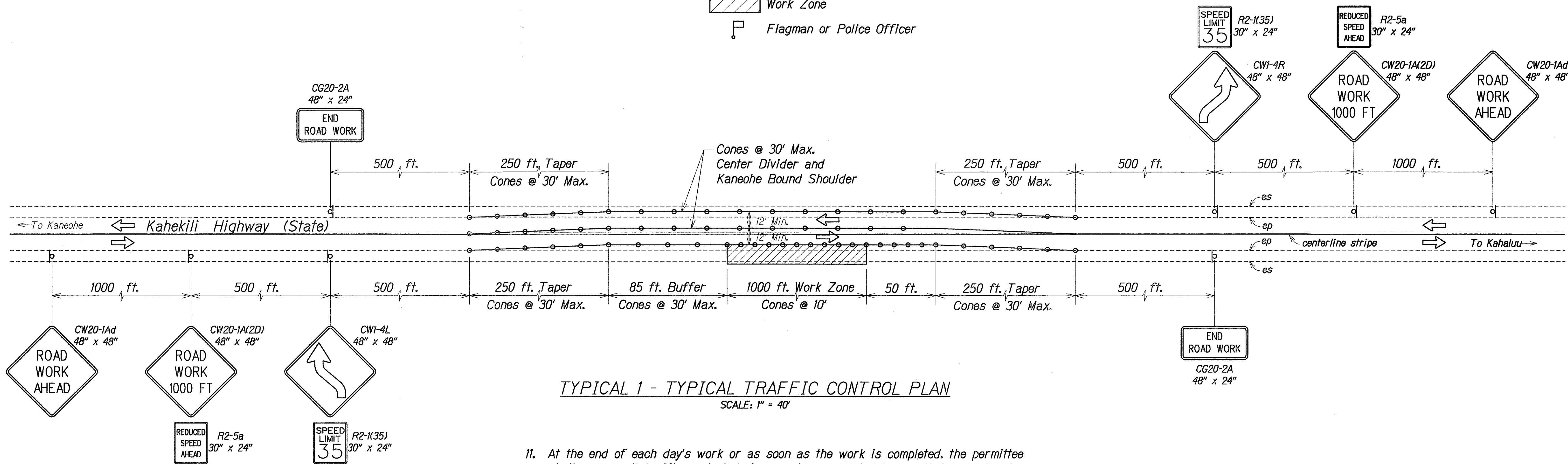


Legend:

- • • Traffic Cones
- ➡ Traffic Direction
- ▨ Work Zone
- 🚧 Flagman or Police Officer



TYPICAL 1 - TYPICAL TRAFFIC CONTROL PLAN
SCALE: 1" = 40'

General Notes for Traffic Control Plan

- The permittee shall make minor adjustments which are in conformance with the MUTCD at intersections, driveways, bridges, structures, etc., to fit field conditions.
- Cones or delineators shall be extended to a point where they are visible to approaching traffic.
- 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.
- 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 the work.
- Flaggers and/or police officers shall be in sight of each other or in direct communication at all times.
- When required by the issuing office, the permittee shall install a flashing arrow signal as shown on the Traffic Control Plans.
- Sign spacings (L), taper lengths (T) and spacings of cones or delineators shall be as shown in Table 1, unless otherwise noted on the Traffic Control Plans.
- All traffic lanes shall be a minimum of 10 feet wide, unless otherwise indicated.
- All construction warning signs shall be promptly removed or covered whenever the message is not applicable or not in use.
- 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).

- 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.
- Replace permanent pavement markings and traffic signs upon completion of each phase of work.
- All protective facilities and precautions to be taken shall conform with the "Hawaii Administrative Rules Governing the Use of Traffic Control Devices at Work Sites On Or Adjacent To Public Streets and Highways" adopted by the Director of Transportation, and the current U.S. Federal Highway Administration's "Manual On Uniform Traffic Control Devices for Streets and Highways, Part VI - Traffic Control Devices for Street and Highway Construction and Maintenance Operations".
- The Contractor shall not work on weekends or holidays, unless specifically authorized by the Engineer in writing. Normal construction hours shall be from 8:30 a.m. to 3:00 p.m., Monday through Friday.
- The Contractor shall check and maintain the traffic control devices periodically during working hours at no additional cost to the State.
- Traffic cones shall be 18 inches (minimum) high.
- All traffic signs and devices including barricades, arrow boards, traffic cones and other appropriate traffic control appurtenances shall be verified and approved by the Engineer prior to the issuances of the public notice for the miscellaneous work and traffic detours.
- All traffic control, including the ones not shown in this plan shall be considered incidental to the various contract items.
- Driveways shall be kept open unless the owners of the properties using these rights-of-way are otherwise provided for satisfactorily.
- Where pedestrian walkways exist they shall be maintained in a safe and passable condition, or other facilities for pedestrians shall be provided. Passages between walkways at intersections shall likewise be provided.

Table 1 for Traffic Control Plan

Posted Speed Limit (m.p.h.)	Sign Spacing D, (ft.)	Taper Length, T (ft.)		Longitudinal Buffer Space, B (feet)	Spacing of Cones or Delineators (ft.)		
		W = 12' or less Ⓞ	W = Greater than 12' Ⓞ		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 40	220	45	45	10
50	1000	600	W x 50	280	50	50	10
55	1000	700	W x 55	335	55	55	10

Note: Ⓞ W = Width of Lane, Shoulder or Offset

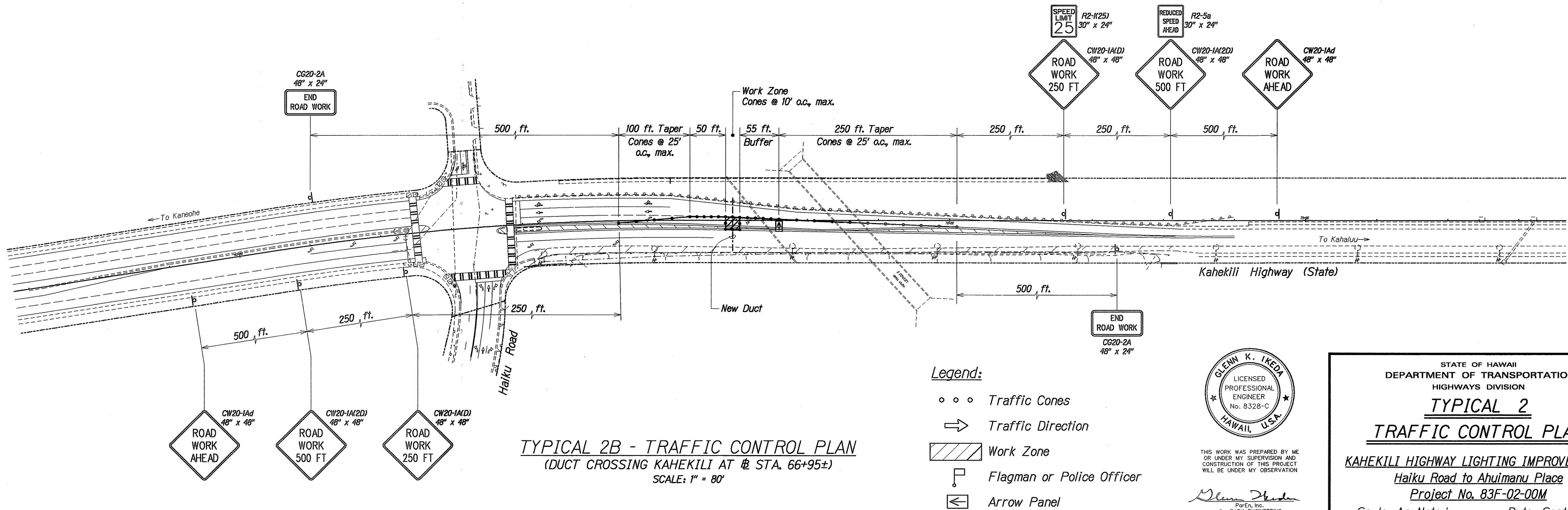
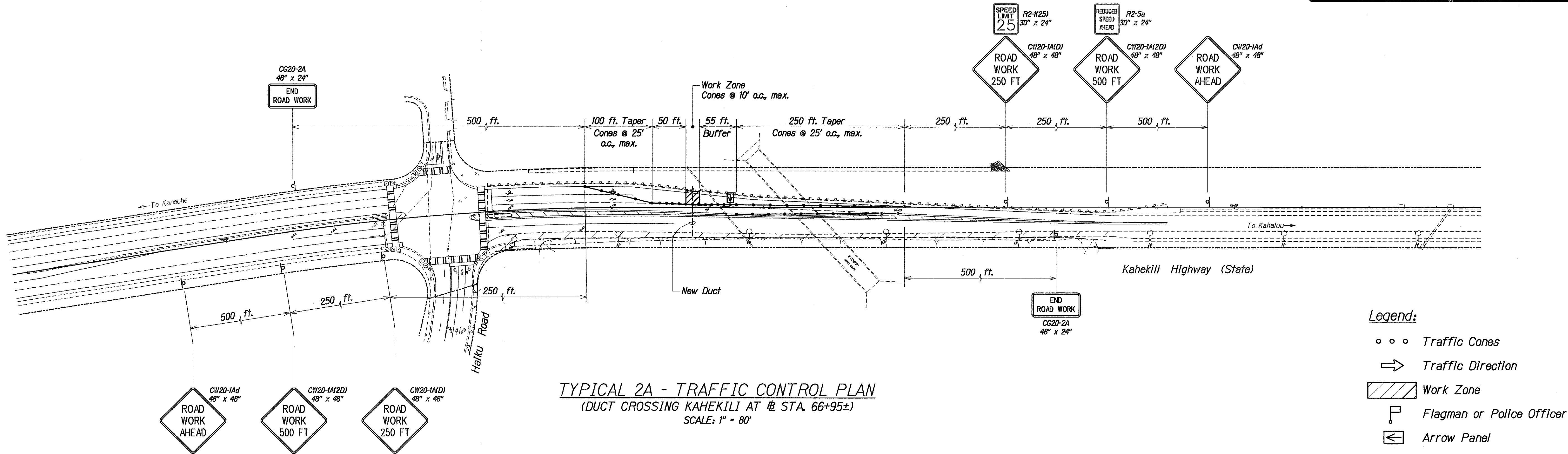


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Glen K. Ikeda
Professional Engineer
License Expires: 4-30-04

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
TYPICAL 1
TRAFFIC CONTROL PLAN
KAHEKILI HIGHWAY LIGHTING IMPROVEMENTS
Haiku Road to Ahuimanu Place
Project No. 83F-02-00M
Scale: As Noted Date: Sept. 2002
SHEET No. 1 OF 10 SHEETS

DATE	_____
SURVEY PLANNED BY	_____
DRAWN BY	_____
DESIGNED BY	_____
QUANTITIES BY	_____
CHECKED BY	_____
ORIGINAL PLAN	_____
NOTE BOOK	_____

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	83F-02-00M	2004	55	98



DATE	_____
SURVEY PLOTTED BY	_____
DRAWN BY	_____
CHECKED BY	_____
NOTED BY	_____
QUANTITIES BY	_____
CHECKED BY	_____
ORIGINAL PLAN	_____
NOTE BOOK	_____
CHECKED BY	_____



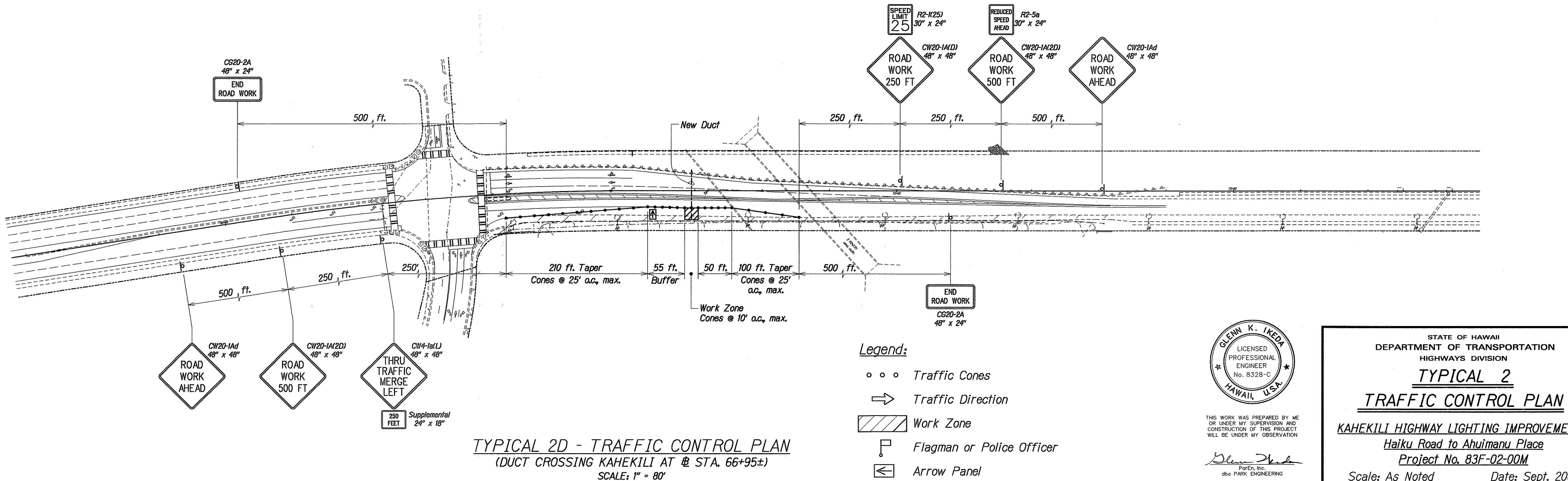
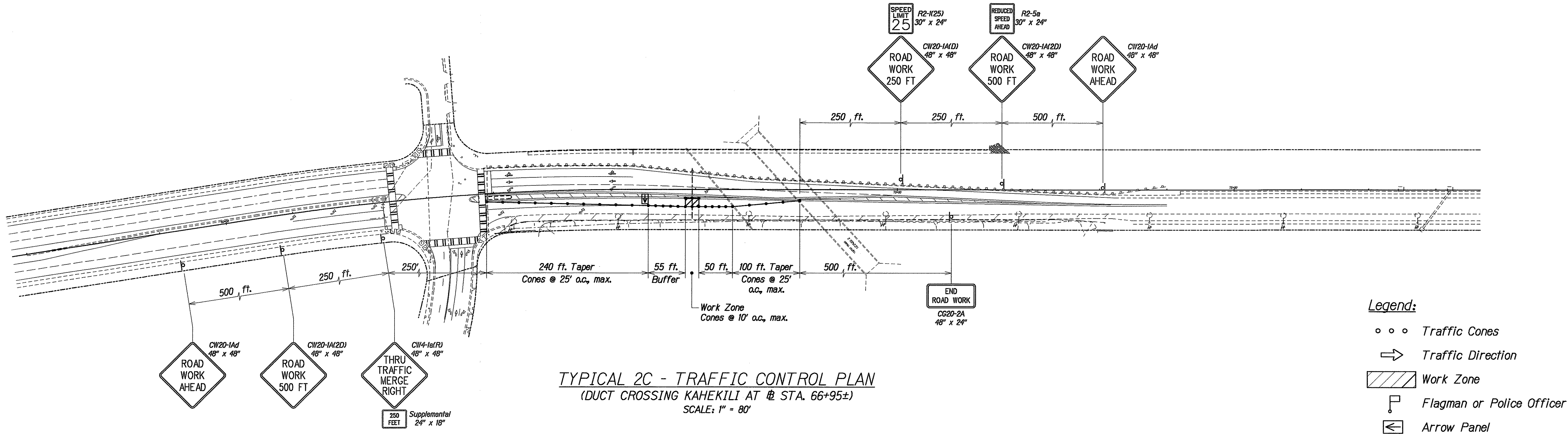
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Glenn K. Ikeda
 Glenn K. Ikeda
 dba PARK ENGINEERING
 LICENSE EXPIRES: 4-30-04

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
TYPICAL 2
TRAFFIC CONTROL PLAN
KAHEKILI HIGHWAY LIGHTING IMPROVEMENTS
Haiku Road to Ahuimanu Place
Project No. 83F-02-00M
Scale: As Noted Date: Sept. 2002
SHEET No. 2 OF 10 SHEETS

55

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	83F-02-00M	2004	56	98



SURVEY PLOTTED BY	DATE
DRAWN BY	
DESIGNED BY	
QUANTITIES BY	
CHECKED BY	
ORIGINAL PLAN	
NOTE BOOK	

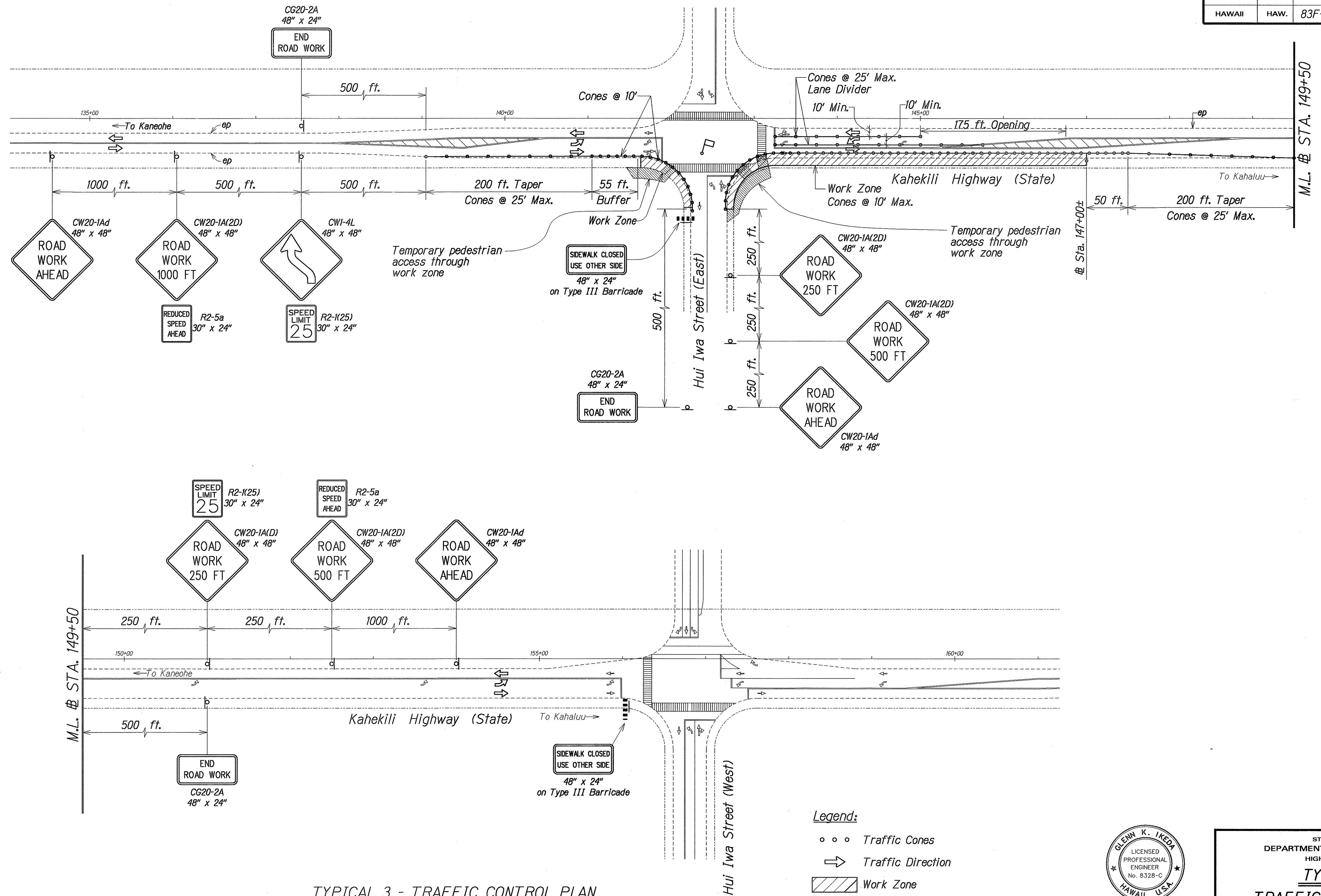
GLENN K. IKEDA
LICENSED PROFESSIONAL ENGINEER
No. 8328-C
HAWAII, U.S.A.

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Glenn Ikeda
PAPER, INC.
dba PARK ENGINEERING
LICENSE EXPIRES: 4-30-04

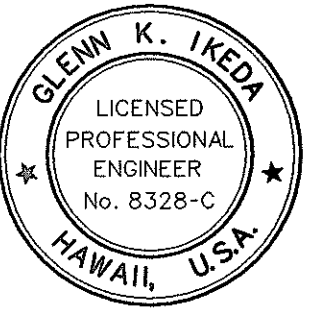
STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
TYPICAL 2
TRAFFIC CONTROL PLAN
KAHEKILI HIGHWAY LIGHTING IMPROVEMENTS
Haiku Road to Ahuimanu Place
Project No. 83F-02-00M
Scale: As Noted Date: Sept. 2002
SHEET No. 3 OF 10 SHEETS

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	83F-02-00M	2004	57	98



TYPICAL 3 - TRAFFIC CONTROL PLAN
SCALE: 1" = 60'

- Legend:
- ○ ○ Traffic Cones
 - ➔ Traffic Direction
 - ▨ Work Zone
 - 🚧 Flagman or Police Officer



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Glenn K. Ikeda
Professional Engineer
License Expires: 4-30-04

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

TYPICAL 3
TRAFFIC CONTROL PLAN

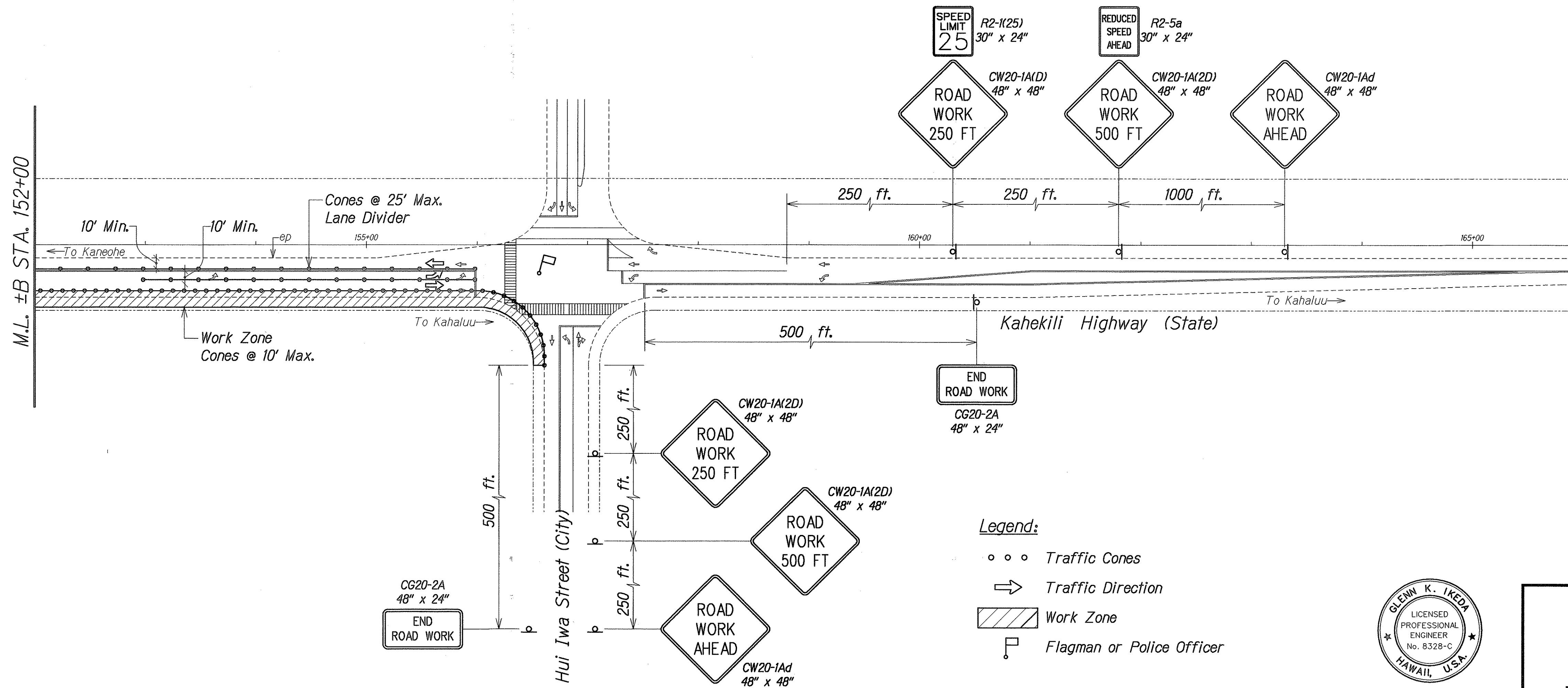
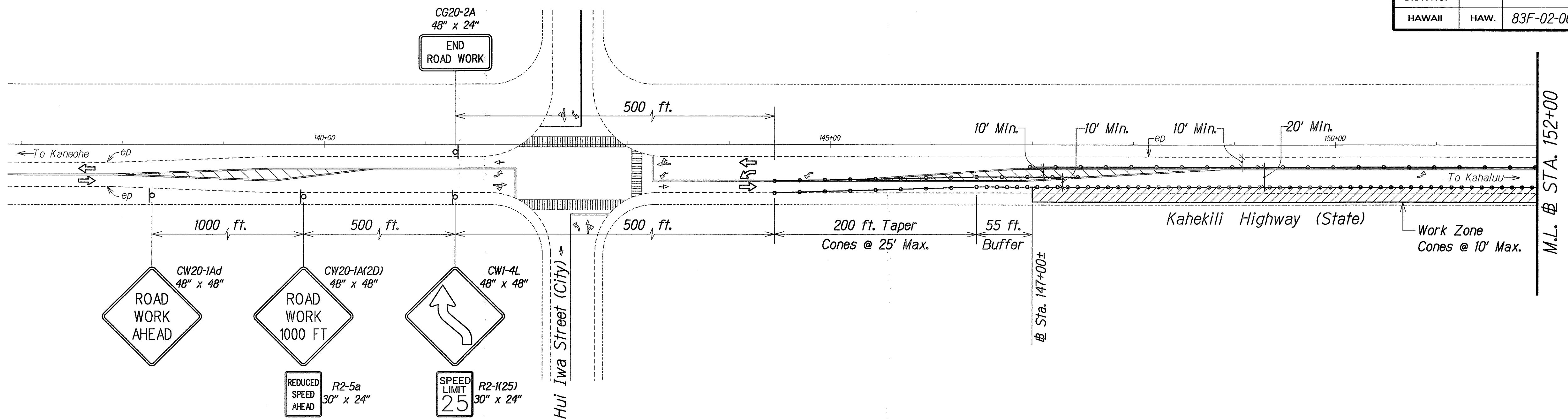
KAHEKILI HIGHWAY LIGHTING IMPROVEMENTS
Haiku Road to Ahuimanu Place
Project No. 83F-02-00M

Scale: As Noted Date: Sept. 2002

SHEET No. 4 OF 10 SHEETS

ORIGINAL PLAN	DATE
SERIES PLANNED BY	
DRAWN BY	
DESIGNED BY	
QUANTITIES BY	
CHECKED BY	

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	83F-02-00M	2004	58	98



- Legend:**
- • • Traffic Cones
 - ➔ Traffic Direction
 - ▨ Work Zone
 - ⚑ Flagman or Police Officer

TYPICAL 4 - TRAFFIC CONTROL PLAN
SCALE: 1" = 60'



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dba PARK ENGINEERING
LICENSE EXPIRES: 4-30-04

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

TYPICAL 4
TRAFFIC CONTROL PLAN

KAHEKILI HIGHWAY LIGHTING IMPROVEMENTS
Haiku Road to Ahuimanu Place
Project No. 83F-02-00M

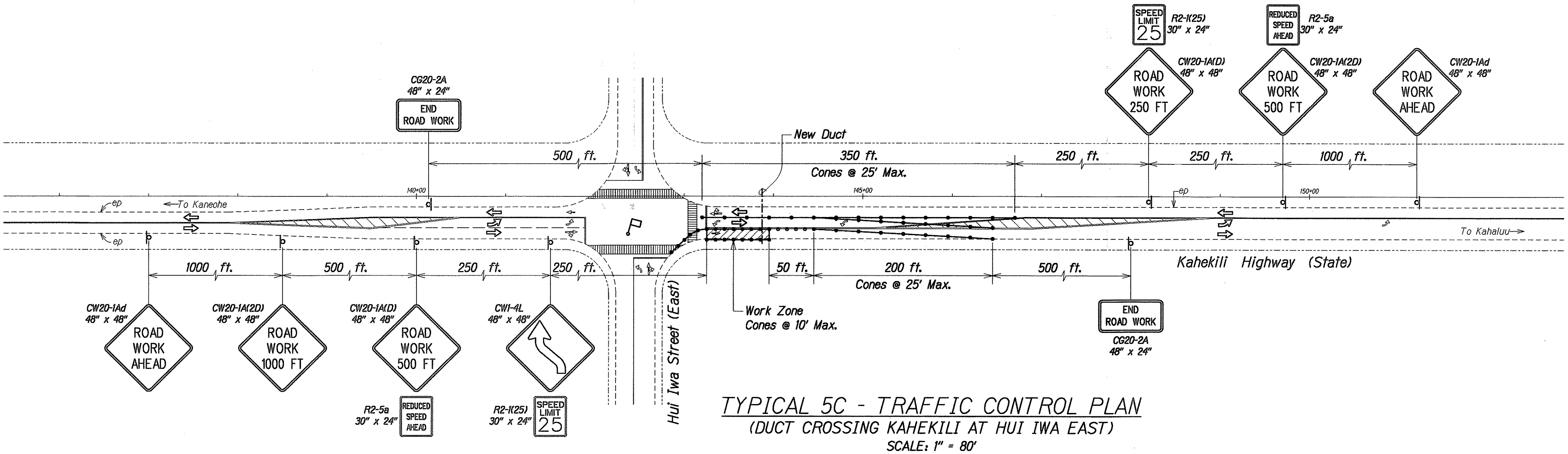
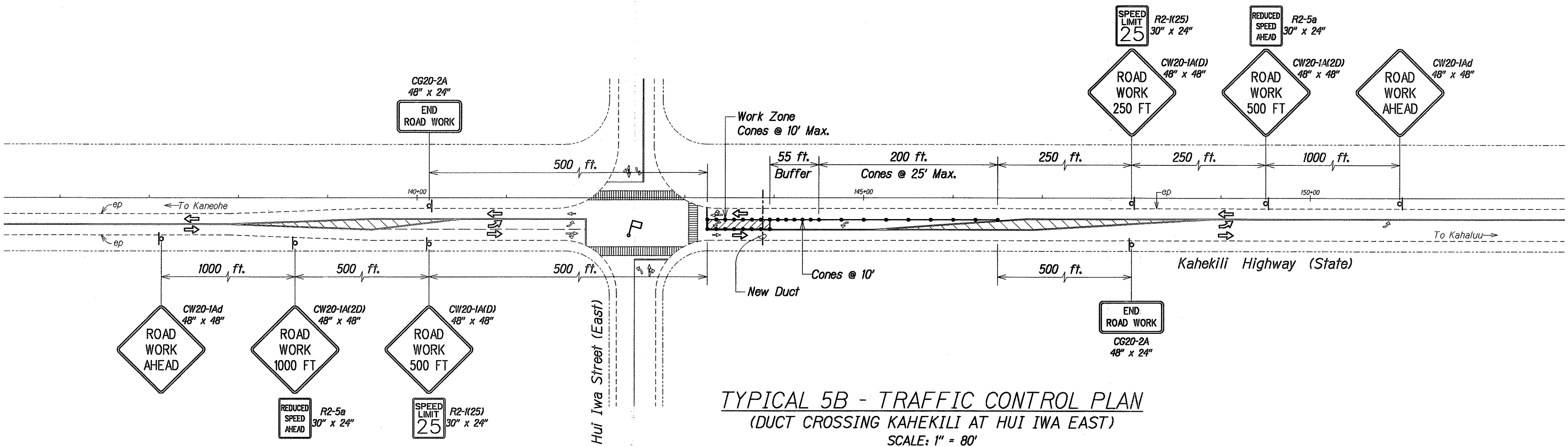
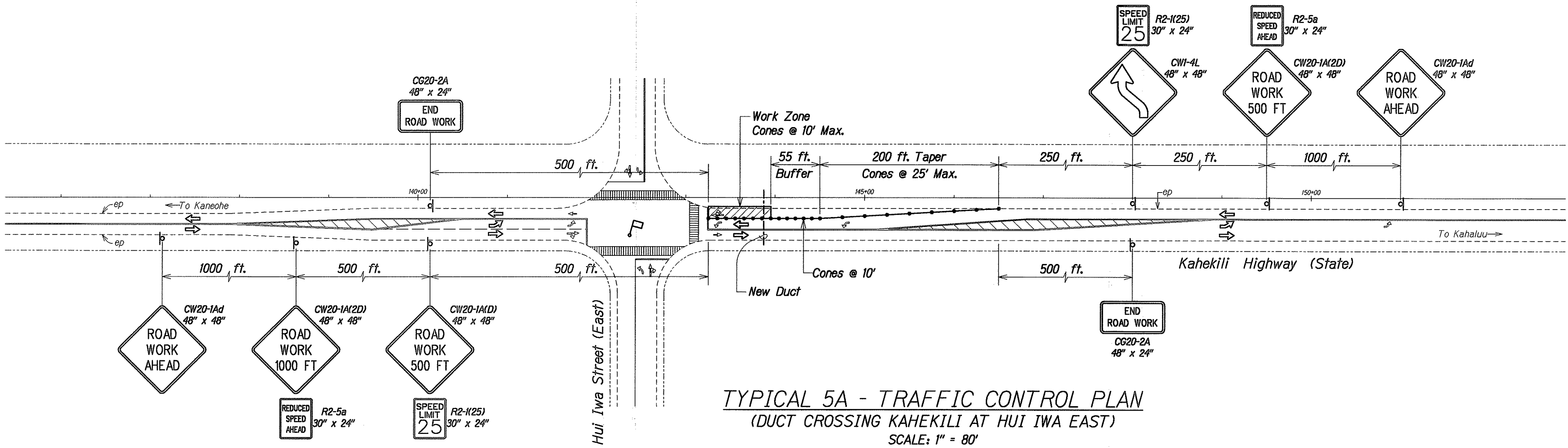
Scale: As Noted Date: Sept. 2002

SHEET No. 5 OF 10 SHEETS

SURVEY PLOTTED BY	DATE
DESIGNED BY	
NOTED BY	
CHECKED BY	

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	83F-02-00M	2004	59	98

- Legend:**
- • • Traffic Cones
 - ➔ Traffic Direction
 - ▨ Work Zone
 - Ⓜ Flagman or Police Officer



SURVEY PLOTTED BY	DATE
DRAWN BY	
DESIGNED BY	
QUANTITIES BY	
CHECKED BY	
ORIGINAL PLAN	
NOTE BOOK	
CHECKED BY	



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Park, Inc.
dba PARK ENGINEERING
LICENSE EXPIRES: 4-30-04

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

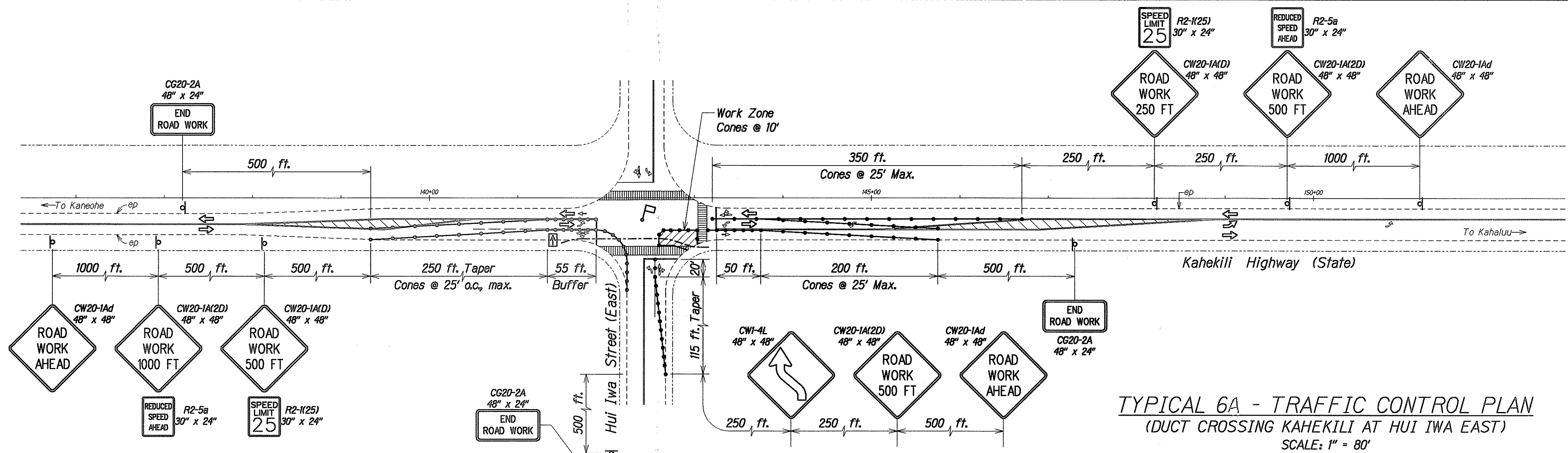
TYPICAL 5
TRAFFIC CONTROL PLAN

KAHEKILI HIGHWAY LIGHTING IMPROVEMENTS
Haiku Road to Ahimaru Place
Project No. 83F-02-00M

Scale: As Noted Date: Sept. 2002

SHEET No. 6 OF 10 SHEETS

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	83F-02-00M	2004	60	98

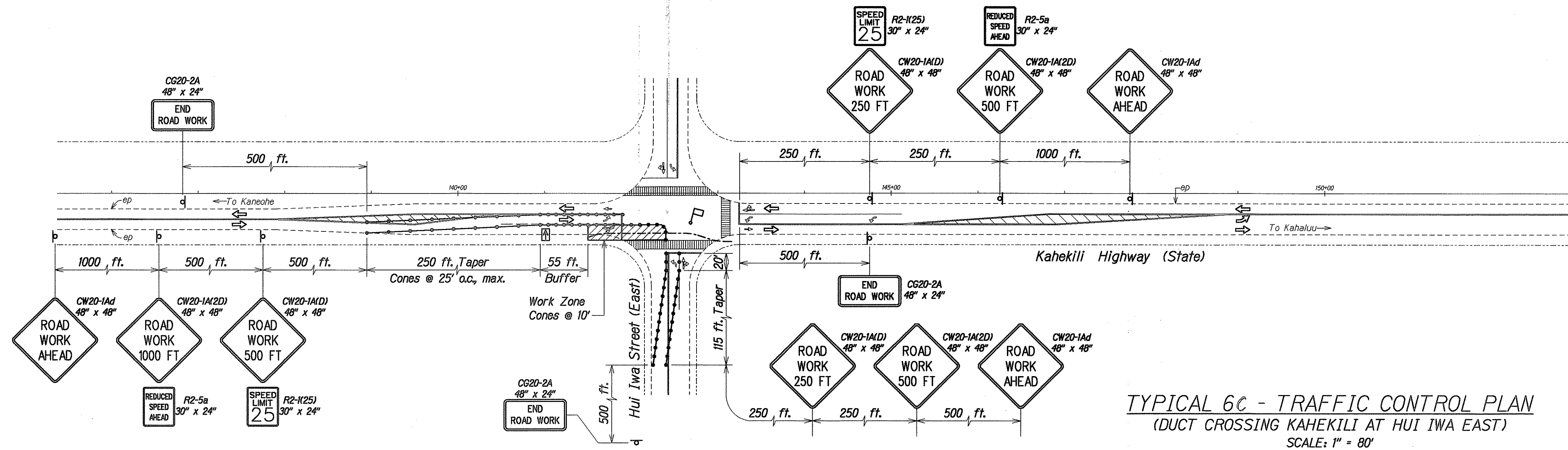
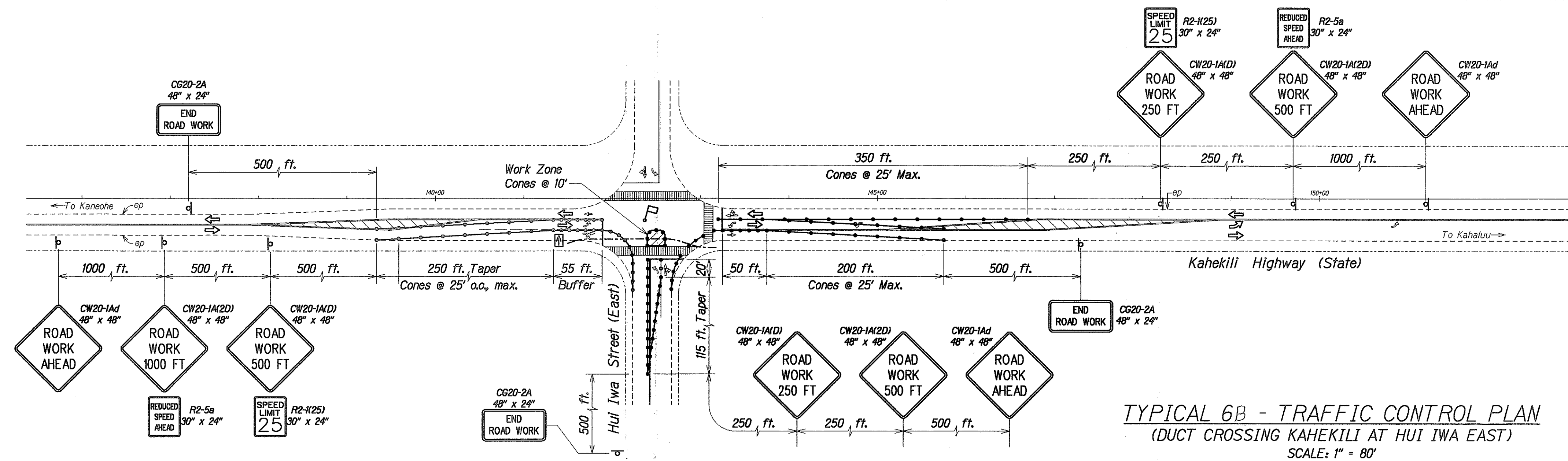


Legend:

- ○ ○ Traffic Cones
- ➔ Traffic Direction
- ▨ Work Zone
- ⚑ Flagman or Police Officer
- ➔ Arrow Panel

Note:

The Traffic Control Plan for the duct crossing Hui Iwa West Street is not included but shall be similar to this plan (Duct Crossing Hui Iwa East).



DESIGNED BY	DATE
TRACED BY	
DESIGNED BY	
QUANTITIES BY	
CHECKED BY	



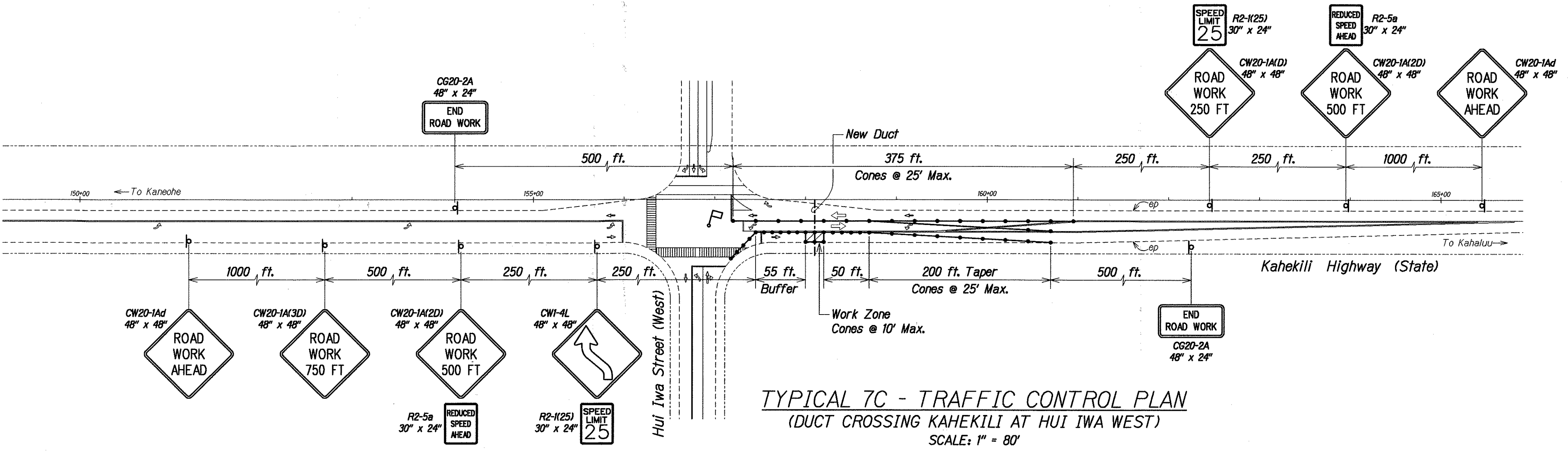
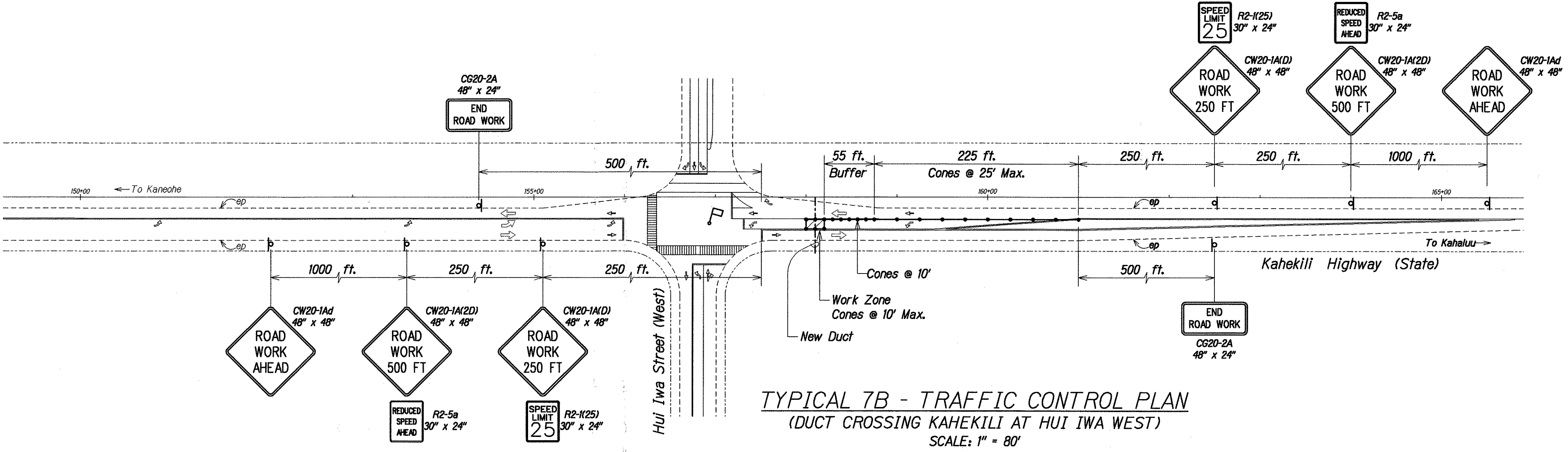
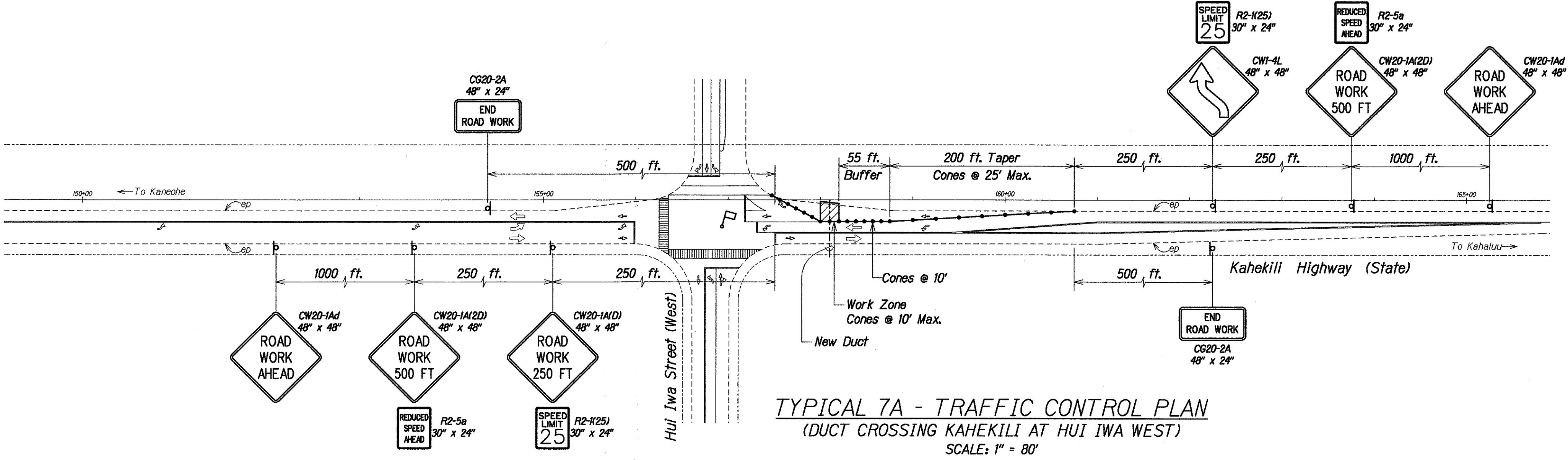
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STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
TYPICAL 6
TRAFFIC CONTROL PLAN
KAHEKILI HIGHWAY LIGHTING IMPROVEMENTS
Haiku Road to Ahuimanu Place
Project No. 83F-02-00M
Scale: As Noted Date: Sept. 2002
SHEET No. 7 OF 10 SHEETS

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	83F-02-00M	2004	61	98

- Legend:
- ○ ○ Traffic Cones
 - ➡ Traffic Direction
 - ▨ Work Zone
 - 🚧 Flagman or Police Officer



SURVEY PLOTTED BY	DATE
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DESIGNED BY	
QUANTITIES BY	
CHECKED BY	
ORIGINAL PLAN	
NOTE BOOK	
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dba PARK ENGINEERING
LICENSE EXPIRES: 4-30-04

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

TYPICAL 7
TRAFFIC CONTROL PLAN

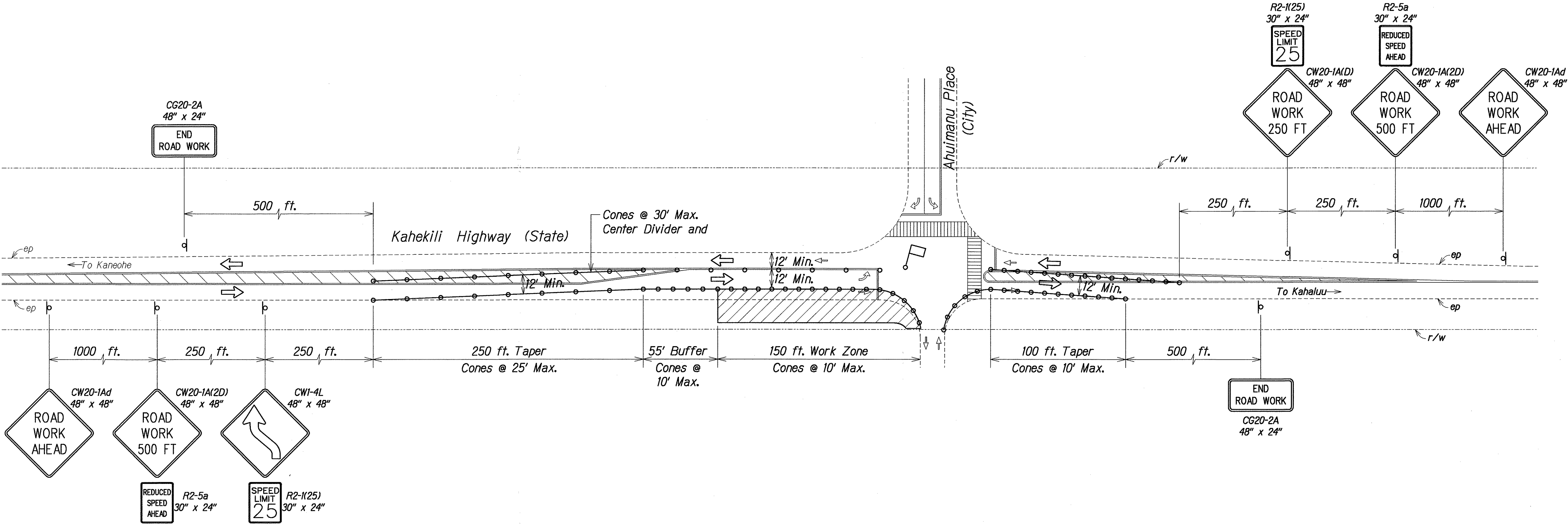
KAHEKILI HIGHWAY LIGHTING IMPROVEMENTS
Haiku Road to Ahuimanu Place
Project No. 83F-02-00M

Scale: As Noted Date: Sept. 2002

SHEET No. 8 OF 10 SHEETS

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	83F-02-00M	2004	63	98

- Legend:
- • • Traffic Cones
 - ➡ Traffic Direction
 - ▨ Work Zone
 - 🚧 Flagman or Police Officer



TYPICAL 9 - TRAFFIC CONTROL PLAN
SCALE: 1" = 40'

SURVEY PLOTTED BY	DATE
DRAWN BY	
TRACED BY	
CHECKED BY	
ORIGINAL PLAN	
NOTE BOOK	
CHECKED BY	



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WILL BE UNDER MY OBSERVATION

Glenn K. Ikeda
Professional Engineer
No. 8328-C
HAWAII, U.S.A.

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

TYPICAL 9
TRAFFIC CONTROL PLAN

KAHEKILI HIGHWAY LIGHTING IMPROVEMENTS
Haiku Road to Ahulimanu Place
Project No. 83F-02-00M

Scale: As Noted Date: Sept. 2002

SHEET No. 10 OF 10 SHEETS