p lanes open to traffic and allow flow at normal posted speed limit |
| 365 | during non- | lane-closure hours. |
| 366 | 16 | are all language Parks I are allowed as 20 at Parks (1992) at 1992 at 1992 |
| 367 | - | plicable, coordinate lane closures with adjacent project(s) at no |
| 368 | increase in | contract price or contract time. |
| 369 | . | |
| 370 | | tal fees will be assessed in accordance with Subsection 108.10 – |
| 371 | | s for Unauthorized Lane Closure or Occupancy, for failure to open |
| 372 | | ffic during peak hours. Morning and afternoon peak hours shall be |
| 373 | | .m. to 8:30 a.m. and 3:00 p.m. to 6:00 p.m., respectively, Monday |
| 374 | through Frid | day. |
| 375 | Defe | |
| 376 | | re scheduling work, submit requests for detours and lane closures |
| 377 | as follows: | |
| 378 | (4) | Determs Corrected by force impuls an entire and determs |
| 379 | (1) | Detours - 8 weeks before implementing detours. |
| 380 | (0) | Long algoritos. Guinoles hafara implantantina lana alactina |
| 381 | (2) | Lane closures - 6 weeks before implementing lane closures. |
| 382 | . اج ما | ide the following with detaur and lane clearing requires: |
| 383 | inciu | ide the following with detour and lane closure requests: |
| 384 | (4) | Evaluation of proposed changes to evicting traffic nettern |
| 385 | (1) | Explanation of proposed changes to existing traffic pattern. |
| 386 387 | (2) | Installation schedule for informational and traffic control signs |
| 201 | (2) | Installation schedule for informational and traffic control signs. |
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- (3) Publication schedule for legal notices.
- (4) Plan showing proposed informational signs.
- (5) Plan showing lane changes or detours in accordance with accepted TCP, including details at beginning of multi-lane highway lane changes and detours.

Detours or lane closures will not be allowed before the Engineer accepts detour or lane closure request.

| TABLE 645-I - FOR TRAFFIC CONTROL PLAN | | | | | | | |
|--|-----------------|----------------------------|------------------------------|-----------------------------|--|-------------|--------------|
| POSTED SPEED | SIGN SPACING | TAPER LENGTH (T) (FEET) | | LONGI- TUDINAL BUFFER | SPACING OF CONES OR DELINEATORS (FEET) | | |
| LIMIT (M.P.H.) | (D) (FEET) | W = 12' OR * LESS | W = GREATER THAN 12' * | SPACE (B) (FEET) | 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 | | | | | | | |

(G) Advisory Signs. Submit advisory sign shop drawings. Construct, install, maintain, and remove four (4) advisory signs (e.g., 2 for each work area) as ordered by the Engineer.

Area #1: Sand Island Access Road to Pacific Street

Area #2: Richards Street to Piikoi Street

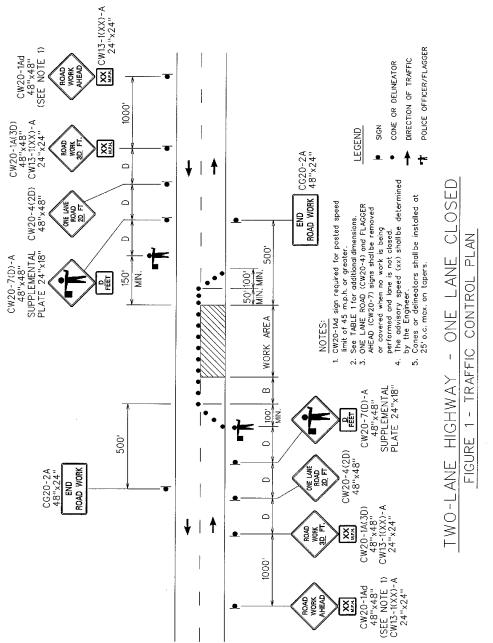
Place signs at locations designated by the Engineer. Provide signs, minimum 8 feet wide by 4 feet high, with black letters on orange background, and with three 4.00 pounds/foot flanged channel posts for each sign.

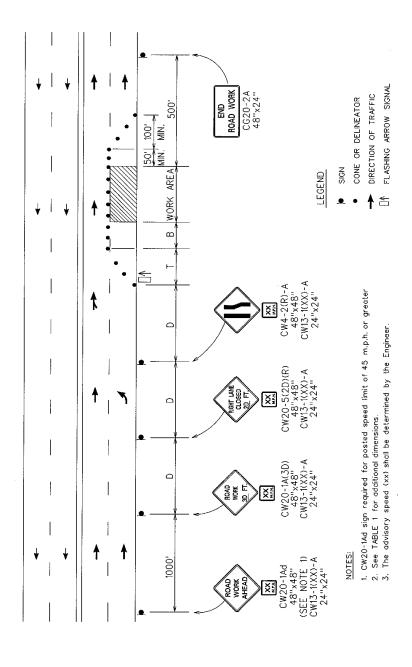
 Include starting date and hours of construction in sign message. Use letter heights of 8 inches, Series D. The Engineer will review and accept advisory signs' wording before fabrication. Install advisory signs two weeks before start of construction. Remove advisory signs immediately after construction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

(H) Advertisement. Place advertisement in newspaper, as ordered by

| 419 | Engineer, for | r the following traffic pattern changes or hight work: | | | | |
|------------|---------------|--|--|--|--|--|
| 420 421 | (1) | Detours. | | | | |
| 422 | (-/ | | | | | |
| 423 | (2) | Lane closure. | | | | |
| 424 | (2) | D a | are out record also are | | | |
| 425 426 | (3) | Perma | Permanent road closure. | | | |
| 427 | (4) | Perma | anent new route that changes previous route. | | | |
| 428 | | | | | | |
| 429 | Includ | e the f | ollowing information: | | | |
| 430 431 | (1) | Man c | of traffic pattern change limits. | | | |
| 432 | (., | wap c | r tramo pattorn onango innito. | | | |
| 433 | (2) | Map s | showing lane(s) closure and detour pattern. | | | |
| 434 435 | (2) | Notice | of starting and anding dates and duration | | | |
| 435 436 | (3) | NOTICE | e of starting and ending dates and duration. | | | |
| 437 | (4) | Expla | nation of lane(s) closure or detours in "Notice To Motorist". | | | |
| 438 | () | • | · , | | | |
| 439 | Qualit | y of ma | ap shall conform to the following requirements: | | | |
| 440 | (4) | No fro | school printing or populling | | | |
| 441 442 | (1) | NO IIE | ehand printing or penciling. | | | |
| 443 | (2) | Hiahli | ght important features by darkening, cross-hatching, | | | |
| 444 | ` ' | _ | , or coloring important words, as necessary. | | | |
| 445 | (0) | . | | | | |
| 446 447 | (3) | | de maps with minimum size of five columns wide and four p. Lesser width columns may be considered to balance | | | |
| 447 448 | | | of drawing. | | | |
| 449 | agann | 0120 | or drawing. | | | |
| 450 | (4) | Text s | specifications. | | | |
| 451 | | | | | | |
| 452 452 | | (a) | Work being featured - 3/16-inch text. | | | |
| 453 454 | | (b) | Major roads and features - 1/8-inch text. | | | |
| 455 | | (6) | Major roads and reatures 170 men text. | | | |
| 456 | | (c) | Other roads and features- first letter of sentence upper | | | |
| 457 | | case. | | | | |
| 458 | | / IN | "NOTICE TO MOTORIOT": | | | |
| 459 460 | | (d) | "NOTICE TO MOTORIST" in upper case. | | | |
| 460 461 | | (e) | Message - first letter of sentence upper case. | | | |
| 462 | | (0) | modadge mat letter of defiterioe apper case. | | | |
| 463 | (5) | Line T | hickness. | | | |
| 464 | | | | | | |
| 465 | | (a) | Important feature being advertised - line thicker than rest | | | |
| 466 | | of ma | p. | | | |

Pay Item **Pay Unit** Traffic Control Lump Sum Additional Police Officers, Additional Traffic Control Devices, Force Account And Advertisement An estimated amount for the force account may be allocated in the proposal schedule under "Additional Police Officers And Additional Traffic Control Devices", 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.





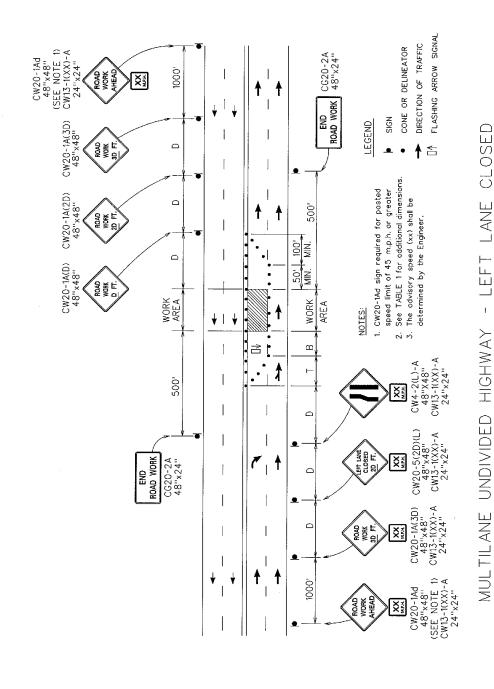
MULTILANE UNDIVIDED HIGHWAY - RIGHT LANE CLOSED FIGURE 2 - TRAFFIC CONTROL PLAN

PLAN

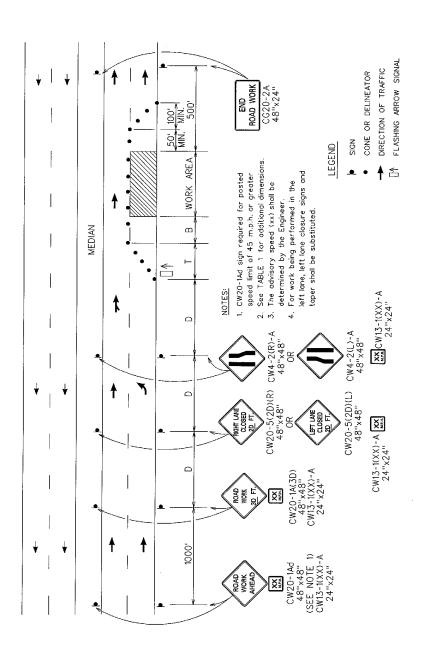
CONTROL

TRAFFIC

FIGURE

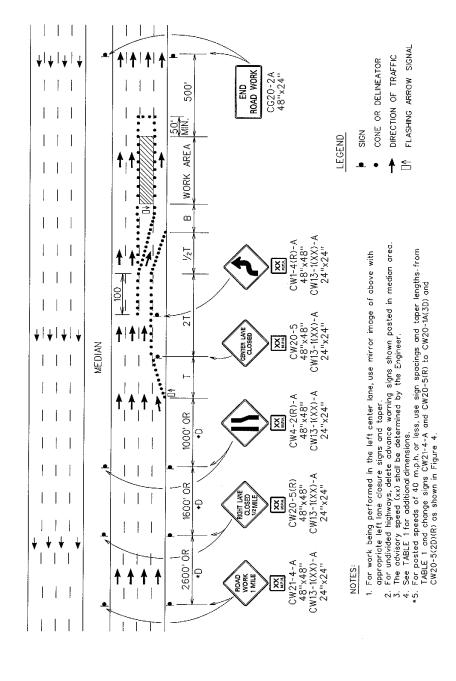


552 553 554 555 556



MULTILANE DIVIDED HIGHWAY - ONE LANE CLOSED

FIGURE 4 - TRAFFIC CONTROL PLAN

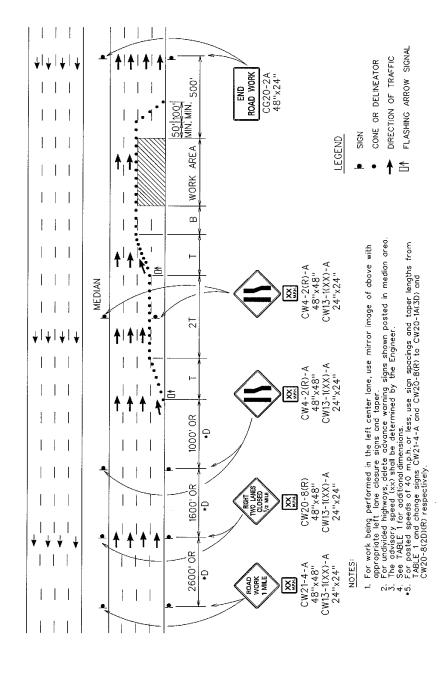


- TRAFFIC CONTROL PLAN LANE CENTER HIGHWAY MUL TIL ANE

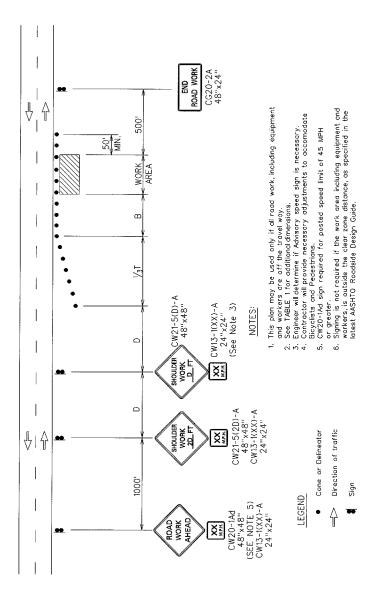
S

FIGURE

CLOSED



MULTILANE HIGHWAY - MULTIPLE LANE CLOSED FIGURE 6 - TRAFFIC CONTROL PLAN



WORKING ON SHOULDER OR ROADSIDE FIGURE 7 - TRAFFIC CONTROL PLAN

END OF SECTION 645