

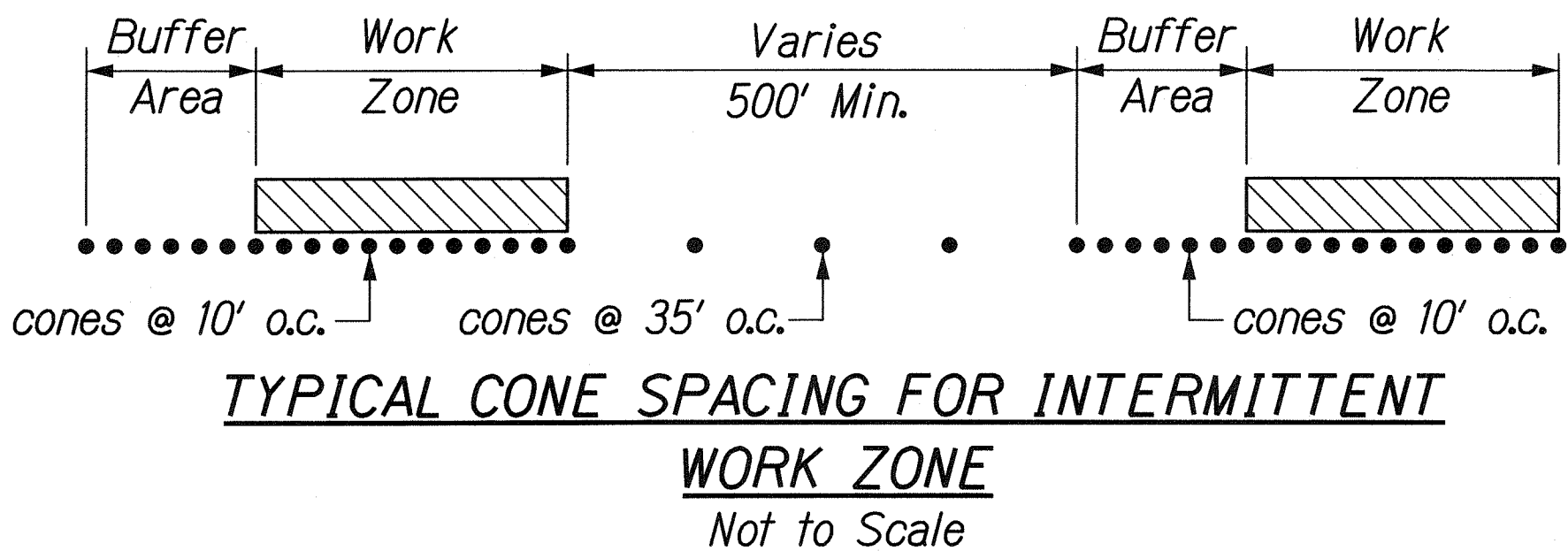
GENERAL NOTES FOR TRAFFIC CONTROL PLAN

FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	CMAQ-076-1(9)	2006	123	160

LEGEND:

- ↑ □ Portable Arrow Board
- ▬ Sign
- ▬ Existing Sign
- ← Direction of Traffic
- ⊥ Type II Barricade (24" wide) with steady burn amber lamps.
- • • Cones with Retroreflective bands (All cones in work area shall be 28" high).
- Portable Concrete Barrier See Details on Sht. R1-36 and R1-37
- ⊙ Crash Cushion
- ⊕ Police vehicle with visible blue light
- ⚑ Flagman

1. Only Traffic Control Plans for major construction activities are shown. The Contractor shall develop his own Traffic Control Plans in accordance with Section 645 of the Special Provisions for activities to complete work not covered by the Traffic Control Plans. The Contractor shall submit the Traffic Control Plans to the Engineer for approval. Payment for development and implementation of the Traffic Control Plans shall be considered incidental to the various contract items.
2. All lane closures and traffic pattern changes (detours) not shown on the plan shall be submitted to the Engineer for approval in accordance with Specifications Section 645-Traffic Control. For restrictions on lane closures, detours, construction work during peak hours, and other requirements regarding maintaining vehicular and pedestrian traffic, see Section 107.13 - Public Convenience and Safety, and Section 645-Traffic Control.
3. The Contractor shall make minor adjustments at intersections, driveways, bridges, structures, etc. to fit field conditions.
4. Cones or delineators shall be extended to a point where they are visible to approaching traffic.
5. 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.
6. Flaggers and/or police officers shall be in sight of each other or in direct communications at all times.
7. Sign spacings (L), taper lengths (T), and spacings of cones or delineators shall be as shown in Table 1 of Section 645 in the Specifications, unless otherwise noted on HDOT's Traffic Control Plans.
8. All traffic lanes shall be minimum of 11 feet wide.
9. All signs shall be promptly removed or covered whenever the message is not applicable or not in use.
10. The backs of all signs 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 Contractor 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. Replace permanent pavement markings and traffic signs upon completion of each phase of work. Temporary pavement markings and traffic signs shall be used in the interim.
13. Existing conflicting pavement markings shall be removed and temporary pavement markings shall be installed before traffic patterns are changed. After completion of the work, temporary pavement markings shall be removed. Payment for removal of existing pavement markings; and furnishing, installing, and removal of temporary pavement markings, whether or not shown on the Traffic Control Plans shall be considered incidental to the various contract items.
14. The locations of pavement markings, signs, and delineators used in the Traffic Control shall be as shown on the plans, Contractor's approved Traffic Control Plans, and/or as determined in the field by the Engineer.
15. Damage to signs, temporary pavement markers, and delineators caused by the public or Contractor's negligence shall be repaired or replaced by the Contractor at the Contractor's expense.
16. Signs for night work shall be retroreflective and shall be mounted with a Type B high intensity flasher.
17. Steel plates for covering trenches shall have a skid resistant surface. The skid resistant surface shall be maintained throughout its use. Steel plates shall be installed in such a manner as to minimize movement from its intended location and minimize noise when traffic crosses over it (i.e., steel plates shall not generate any noise impact). Payment for steel plates shall be considered incidental to the various contract items. Steel plates will not be allowed in the travelway for posted speeds in excess of 35 mph.
18. The Contractor shall limit the extent of trench and excavation work for pavement reconstruction to an area that can be satisfactorily backfilled in one work day.
19. Work zone limits shown for each traffic control phase encompass all work items to be completed in that particular phase. The length of the work zone may be reduced to accommodate the Contractor's actual work zone for that time period, provided it has been accepted by the Engineer, and all tangents, tapers, and buffer lengths are maintained.
20. For intermittent work zones within a particular traffic control phase, only cones along the actual work zone need to be placed at 10' o.c. The intermittent work zone shall include a 220' buffer area along the leading edge of traffic flow. All other traffic control cones can be placed at 35' o.c. See typical detail below.



21. The Contractor is responsible for providing all sign supports and/or posts for construction warning signs.
22. If existing loop detectors are damaged during construction, temporary microwave detectors shall be installed at the intersection.

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QUANTITIES BY	
IN CHARGE	

\\FORT-WEAVER-ROAD\TCF\TCF-NOTES.dgn

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

**TRAFFIC CONTROL
NOTES AND LEGEND**

FORT WEAVER ROAD WIDENING
VICINITY OF AAWA DRIVE TO GEIGER ROAD

Scale: None Date: Sept. 20, 2007

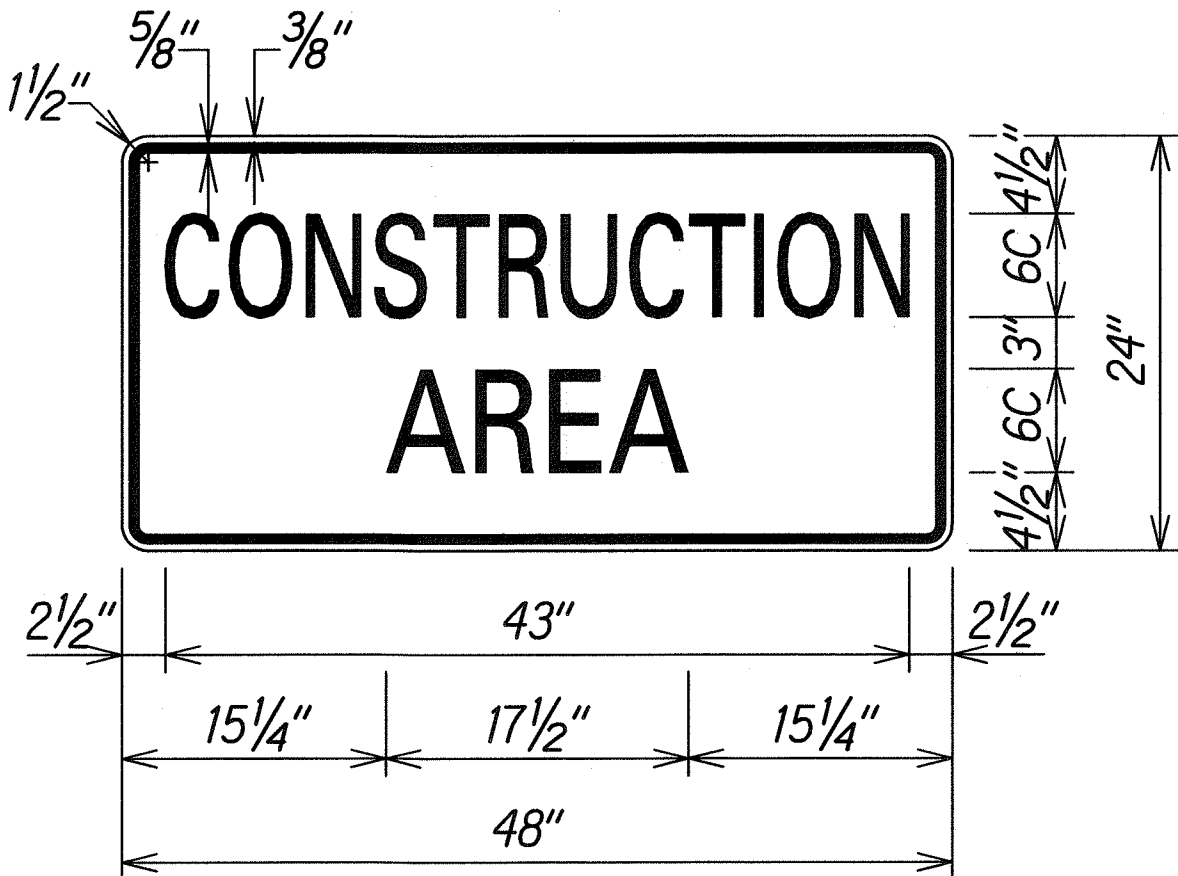
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ON ORDER MY SUPERVISOR

RANDALL M. URASAKI
LICENSED PROFESSIONAL ENGINEER
No. 7269-C
HAWAII, U.S.A.

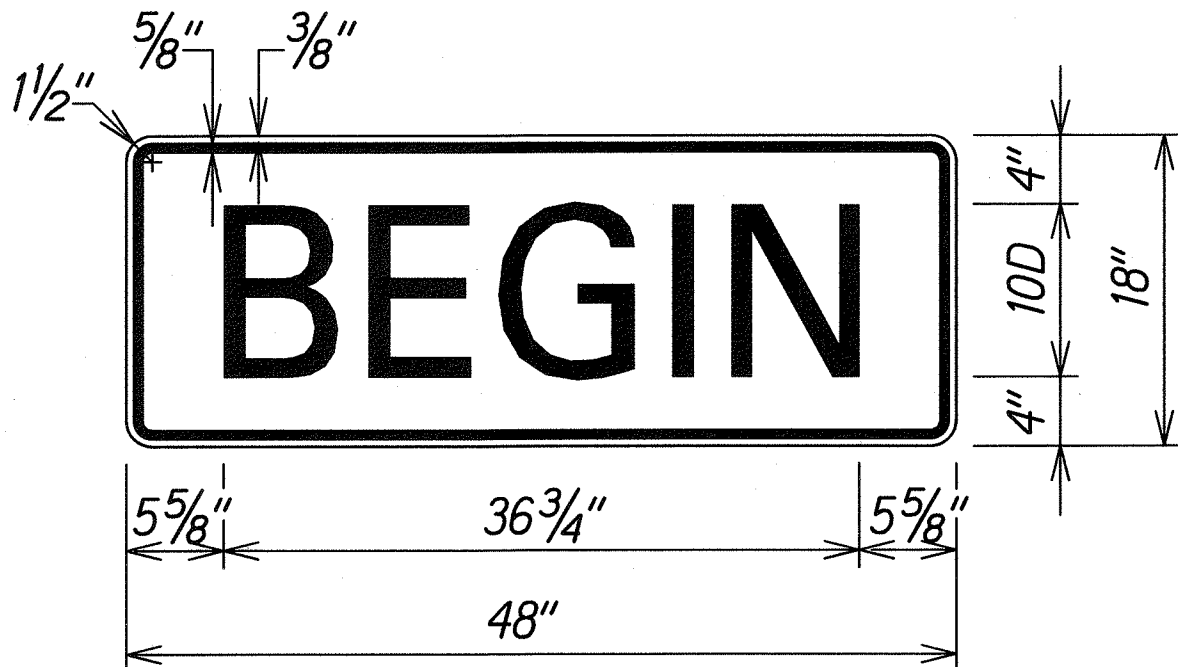
FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	CMAQ-076-1(9)	2006	124	160

Work Zone Note:

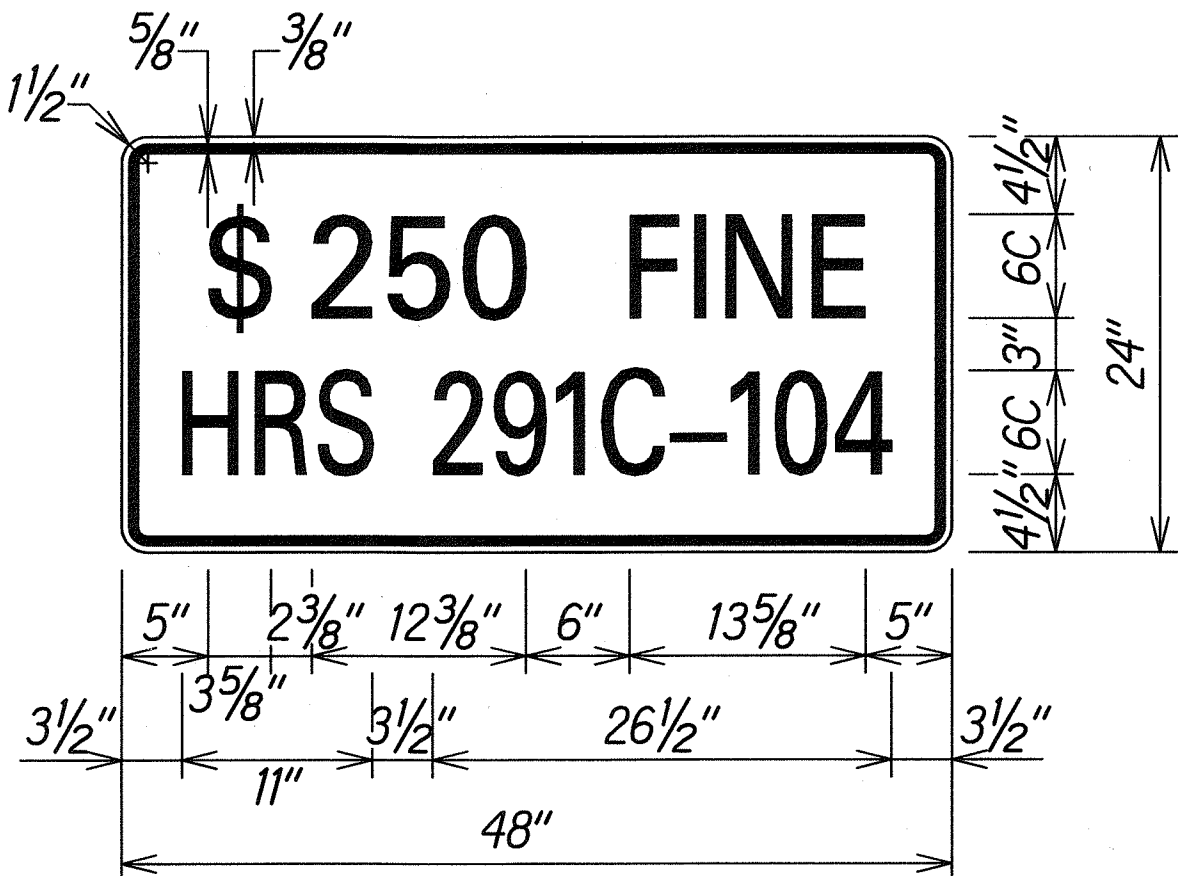
1. All existing regulatory speed limit signs within the work zone/project limits shall be covered and work zone speed limit sign assemblies (R2-1(45)-A and R2-5b(45)-A with "CONSTRUCTION AREA" and "\$250 FINE HRS 291C-104" Supplemental Signs) shall be displayed during lane closure hours.
2. Upon removal of the lane closure, all work zone speed limit signs shall be covered and existing speed limit signs within the work zone/project limits shall be restored.
3. Construction signs shall be installed on both the approaching and trailing ends of each work zone.
4. Each construction sign and work zone speed limit assembly shall have a minimum of two (2) Type II OM. Installation of each Type II OM shall be considered incidental to Item No. 645.1000-Traffic Control.
5. All work zone speed sign assembly shall be mounted on three (3) 4.00 lbs./ft. galvanized flanged channel sign posts with a sign clearance height of five (5) feet. Sign stiffeners as specified by Standard Plan Sheet TE-02 shall be installed as needed or as directed by the Engineer.
6. The daily covering and uncovering of existing regulatory speed limit signs along with the installation; maintenance, removal and daily covering and uncovering of work zone speed limit sign assemblies shall be considered incidental to Item No. 645.1000-Traffic Control.
7. All work zone signs shall have the project number and Contractor's name on the back of the sign in 1 1/2" high letters, black paint.
8. All traffic cones, delineators, and barrels, etc. shall have retroreflective bands.
9. Provide 2 off duty police officers and vehicles at every on-ramp and off-ramp. Payment shall be incidental to Item No. 645.1000-Traffic Control and will not be paid under additional police officers (F.A.).
10. All cones shall be retroreflective as required by MUTCD and be a min. of 28" high & weigh a minimum 10 pounds.



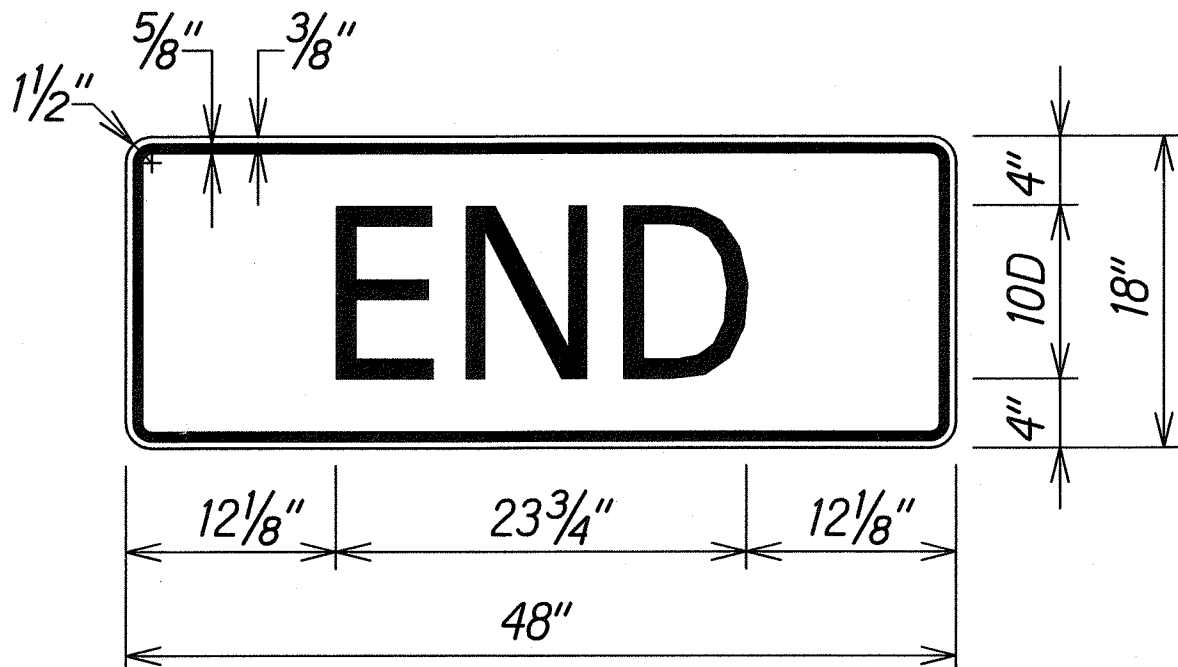
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BACKGROUND: ORANGE



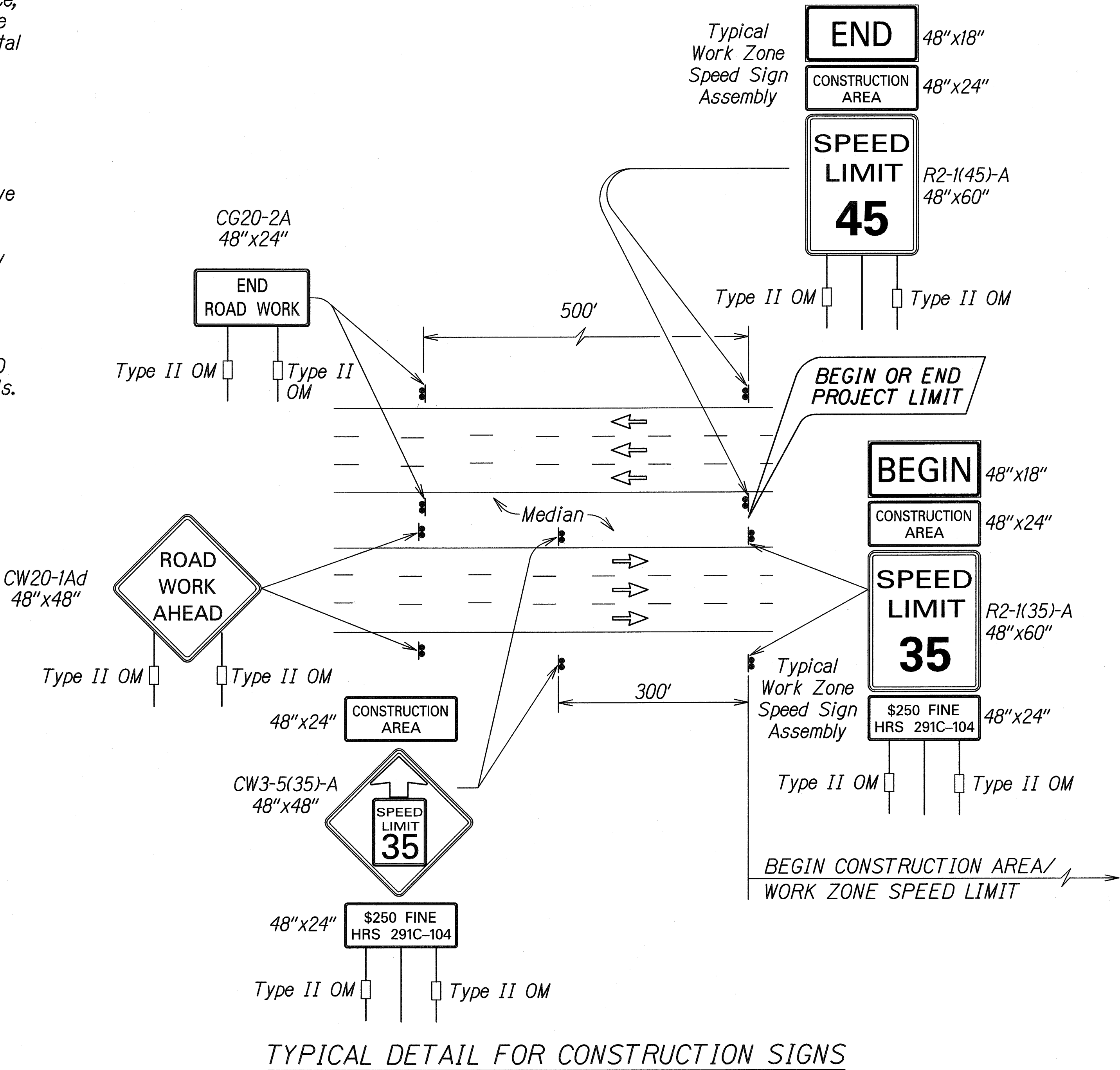
LEGEND: BLACK
BACKGROUND: ORANGE



LEGEND: BLACK
BACKGROUND: WHITE



LEGEND: BLACK
BACKGROUND: ORANGE



TYPICAL DETAIL FOR CONSTRUCTION SIGNS

DATE	____
SURVEY PLOTTED BY	____
DESIGNED BY	____
NOTED BY	____
CHECKED BY	____
ORIGINAL PLAN	____
NOTE BOOK	____
NO.	____

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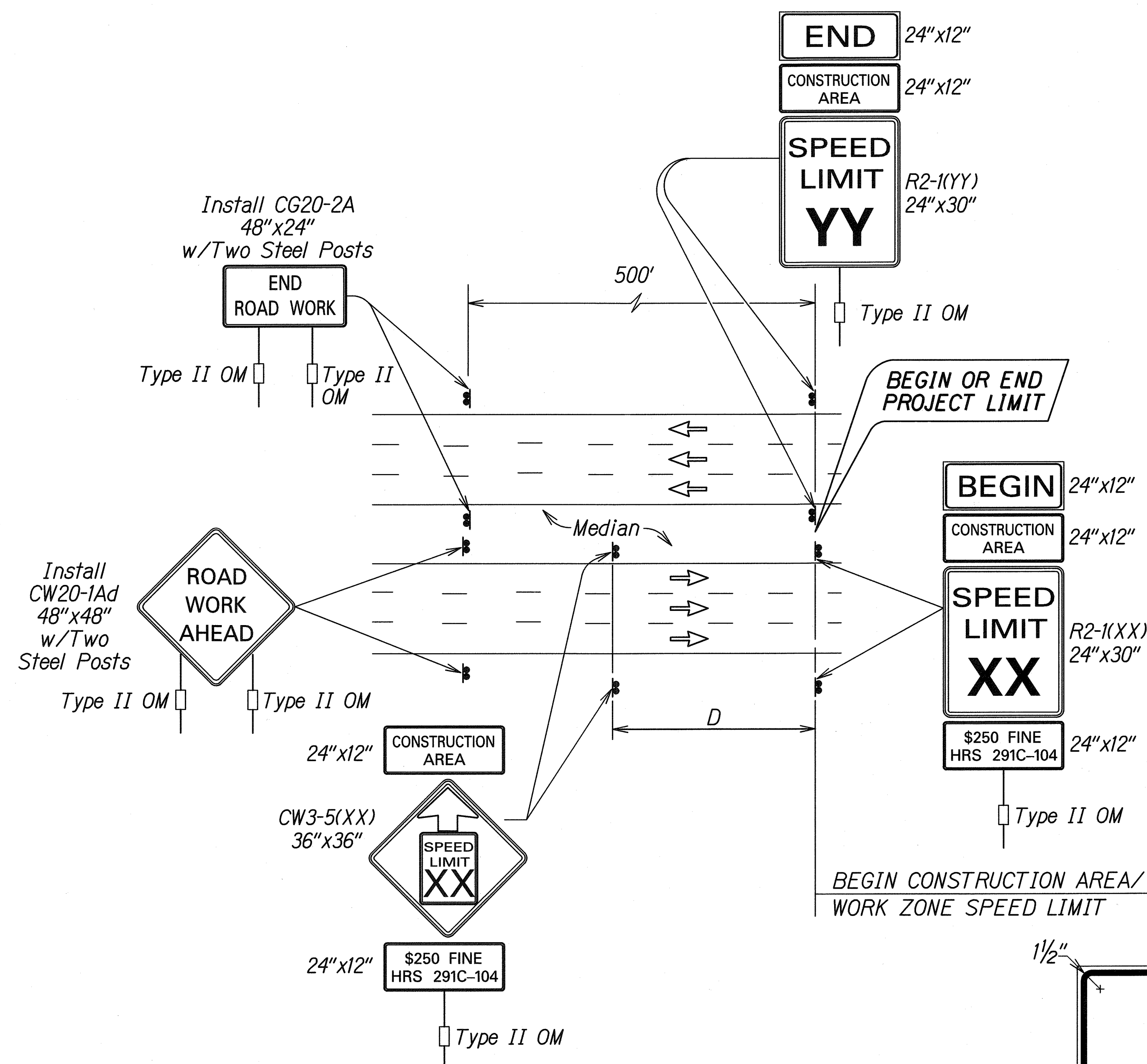
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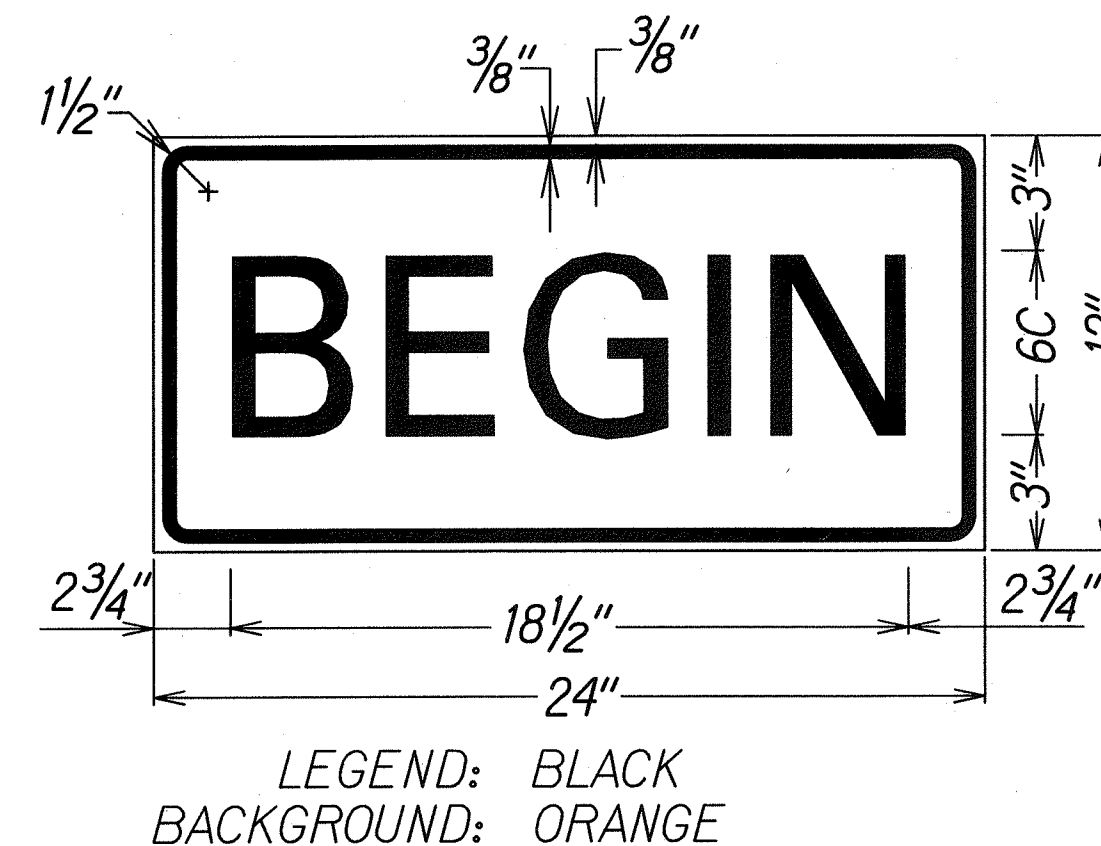
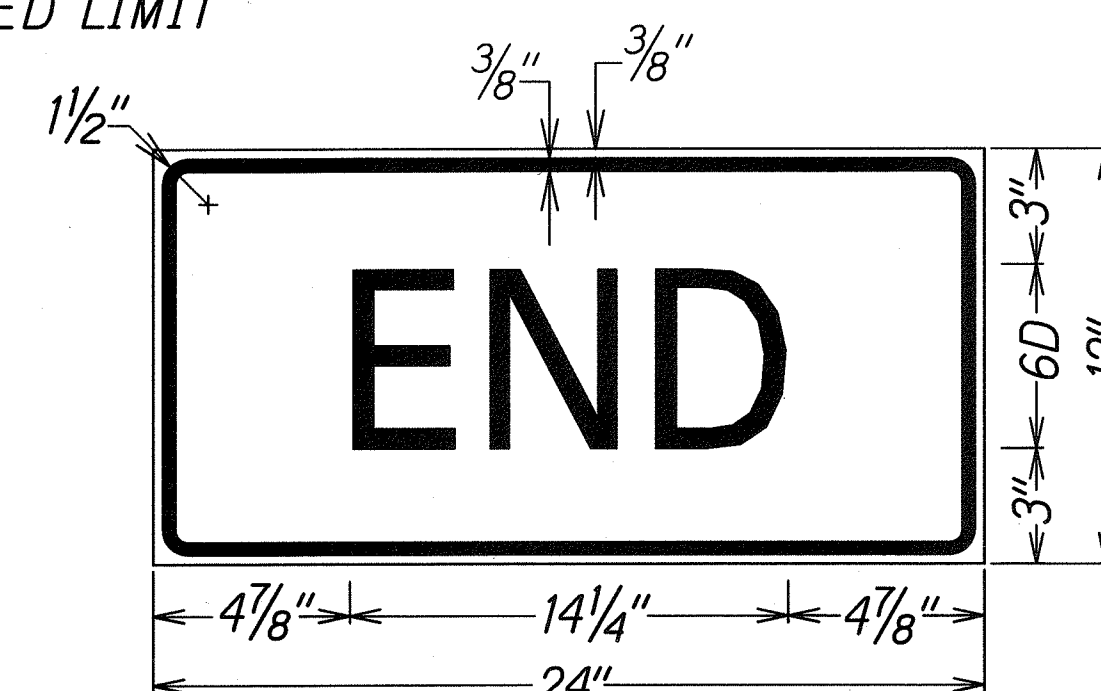
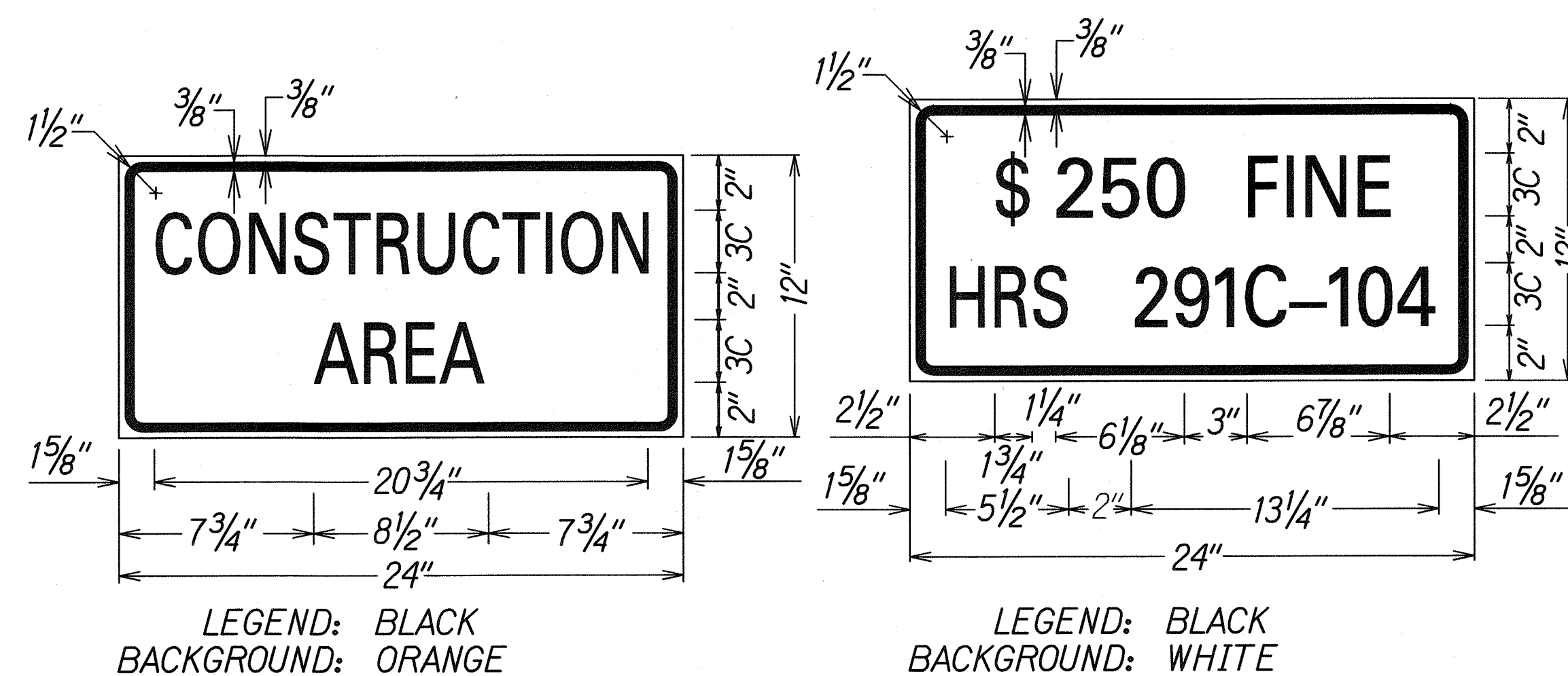
**WORK ZONE SIGNING
PLAN, NOTES & DETAILS**

FORT WEAVER ROAD WIDENING
VICINITY OF AAWA DRIVE TO GEIGER ROAD

Scale: None Date: Sept. 20, 2007



TYPICAL DETAIL FOR CONSTRUCTION SIGNS
ON MULTILANE DIVIDED LOW SPEED HIGHWAY



Designer Note:


1. This Work Zone Signing Plan shall be used only for low speed highways (design speeds of 45 mph or less).
2. The Designer shall replace all XX, YY & D references with appropriate speed limit as indicated in Table I.
3. Speed Limit YY shall be the existing posted speed.

Work Zone Note:

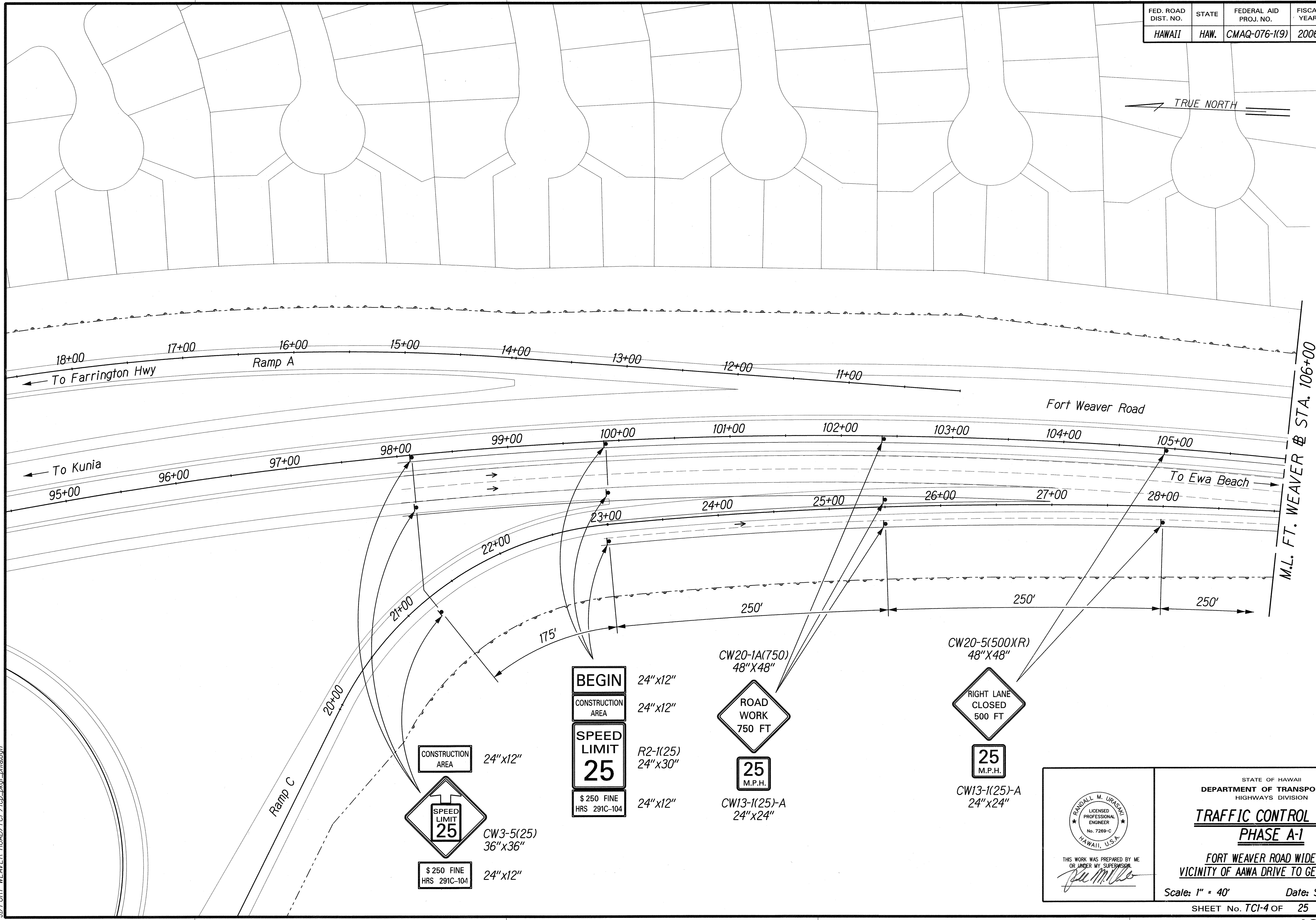
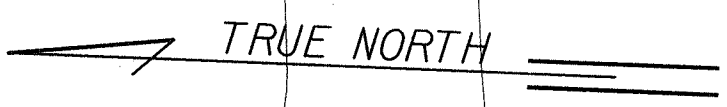
1. *This Work Zone Sign Plan is intended for use on long-term stationary work zones/construction phases (3 days or more). All work zones or construction phases less than 3 days duration will use Traffic Control Plans shown in Section 645 of the Special Provisions.*
2. *All existing regulatory speed limit signs with posts within the work zone/project limits shall be removed and replaced with work zone speed limit sign assemblies (R2-1(XX) and R2-5b(XX) with "CONSTRUCTION AREA" and "\$250 FINE HRS 29IC-104" Supplemental Signs.*
3. *Construction sign assemblies shall be installed on both the approaching and trailing ends of each work zone as shown on this plan.*
4. *Each construction warning sign shall have a minimum of two (2) Type II OM. Each work zone speed limit assembly shall have a minimum of one (1) Type II OM. Installation of each Type II OM shall be considered incidental to Item No. 621.7100, Construction Sign with Posts.*
5. *Upon the completion of all physical work or as directed by the Engineer, all construction signs and work zone speed limit assemblies shall be removed. All speed limit signs and posts that were existing at the start of the project within the work zone/project limits shall be restored back to their original locations and configurations.*
6. *Placement of construction signs shall not obstruct the path of pedestrians and bicyclists.*
7. *The removal and restoration of existing regulatory speed limit signs with new posts along with the installation, maintenance and removal of work zone speed limit sign assemblies shall be considered incidental to Item No. 621.7100, Construction Sign with Posts.*

TABLE I
GUIDELINE FOR ADVANCE PLACEMENT OF SPEED REDUCTION
SIGN R2-5b(XX)-A, CONSTRUCTION AREA SPEED LIMIT

EXISTING POSTED SPEED LIMIT (MPH)	XX-NEW CONSTRUCTION AREA SPEED LIMIT (MPH)	D--REDUCED SPEED LIMIT SIGN SPACING TO FIRST CONSTRUCTION AREA SPEED LIMIT SIGN (FEET)
≤ 25	EXIST. SPEED LIMIT TO REMAIN	
30	25	100
35	25	175
40	30	175

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FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	CMAQ-076-1(9)	2006	126	160



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DATE	

1/4" = 40' FORT WEAVER ROAD/TCP/Top-2001-011400

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HIGHWAYS DIVISION

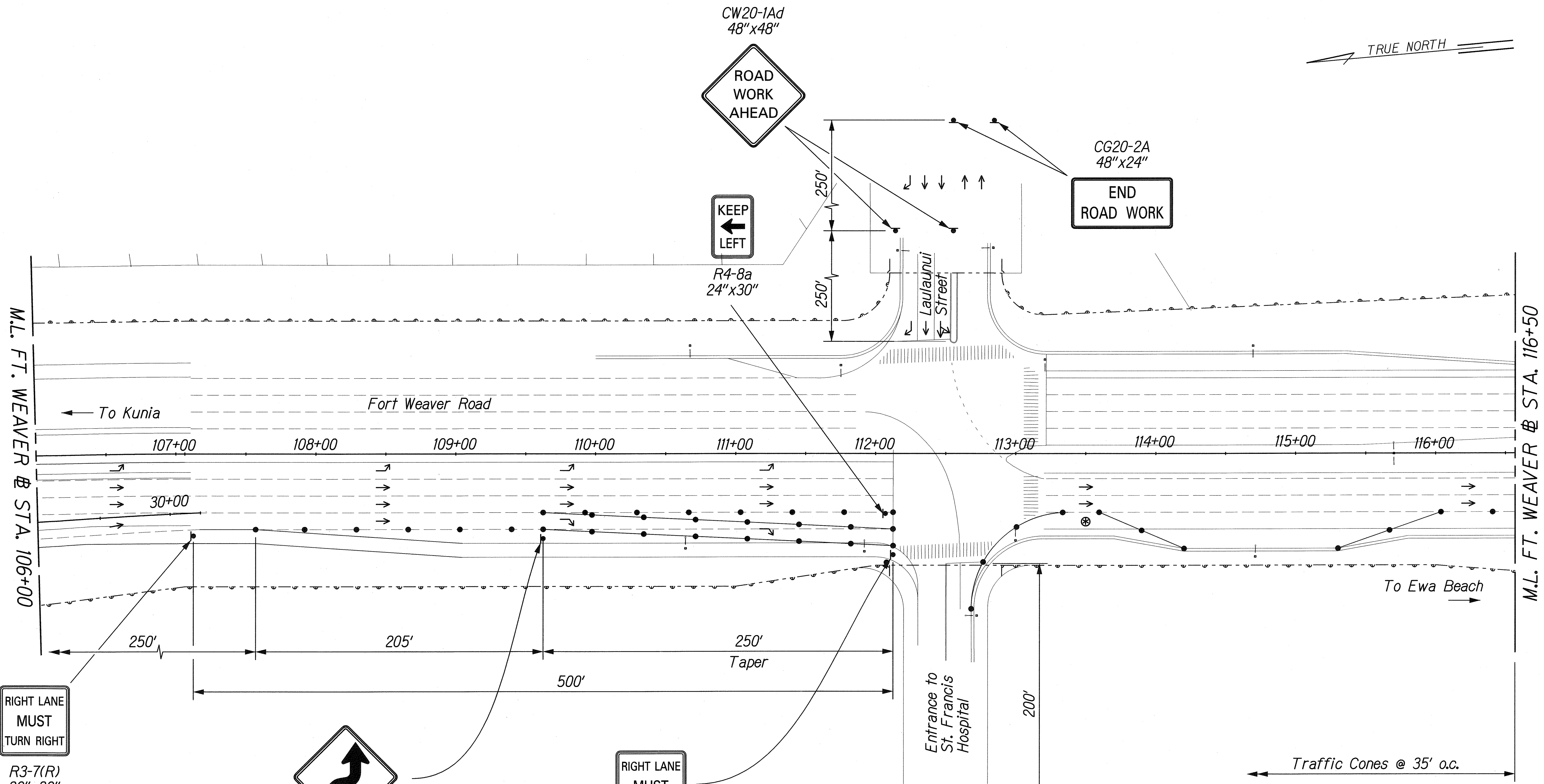
TRAFFIC CONTROL PLAN
PHASE A-1

FORT WEAVER ROAD WIDENING
VICINITY OF AAWA DRIVE TO GEIGER ROAD

Scale: 1" = 40' Date: Sept. 20, 2007

SHEET No. TCI-4 OF 25 SHEETS

FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	CMAQ-076-1(9)	2006	127	160



ORIGINAL PLAN	DATE
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\\FORT-WEAVER-ROAD\TCP\tcp.dwg 01/10/07

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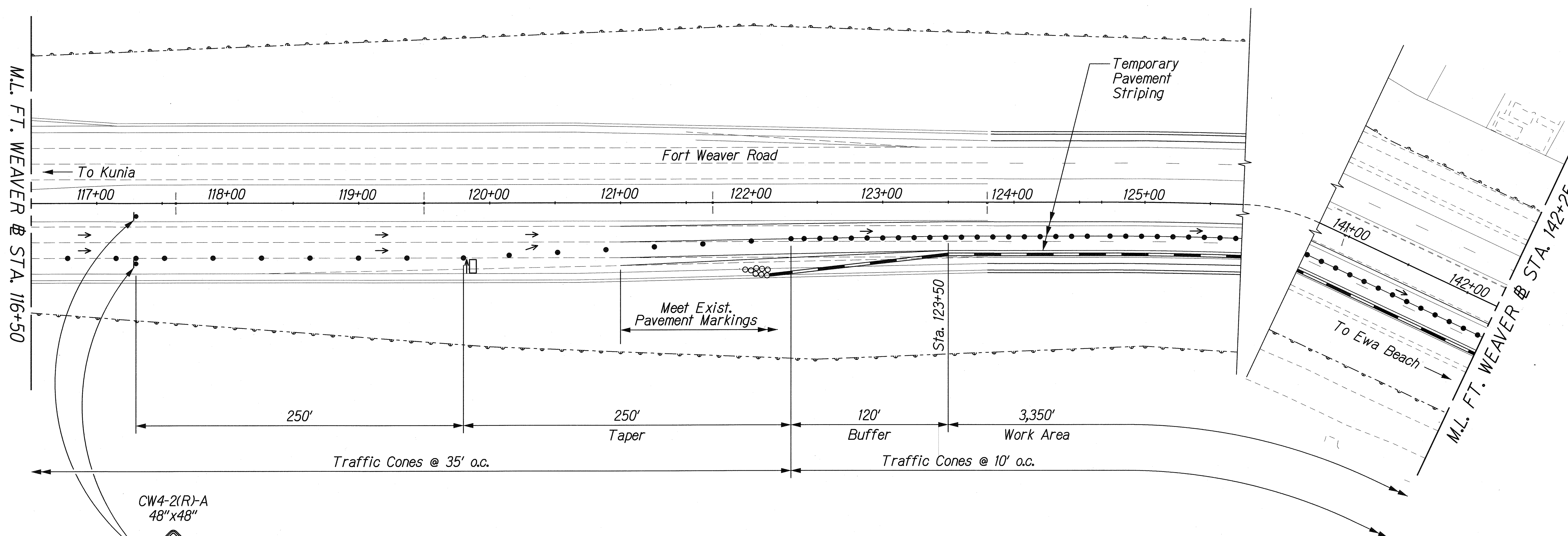
TRAFFIC CONTROL PLAN
PHASE A-2

FORT WEAVER ROAD WIDENING
VICINITY OF AAWA DRIVE TO GEIGER ROAD

Scale: 1"=40' Date: Sept. 20, 2007

SHEET No. TCI-5 OF 25 SHEETS

FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	CMAQ-076-1(9)	2006	128	160



ORIGINAL PLAN	DATE
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QUANTITIES BY	
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CW4-2(R)-A
48" x 48"

CW13-1(25)-A
24" x 24"

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TRAFFIC CONTROL PLAN
PHASE A-3

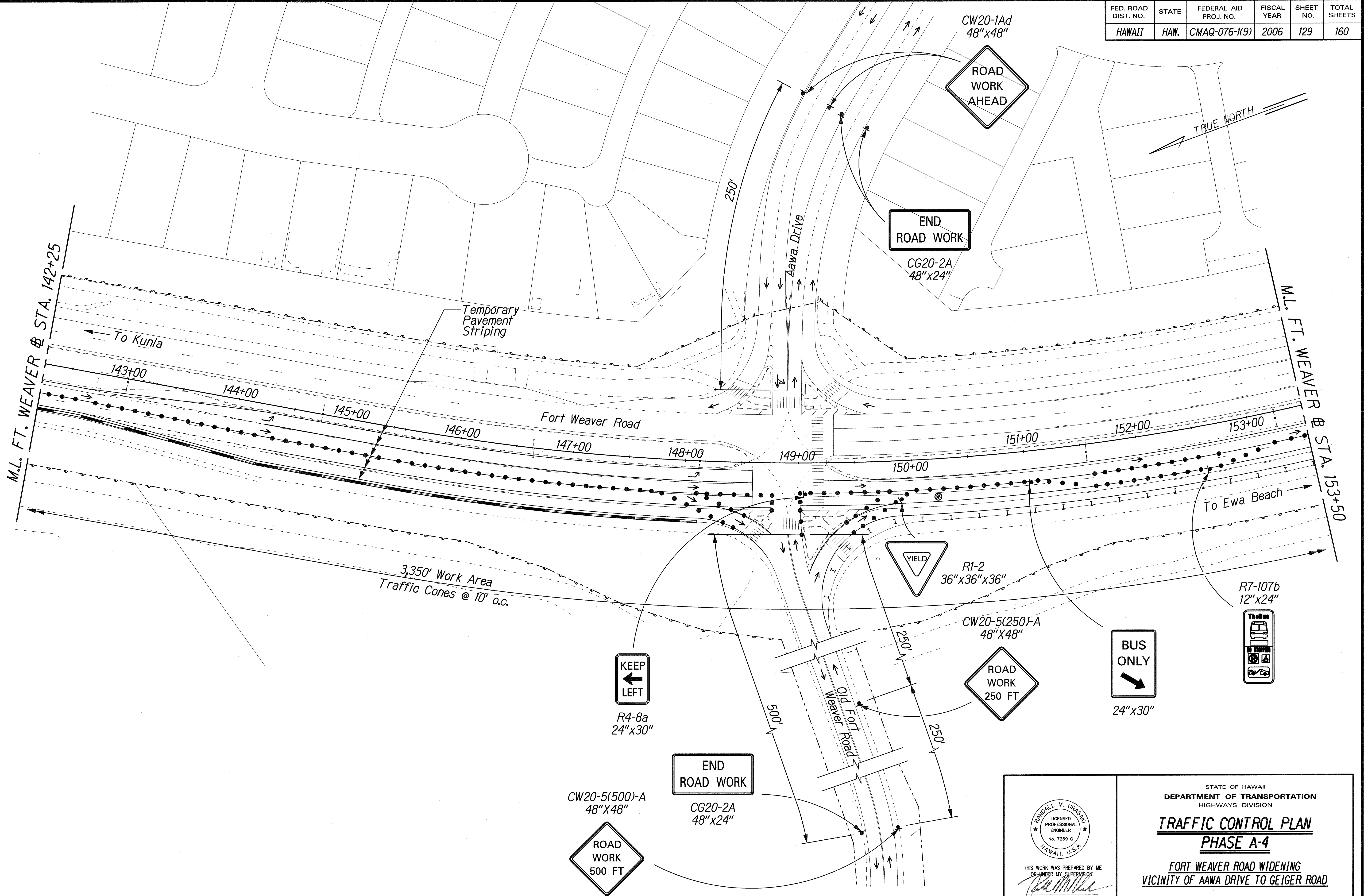
FORT WEAVER ROAD WIDENING
VICINITY OF AAWA DRIVE TO GEIGER ROAD

Scale: 1" = 40' Date: Sept. 20, 2007

FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	CMAQ-076-1(9)	2006	129	160

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HIGHWAYS DIVISION

**TRAFFIC CONTROL PLAN
PHASE A-4**

**FORT WEAVER ROAD WIDENING
VICINITY OF AWA DRIVE TO GEIGER ROAD**

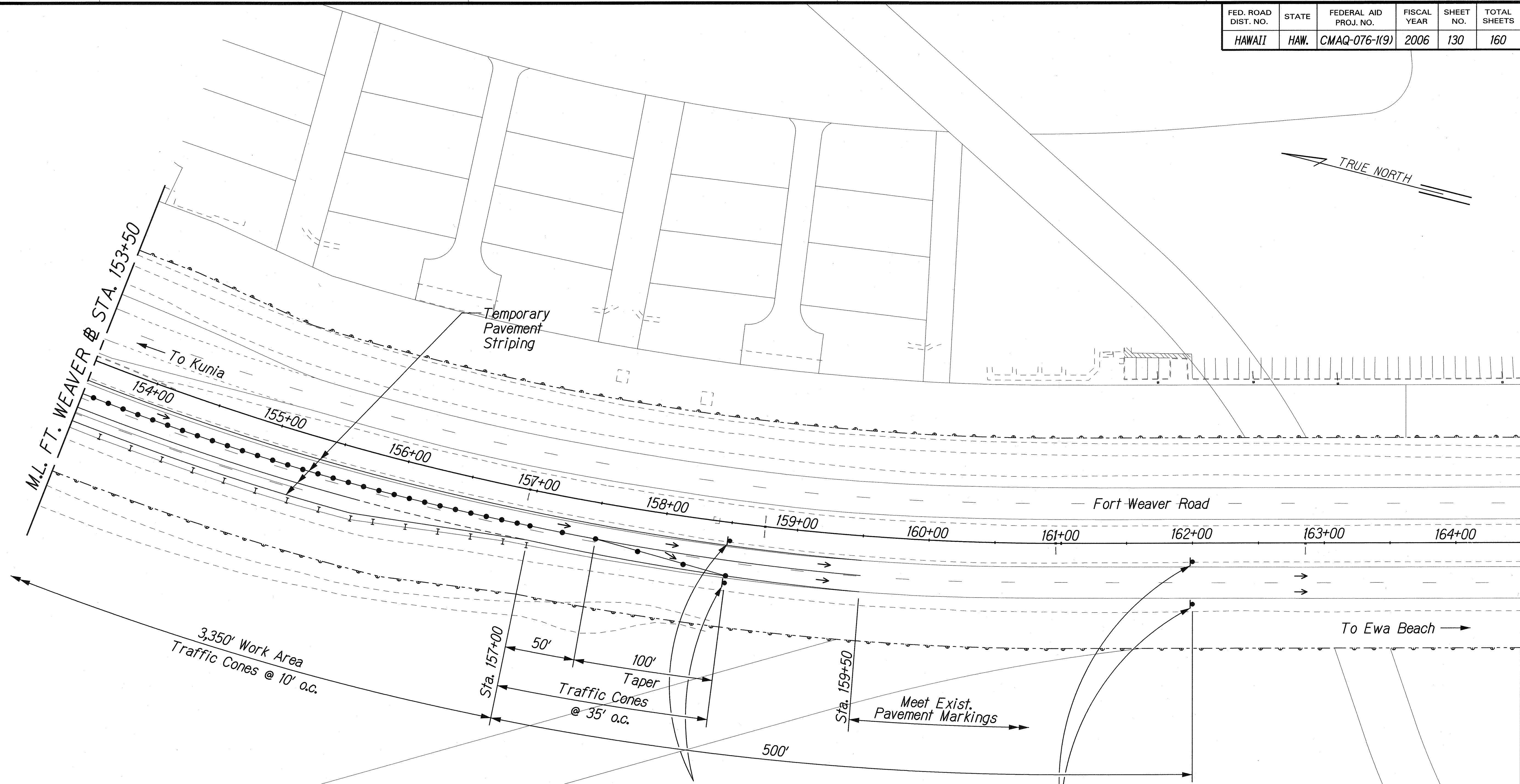
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SHEET No. TCI-7 OF 25 SHEETS

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HAWAII	HAW.	CMAQ-076-1(9)	2006	130	160

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QUANTITIES BY	CHECKED BY
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END

CONSTRUCTION AREA

SPEED LIMIT 35

24"x12"

24"x12"

R2-1(35)-A
24"x30"

END ROAD WORK

CG20-2A
48"x24"

RANDALL M. URASKI

LICENSED PROFESSIONAL ENGINEER

No. 7269-C

HAWAII, USA

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[Signature]

STATE OF HAWAII

DEPARTMENT OF TRANSPORTATION

HIGHWAYS DIVISION

TRAFFIC CONTROL PLAN

PHASE A-5

FORT WEAVER ROAD WIDENING

VICINITY OF AAWA DRIVE TO GEIGER ROAD

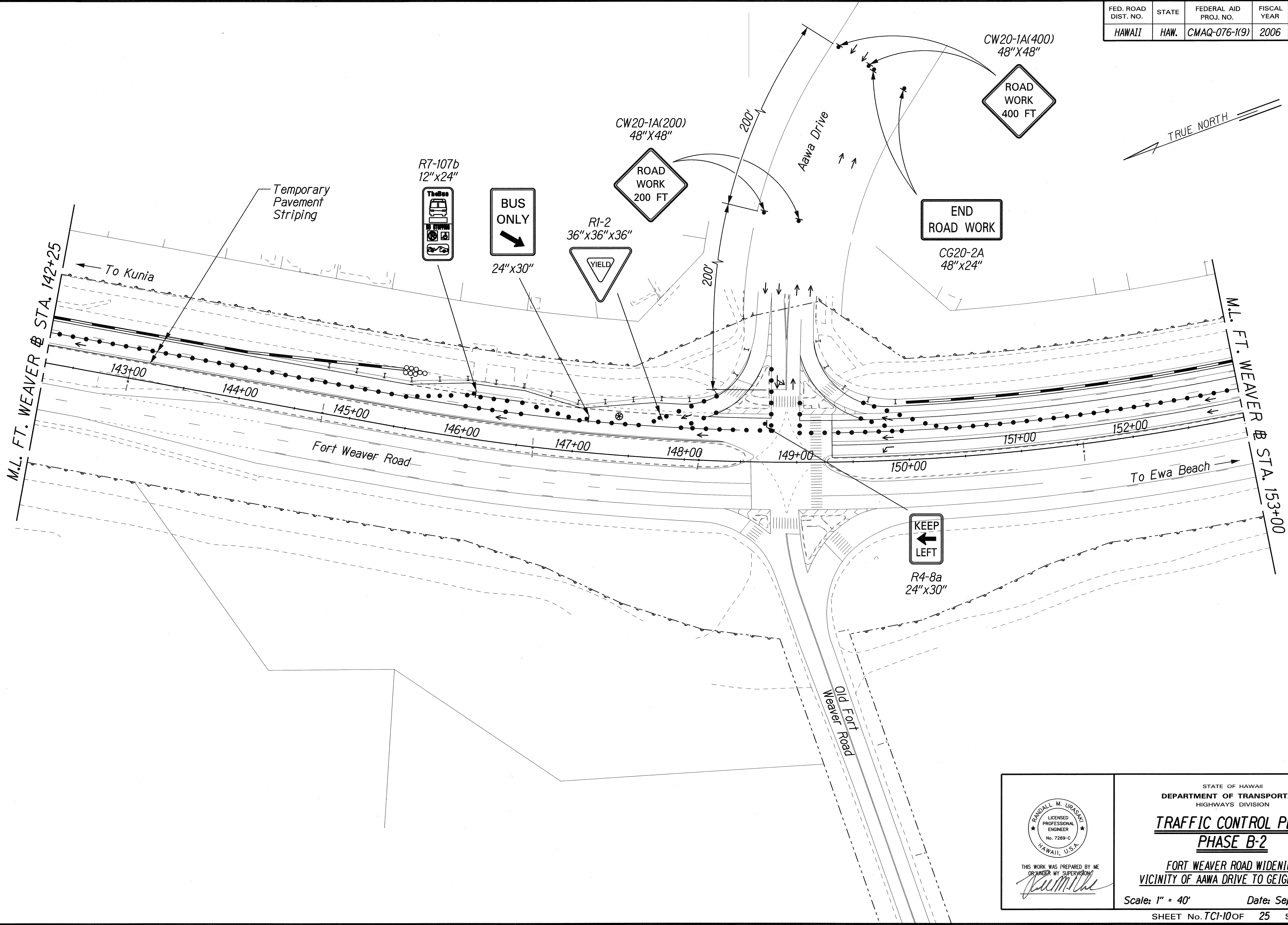
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Date: Sept. 20, 2007

SHEET No. TCI-8 OF 25 SHEETS

130

FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	CMAQ-076-1(9)	2006	132	160



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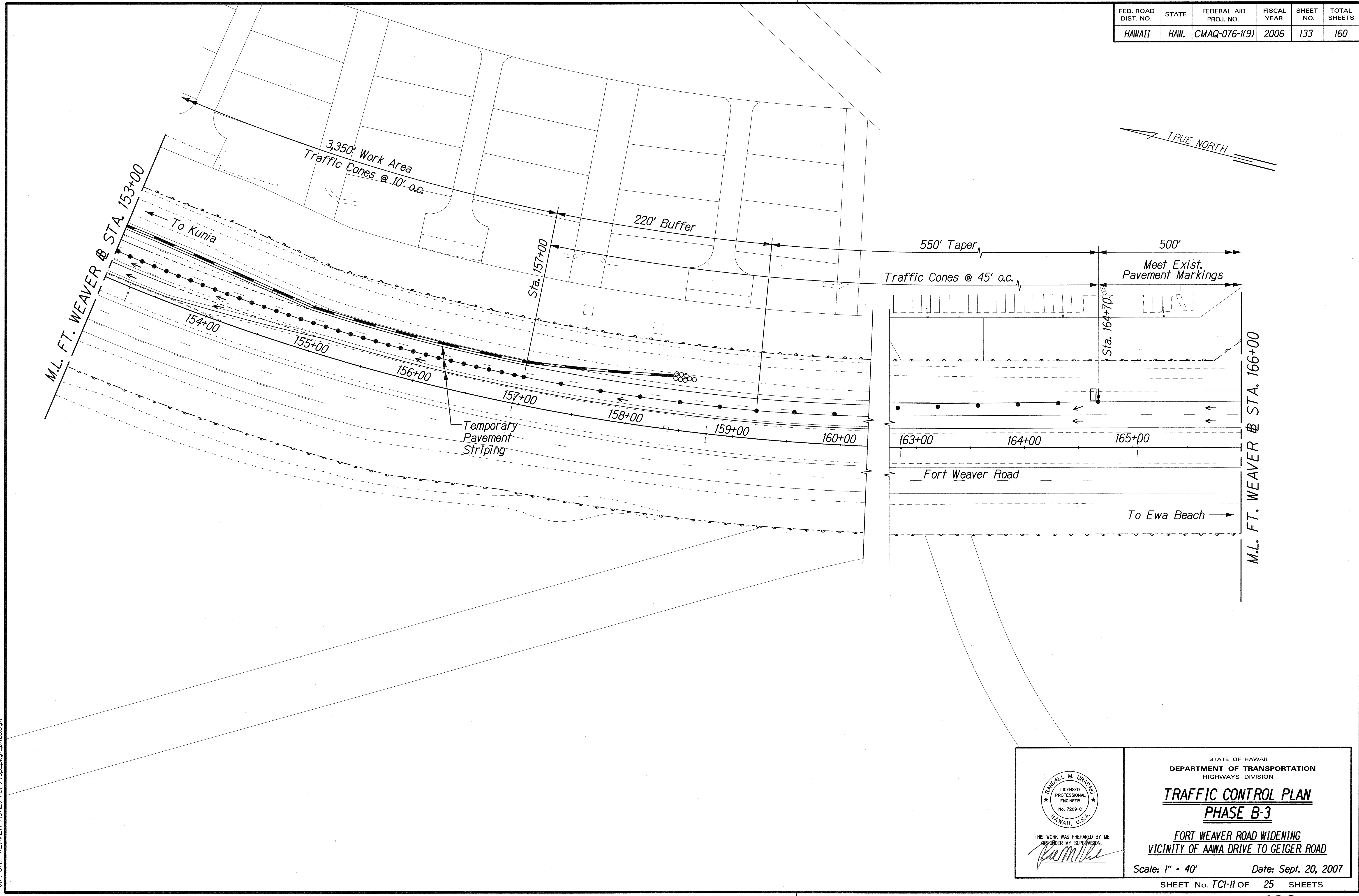
TRAFFIC CONTROL PLAN
PHASE B-2

FORT WEAVER ROAD WIDENING
VICINITY OF AWA DRIVE TO GEIGER ROAD

Scale: 1" = 40' Date: Sept. 20, 2007

SHEET No. TCI-10 OF 25 SHEETS

FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	CMAQ-076-1(9)	2006	133	160



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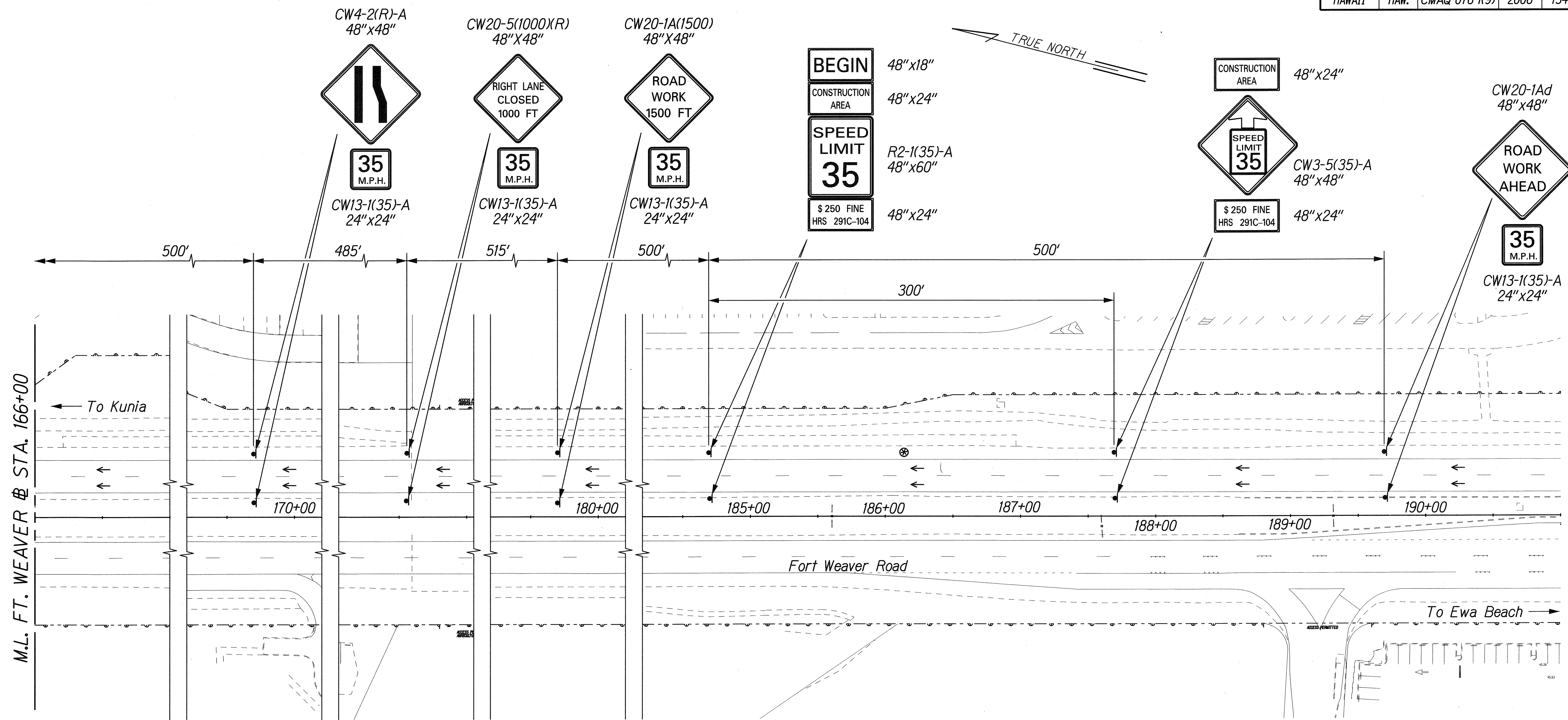
STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

TRAFFIC CONTROL PLAN
PHASE B-3

FORT WEAVER ROAD WIDENING
VICINITY OF AAWA DRIVE TO GEIGER ROAD

Scale: 1" = 40' Date: Sept. 20, 2007

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HAWAII	HAW.	CMAQ-076-1(9)	2006	134	160



ORIGINAL PLAN	DATE
NOTED BY	DATE
DESIGNED BY	DATE
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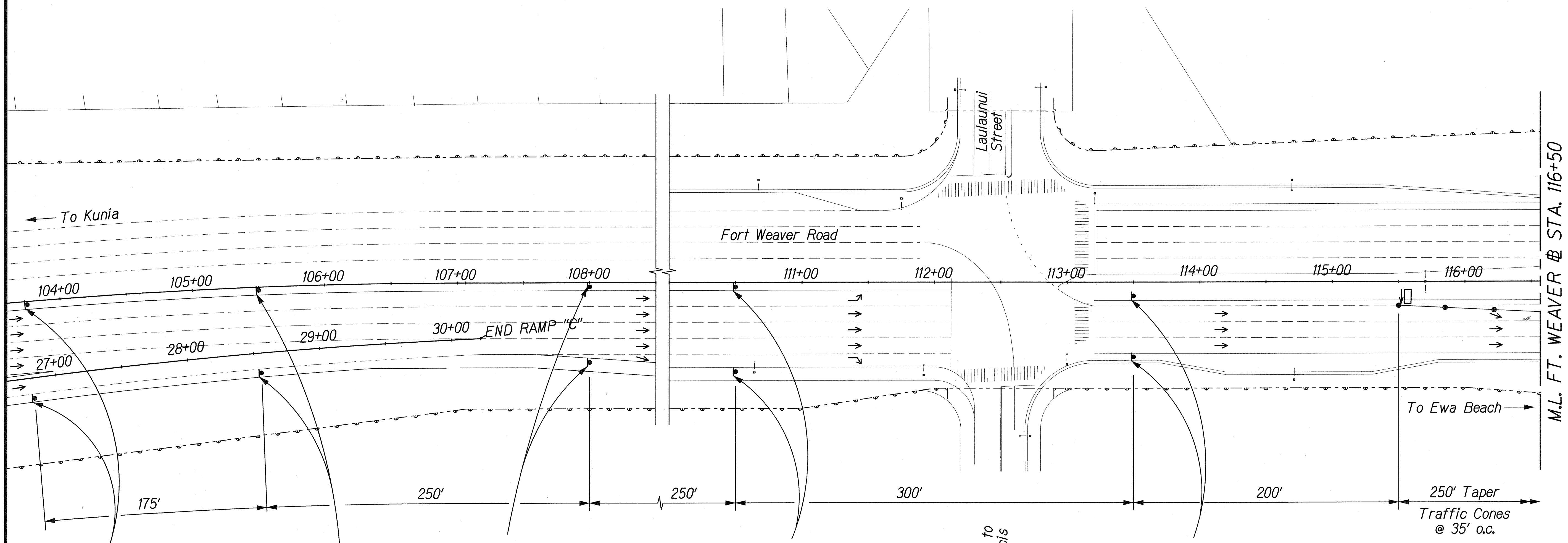
STATE OF HAWAII
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HIGHWAYS DIVISION

**TRAFFIC CONTROL PLAN
PHASE B-4**


FORT WEAVER ROAD WIDENING
VICINITY OF AWA DRIVE TO GEIGER ROAD

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HAWAII	HAW.	CMAQ-076-1(9)	2006	135	160




CONSTRUCTION AREA 24"x12"

 CW3-5(25)-A 36"x36"

\$ 250 FINE HRS 291C-104 24"x12"

BEGIN 24"x12"

CONSTRUCTION AREA 24"x12"

 R2-1(25) 24"x30"

\$ 250 FINE HRS 291C-104 24"x12"

CW20-1A(750) 48"x48"

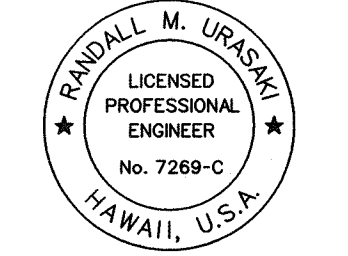
 25 M.P.H. CW13-1(25)-A 24"x24"

CW20-5(500XL) 48"x48"

 25 M.P.H. CW13-1(25)-A 24"x24"

CW4-2(L)-A 48"x48"

 25 M.P.H. CW13-1(25)-A 24"x24"



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DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

TRAFFIC CONTROL PLAN
PHASE C-1

FORT WEAVER ROAD WIDENING
VICINITY OF AAWA DRIVE TO GEIGER ROAD

Scale: 1" = 40' Date: Sept. 20, 2007

SHEET No. TCI-13 OF 25 SHEETS

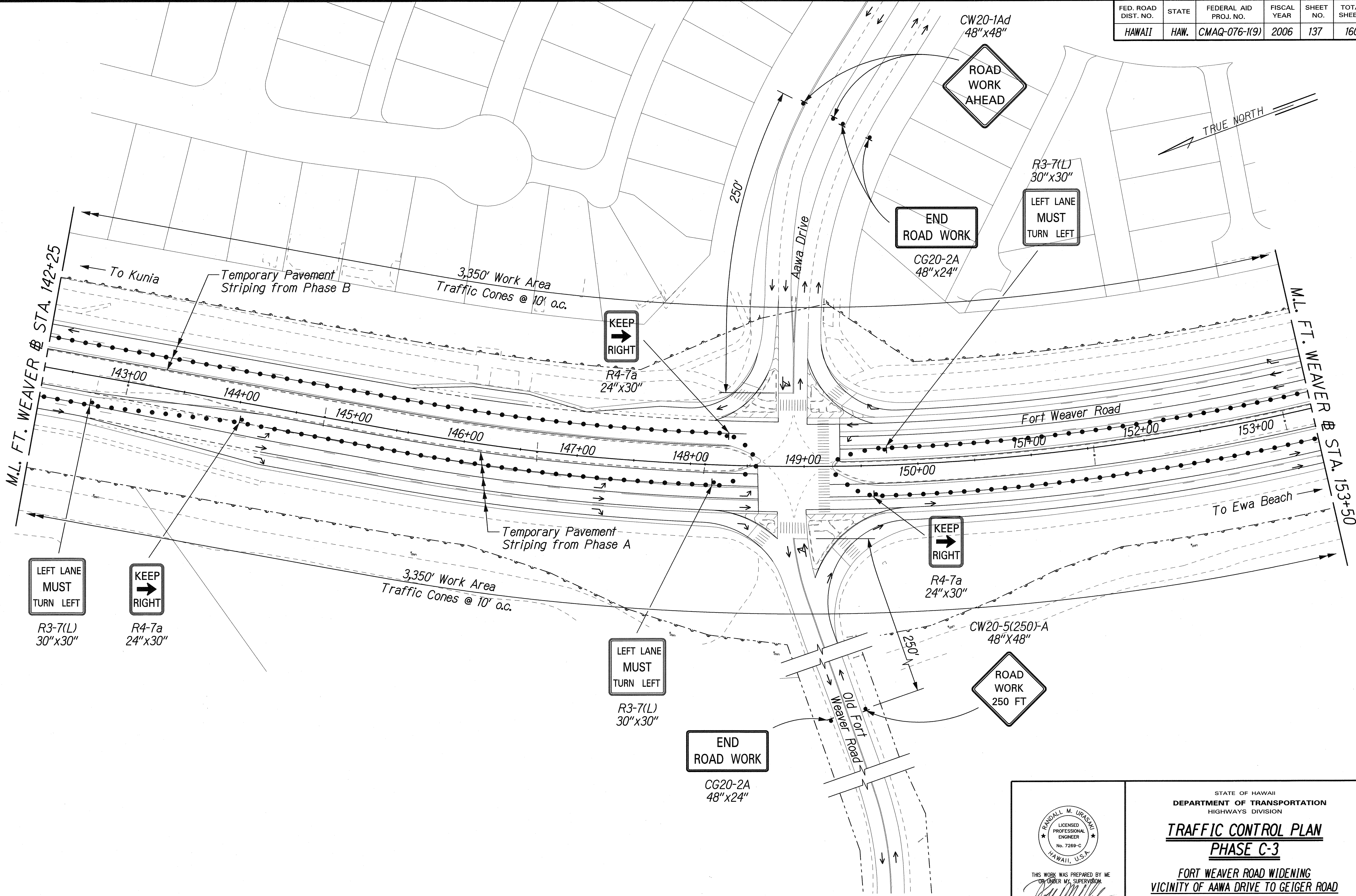
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NOTE BOOK	DRAWN BY	
QUANTITIES BY	DESIGNED BY	
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FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	CMAQ-076-K9)	2006	137	160

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HIGHWAYS DIVISION

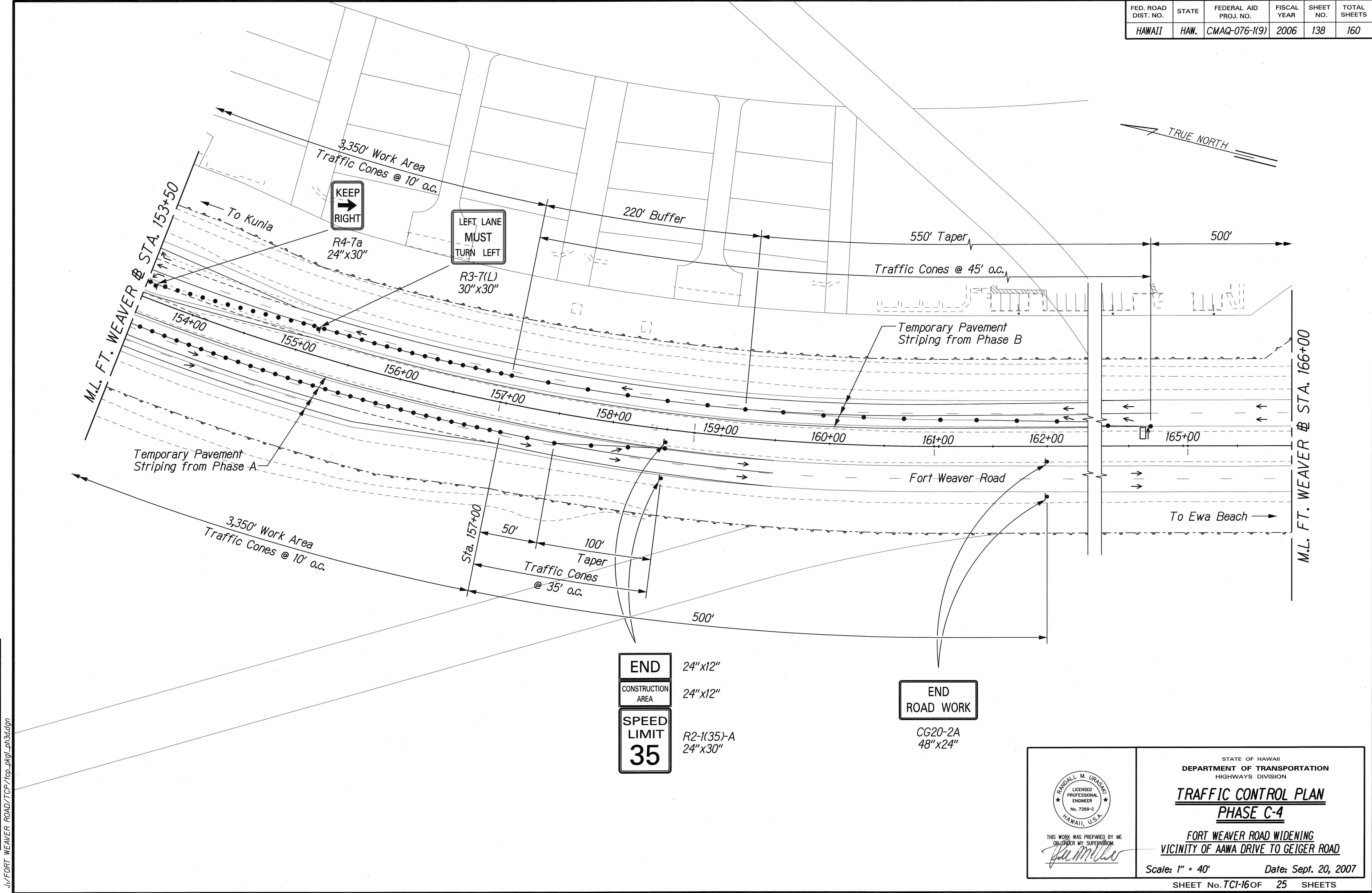
TRAFFIC CONTROL PLAN
PHASE C-3

FORT WEAVER ROAD WIDENING
VICINITY OF AAWA DRIVE TO GEIGER ROAD

Scale: 1" = 40' Date: Sept. 20, 2007

SHEET No. TCI-15 OF 25 SHEETS

FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
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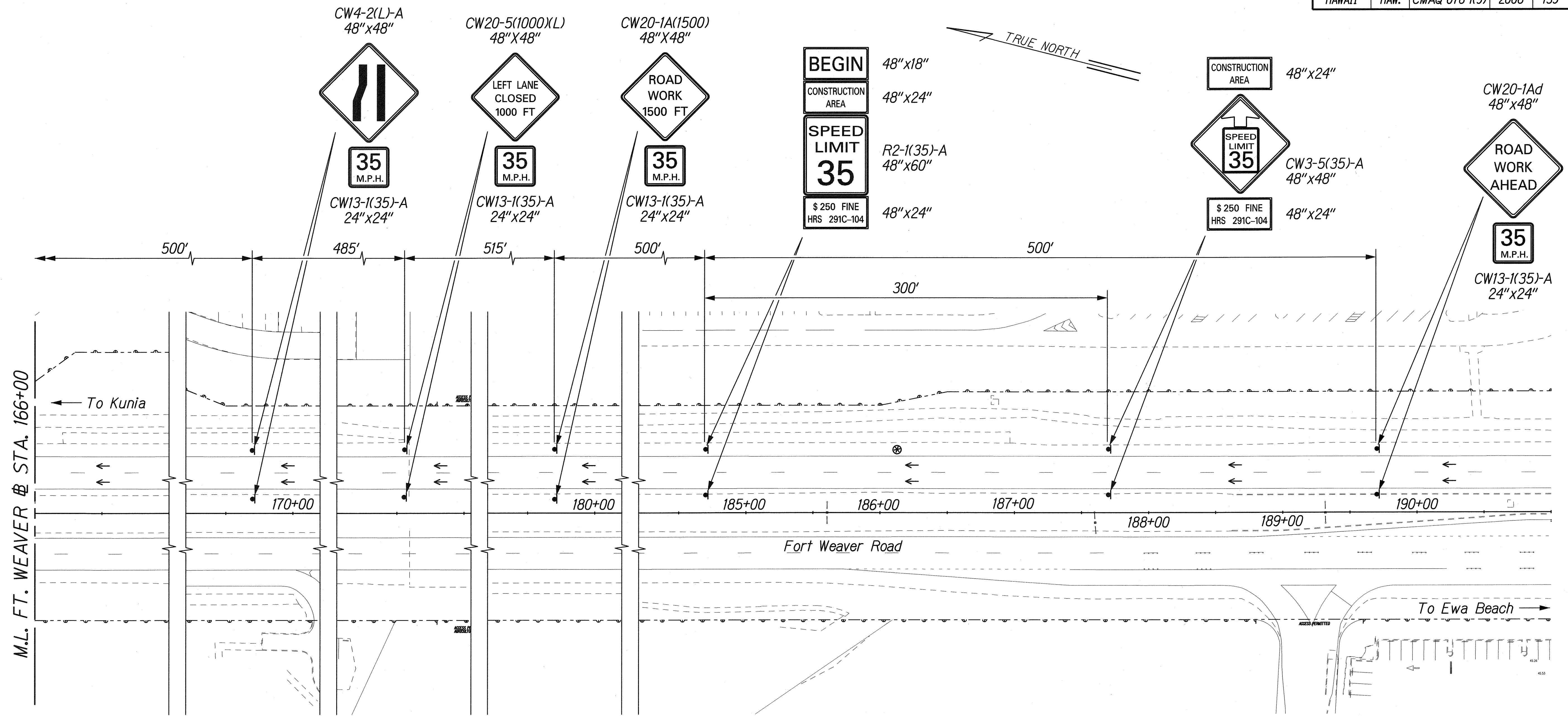
**TRAFFIC CONTROL PLAN
PHASE C-4**

**FORT WEAVER ROAD WIDENING
VICINITY OF AWA DRIVE TO GEIGER ROAD**

Scale: 1" = 40' Date: Sept. 20, 2007

SHEET No. TCI-16 OF 25 SHEETS

FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	CMAQ-076-1(9)	2006	139	160



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

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R. Urasky

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

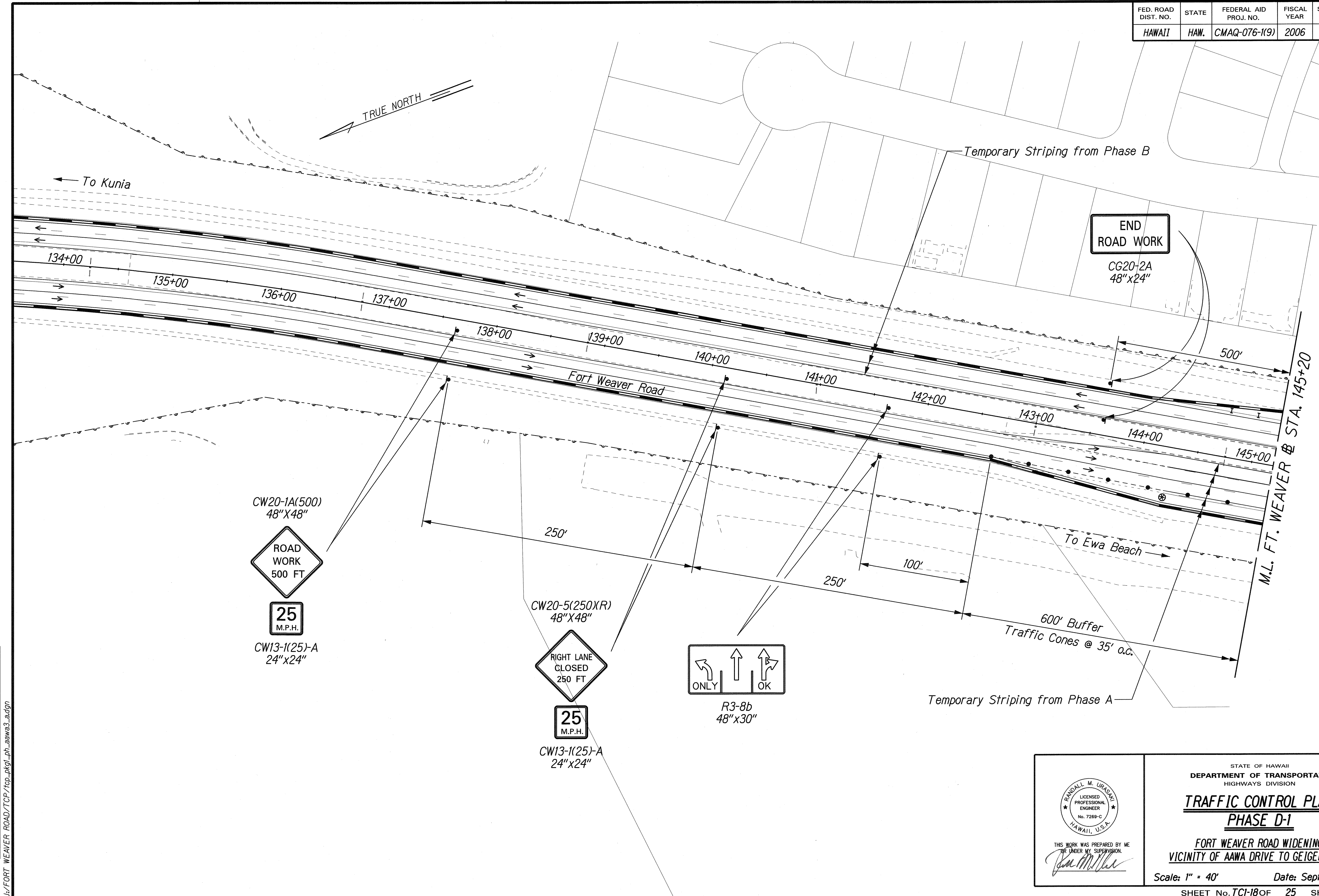
TRAFFIC CONTROL PLAN
PHASE C-5

FORT WEAVER ROAD WIDENING
VICINITY OF AWA DRIVE TO GEIGER ROAD

Scale: 1" = 40' Date: Sept. 20, 2007

SHEET No. TCI-17 OF 25 SHEETS

FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	CMAQ-076-1(19)	2006	140	160



ORIGINAL PLAN	DATE
NOTED BY	DATE
DESIGNED BY	DATE
CHECKED BY	DATE

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DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

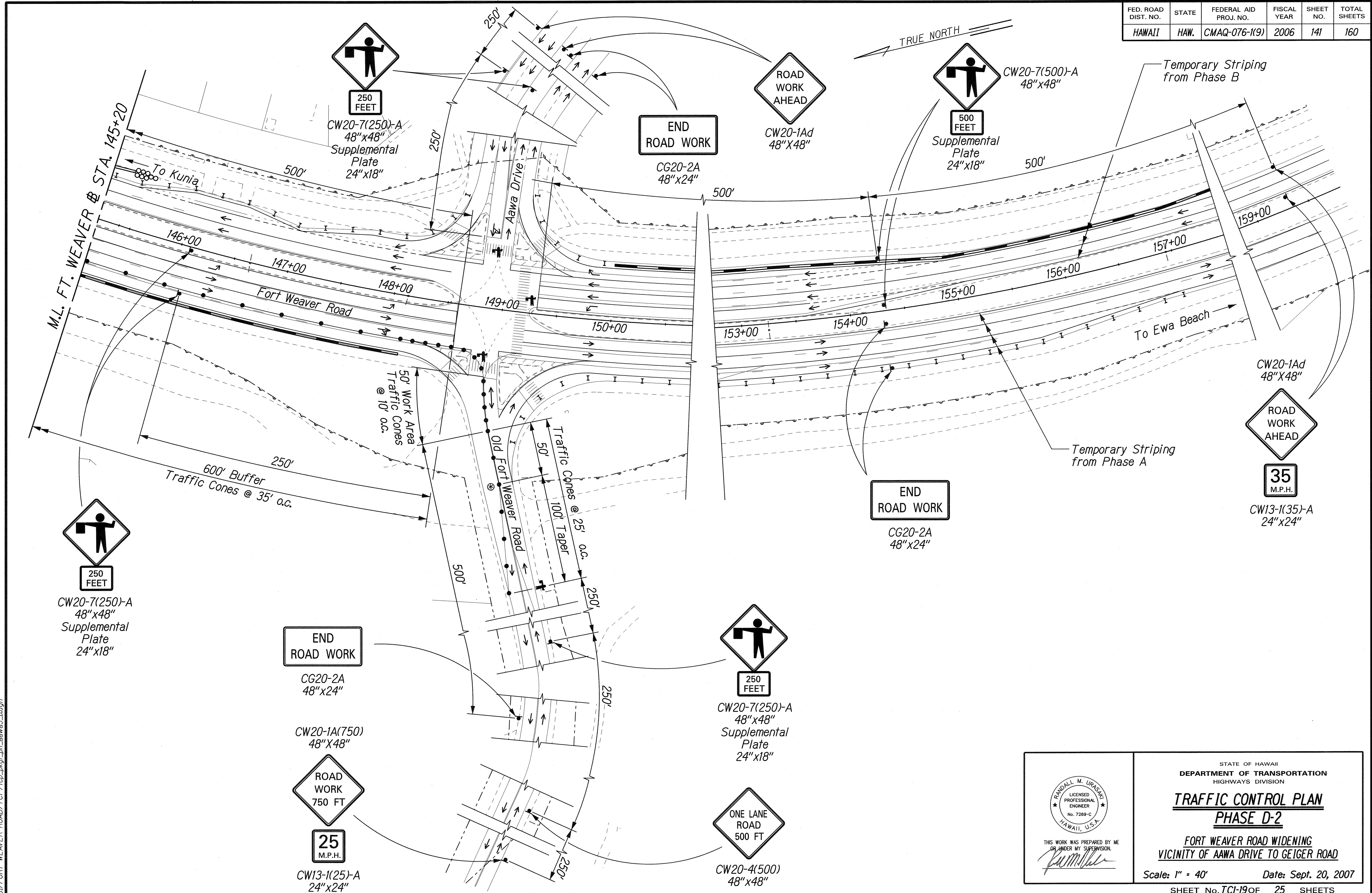
TRAFFIC CONTROL PLAN
PHASE D-1

FORT WEAVER ROAD WIDENING
VICINITY OF AAWA DRIVE TO GEIGER ROAD

Scale: 1" = 40' Date: Sept. 20, 2007

SHEET No. TCI-18 OF 25 SHEETS

FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	CMAQ-076-1(9)	2006	141	160



ORIGINAL PLAN	DATE
DESIGNED BY	
NOTED BY	
CHECKED BY	

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R. Urasak

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

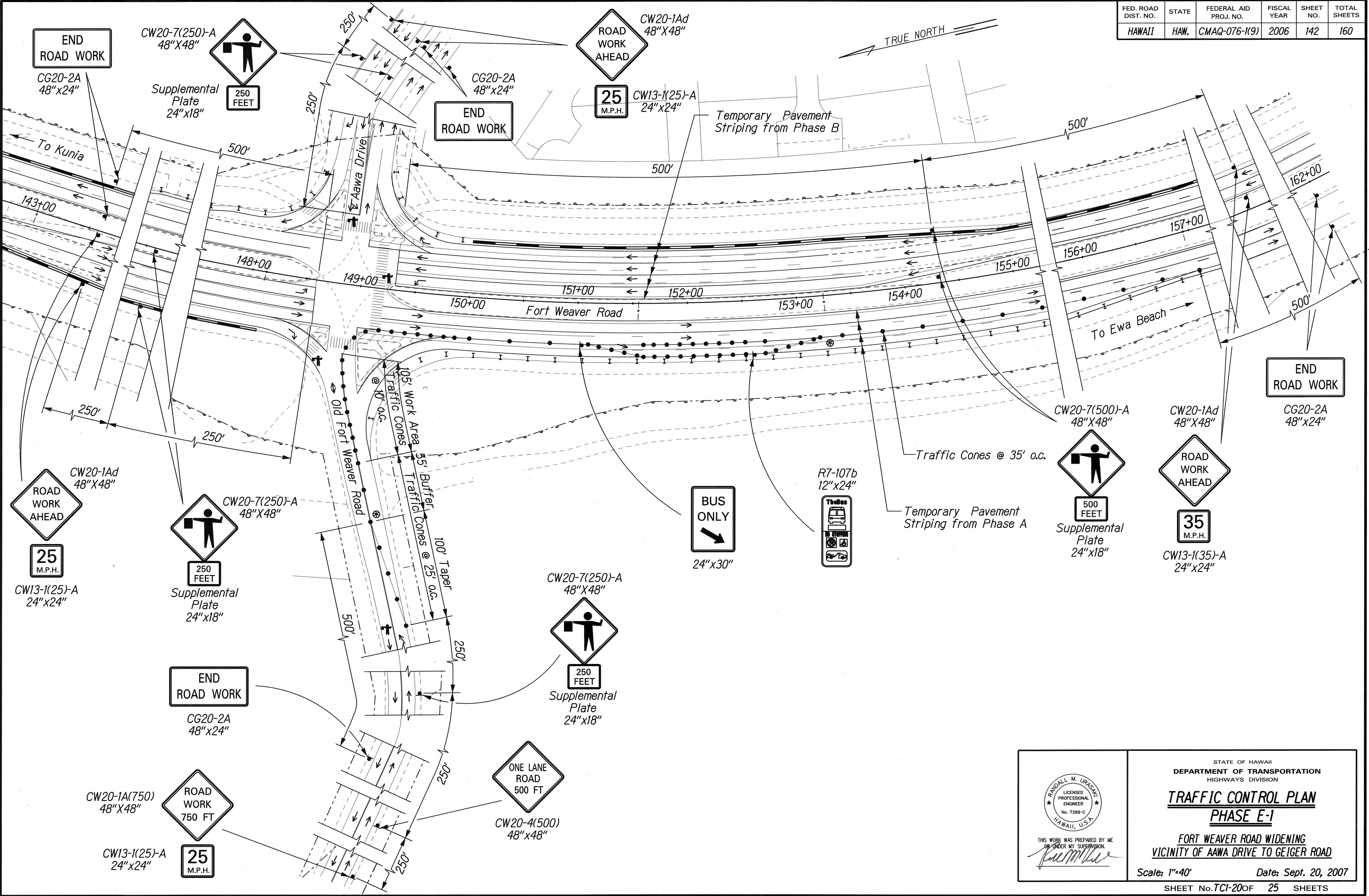
TRAFFIC CONTROL PLAN
PHASE D-2

FORT WEAVER ROAD WIDENING
VICINITY OF AWA DRIVE TO GEIGER ROAD

Scale: 1" = 40' Date: Sept. 20, 2007

SHEET No. TCI-19 OF 25 SHEETS

FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	CMAQ-076-1(9)	2006	142	160



DATE	_____
DESIGNED BY	_____
TRACED BY	_____
NOTE BOOK	_____
QUANTITIES BY	_____
CHECKED BY	_____
IN	_____

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DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

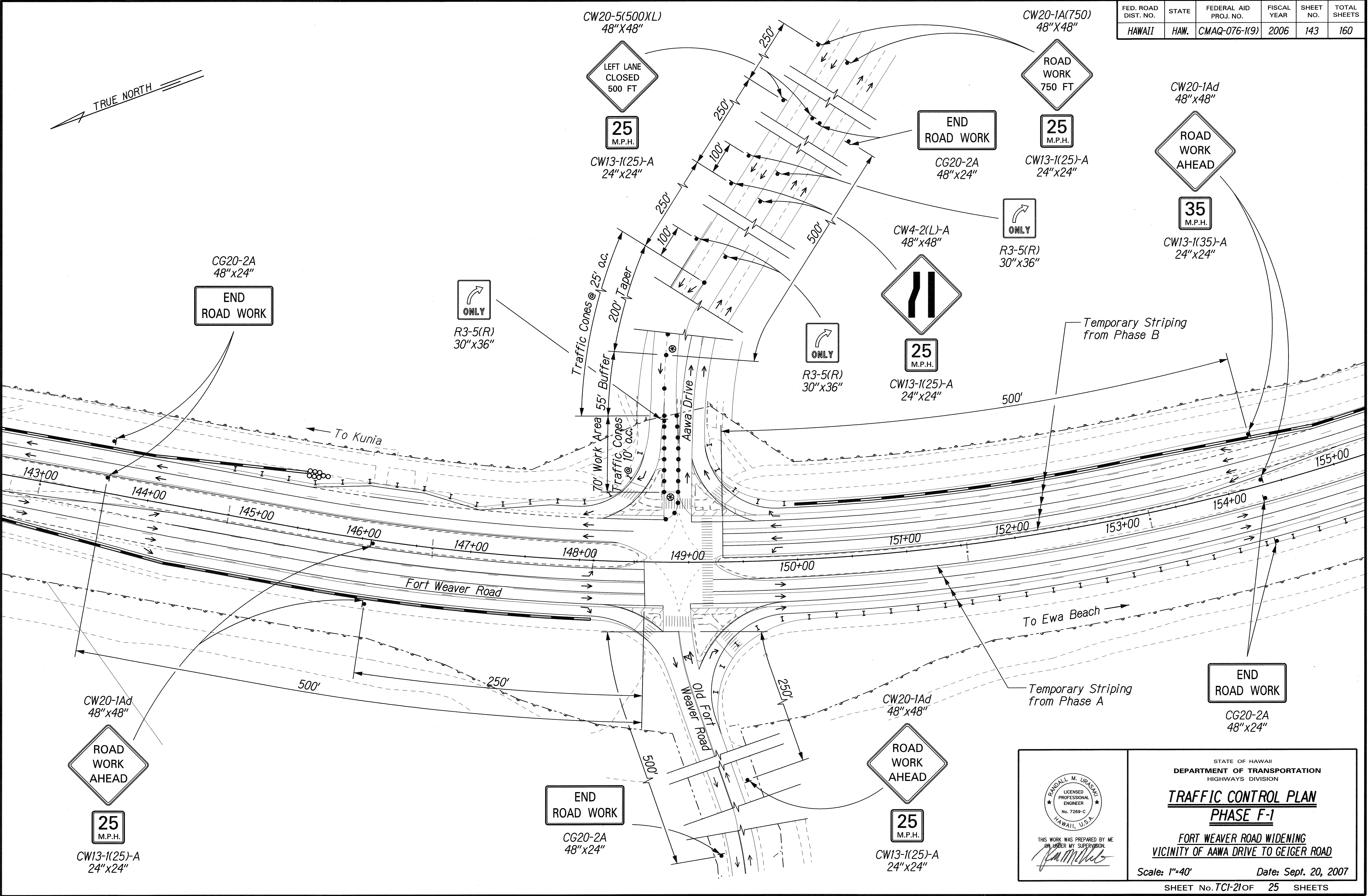
**TRAFFIC CONTROL PLAN
PHASE E-1**

FORT WEAVER ROAD WIDENING
VICINITY OF AWA DRIVE TO GEIGER ROAD

Scale: 1"=40' Date: Sept. 20, 2007

SHEET No. TCI-20 of 25 SHEETS

FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	CMAQ-076-1(9)	2006	143	160



DATE	_____
DESIGNED BY	_____
TRACED BY	_____
NOTE BOOK	_____
QUANTITIES BY	_____
CHECKED BY	_____
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HIGHWAYS DIVISION

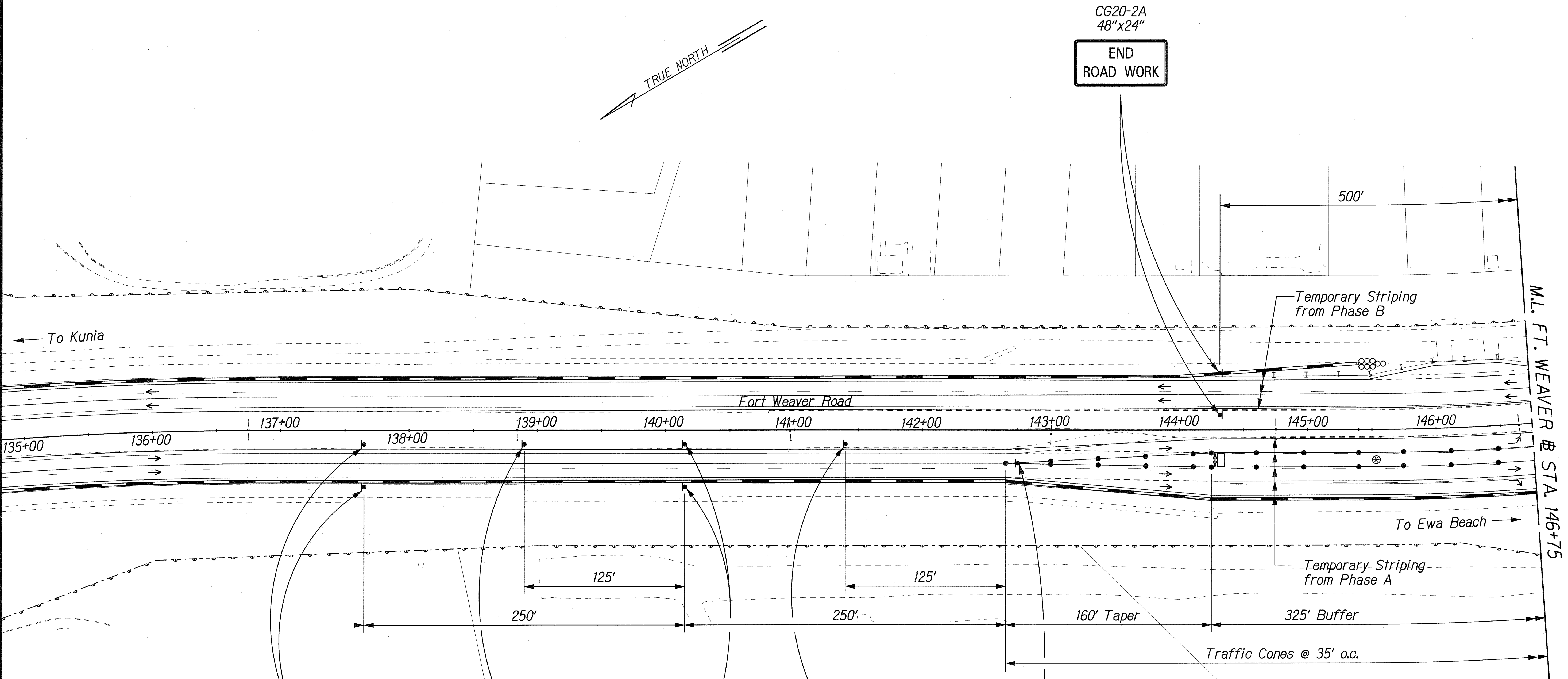
TRAFFIC CONTROL PLAN
PHASE F-1

FORT WEAVER ROAD WIDENING
VICINITY OF AAWA DRIVE TO GEIGER ROAD

Scale: 1"=40' Date: Sept. 20, 2007

SHEET No. TCI-21 OF 25 SHEETS

FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	CMAQ-076-1(9)	2006	145	160



DESIGNED BY	DATE
DRAWN BY	
CHECKED BY	
NOTED BY	
QUANTITIES BY	
IN CHARGE	

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CW20-1A(500)
48"x48"

 25
M.P.H.
 CW13-1(25)-A
24"x24"

LEFT LANE
MUST
TURN LEFT
 R3-7(L)
30"x30"

CW9-3
48"x48"

 25
M.P.H.
 CW13-1(25)-A
24"x24"

LEFT LANE
MUST
TURN LEFT
 R3-7(L)
30"x30"

CW12-1
24"x24"

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HIGHWAYS DIVISION

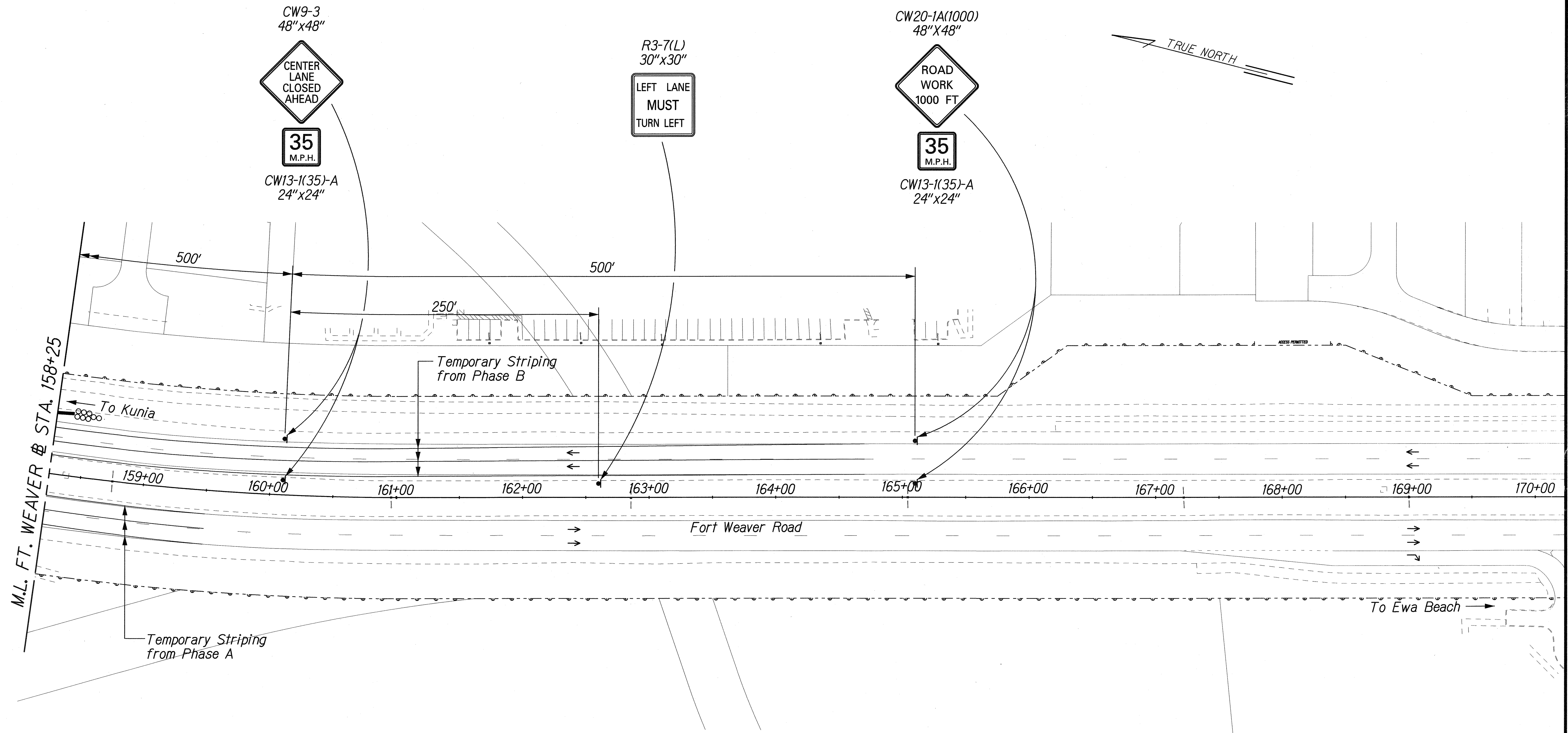
TRAFFIC CONTROL PLAN
PHASE H-1

FORT WEAVER ROAD WIDENING
VICINITY OF AAWA DRIVE TO GEIGER ROAD

Scale: 1" = 40' Date: Sept. 20, 2007

SHEET No. TCI-23 OF 25 SHEETS

FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	CMAQ-076-1(9)	2006	147	160



ORIGINAL PLAN	DATE
NOTED BY	DATE
DESIGNED BY	DATE
CHECKED BY	DATE

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R. Urasak

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

TRAFFIC CONTROL PLAN
PHASE H-3

FORT WEAVER ROAD WIDENING
VICINITY OF AAWA DRIVE TO GEIGER ROAD

Scale: 1" = 40' Date: Sept. 20, 2007

SHEET No. TCI-25 OF 25 SHEETS