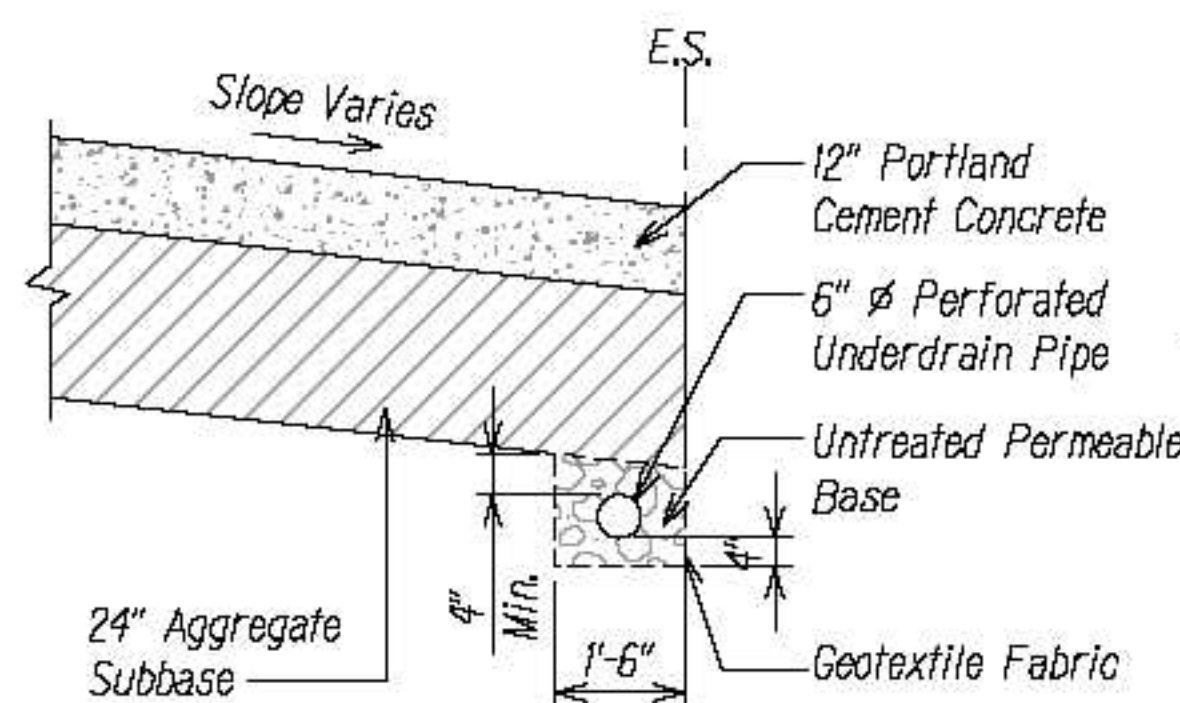


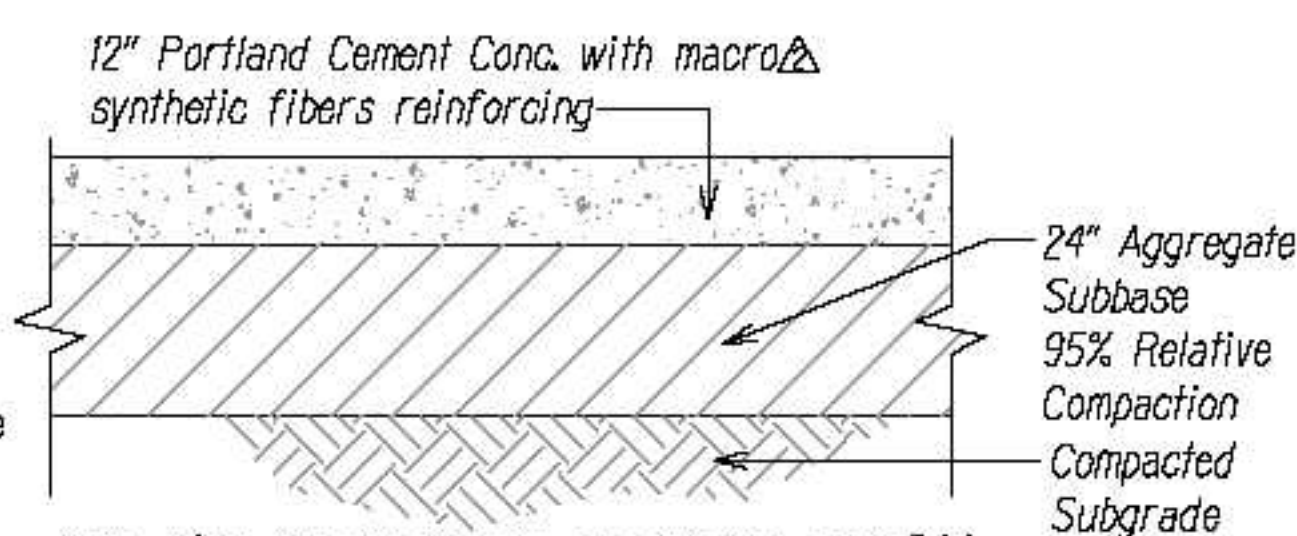
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
1-HAWAII	HAW.	NH-HI-K2711	2022	ADD. 13	167



UNDERDRAIN DETAIL

Scale: 1/2" = 1'-0"

1
T-13

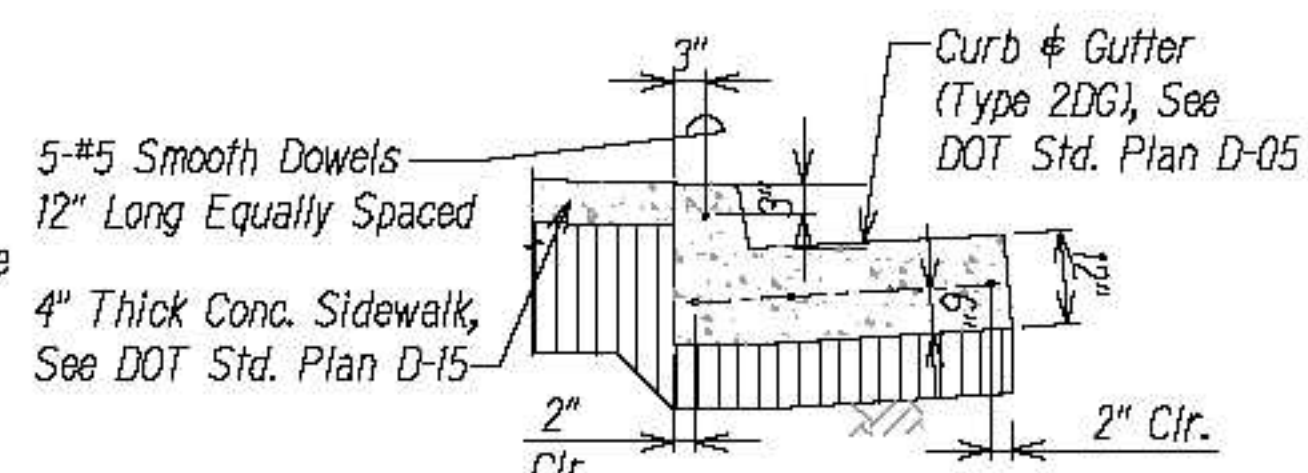


Note: After the grinding is completed to meet PCC smoothness criteria, all ramps with a horizontal curve shall be regrooved to restore the original longitudinal tining (depth and width of groove, spacing of the groove, etc.)

PAVEMENT DETAIL

Scale: 1/2" = 1'-0"

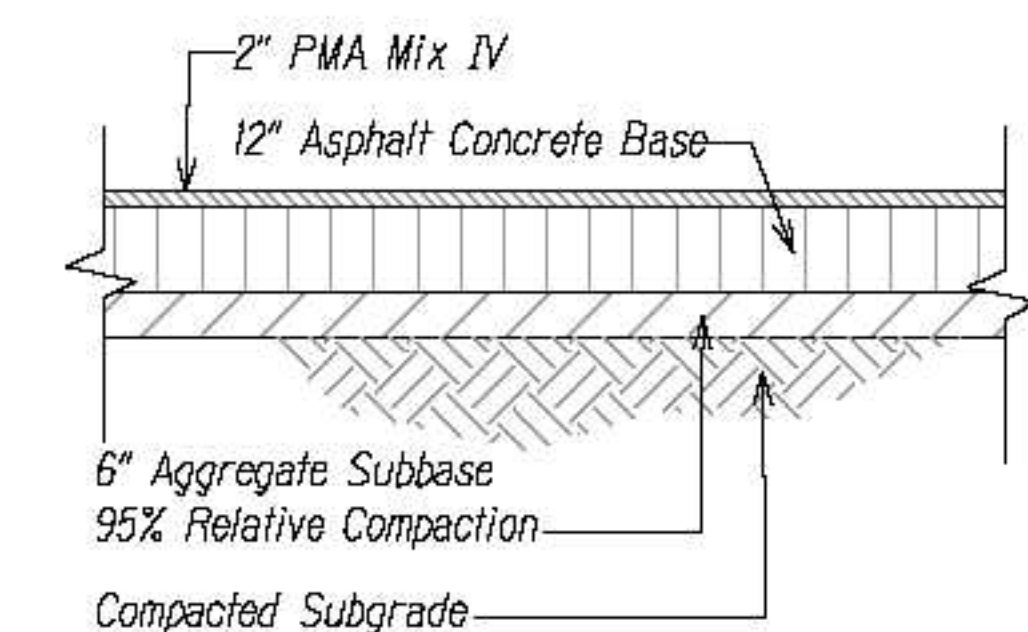
2
T-13



CONC. CURB & GUTTER CONN. DETAIL

Scale: 3/4" = 1'-0"

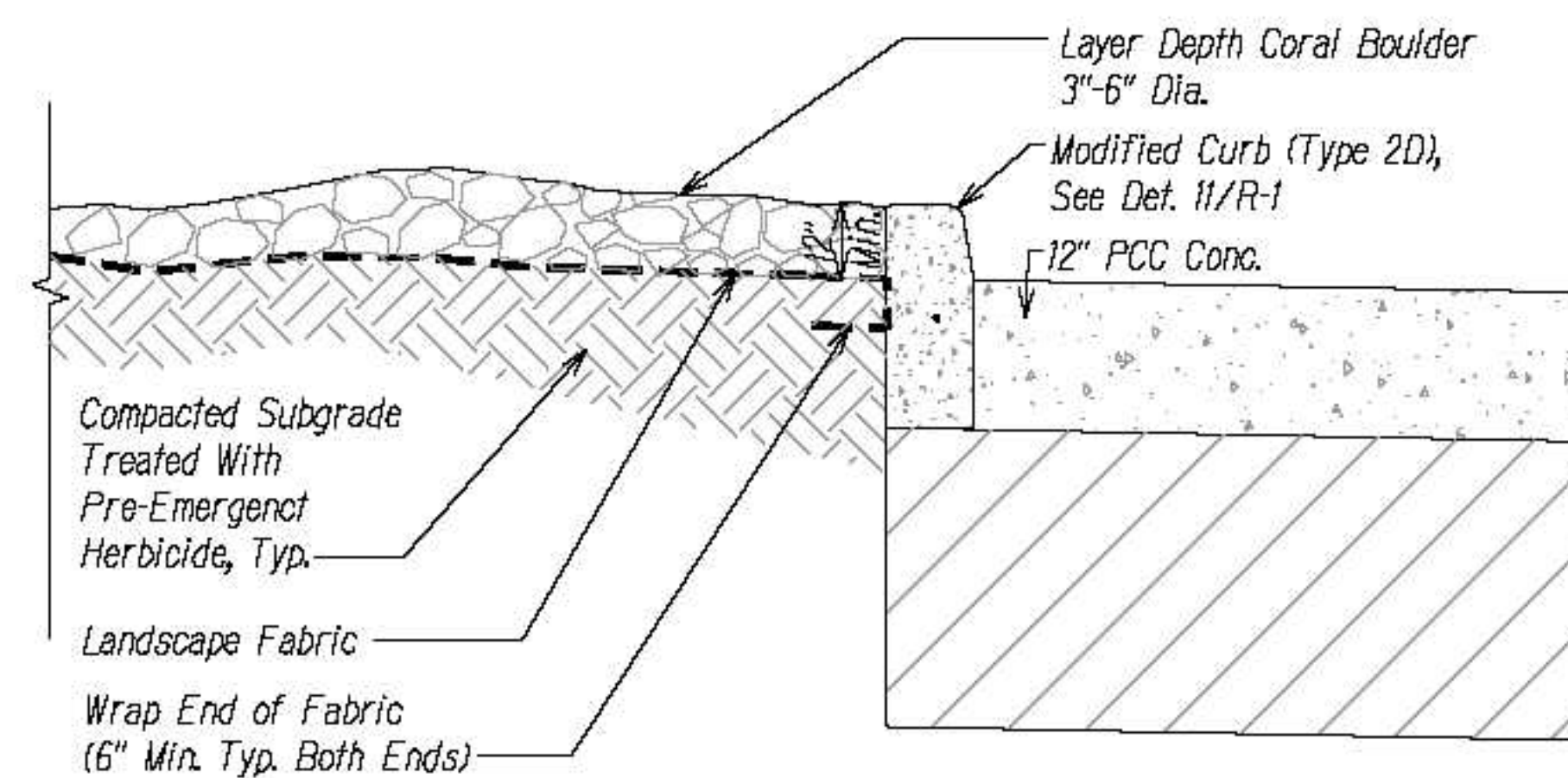
3
T-13



A.C. PAVEMENT DETAIL

Scale: 1/2" = 1'-0"

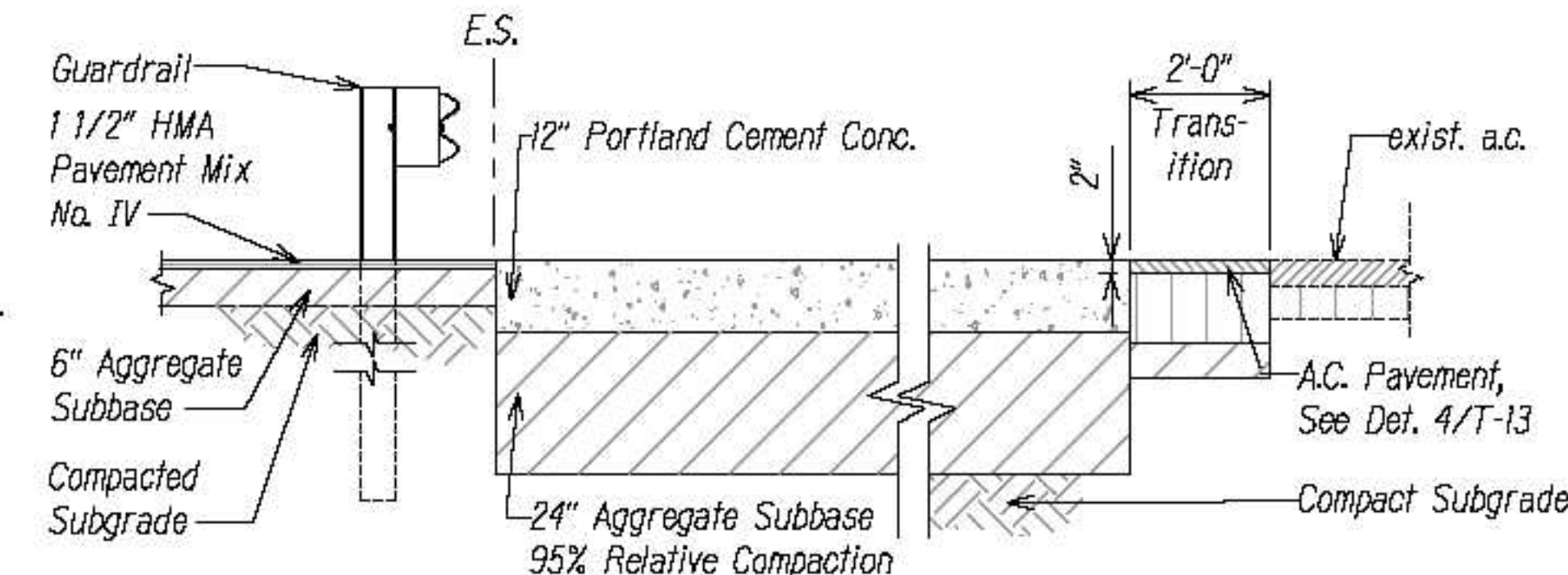
4
T-13



CORAL BOULDER IN MEDIAN DETAIL

Scale: 1" = 1'-0"

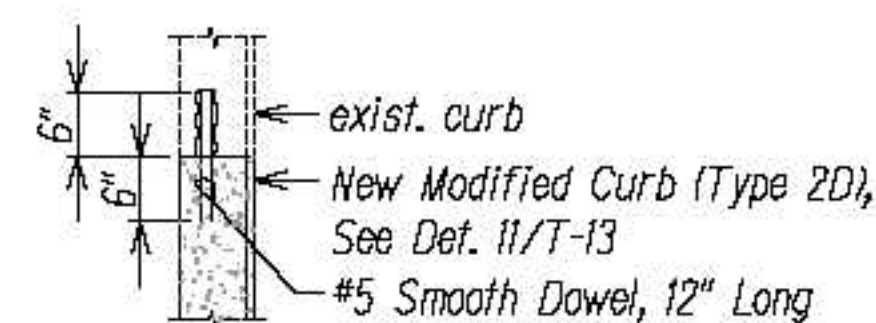
5
T-13



A.C. PAVEMENT CONNECTION DETAIL

Scale: 1/2" = 1'-0"

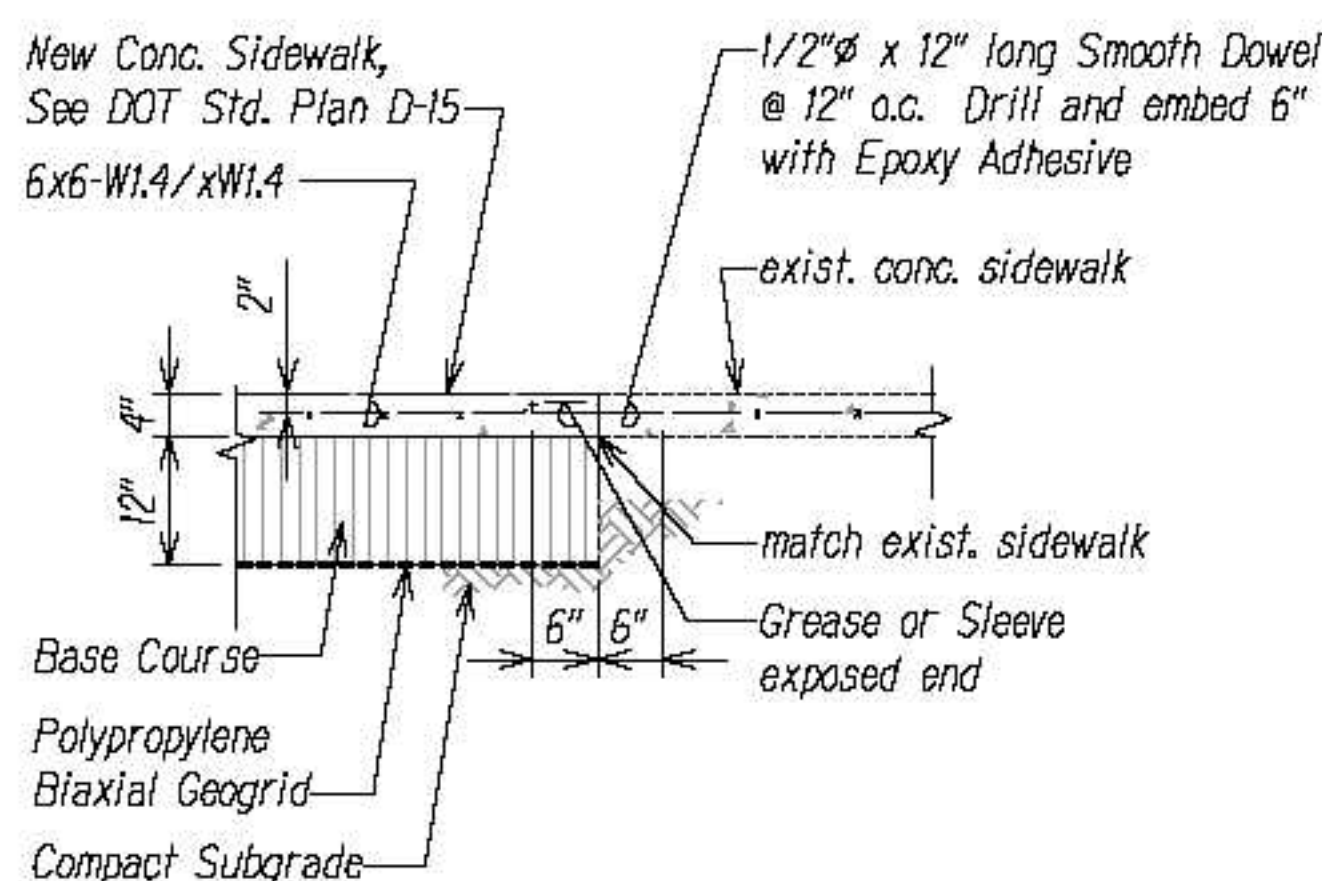
6
T-13



CONC. CURB CONN. DETAIL

Scale: 3/4" = 1'-0"

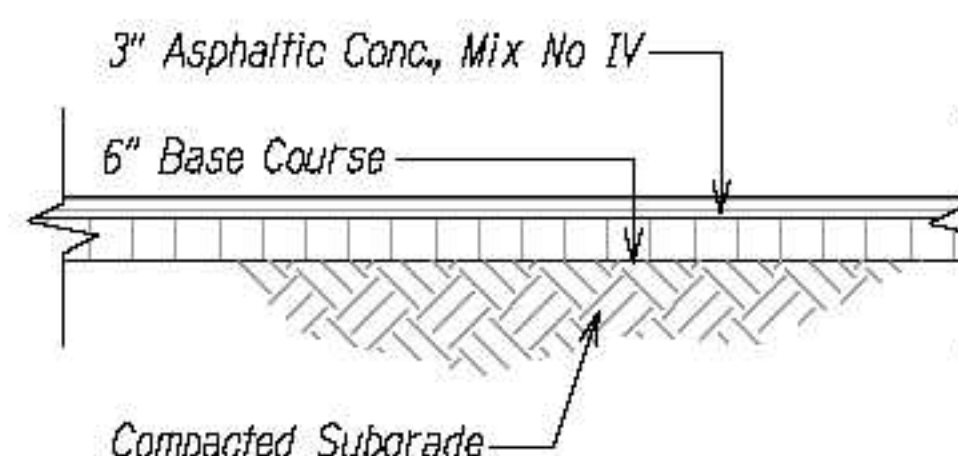
7
T-13



CONN. TO EXIST. CONC. SIDEWALK DETAIL

Scale: 3/4" = 1'-0"

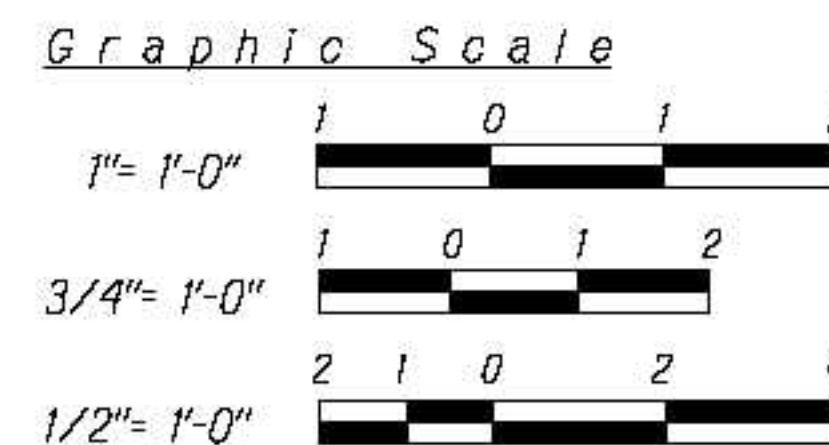
8
T-13



A.C. PAVEMENT DETAIL FOR ACCESS ROADS

Scale: 1/2" = 1'-0"

9
T-13



Chris Ball
NOTES: Designer/Preparer and only
Responsible for this drawing and its use.

DATE	REVISION
12/6/2022	Added Macro-Synthetic fibers
11/17/2022	Revised Title of detail 9/T-13

STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION	
PAVEMENT DETAILS 1	
INTERSTATE ROUTE H-1 ADDITION AND MODIFICATION OF FREEWAY ACCESS (Kapaemahu Interchange Complex) Phase 3 Federal Aid Project No. NH-HI-K2711	
Scale: As Shown	Date: August 2022
SHEET No. T-13 OF 167 SHEETS	

(01) # Harbor Access Road Sta. 6+99.43
 Offset: 38.00' Lt.
 Begin Transverse Right Shoulder Marking
 See HDOT Standard Plans TE-27

(02) # Harbor Access Road Sta. 7+01.31
 Offset: 43.00' Lt.
 Begin Transverse Right Shoulder Marking
 See HDOT Standard Plans TE-27

(03) # Harbor Access Road Sta. 10+43.39
 Offset: 44.00' Lt.
 End Transverse Right Shoulder Marking

(04) # Harbor Access Road Sta. 10+47.37
 Offset: 14.54' Lt.
 Begin Type C RPM, Continue Spacing at
 40' o.c. from Existing Type C RPM

(05) # Harbor Access Road Sta. 13+67.90
 Offset: 38.00' Lt.
 End Transverse Right Shoulder Marking
 6" White Edge Stripe
 Continue Type C RPM at 40' o.c.

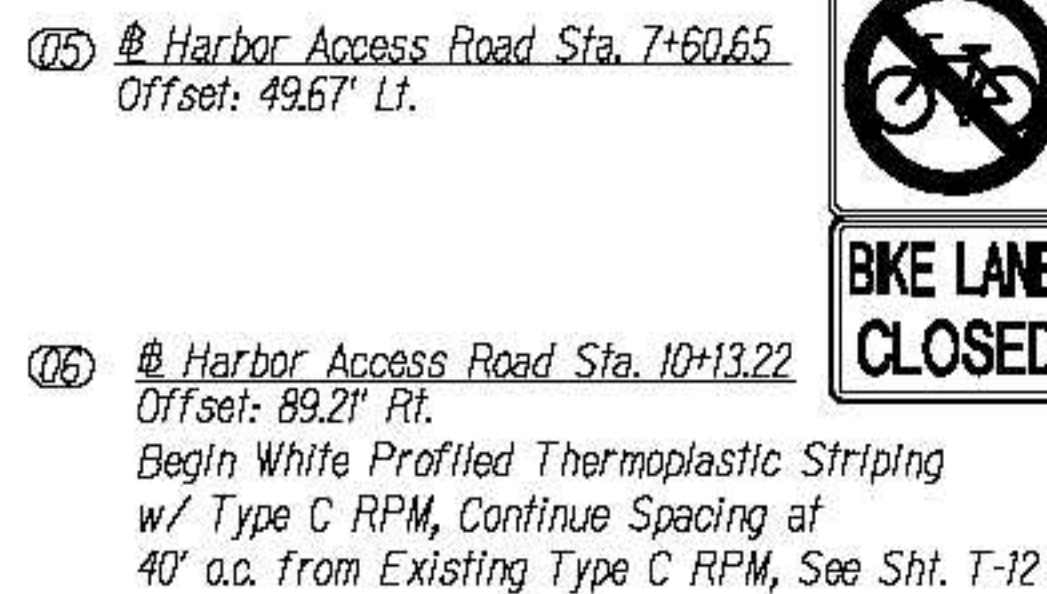
(06) # Harbor Access Road Sta. 14+58.59
 Offset: 14.00' Lt.
 Begin 6" Yellow Edge Stripe Conn.
 to exist. Yellow Edge Stripe
 Continue Type H RPM at 40' o.c.

(07) # Harbor Access Road Sta. 14+00.00

(17) # Harbor Access Road Sta. 17+98.93
 Offset: 20.00' Lt.
 End White Profiled Thermoplastic Striping w/Type C RPM
 Begin 8" White Stripe w/Type
 C RPM at 20' o.c. along EP.

Limits of Construction ————
 10' Long 4" Wide White

355.00'



(107) # Harbor Access Road Sta. 10+94.24
Offset: 108.69' Rt.
Begin Type H RPM, Continue Spacing at
40' a.c. from Existing Type D RPM

(08) # Harbor Access Road Sta. 11+15.37
Offset: 143.12' Rt.
Begin Transverse Right Shoulder Marking
See HDOT Standard Plans TE-27

(12) # Harbor Access Road Sta. 13+65.38
Offset: 119.12' Rt.
6" Yellow Edge Stripe w/Type H RPM at 40' o.c.
Conn. to exist. 4" yellow stripe

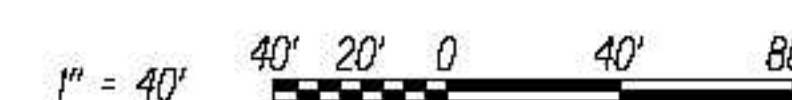
⑬ # Harbor Access Road Sta. 14+65.73
Offset: 117.17' Rt.

Curve Data						
Curve #	Δ	$\Delta/2$	R	C	L_c	T
C1	5° 10' 48"	2° 35' 24"	640.68'	57.92'	57.90'	28.98'
C2	4° 46' 37"	2° 23' 18"	638.11'	53.20'	53.19'	26.62'
C3	17° 56' 43"	8° 58' 21"	625.00'	195.75'	194.95'	98.68'

HARBOR ACCESS ROAD PLAN STA. 6+99 - 17+98.93

Scale: 1" = 40'

Graphic Scale



This work was prepared in part under the sponsorship of the U.S. Army Research Office-Durham.

Chair B-H

DATE: 11/11/11

NOTE: Charges by product and weight.

- Limits of Construction
- - - - - Property Line
- ===== Guardrail
- ===== Temporary Plastic Barrier

- ① Install New Sign(s) w/ Post(s)
- ② Install New Sign(s) w/ 2 Posts

Note:-

1. All ground mounted signs to use square tube posts, see HDOT Standard Plans TE-01, TE-02A, TE-03A, TE-03B (Stiff Clay), w/ Reflector Marker RM-3 on posts, see TE-14.

△	12/6/2022	Revised Reduction Arrow Spacing
△	11/17/2022	Removed Road Closed Sign
	DATE	REVISION

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

SIGNAGE AND STRIPING PLAN 1

INTERSTATE ROUTE 4-1
ADDITION AND MODIFICATION OF FREEWAY ACCESS
(Knapel Interchange Complex), Phase 3
Federal Aid Project No. NH-HV-N270

Scale: As Noted Date: August 2022

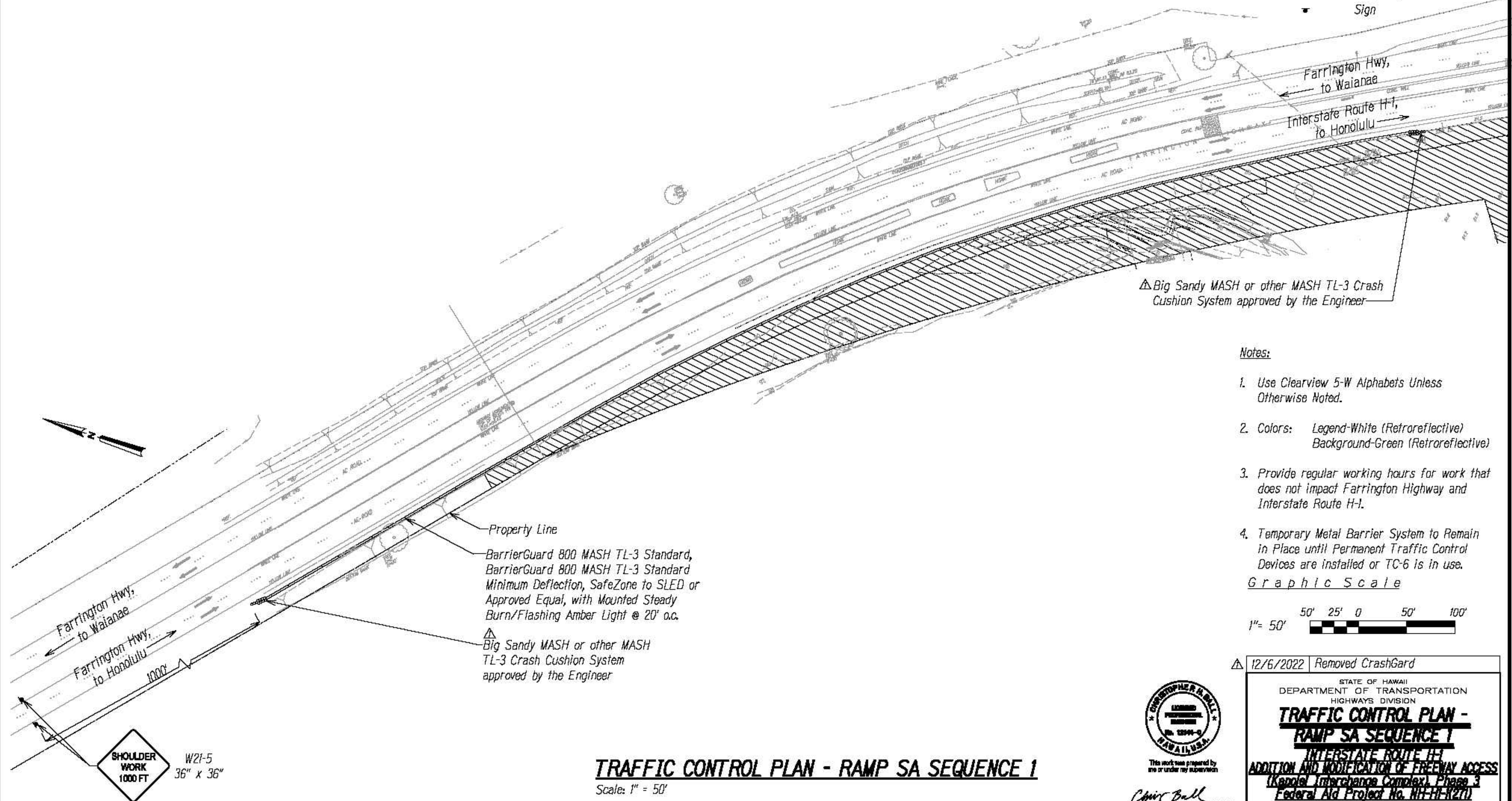
SHEET No. **D-2** OF **187** SHEETS

ORIGINAL PLAN	NOTES	DATE
	NOTED BY	
	TRACED BY	
	INDEXED BY	
	RECORDED BY	
	FILED BY	

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-HI-K2711	2022	ADD. 108	167

Legend

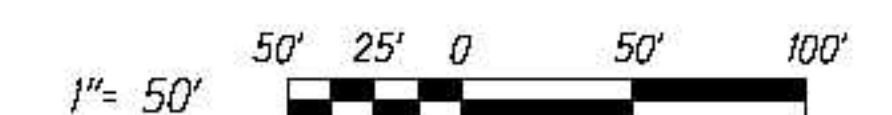
- Property Line
- Work Area
- Direction of Traffic
- Temporary Metal Barrier
- Sign



Notes:

- Use Clearview 5-W Alphabets Unless Otherwise Noted.
- Colors: Legend-White (Retroreflective)
Background-Green (Retroreflective)
- Provide regular working hours for work that does not impact Farrington Highway and Interstate Route H-1.
- Temporary Metal Barrier System to Remain in Place until Permanent Traffic Control Devices are installed or TC-6 is in use.

Graphic Scale



12/6/2022 Removed CrashGard



This work was prepared by me or under my supervision

Chris Ball
NTHS, MASH & RAMP CONTROL, INC.
DATE

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
**TRAFFIC CONTROL PLAN -
RAMP SA SEQUENCE 1**
INTERSTATE ROUTE H-1
ADDITION AND MODIFICATION OF FREEWAY ACCESS
(Kapehu Interchange Complex) Phase 3
Federal Aid Project No. NH-HI-K2711
Scale: As Noted Date: August 2022

SHEET No. **TC-3** OF **167** SHEETS

ADD. 108

DESIGNED BY	DATE
DRAWN BY	
CHECKED BY	
IN CHARGE	
APPROVED BY	

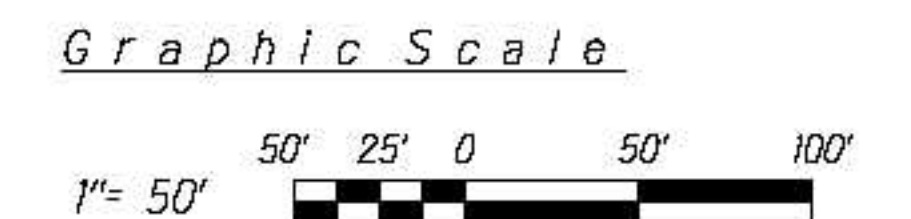
TRAFFIC CONTROL PLAN - RAMP SA SEQUENCE 1

Scale: 1" = 50'

Legend

	Work Area
	Traffic Cone
	Sign
	Exist. Direction of Traffic
	Proposed Direction of Traffic
	Flashing Arrow Sign
	Property Line
	Limits of Construction
	Temporary Metal Barrier

1. Use Clearview 5-W Alphabets Unless Otherwise Noted.
2. Colors: Legend-White (Retroreflective)
Background-Green (Retroreflective)
3. Provide regular working hours for work that does not impact Farrington Highway and Interstate Route H-I.
4. Provide Arrow Boards for each Lane Closure.



This work was prepared by

Chris Ball JOHNS
MITSUBISHI & MACHINERY, INC. EMP. DATA
NOTE: Company provided and verified

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

TRAFFIC CONTROL PLAN -
RAMP SA SEQUENCE 2
INTERSTATE ROUTE H1
ADDITION AND MODIFICATION OF FREEWAY ACCESS
(Kapolei Interchange Complex), Phase 3
Federal Aid Project No. HIF-H1-K271)

Scale: As Noted Date: August 2022

SHEET NO. **TC-6** OF **187** SHEETS

ORIGINAL		SURETY PLANTED BY _____ DATE _____
PLAN		ISSUED BY _____
NOTE BOOK		TEACHED BY _____
		INSTRUMENTED BY _____
		QUANTITIES BY _____
		CHECKED BY _____

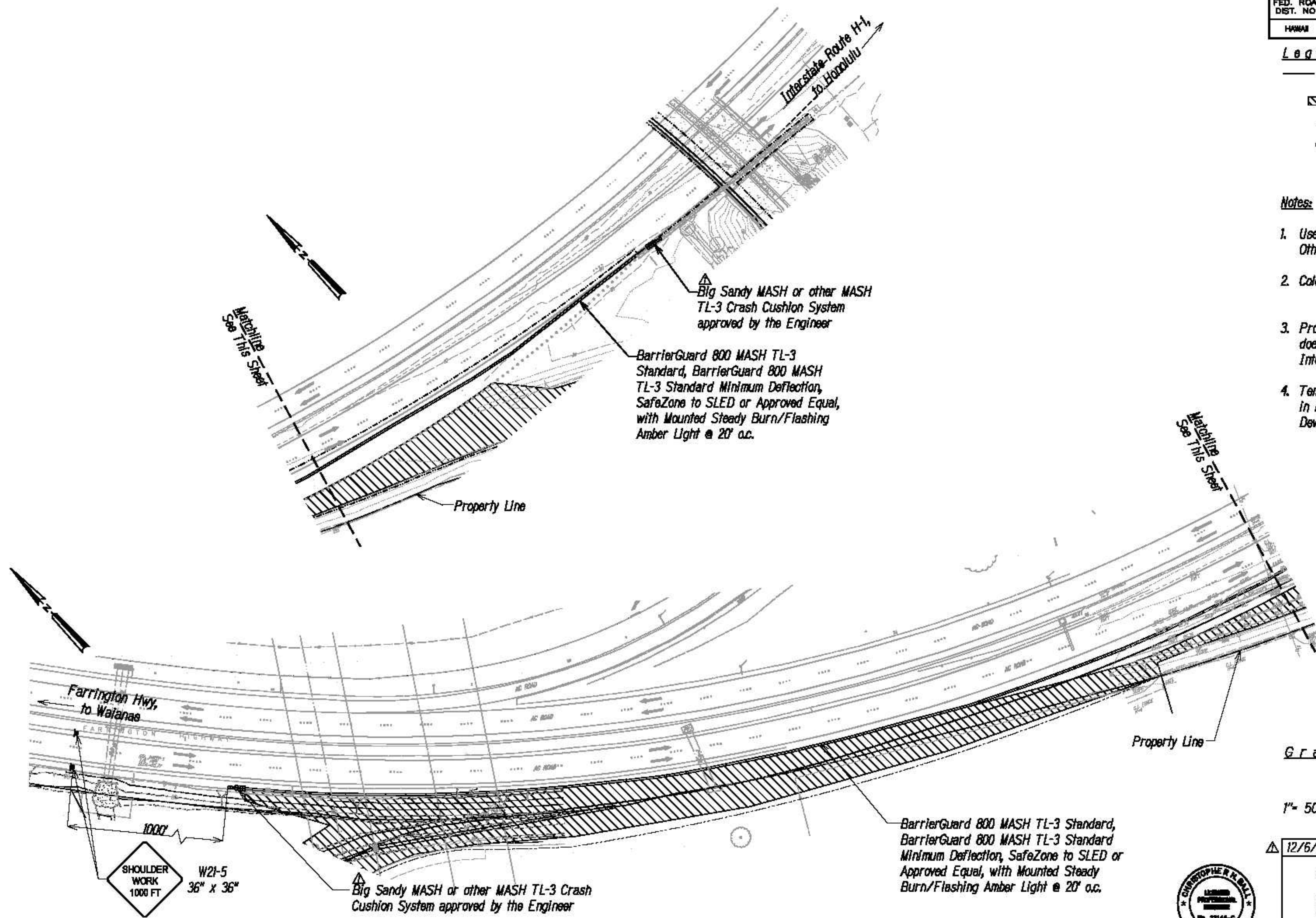
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NIH-HI-K271	2022	ADD. 113	167

Legend

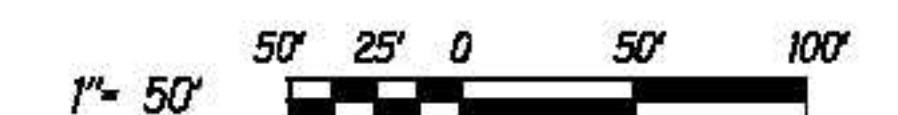
- Property Line
- ▨ Work Area
- Direction of Traffic
- Temporary Metal Barrier
- ▼ Sign

Notes:

1. Use Clearview 5-W Alphabets Unless Otherwise Noted.
2. Colors: Legend-White (Retroreflective)
Background-Green (Retroreflective)
3. Provide regular working hours for work that does not impact Farrington Highway and Interstate Route H-1.
4. Temporary Metal Barrier System to Remain in Place until Permanent Traffic Control Devices are installed or TC-II is in use.



Graphic Scale



TRAFFIC CONTROL PLAN - RAMP SB SEQUENCE 3

Scale: 1" = 50'



This work was prepared by me or under my supervision

Chris Ball
MTH/PA&A/ACCOUNTING, INC. EXP. DATE

12/6/2022 Removed CrashGard

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

**TRAFFIC CONTROL PLAN -
RAMP SB SEQUENCE 3**

INTERSTATE ROUTE H-1
ADDITION AND MODIFICATION OF FREEWAY ACCESS
(Kapele Interchange Complex), Phase 3
Federal Aid Project No. NIH-HI-K271

Scale: As Noted Date: August 2022

SHEET No. TC-8 OF 167 SHEETS

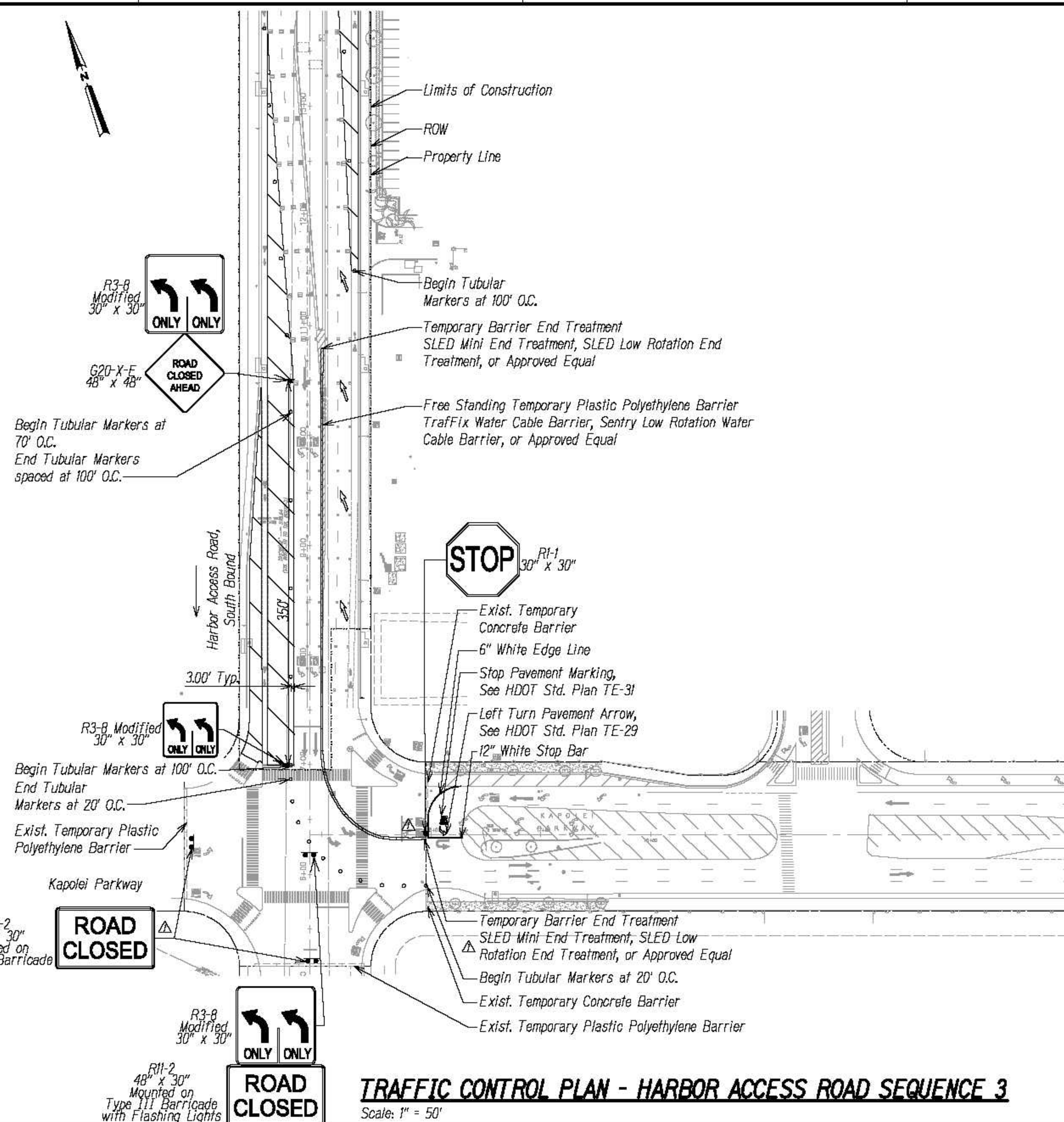
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	HI-HI-K2711	2022	ADD. 114	167

Legend

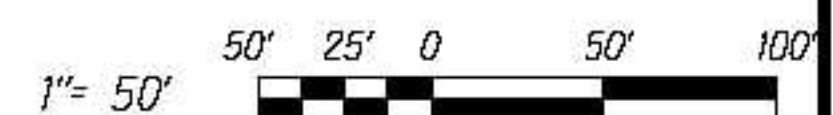
- Limits of Construction
- Property Line
- ▼ Sign
- ▼ Type III Barricade

Notes:

- Traffic Control Devices shall be in use 24 hours a day, 7 days a week.



Graphic Scale



TRAFFIC CONTROL PLAN - HARBOR ACCESS ROAD SEQUENCE 3

Scale: 1" = 50'

DATE	DATE
DESIGNED BY	DESIGNED BY
CHECKED BY	CHECKED BY
APPROVED BY	APPROVED BY
NOTED BY	NOTED BY
REVISION	REVISION



This work was prepared by me or under my supervision

Chris Kelly

NOTE: Engineer's seal and title shall be placed on this drawing in accordance with the rules of the Board of Professional Engineers of the State of Hawaii.

12/6/2022 Revised Traffic Control

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

TRAFFIC CONTROL PLAN - HARBOR ACCESS ROAD SEQUENCE 3

INTERSTATE ROUTE HI-1
ADDITION AND MODIFICATION OF FREEWAY ACCESS
(Kapolei Interchange Complex) Phase 3
Federal Aid Project No. HI-HI-K2711

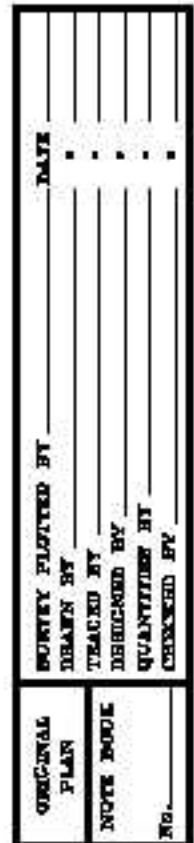
Scale: As Noted Date: August 2022

SHEET No. **TC-9** OF **167** SHEETS

Legend

	Work Area
	Traffic Cone
	Sign
	Exist. Direction of Traffic
	Proposed Direction of Traffic
	Flashing Arrow Sign
	Property Line
	Limits of Construction
	Portable Concrete Barrier

1. Use Clearview 5-W Alphabets Unless Otherwise Noted.
2. Colors: Legend-White (Retroreflective)
Background-Green (Retroreflective)
3. Provide regular working hours for work that does not impact Farrington Highway and Interstate Route H-1.
4. Provide Arrow Boards for each Lane Closure.



FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-HI-K271	2022	ADD. 117	167

Legend

- Limits of Construction
- Property Line
- ▲ Sign
- ▲ Type III Barricade
- Direction of Traffic

(5) Barrel Arrays, See Inertial Barrier System Notes

(9) Type II Barricades at 20' O.C., typ.

End Tubular Markers at 70' O.C.

10' Utility Easement

Inertial Barrier System Notes

1. Energite III Crash Cushions, Big Sandy Series, or Approved Equal
2. Follow Manufacturer's Recommendations
3. MASH Rating: TL-3

Notes:

1. Traffic Control Devices shall be in use 24 hours a day, 7 days a week.

DATE	REVISION
12/6/2022	Revised Traffic Control
11/17/2022	Revised Traffic Control

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

TRAFFIC CONTROL PLAN - HARBOR ACCESS ROAD SEQUENCE 5

INTERSTATE ROUTE HI
ADDITION AND MODIFICATION OF FREEWAY ACCESS
(Kapolei Interchange Complex) Phase 3
Federal Aid Project No. NH-HI-K271

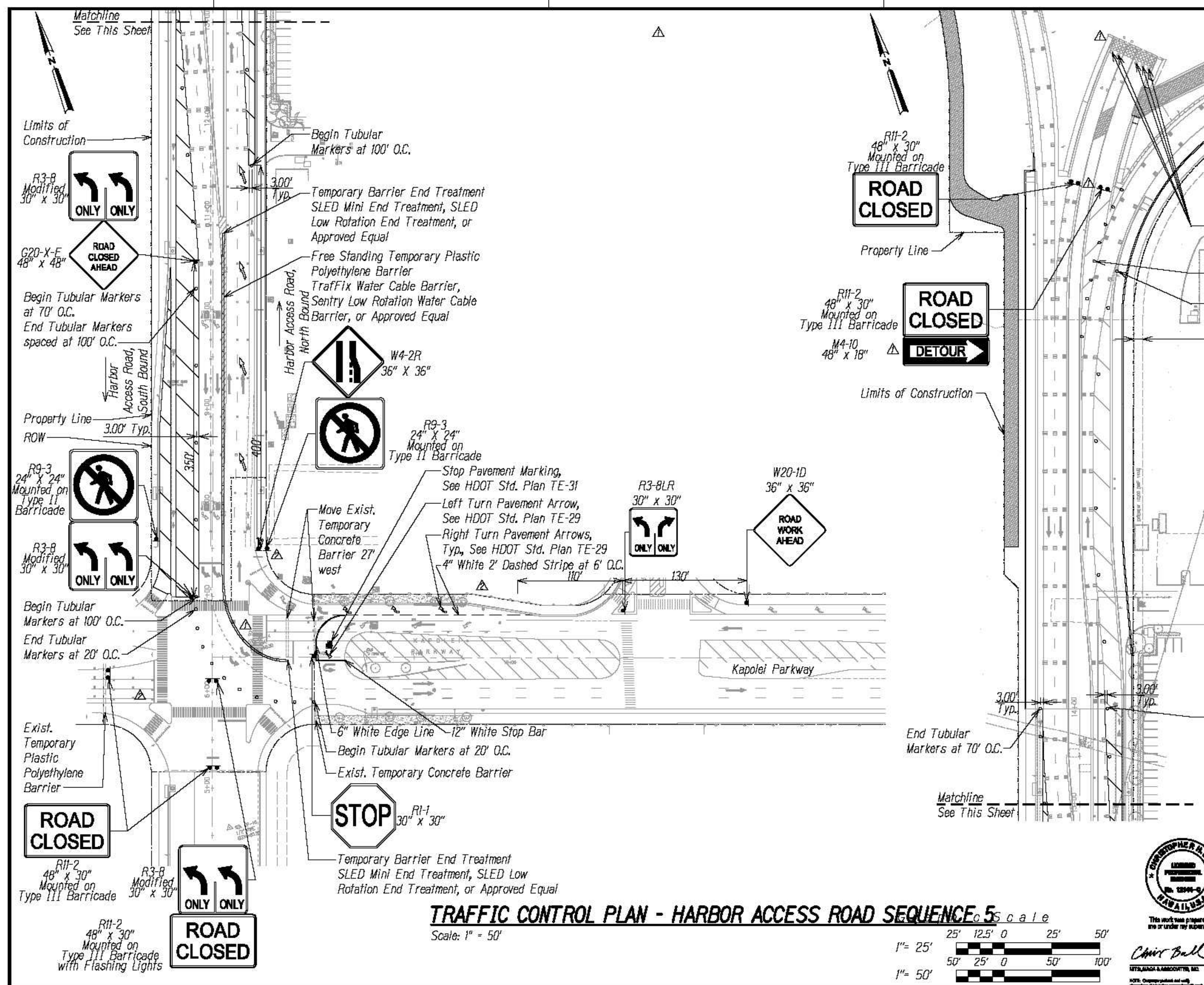
Scale: As Shown Date: August 2022

SHEET No. **TC-13** OF 187 SHEETS



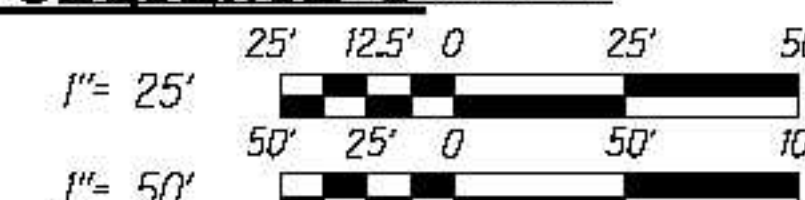
This work was prepared by me or under my supervision

Christopher A. Ball
NTH, MASH & ASSOCIATES, INC.
DATE



TRAFFIC CONTROL PLAN - HARBOR ACCESS ROAD SEQUENCE 5

Scale: 1" = 50'



DATE	12/6/2022
DESIGNED BY	CHB
DRAWN BY	CHB
CHECKED BY	CHB
IN CHARGE	CHB
APPROVED BY	CHB