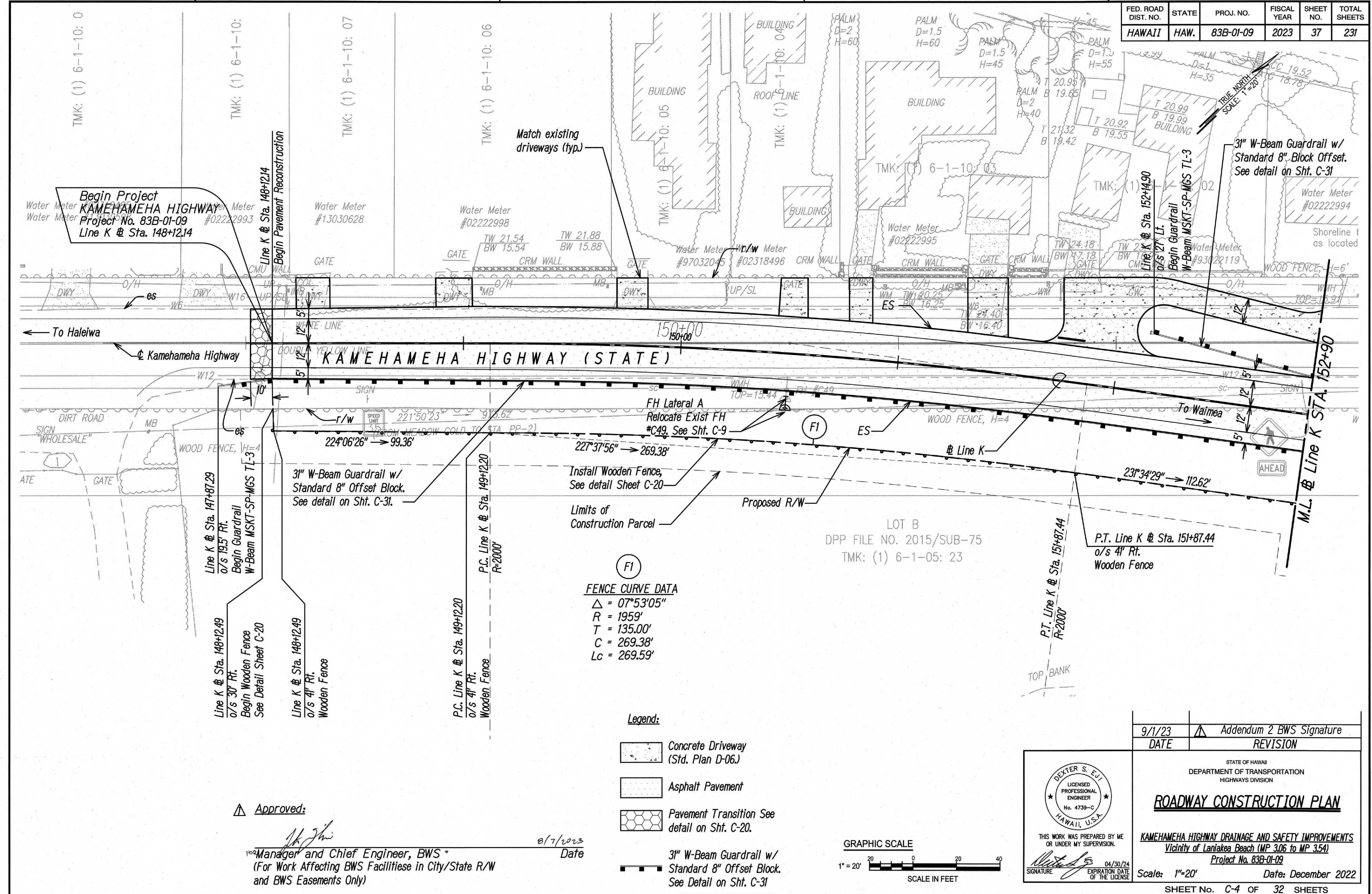
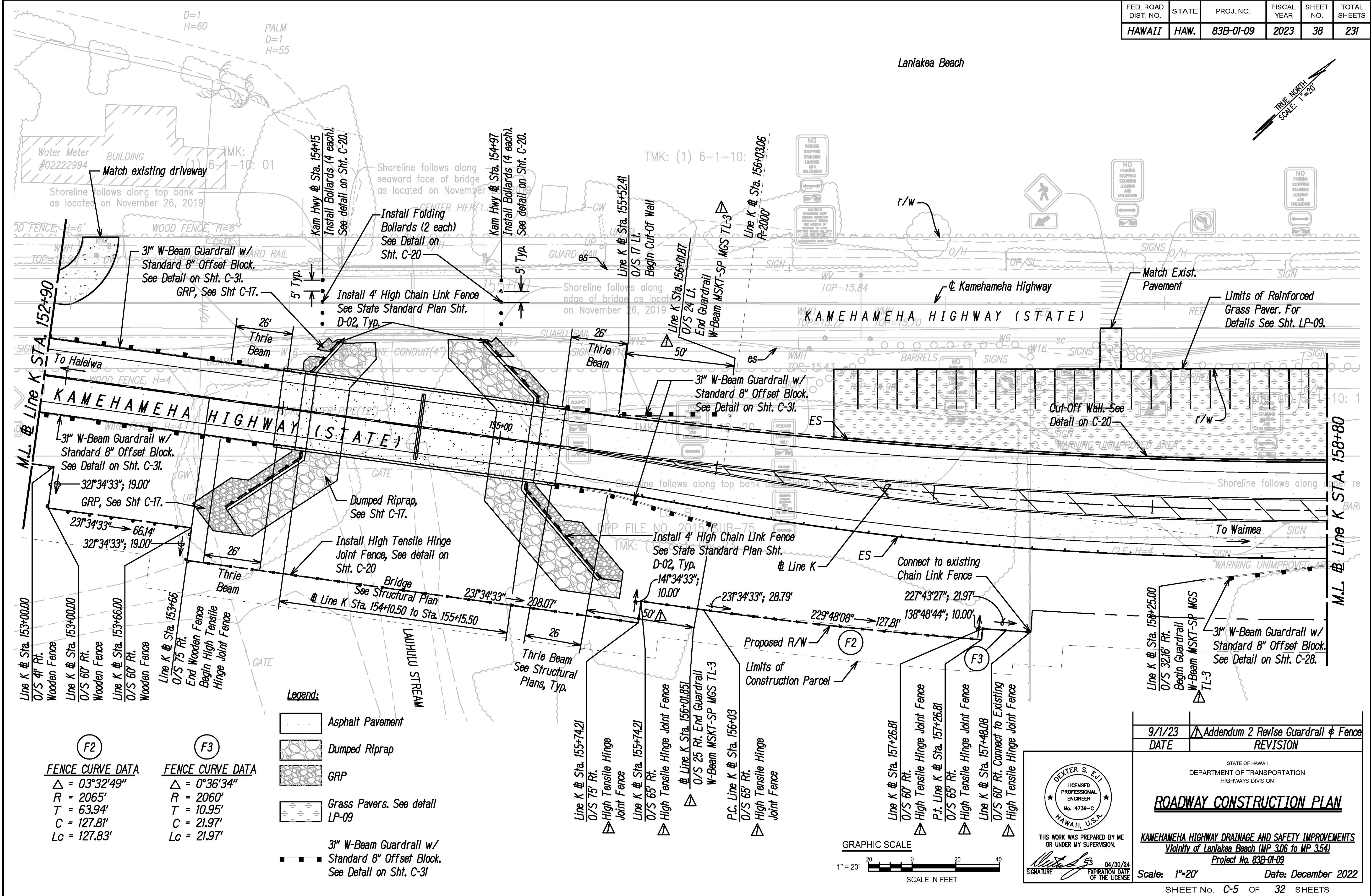


| FED. ROAD DIST. NO. | STATE | PROJ. NO. | FISCAL YEAR | SHEET NO. | TOTAL SHEETS |
|---------------------|-------|-----------|-------------|-----------|--------------|
| HAWAII              | HAW.  | 83B-01-09 | 2023        | 37        | 231          |



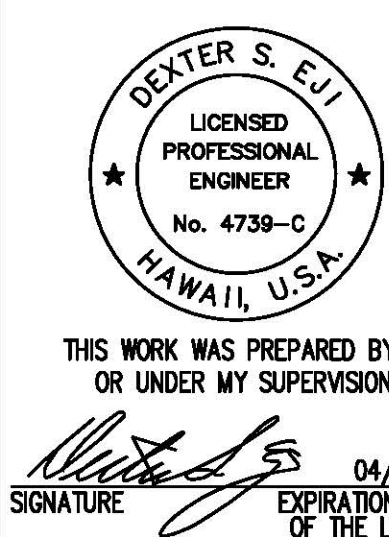
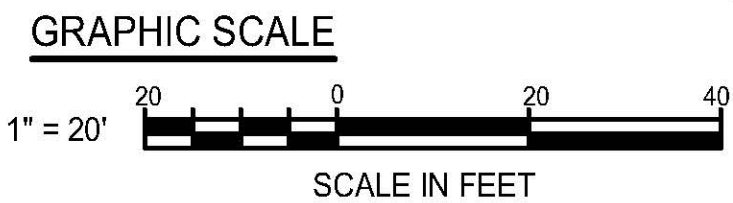
| FED. ROAD DIST. NO. | STATE | PROJ. NO. | FISCAL YEAR | SHEET NO. | TOTAL SHEETS |
|---------------------|-------|-----------|-------------|-----------|--------------|
| HAWAII              | HAW.  | 83B-01-09 | 2023        | 38        | 231          |



|               |      |
|---------------|------|
| DESIGNED BY   | DATE |
| DRAWN BY      |      |
| CHECKED BY    |      |
| NOTED BY      |      |
| QUANTITIES BY |      |
| CHECKED BY    |      |

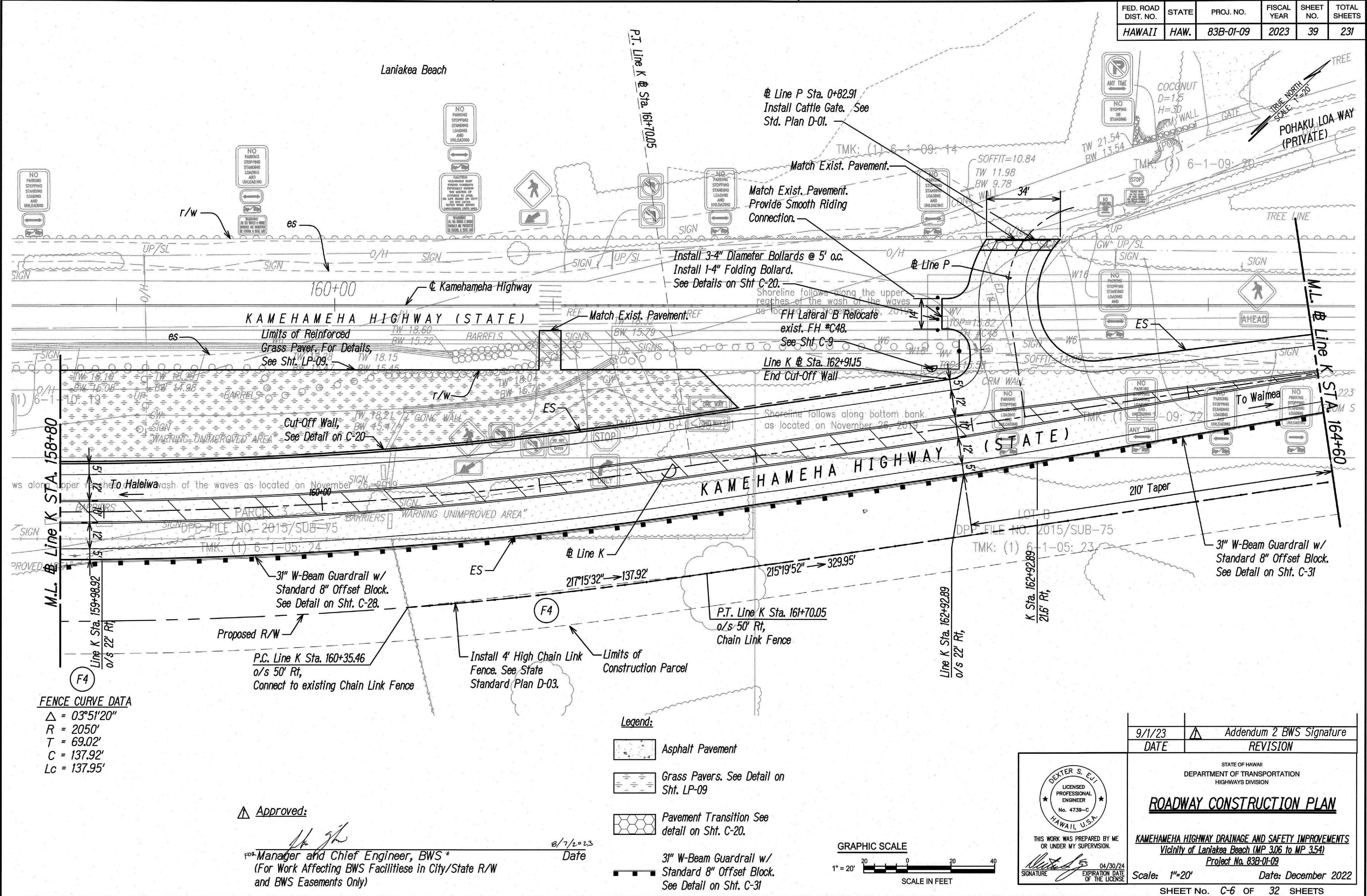
| F2                           | F3                          |
|------------------------------|-----------------------------|
| FENCE CURVE DATA             | FENCE CURVE DATA            |
| $\Delta = 03^{\circ}32'49''$ | $\Delta = 0^{\circ}36'34''$ |
| $R = 2065'$                  | $R = 2060'$                 |
| $T = 63.94'$                 | $T = 10.95'$                |
| $C = 127.81'$                | $C = 21.97'$                |
| $Lc = 127.83'$               | $Lc = 21.97'$               |

- Legend:
- Asphalt Pavement
  - Dumped Riprap
  - GRP
  - Grass Pavers. See detail LP-09
  - 31" W-Beam Guardrail w/ Standard 8" Offset Block. See Detail on Sht. C-31



|                                                                                                                                 |                                     |
|---------------------------------------------------------------------------------------------------------------------------------|-------------------------------------|
| 9/1/23                                                                                                                          | ADDENDUM 2 REVISE GUARDRAIL & FENCE |
| DATE                                                                                                                            | REVISION                            |
| STATE OF HAWAII<br>DEPARTMENT OF TRANSPORTATION<br>HIGHWAYS DIVISION                                                            |                                     |
| ROADWAY CONSTRUCTION PLAN                                                                                                       |                                     |
| KAMEHAMEHA HIGHWAY DRAINAGE AND SAFETY IMPROVEMENTS<br>Vicinity of Laniakea Beach (MP 3.06 to MP 3.54)<br>Project No. 83B-01-09 |                                     |
| Scale: 1"=20'                                                                                                                   | Date: December 2022                 |
| SHEET No. C-5 OF 32 SHEETS                                                                                                      |                                     |

| FED. ROAD DIST. NO. | STATE | PROJ. NO. | FISCAL YEAR | SHEET NO. | TOTAL SHEETS |
|---------------------|-------|-----------|-------------|-----------|--------------|
| HAWAII              | HAW.  | 83B-01-09 | 2023        | 39        | 231          |



|                   |       |
|-------------------|-------|
| DATE              | _____ |
| SURVEY PLOTTED BY | _____ |
| DRAWN BY          | _____ |
| DESIGNED BY       | _____ |
| CHECKED BY        | _____ |
| ORIGINAL PLAN     | _____ |
| NOTE BOOK         | _____ |
| No.               | _____ |

**FENCE CURVE DATA**  
 $\Delta = 03^{\circ}51'20''$   
 $R = 2050'$   
 $T = 69.02'$   
 $C = 137.92'$   
 $Lc = 137.95'$

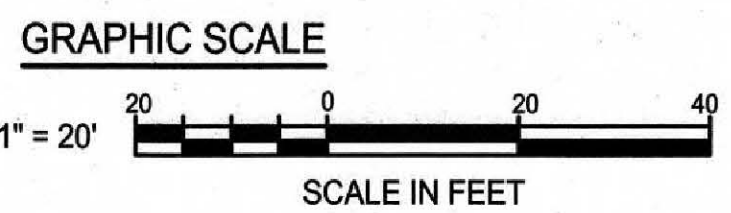
**Approved:**

*[Signature]*  
**Manager and Chief Engineer, BWS\***  
 (For Work Affecting BWS Facilities in City/State R/W and BWS Easements Only)

8/7/2023  
 Date

**Legend:**

- Asphalt Pavement
- Grass Pavers. See Detail on Sht. LP-09
- Pavement Transition See detail on Sht. C-20.
- 



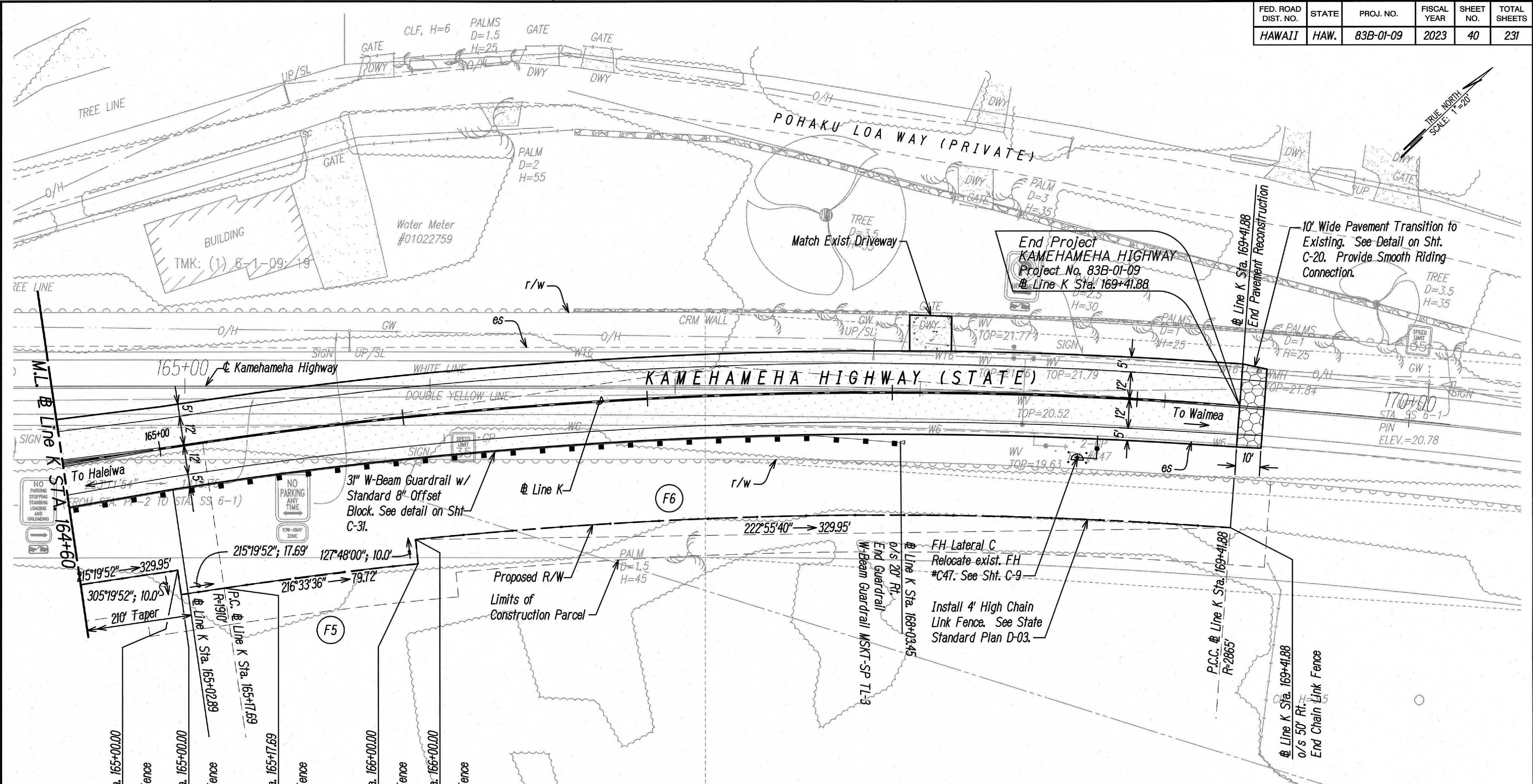
THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.

*[Signature]*  
 SIGNATURE

04/30/24  
 EXPIRATION DATE OF THE LICENSE

|                                                                                                                                                                                                                                                                |                          |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|
| 9/1/23                                                                                                                                                                                                                                                         | ADDENDUM 2 BWS SIGNATURE |
| DATE                                                                                                                                                                                                                                                           | REVISION                 |
| STATE OF HAWAII<br>DEPARTMENT OF TRANSPORTATION<br>HIGHWAYS DIVISION<br><b>ROADWAY CONSTRUCTION PLAN</b><br><b>KAMEHAMEHA HIGHWAY DRAINAGE AND SAFETY IMPROVEMENTS</b><br><b>Vicinity of Lanika Beach (MP 3.06 to MP 3.54)</b><br><b>Project No. 83B-01-09</b> |                          |
| Scale: 1"=20'                                                                                                                                                                                                                                                  | Date: December 2022      |
| SHEET No. C-6 OF 32 SHEETS                                                                                                                                                                                                                                     |                          |

| FED. ROAD DIST. NO. | STATE | PROJ. NO. | FISCAL YEAR | SHEET NO. | TOTAL SHEETS |
|---------------------|-------|-----------|-------------|-----------|--------------|
| HAWAII              | HAW.  | 83B-01-09 | 2023        | 40        | 231          |



| F5                      | F6                      |
|-------------------------|-------------------------|
| <b>FENCE CURVE DATA</b> | <b>FENCE CURVE DATA</b> |
| Δ = 02°28'09"           | Δ = 10°15'20"           |
| R = 1850'               | R = 1860'               |
| T = 39.86'              | T = 166.91'             |
| C = 79.72'              | C = 332.48'             |
| Lc = 79.72'             | Lc = 332.93'            |

Approved:

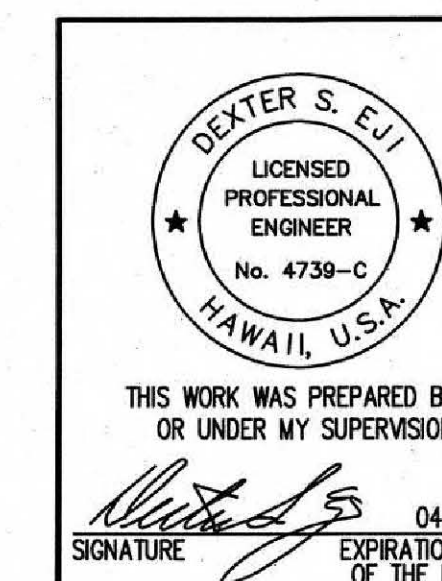
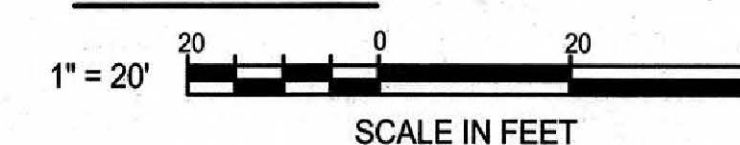
Manager and Chief Engineer, BWS \*  
(For Work Affecting BWS Facilities in City/State R/W  
and BWS Easements Only)

8/7/2023  
Date

#### Legend:

- Concrete Driveway (Std. Plan D-06.)
- Asphalt Pavement
- Pavement Transition See detail on Sht. C-20.
- 31" W-Beam Guardrail w/ Standard 8" Offset Block. See Detail on Sht. C-31

#### GRAPHIC SCALE



|                |                                      |
|----------------|--------------------------------------|
| 9/1/23<br>DATE | Addendum 2 BWS Signature<br>REVISION |
|----------------|--------------------------------------|

STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
HIGHWAYS DIVISION

### ROADWAY CONSTRUCTION PLAN

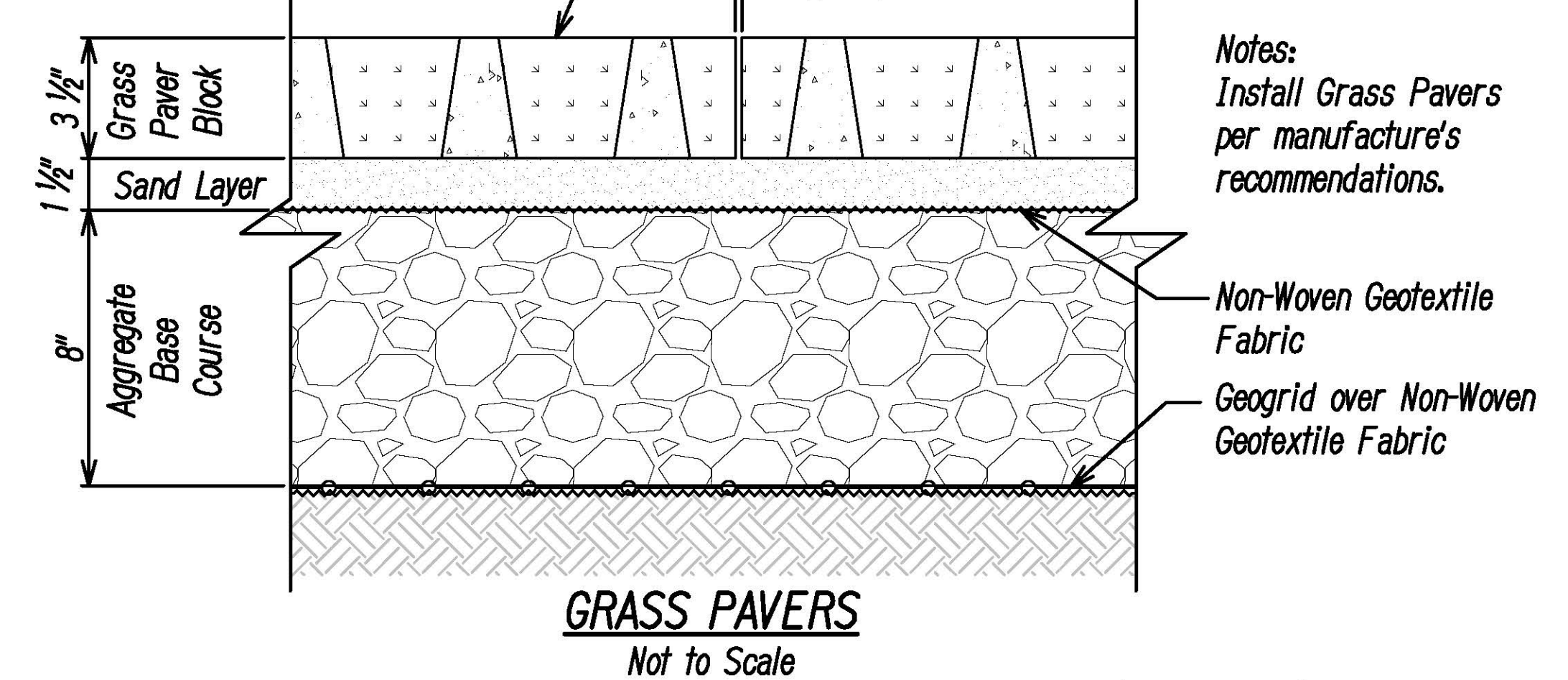
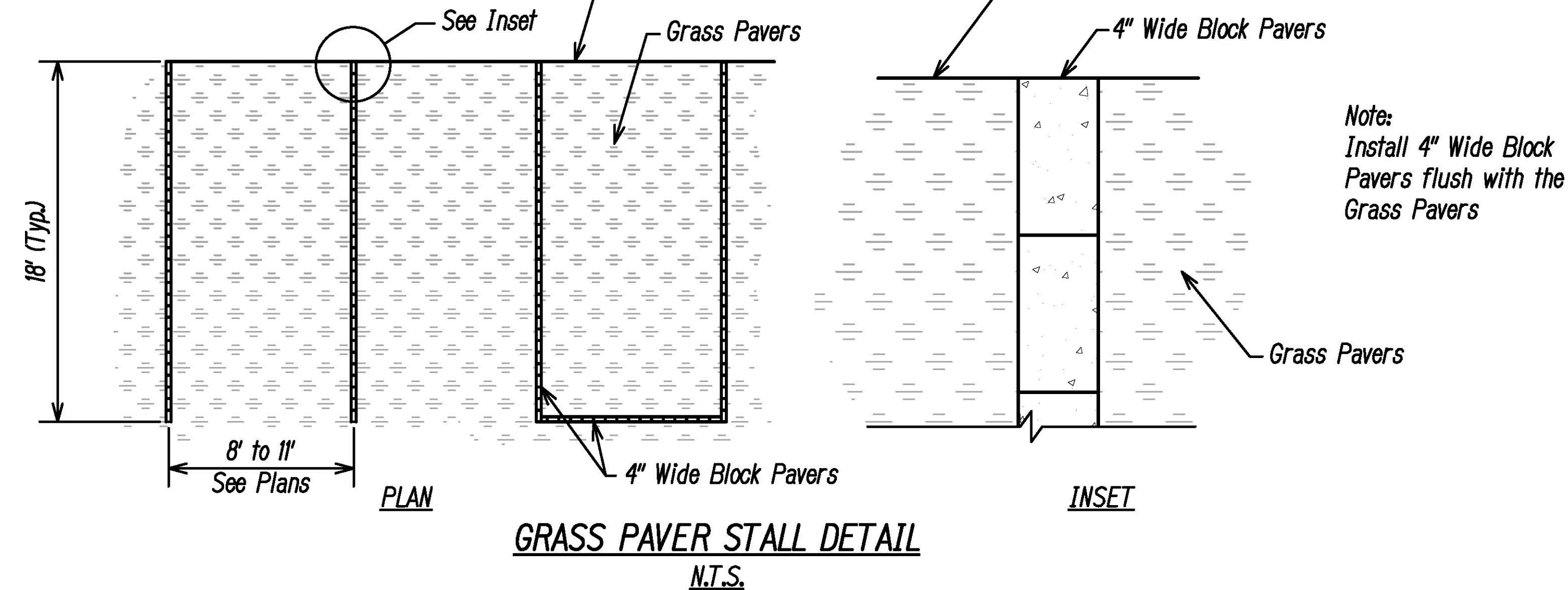
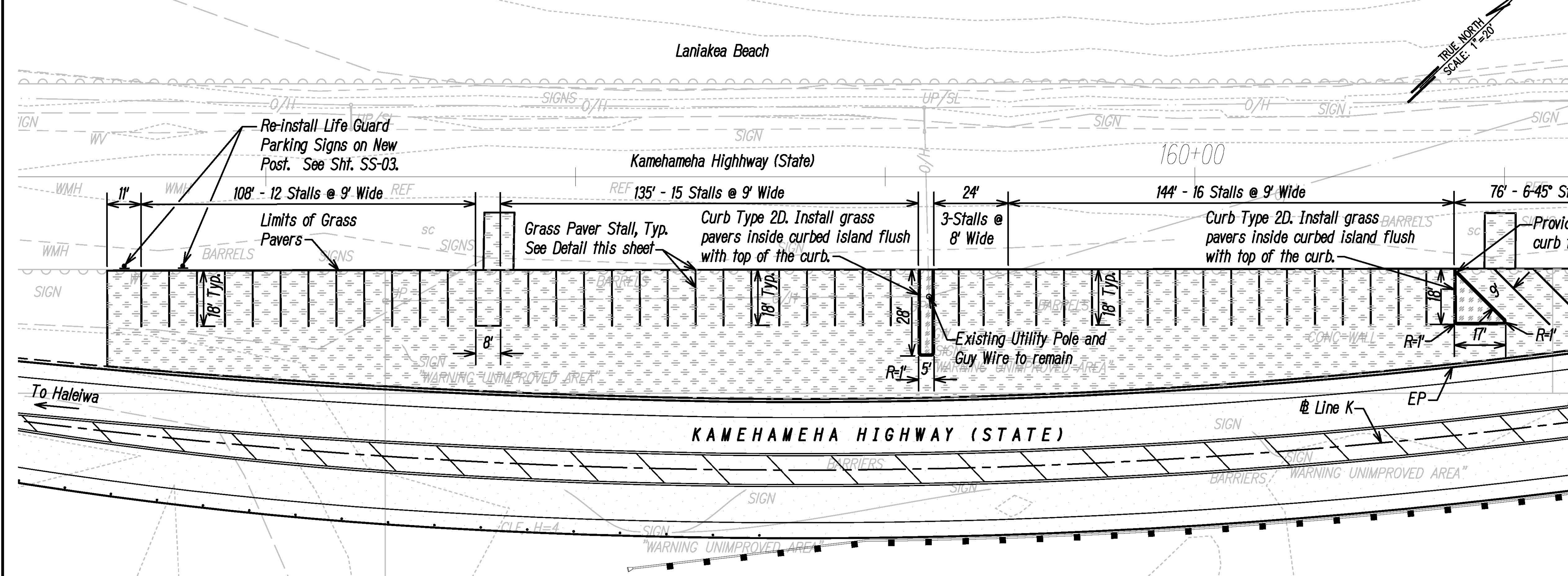
KAMEHAMEHA HIGHWAY DRAINAGE AND SAFETY IMPROVEMENTS  
Vicinity of Laniakaa Beach (MP 3.06 to MP 3.54)  
Project No. 83B-01-09

Scale: 1"=20' Date: December 2022

SHEET No. C-7 OF 32 SHEETS

ADD. 40

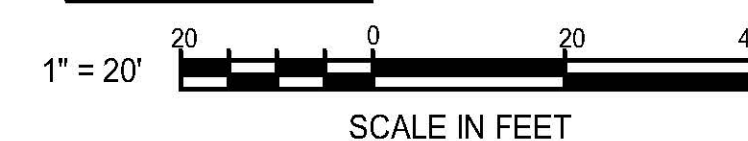
Pacific Ocean



- Non-Woven Geotextile Fabric
- Geogrid over Non-Woven Geotextile Fabric

*Grass Pavers*

*4" Wide Block Pavers*



|        |   |                      |
|--------|---|----------------------|
| 9/1/23 | ▲ | Addendum 2 New Sheet |
| DATE   |   | REVISION             |

STATE OF HAWAII

DEPARTMENT OF TRANSPORTATION

HIGHWAYS DIVISION

# GRASS PAVER PLAN

KAMEHAMEHA HIGHWAY DRAINAGE AND SAFETY IMPROVEMENTS

Vicinity of Lanikaea Beach (MP 3.06 to MP 3.54)

Project No. 83B-01-09

Scale: 1"=20'
Date: December 2022

SHEET NO. C-7A OF
32 SHEETS

ADD.40S-1

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