

GENERAL CONSTRUCTION NOTES:

1. The Project includes site grading and drainage improvements along a portion of Hana Highway. Work involves pavement, shoulder and ac swale reconstruction, and installation of pavement striping.
2. The Contractor's attention is directed to the following Sections of the Special Provisions: Subsection 104.11 - Utilities and Services, Section 107 - Legal Relations and Responsibility to Public, and Section 645 - Work Zone Traffic Control.
3. The Contractor shall notify the State in writing, two (2) weeks prior to starting paving operations.
4. 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.
5. The existence and location of underground utilities, manholes, monuments and structures as shown on the plans are from the latest available data but the accuracy is not guaranteed. The encountering of other obstacles during the course of the work is possible. The Contractor shall be held liable for any damages incurred to the existing facilities and/or improvements as a result of his operations.
6. The exact locations and limits or areas to be reconstructed and cold planed shall be determined in the field by the Engineer.
7. Preformed Pavement Marking Tape shall be removed prior to resurfacing. Removal shall be by scraping, grinding or other method approved by the Engineer. Payment shall be incidental to Item No. 401.0100 - Hot Mix Asphalt Pavement, Mix No. IV.
8. The Contractor shall remove and dispose of all existing raised pavement markers prior to the overlaying of Asphalt Concrete. This work shall be considered incidental to Item No. 401.0100 - Hot Mix Asphalt Pavement, Mix No. IV.
9. Smooth riding connections shall be constructed at all limits of resurfacing including the beginning and end of project as shown on the plans and/or as directed by the Engineer.
10. Existing drainage system will be functional at all times during construction. Contractor is to furnish materials, equipment, labor, tools and incidentals necessary to maintain flow. This work shall be considered incidental to the various contract items.
11. All saw cutting work shall be considered incidental to Item No. 401.0100 - Hot Mix Asphalt Pavement, Mix No. IV, and will not be paid for separately.
12. Initial preparation of shoulder areas shall be done by the Contractor. Shoulder preparation shall consist of clearing, grubbing, grading, reshaping and compacting the unpaved shoulders with suitable excavated material from roadway reconstruction and cold planing, as shown on the plans and/or as directed by the Engineer. Contractor shall also be responsible for finish rolling and maintaining the shoulders until project

- completion. This work shall be considered incidental to Item No. 401.0100 - Hot Mix Asphalt Pavement, Mix No. IV.
13. Unprotected pavement drop offs greater than 2" shall not be allowed during non-working hours, except where approved by the Engineer in writing.
14. Public Notice is required for lane closures. Contractor shall submit notice to the Engineer for approval a minimum of three weeks prior to publication. Pre-approval of notice, with dates left blank, is permissible.
15. Contractor shall maintain at least one paved shoulder free and clear of debris for pedestrian and bicycle traffic at the end of each work day.
16. Lane closures or detours that slow down traffic shall not occur during peak hours (6:30 am to 8:30 am and 3:30 pm to 6:00 pm). If the Contractor elects to perform work at night, and is approved by the Engineer, a noise variance permit shall be obtained at his cost with no additional time.
17. When trench excavation is adjacent to or under existing structures or facilities, the Contractor shall be responsible for properly sheeting and bracing the excavation and stabilizing the existing ground to render it safe and secure from possible slides, cave-ins and settlement and for properly supporting existing structures and facilities with beams, struts or underpinning to fully protect them from damage.
18. All excavation work called for on the plans and not itemized in the proposal and all excavation work not called for but required for the construction of this project shall be considered incidental to roadway excavation.
19. Verify and check all dimensions and details shown on the drawings prior to the start of construction. Any discrepancy shall be immediately brought to the attention of the Engineer for direction.
20. No Contractor shall perform any construction activity so as to cause falling rock, soil or debris in any form to fall, slide or flow onto adjoining properties, streets or natural water courses. Should such violations occur, the costs incurred for any remedial action shall be payable by the Contractor.
21. The Contractor shall be responsible for conformance with the applicable provisions of Chapter 54, water quality standards, and Chapter 55, water pollution control, of Title 11, Administrative rules of the State Department of Health.
22. The Contractor shall notify all agencies to verify the actual locations of all utilities in the project area prior to excavating. The Contractor shall coordinate all work.
23. The Contractor shall restore to their original condition or better, all improvements damaged as a result of the construction, including pavements, embankments, curbs, signs, landscaping, structures, utilities, walls, fences, etc. unless provided for

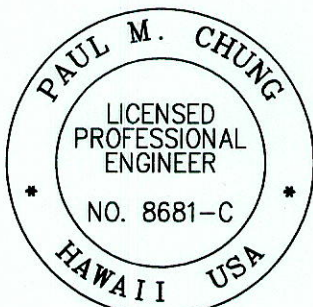
specifically in the proposal. Demolition and restoration of existing items shall be incidental and included within the amount paid for roadway excavation.

24. Temporary cold mix trench patches will be permitted in any given area for a maximum duration of two weeks, and shall be a minimum of 2 inches thick. All temporary patches shall be placed over properly placed and compacted backfill and base course layers. Contractor shall be responsible for maintaining all temporary patches and to make repairs to unsatisfactory patches within 24 hours.
25. The Contractor shall exercise extreme caution to preserve centerline and reference survey monuments. Monuments that are disturbed shall be restored under the licensed land surveyor's direction. Any new data such as elevations shall be certified by the surveyor, and submitted to the Engineer.
26. All work called for on the plans and not itemized in the proposal and all work not called for but required for the construction of this project, shall be considered incidental.

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	360A-02-10	2012	2	14

SURVEY PLOTTED BY	DATE
DRAWN BY	
TRACED BY	
DESIGNED BY	
QUANTITIES BY	
CHECKED BY	
ORIGINAL PLAN	
NOTE BOOK	
No.	

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SIGNATURE

EXPIRATION DATE OF THE LICENSE

STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION	
<b>GENERAL CONSTRUCTION NOTES</b>	
<b>HANA HIGHWAY DRAINAGE IMPROVEMENTS</b>	
Vicinity of Hoolawa Bridge	
Project No. 360A-02-10	
Scale:	Date: May 10, 2012
SHEET No. 1 OF 2 SHEETS	



FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEET
HAWAII	HAW.	360A-02-10	2012	3	14

GENERAL NOTES FOR TRAFFIC CONTROL PLAN:

1. *The permittee shall make minor adjustments at intersections, driveways, bridges, structures, etc., to fit field conditions.*
2. *Flaggers, Cones or delineators shall be extended to a point where they are visible to approaching traffic.*
3. *Traffic control devices shall be installed such that the sign or device farthest from the work area shall be placed first. The others shall then be placed progressively toward the work area.*
4. *Regulatory and warning signs within the construction zone that are in conflict with the traffic control plans shall be removed or covered. All signs shall be restored upon completion of work.*
5. *Flaggers and/or police officers shall be in sight of each other or in direct communication at all times.*
6. *When required by the issuing office, the permittee shall install a variable message board as shown in the traffic control plans.*
7. *Sign spacings (D), taper lengths (T), and spacings of cones or delineators shall be as shown in Table 1, unless otherwise noted on the traffic control plans.*
8. *All traffic lanes shall be a minimum of 10 feet wide.*
9. *All construction warning signs shall be promptly removed or covered whenever the message is not applicable or not in use.*
10. *The backs of all signs used for traffic control shall be appropriately covered to preclude the display of inapplicable sign messages (i.e., when signs have messages on both faces).*
11. *At the end of each day's work or as soon as the work is completed, the permittee shall remove all traffic control devices no longer needed to permit free and safe passage of public traffic. Removal shall be in the reverse order of installation.*
12. *Permanent pavement markings and traffic signs shall be replaced upon the completion of each phase of work.*
13. *All work zone traffic control devices shall comply with the "Manual on Uniform Traffic Control Devices," 2003.*

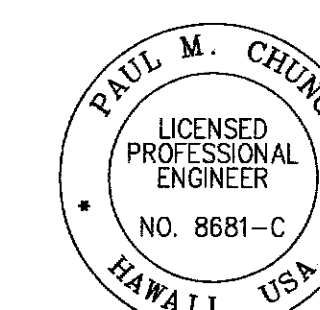
TABLE 1 FOR TRAFFIC CONTROL PLAN

Posted Speed Limit (M.P.H.)	Sign Spacing (D) (Feet)	Taper Length (T) (Feet)		Longitudinal Buffer Space (B) (Feet)	Spacing of Cones or Delineators (Feet)		
		W = 12' or Less ①	W = Greater Than 12' ①		Taper	Tangent	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

① Notes:  $W$  = Width of Lane, Shoulder, or Offset

ORIGINAL PLAN	SURVEY PLOTTED BY _____	DATE _____
NOTE BOOK	DRAWN BY _____	_____
	TRACED BY _____	_____
	DESIGNED BY _____	_____
	QUANTITIES BY _____	_____
No. _____	CHECKED BY _____	_____

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SIGNATURE

04/30/12  
EXPIRATION DATE  
OF THE LICENSE

STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
HIGHWAYS DIVISION

### GENERAL CONSTRUCTION NOTES

HANA HIGHWAY DRAINAGE IMPROVEMENTS  
Vicinity of Hoolawa Bridge  
Project No. 360A-02-10

Scale: \_\_\_\_\_ Date: May 10, 2012

SHEET No. 2 OF 2 SHEETS