

subgrade. 2. For median swale grading: 5% Minimum

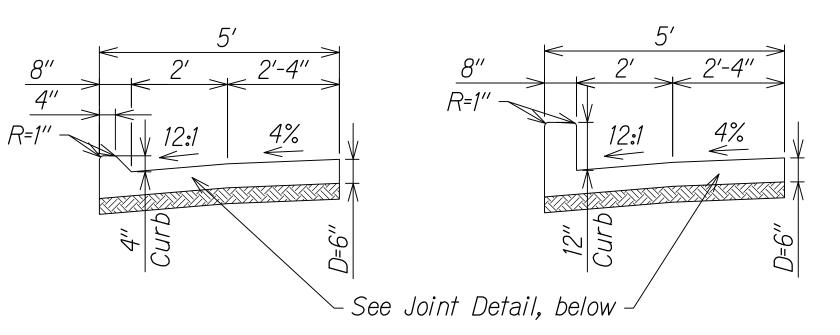
16.7% Maximum

3. For median unpaved sections use 6" minus backfill material (unless otherwise indicated on landscape plans).

areas with 9.5" Asphaltic Concrete and 6"

Aggregate Base over properly repaired

- 4. All Stations referred to the South Bound Baseline.
- 5. Refer to the Baseline Data plans for the South Bound alignment information.
- 6. Contractor to submit Reconstruction Pavement Plans for Engineer's approval prior to start of work.
- 7. Width of 6:1 foreslope varies adjacent to Auxiliary Lanes. See cross sections for dimensions.
- 8. For Swale section, see this Sht.
- 9. See Electrical and Traffic Signal Drawings for pole, ductline and pullbox locations.



Type I Conc. Swale

SCALE: 1" = 2'

1-1/2 Ø Epoxy

Coated Dowels

18" Long, Slightly

See Alternate

Joint Detail in

DOT Std. Plan

B-01

Contraction

Grease Enlire Dowel-

Type II Conc. Swale

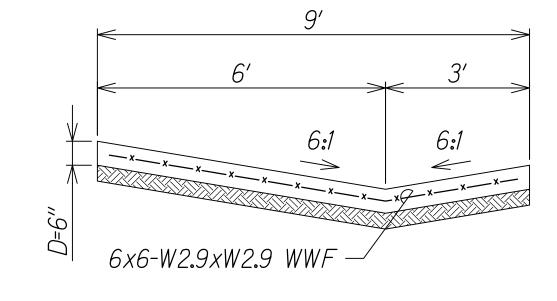
/2 Contraction, Joint

Contraction Joint Detail

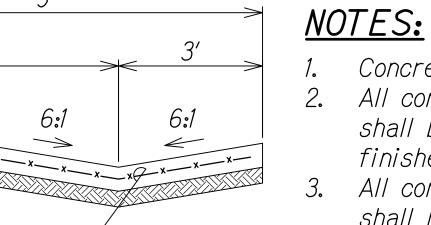
SCALE: 1" = 2'

-3" Typ.

<u>PLAN</u>



Type III Conc. Swale

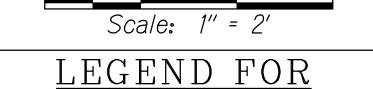


Concrete shall be Class A.

- All concrete curbs and swales shall be longitudinal broom finished.
- All concrete curb and swales shall have 4" bedding and backfill aggregate underneath.

NO. 13059-C

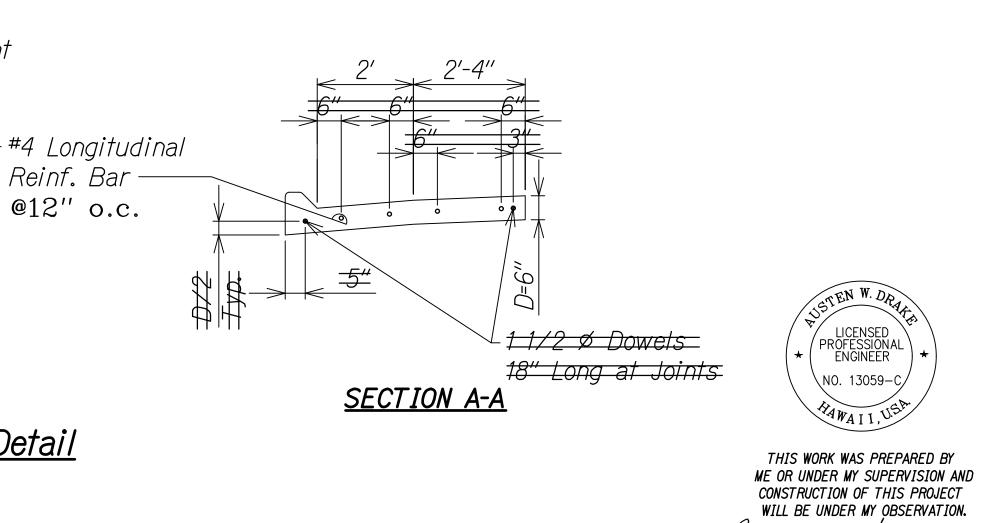
Cuten W. DrakeAPRIL 30, 2018

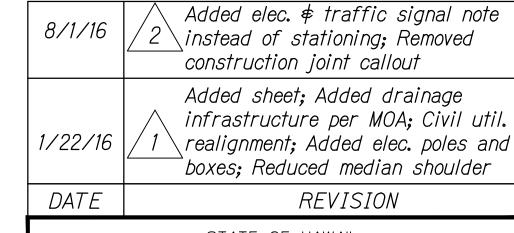


AS-BUILT POSTINGS Squiggly line for $\overline{\mathcal{M}}$ as-built deletion

100.00 Double line for as-built deletion

Roadway Text for as-built posting





STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION

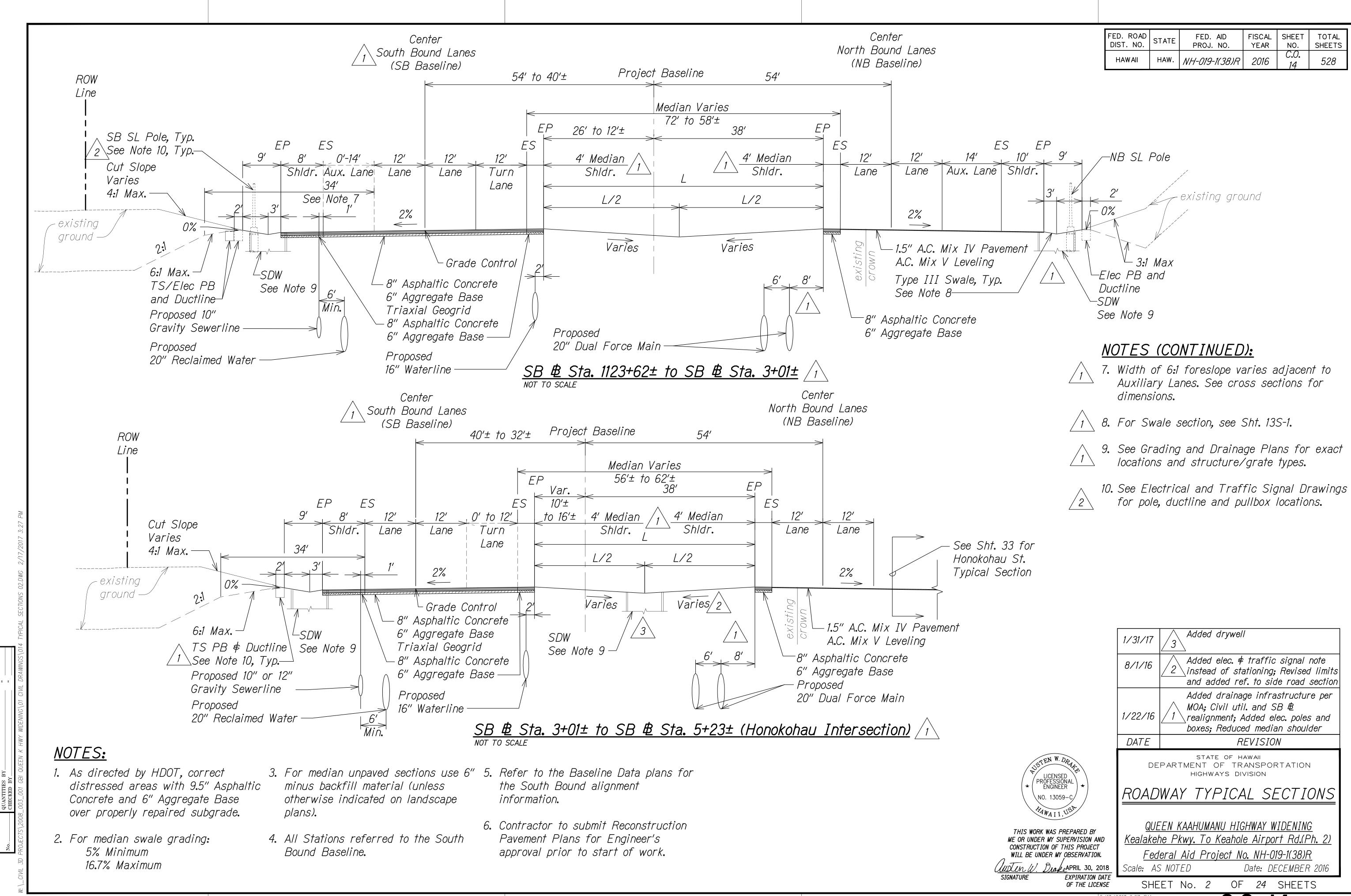
ROADWAY TYPICAL SECTIONS

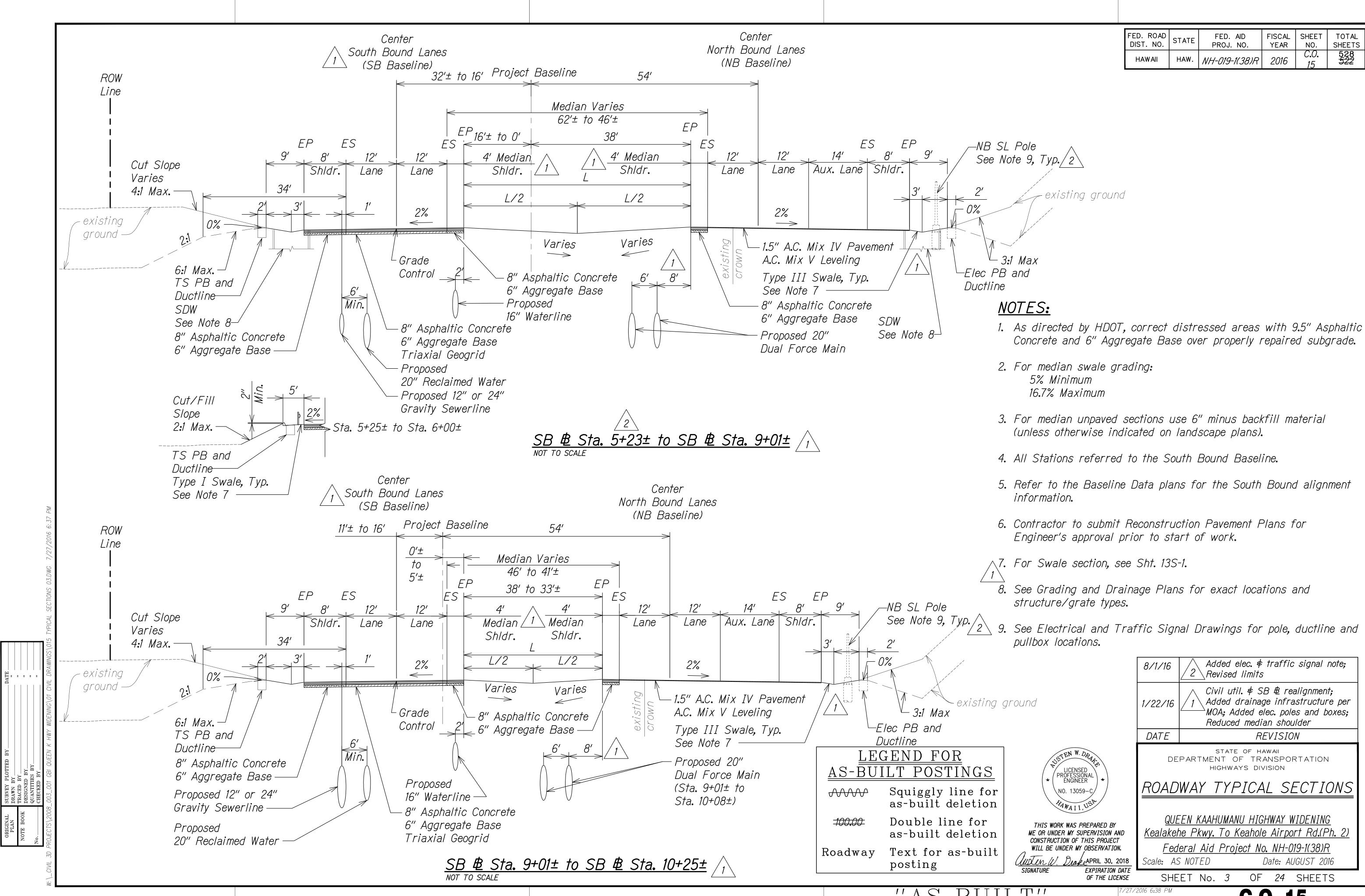
QUEEN KAAHUMANU HIGHWAY WIDENING Kealakehe Pkwy. To Keahole Airport Rd.(Ph. 2) Federal Aid Project No. NH-019-1(38)R Scale: AS NOTED Date: DECEMBER 2016

EXPIRATION DATE
OF THE LICENSE SHEET No. 1A OF 24 SHEETS

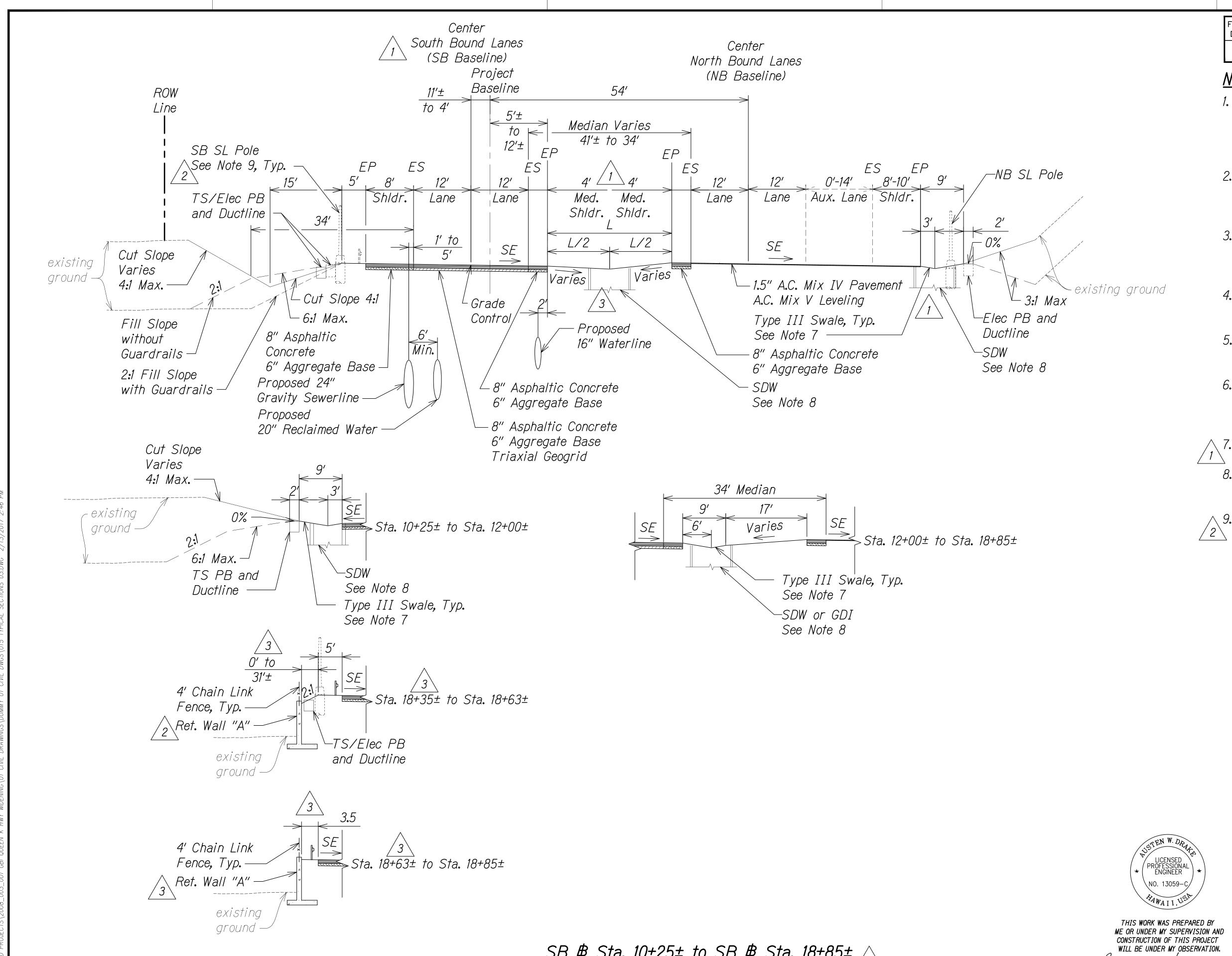
"AS-BUII

C.O. 13S-1





"AS-BUILT"



SB & Sta. 10+25± to SB & Sta. 18+85±

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-019-1(38)R	2016	C.O. 155-1	528

NOTES:

- 1. As directed by HDOT, correct distressed areas with 9.5" Asphaltic Concrete and 6" Aggregate Base over properly repaired subgrade.
- 2. For median swale grading: 5% Minimum 16.7% Maximum
- 3. For median unpaved sections use 6" minus backfill material (unless otherwise indicated on landscape plans).
- 4. All Stations referred to the South Bound Baseline.
- 5. Refer to the Baseline Data plans for the South Bound alignment information.
- 6. Contractor to submit Reconstruction Pavement Plans for Engineer's approval prior to start of work.

√ 7. For Swale section, see Sht. 13S-1.

8. See Grading and Drainage Plans for exact locations and structure/grate types.

∧ 9. See Electrical and Traffic Signal Drawings for pole, ductline and pullbox locations.

1/31/17	Revised walls due to revised Arch 3 site locations \$ field buffers; Added new drywell
8/1/16	Added elec. \$ traffic signal note 2 instead of stationing; Added ret. wall identification
1/22/16	Civil util. \$ SB & realignment; Added drainage infrastructure/ret. walls per MOA; Added elec. poles and boxes; Reduced median shoulder
DATE	REVISION

STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION

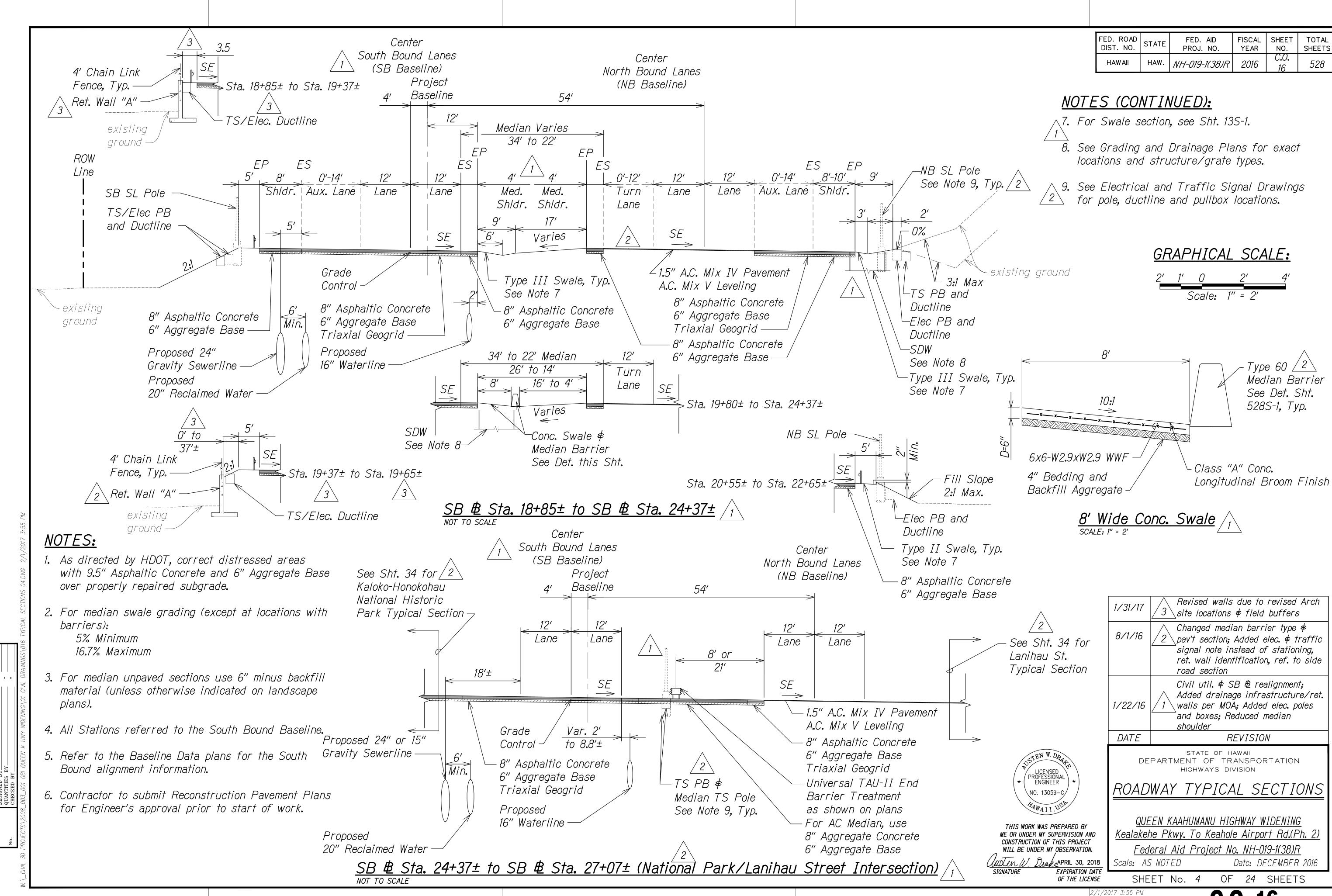
ROADWAY TYPICAL SECTIONS

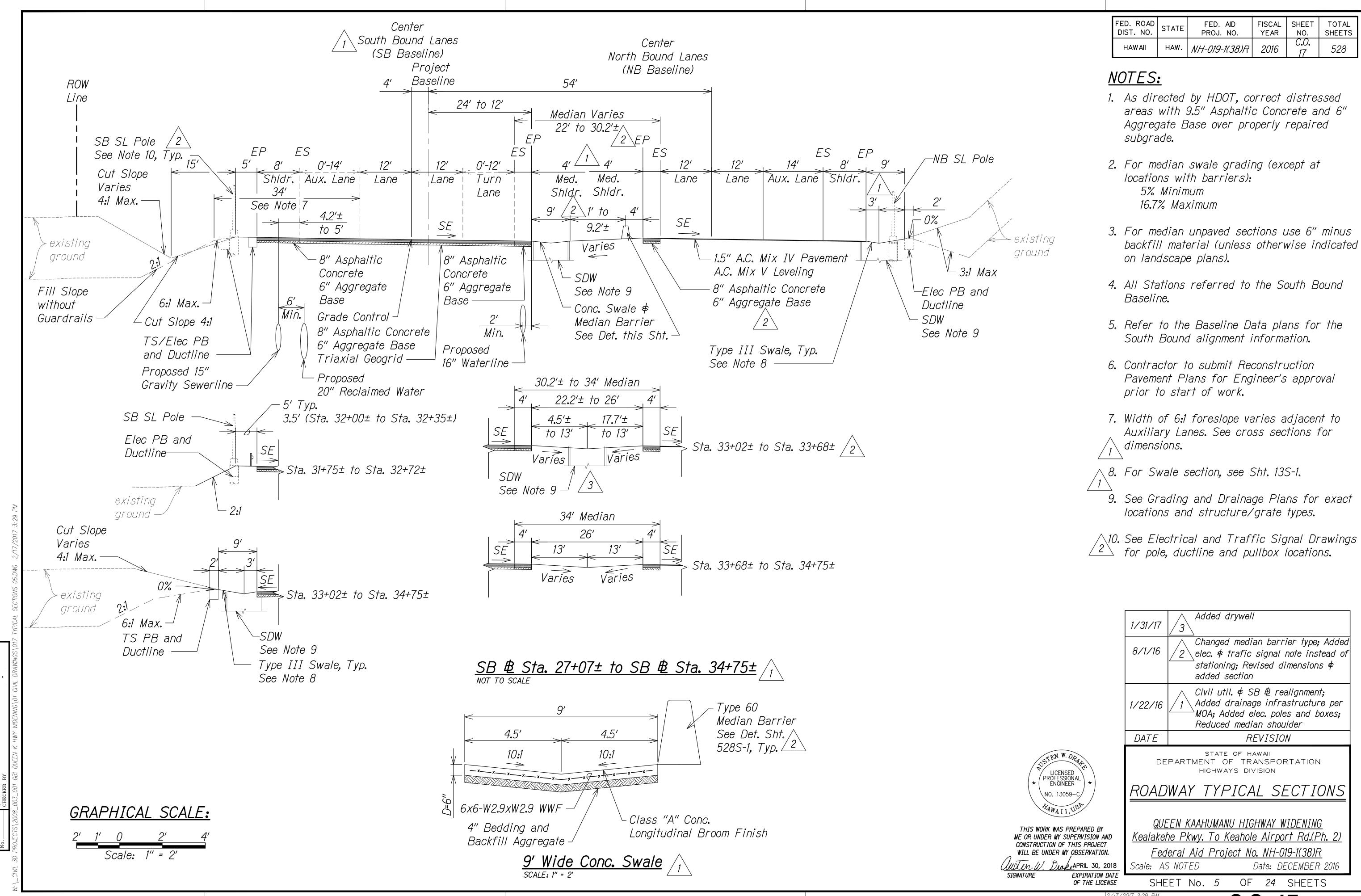
QUEEN KAAHUMANU HIGHWAY WIDENING Kealakehe Pkwy. To Keahole Airport Rd.(Ph. 2)

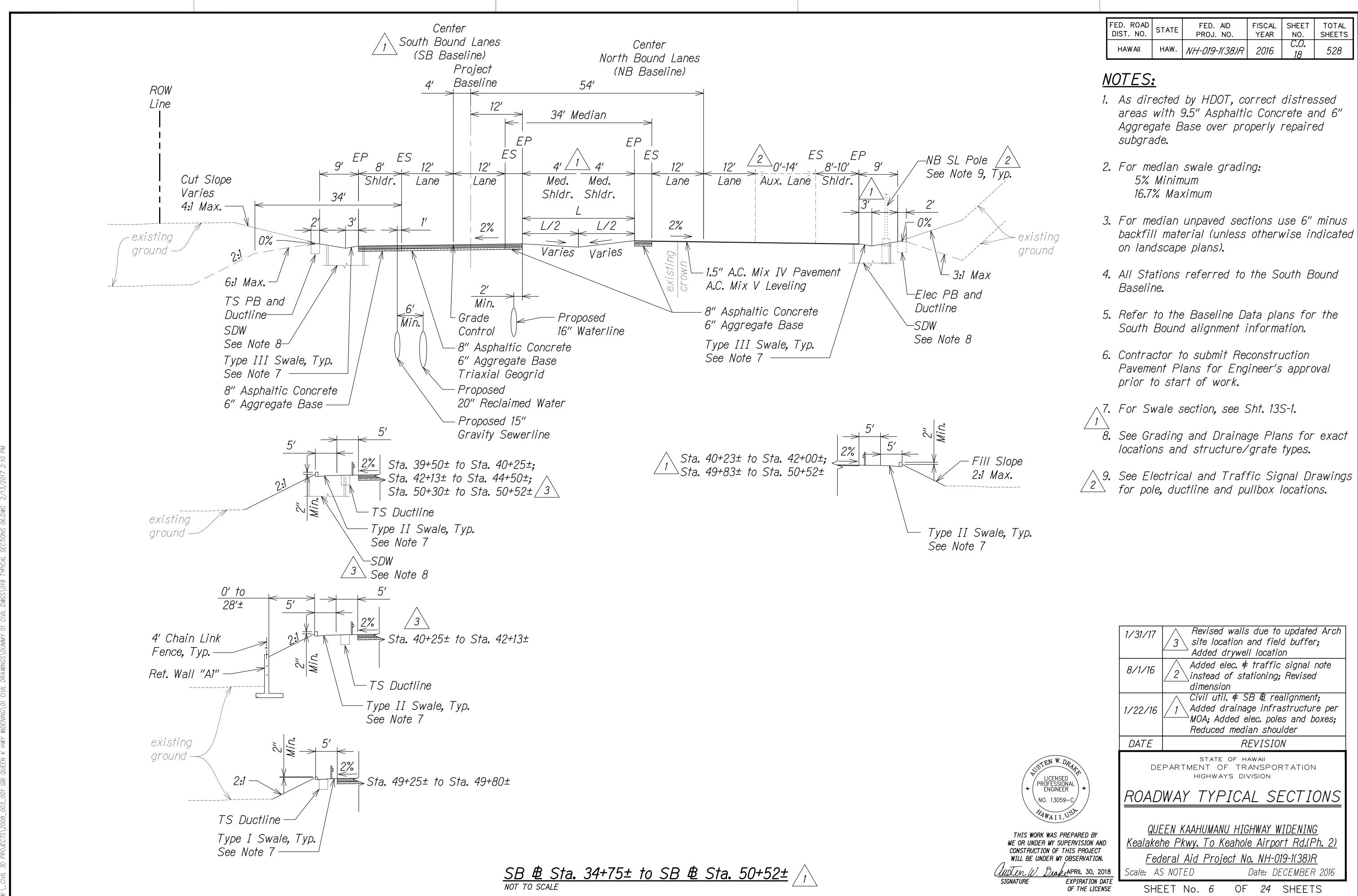
Federal Aid Project No. NH-019-1(38)R Scale: AS NOTED Date: DECEMBER 2016

SHEET No. 3A OF 24 SHEETS

Cuten W. Drake APRIL 30, 2018 EXPIRATION DATE OF THE LICENSE

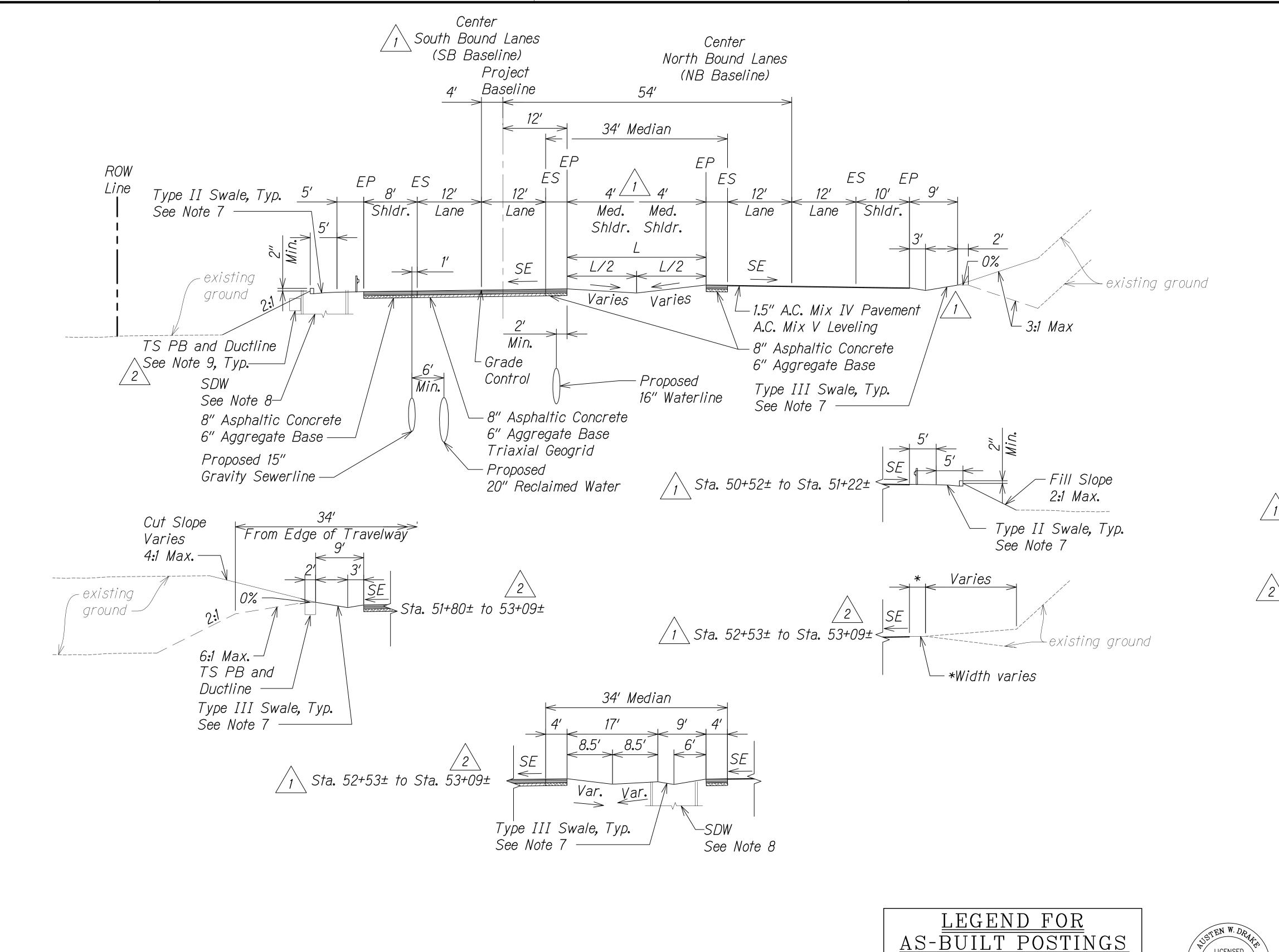






TOTAL

SHEETS



SB & Sta. 50+52± to SB & Sta. 53+09±

FED. ROAD DIST. NO. FISCAL SHEET YEAR NO. FED. AID TOTAL STATE SHEETS PROJ. NO. 2016 *NH-019-1(38)R*

NOTES:

- 1. As directed by HDOT, correct distressed areas with 9.5" Asphaltic Concrete and 6" Aggregate Base over properly repaired subgrade.
- 2. For median swale grading: 5% Minimum 16.7% Maximum
- 3. For median unpaved sections use 6" minus backfill material (unless otherwise indicated on landscape plans).
- 4. All Stations referred to the South Bound Baseline.
- 5. Refer to the Baseline Data plans for the South Bound alignment information.
- 6. Contractor to submit Reconstruction Pavement Plans for Engineer's approval prior to start of work.
- 7. For Swale section, see Sht. 13S-1.
- See Grading and Drainage Plans for exact locations and structure/grate types.
- 9. See Electrical and Traffic Signal Drawings for pole, ductline and pullbox locations.

Shift in Ala Nui Kaloko to match 2 \ exist. access road; Added elec. ♦ traffic signal note Civil util. ♦ SB ₺ realignment; Added drainage infrastructure per 1/22/16 MOA; Added elec. poles and boxes; Reduced median shoulder DATE REVISION

STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION

ROADWAY TYPICAL SECTIONS

QUEEN KAAHUMANU HIGHWAY WIDENING Kealakehe Pkwy. To Keahole Airport Rd.(Ph. 2) Federal Aid Project No. NH-019-1(38)R

OF 24 SHEETS

Scale: AS NOTED Date: AUGUST 2016

EXPIRATION DATE
OF THE LICENSE ''AS-BU

THIS WORK WAS PREPARED BY
ME OR UNDER MY SUPERVISION AND
CONSTRUCTION OF THIS PROJECT
WILL BE UNDER MY OBSERVATION.

Custen W. Drake APRIL 30, 2018

 $\overline{\mathcal{M}}$

100.00

Roadway

Squiggly line for

as-built deletion

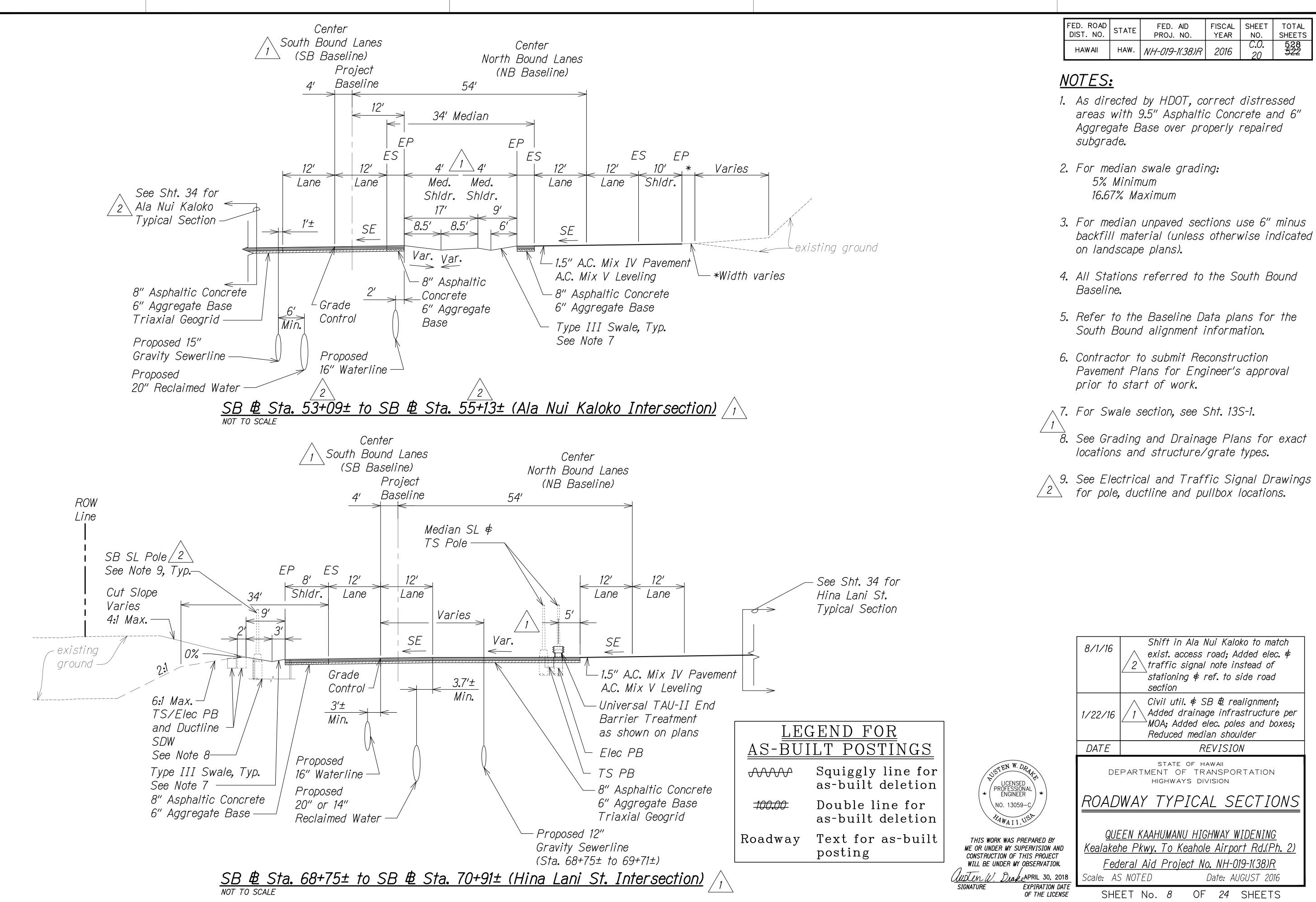
as-built deletion

Text for as-built

posting

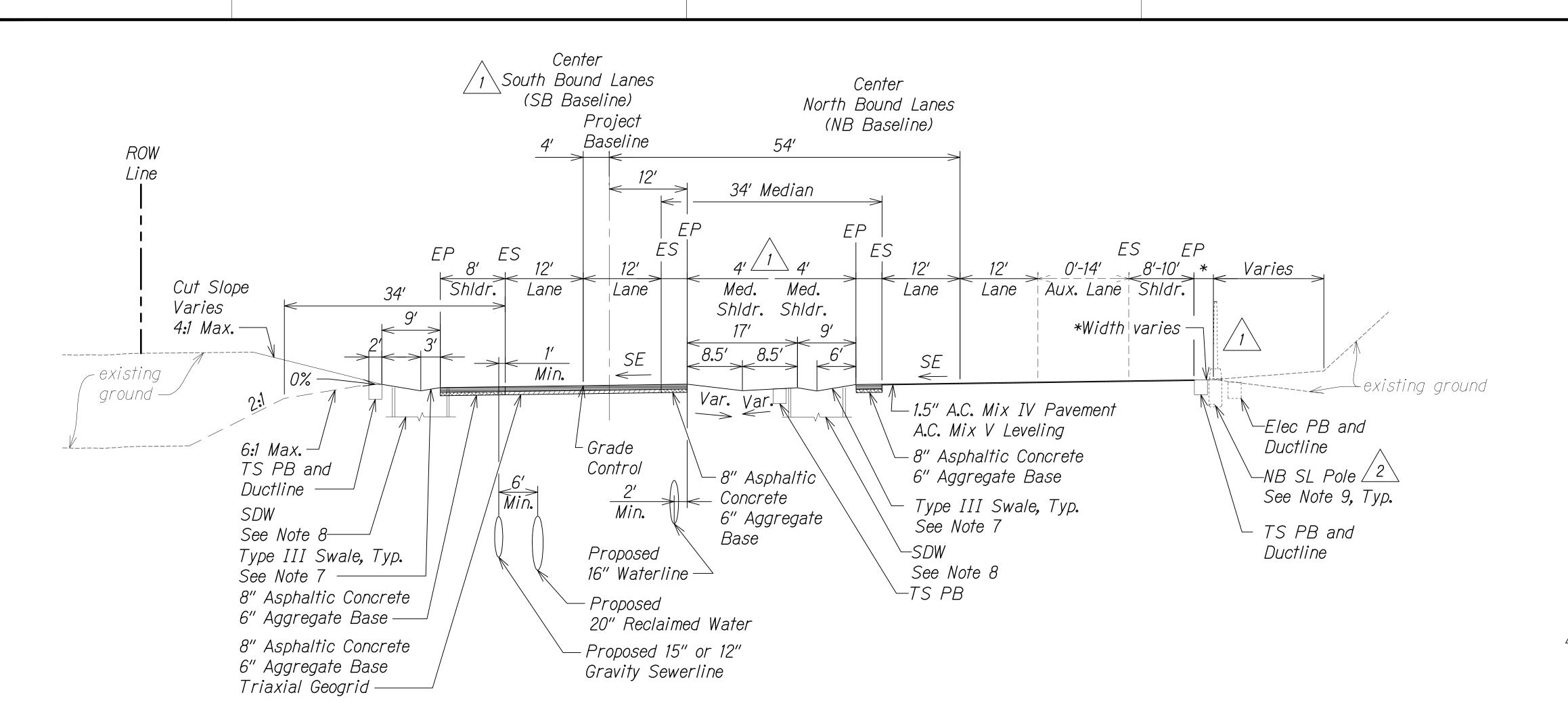
Double line for

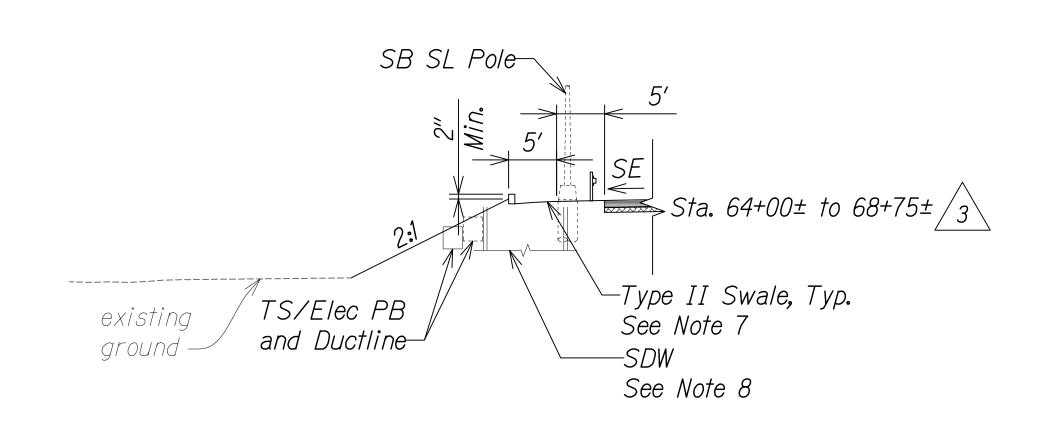
SHEET No.

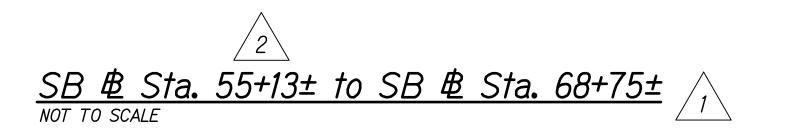


ILT'' 7/27/2016 6:45 PM C.O. 20

"AS-BU







FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-019-1(38)R	2016	C.O. 21	528

NOTES:

- 1. As directed by HDOT, correct distressed areas with 9.5" Asphaltic Concrete and 6" Aggregate Base over properly repaired subgrade.
- 2. For median swale grading: 5% Minimum 16.67% Maximum
- 3. For median unpaved sections use 6" minus backfill material (unless otherwise indicated on landscape plans).
- 4. All Stations referred to the South Bound Baseline.
- 5. Refer to the Baseline Data plans for the South Bound alignment information.
- 6. Contractor to submit Reconstruction Pavement Plans for Engineer's approval prior to start of work.



8. See Grading and Drainage Plans for exact locations and structure/grate types.

9. See Electrical and Traffic Signal Drawings for note ductline and nullbox locations for pole, ductline and pullbox locations.

1/31/17	Removed walls due to revised Arch 3 site locations \$ field buffers
8/1/16	Shift in Ala Nui Kaloko to match 2 exist. access road; Added elec. \$
	traffic signal note instead of
	stationing, ret. wall identification
	∧ Civil util. \$ SB B realignment;
1/22/16	/ 1 \ Added drainage infrastructure/ret.
	└──wall per MOA; Added elec. poles ♦
	boxes; Reduced median shoulder
DATE	REVISION

STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION

ROADWAY TYPICAL SECTIONS

QUEEN KAAHUMANU HIGHWAY WIDENING Kealakehe Pkwy. To Keahole Airport Rd.(Ph. 2)

Federal Aid Project No. NH-019-1(38)R Scale: AS NOTED Date: DECEMBER 2016

SHEET No. 9

luten W. DrakeAPRIL 30, 2018 EXPIRATION DATE OF THE LICENSE

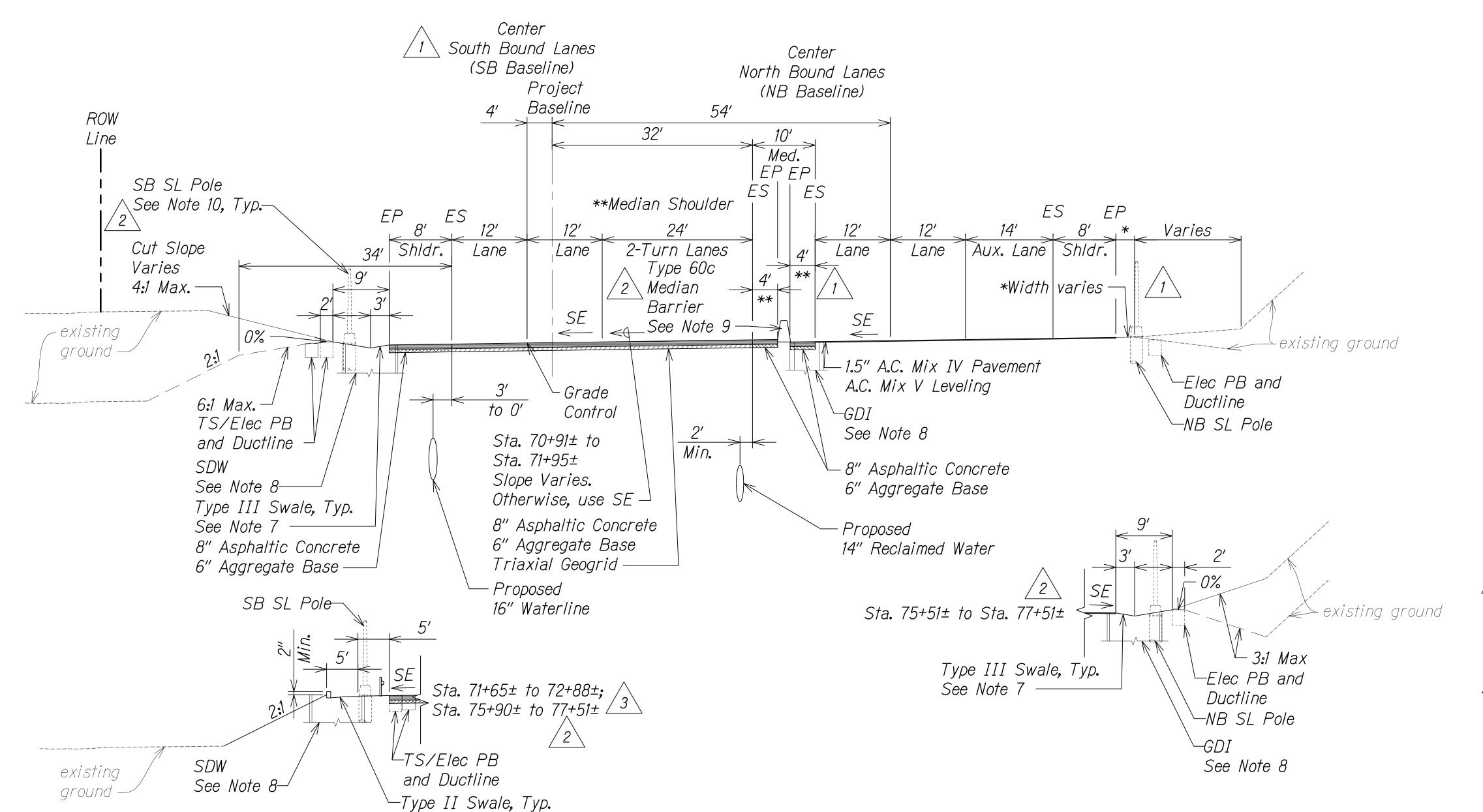
LICENSED PROFESSIONAL ENGINEER

∖NO. 13059-C

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION AND

CONSTRUCTION OF THIS PROJECT WILL BE UNDER MY OBSERVATION.

OF 24 SHEETS



See Note 7

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-019-1(38)R	2016	C.O. 22	528

NOTES:

- 1. As directed by HDOT, correct distressed areas with 9.5" Asphaltic Concrete and 6" Aggregate Base over properly repaired subgrade.
- 2. For median swale grading: 5% Minimum 16.7% Maximum
- 3. For median unpaved sections use 6" minus backfill material (unless otherwise indicated on landscape plans).
- 4. All Stations referred to the South Bound Baseline.
- 5. Refer to the Baseline Data plans for the South Bound alignment information.
- 6. Contractor to submit Reconstruction Pavement Plans for Engineer's approval prior to start of work.

For Swale section, see Sht. 13S-1.

- 8. See Grading and Drainage Plans for exact locations and structure/grate types.
- See Sht. 528S-1 for median barrier detail.
- 70. See Electrical and Traffic Signal Drawings for pole, ductline and pullbox locations.

Removed walls due to revised Arch

Changed median barrier type; Added

 $^{\prime}$ 2 \setminus elec. pprox traffic signal note, ret. wall

Civil util. ♥ SB ฿ realignment;

Added drainage infrastructure/ret.

`walls per MOA; Added elec. poles 🕏

REVISION

boxes; Reduced median shoulder

identification; Revised limits

 $\sqrt{3}$ site locations ϕ field buffers



CONSTRUCTION OF THIS PROJECT WILL BE UNDER MY OBSERVATION. Cuten W. Drake APRIL 30, 2018

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION AND

QUEEN KAAHUMANU HIGHWAY WIDENING Kealakehe Pkwy. To Keahole Airport Rd.(Ph. 2) Federal Aid Project No. NH-019-1(38)R

Scale: AS NOTED Date: DECEMBER 2016 SHEET No. 10 OF 24 SHEETS

STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION

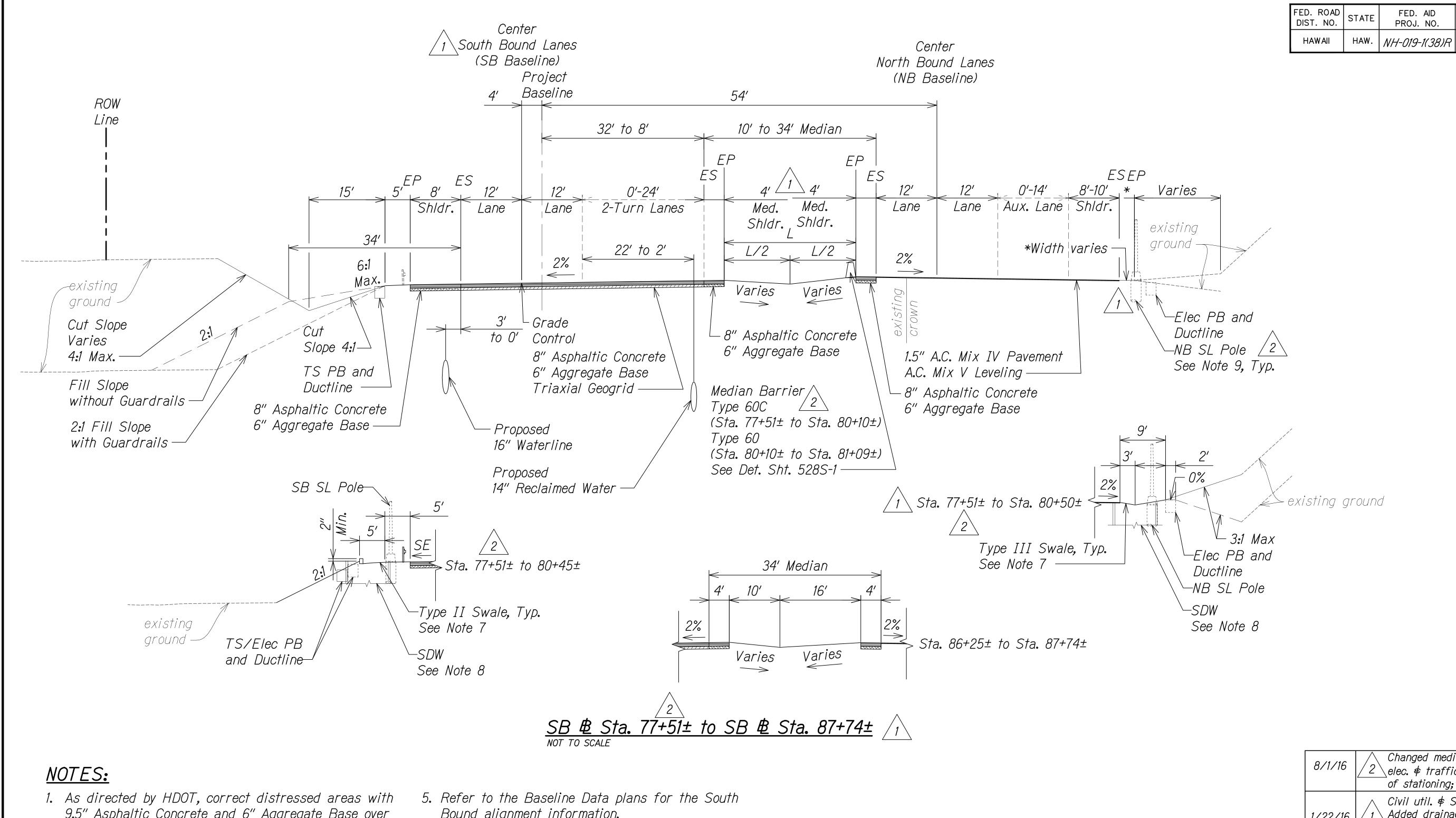
ROADWAY TYPICAL SECTIONS

EXPIRATION DATE
OF THE LICENSE

1/22/16

DATE

SB & Sta. 70+91± to SB & Sta. 77+51±



- 9.5" Asphaltic Concrete and 6" Aggregate Base over properly repaired subgrade.
- 2. For median swale grading: 5% Minimum 16.7% Maximum
- 3. For median unpaved sections use 6" minus backfill material (unless otherwise indicated on landscape plans).
- 4. All Stations referred to the South Bound Baseline.

- Bound alignment information.
- 6. Contractor to submit Reconstruction Pavement Plans for Engineer's approval prior to start of work.
- 7. For Swale section, see Sht. 13S-1.
- 8. See Grading and Drainage Plans for exact locations and structure/grate types.
- See Electrical and Traffic Signal Drawings for pole, ductline and pullbox locations.

8/1/16	Changed median barrier type; Added 2 elec.
0/1/10	<u> </u>
	of stationing; Revised limits
1/22/16	/ 1 \ Added drainage infrastructure per
77 227 70	$\stackrel{/}{\longrightarrow}$ MOA; Added elec. poles and boxes;
	Reduced median shoulder
DATE	REVISION

FISCAL SHEET YEAR NO.

2016

C.O. 22S-1

TOTAL SHEETS

528

STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION

ROADWAY TYPICAL SECTIONS

QUEEN KAAHUMANU HIGHWAY WIDENING Kealakehe Pkwy. To Keahole Airport Rd.(Ph. 2)

CONSTRUCTION OF THIS PROJECT WILL BE UNDER MY OBSERVATION. Federal Aid Project No. NH-019-1(38)R Scale: AS NOTED Date: DECEMBER 2016

LICENSED PROFESSIONAL ENGINEER

NO. 13059-C

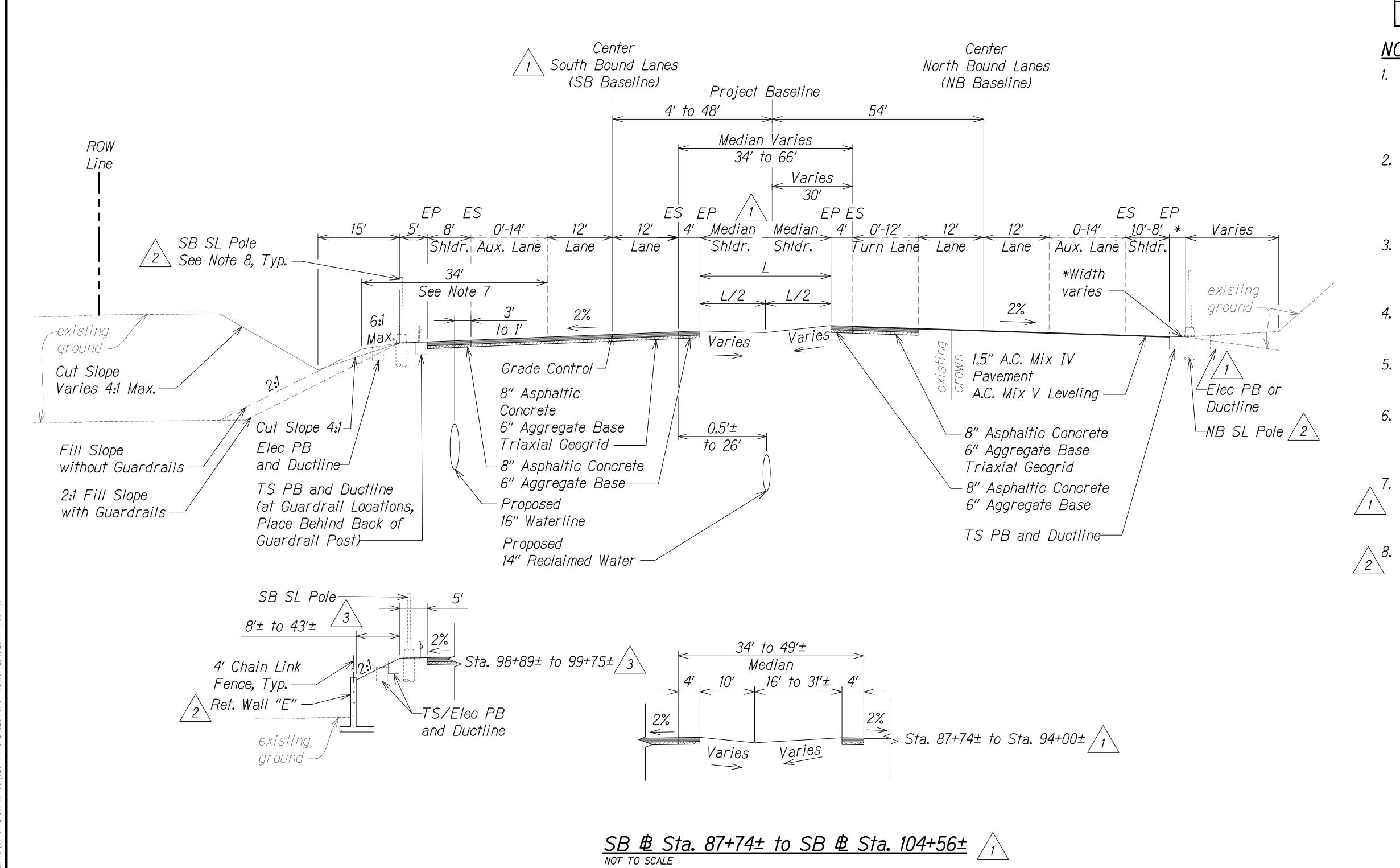
THIS WORK WAS PREPARED BY

ME OR UNDER MY SUPERVISION AND

Cuten W. Drake APRIL 30, 2018 EXPIRATION DATE
OF THE LICENSE SHEET No. 10A OF 24 SHEETS

C.O. 22S-1





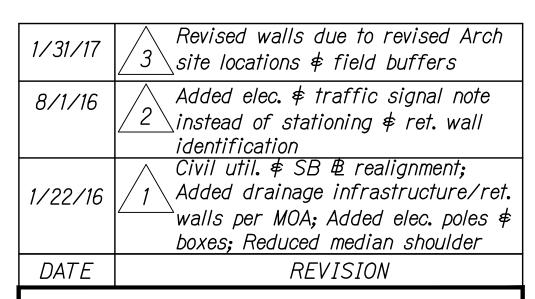
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-019-1(38)R	2016	C.O. 23	528

NOTES:

- 1. As directed by HDOT, correct distressed areas with 9.5" Asphaltic Concrete and 6" Aggregate Base over properly repaired subgrade.
- 2. For median swale grading (except at locations with barriers):
 5% Minimum
 16.7% Maximum
- 3. For median unpaved sections use 6" minus backfill material (unless otherwise indicated on landscape plans).
- 4. All Stations referred to the South Bound Baseline.
- 5. Refer to the Baseline Data plans for the South Bound alignment information.
- 6. Contractor to submit Reconstruction Pavement Plans for Engineer's approval prior to start of work.

7. Width of 6:1 foreslope varies adjacent to Auxiliary Lanes. See cross sections for dimensions.

8. See Electrical and Traffic Signal Drawings for pole, ductline and pullbox locations.



STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION

ROADWAY TYPICAL SECTIONS

QUEEN KAAHUMANU HIGHWAY WIDENING Kealakehe Pkwy. To Keahole Airport Rd.(Ph. 2)

Federal Aid Project No. NH-019-1(38)R

Scale: AS NOTED Date: DECEMBER 2016

SHEET No. 11 OF 24 SHEETS

LICENSED PROFESSIONAL ENGINEER

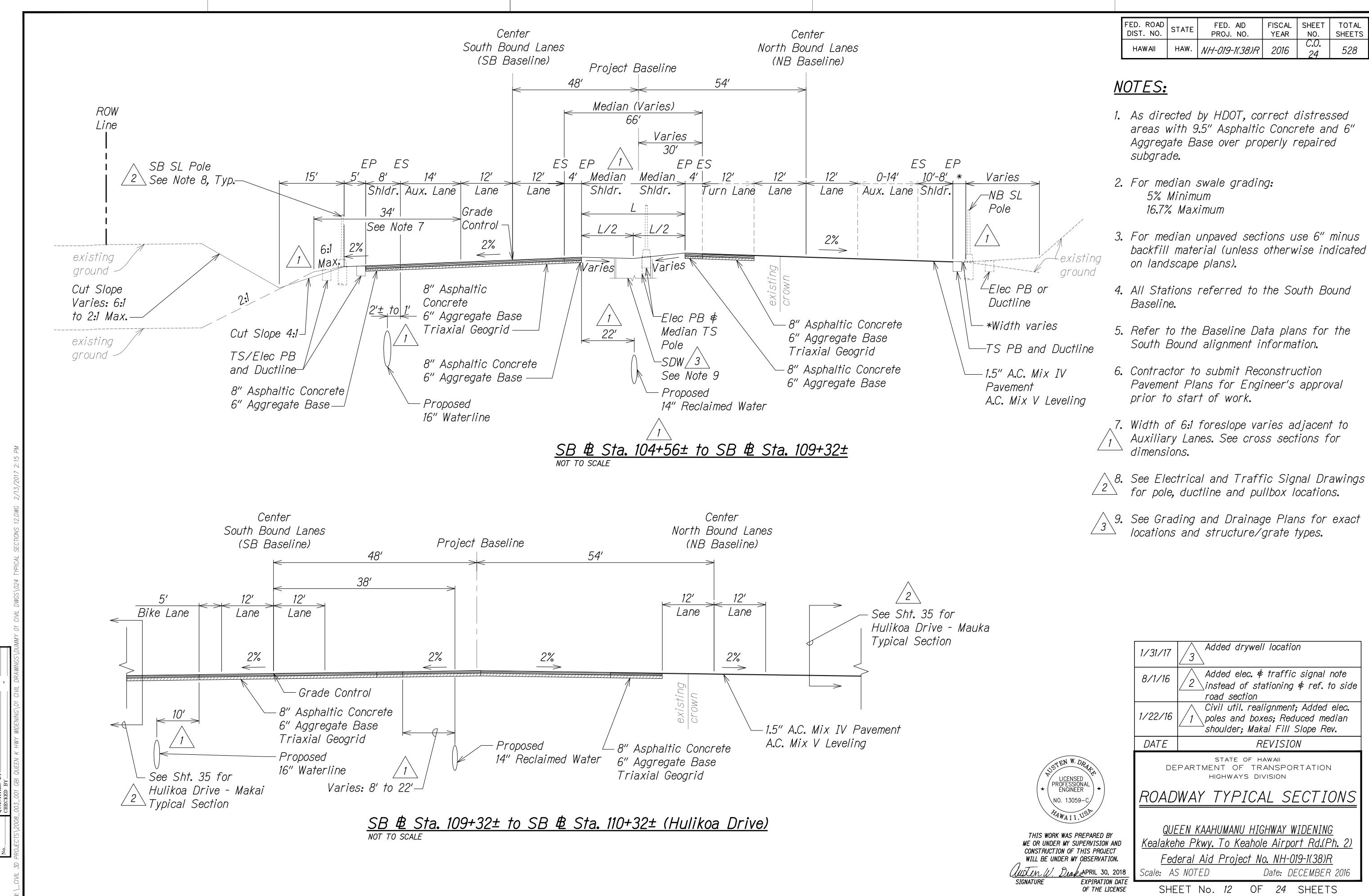
∖NO. 13059-C

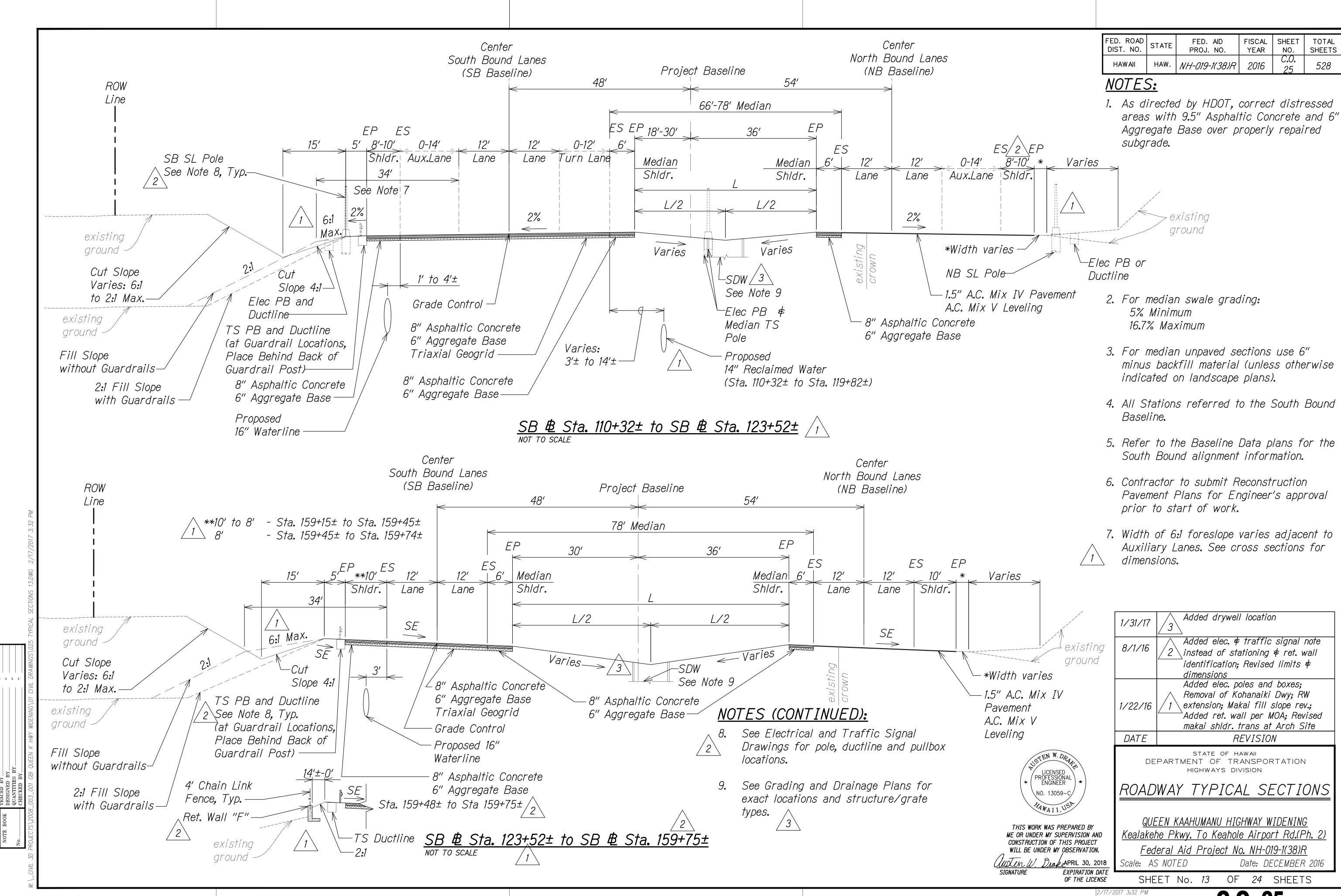
THIS WORK WAS PREPARED BY

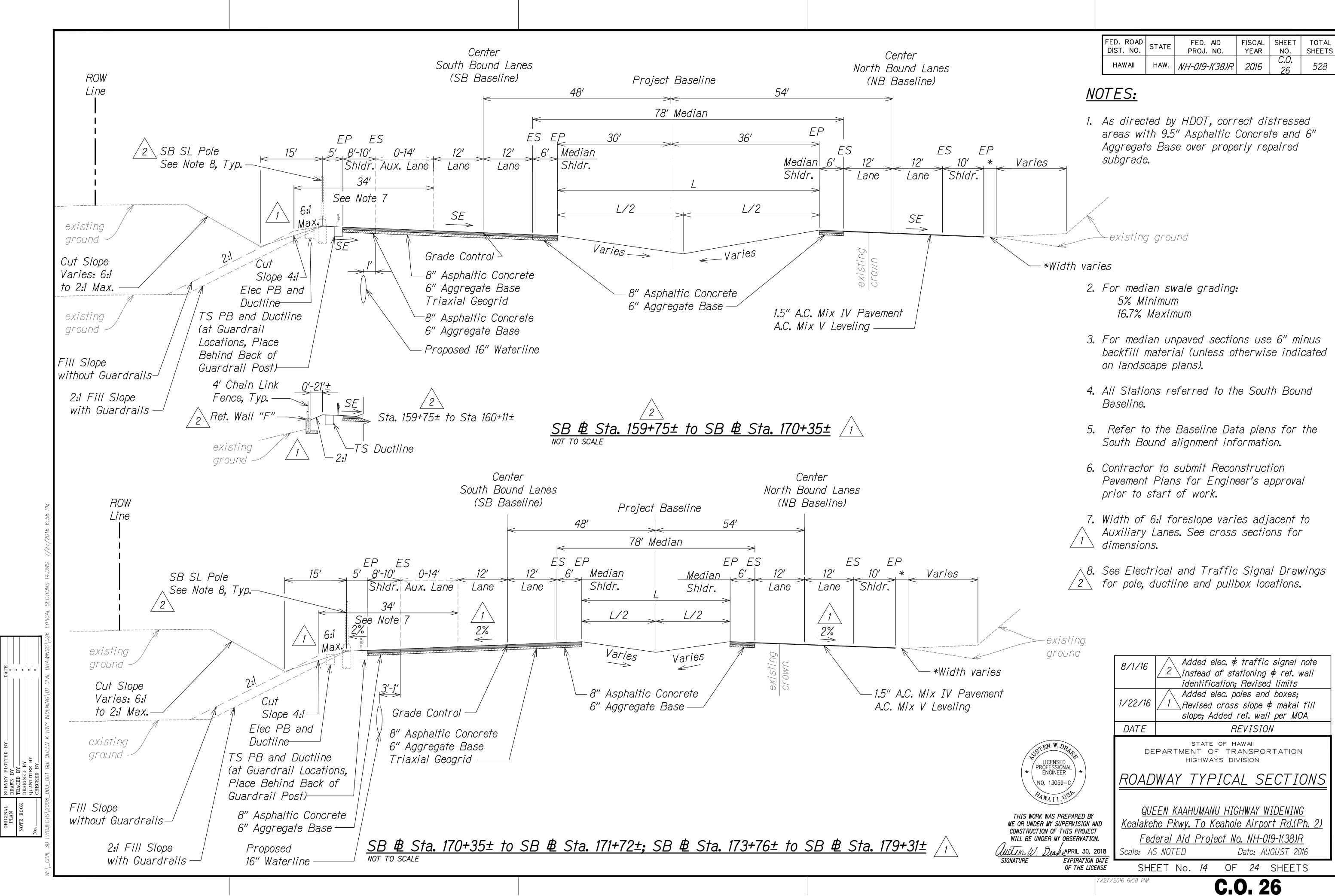
Clusten W. Drake APRIL 30, 2018

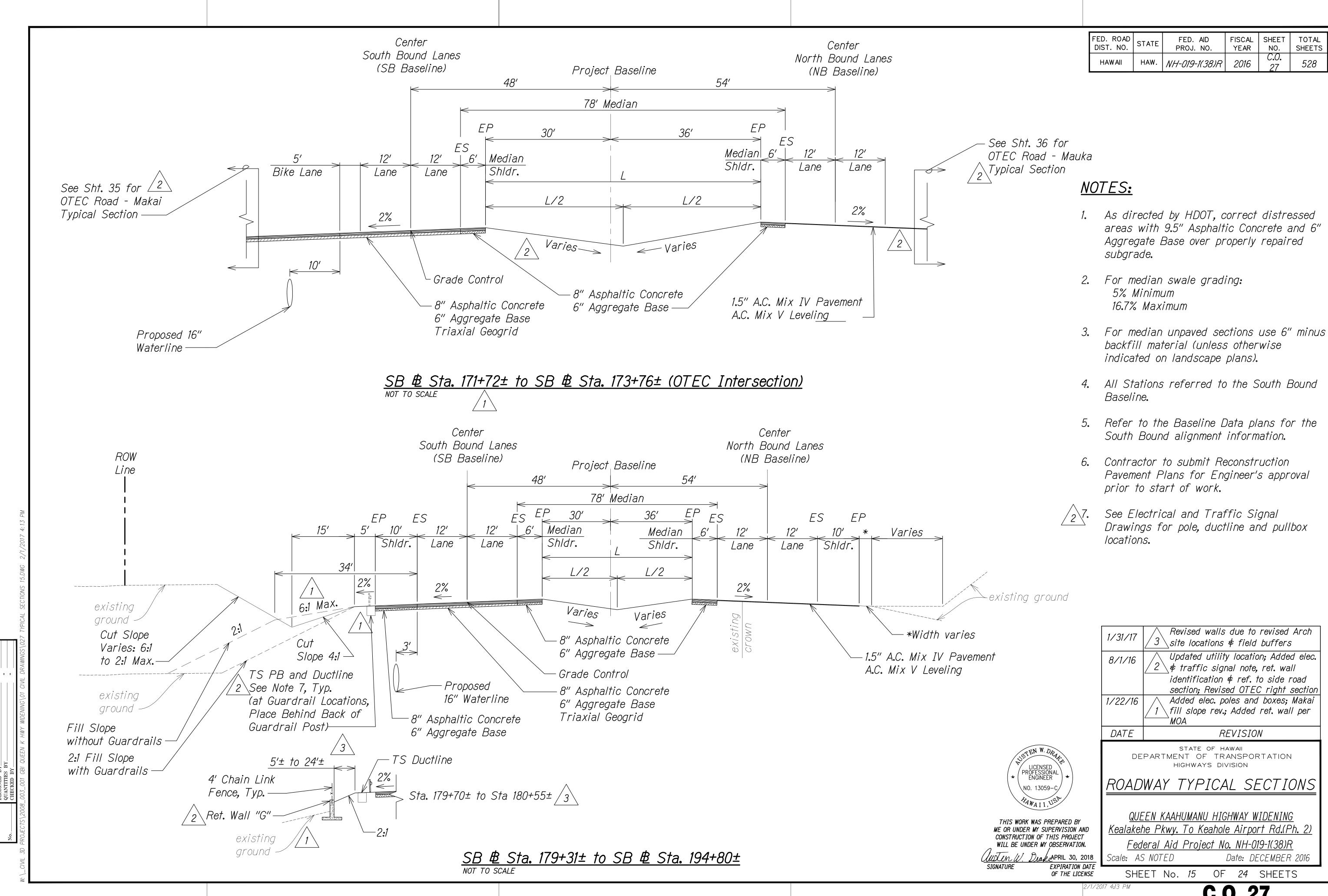
EXPIRATION DATE
OF THE LICENSE

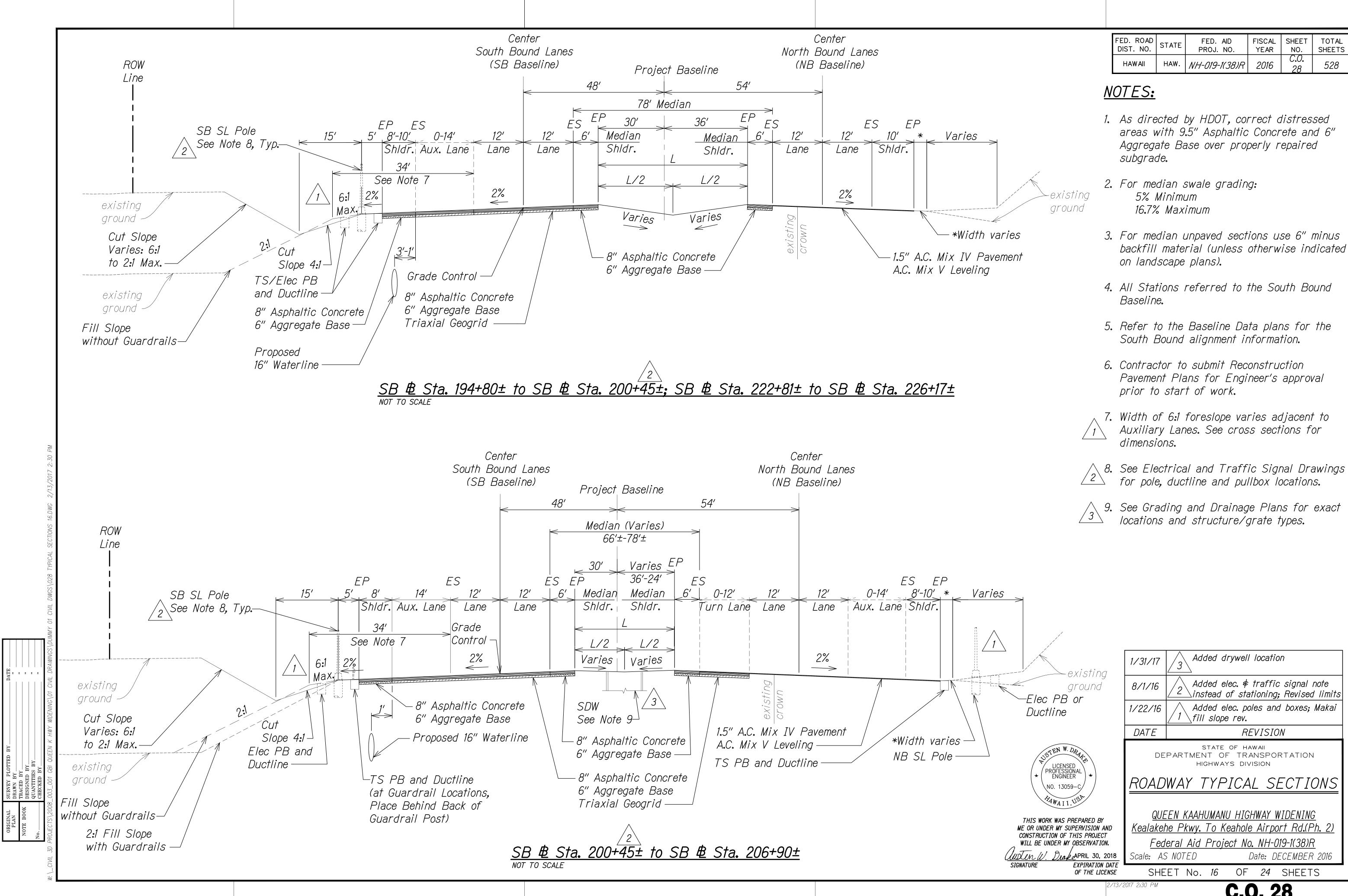
ME OR UNDER MY SUPERVISION AND CONSTRUCTION OF THIS PROJECT WILL BE UNDER MY OBSERVATION.

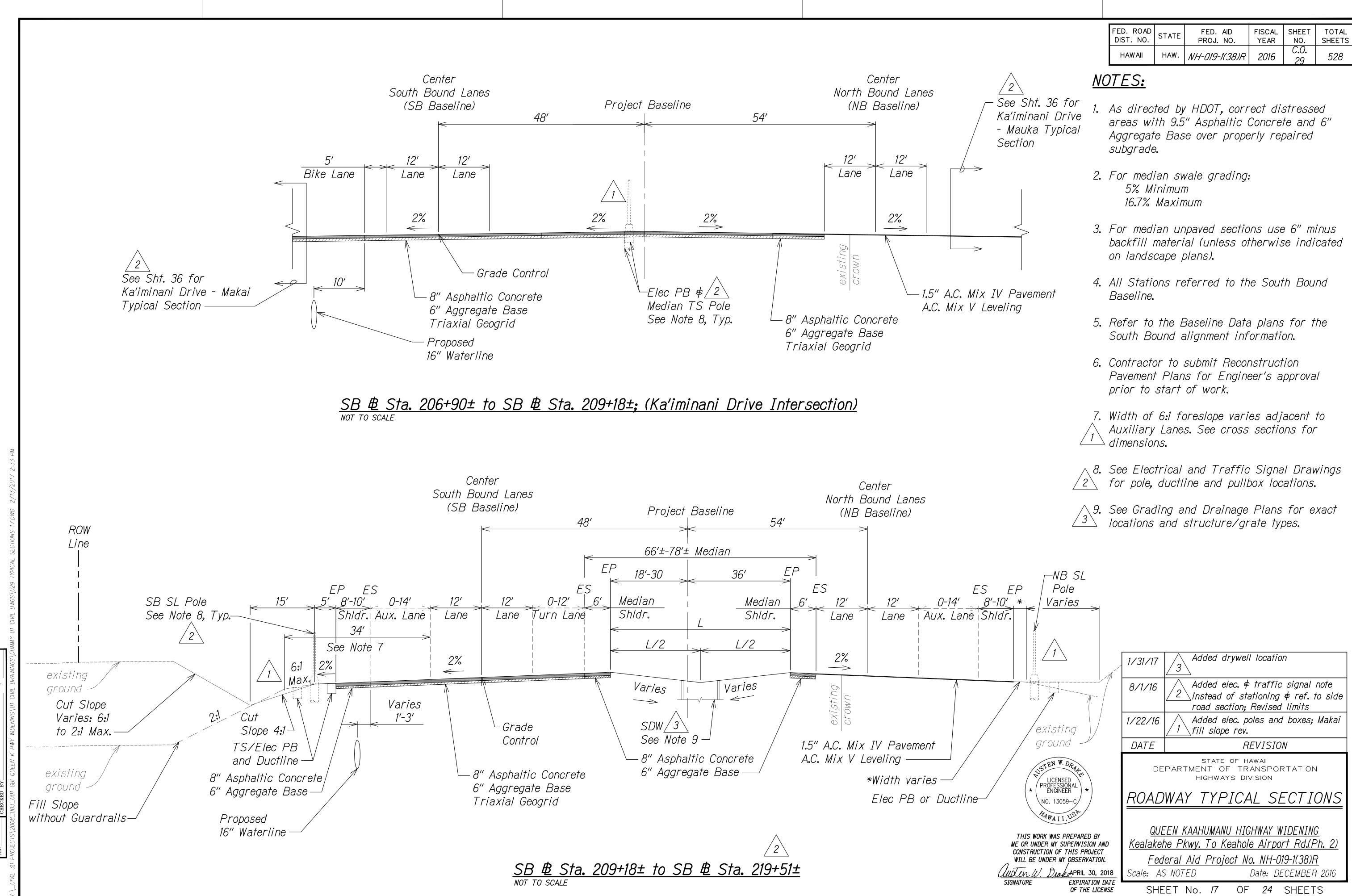


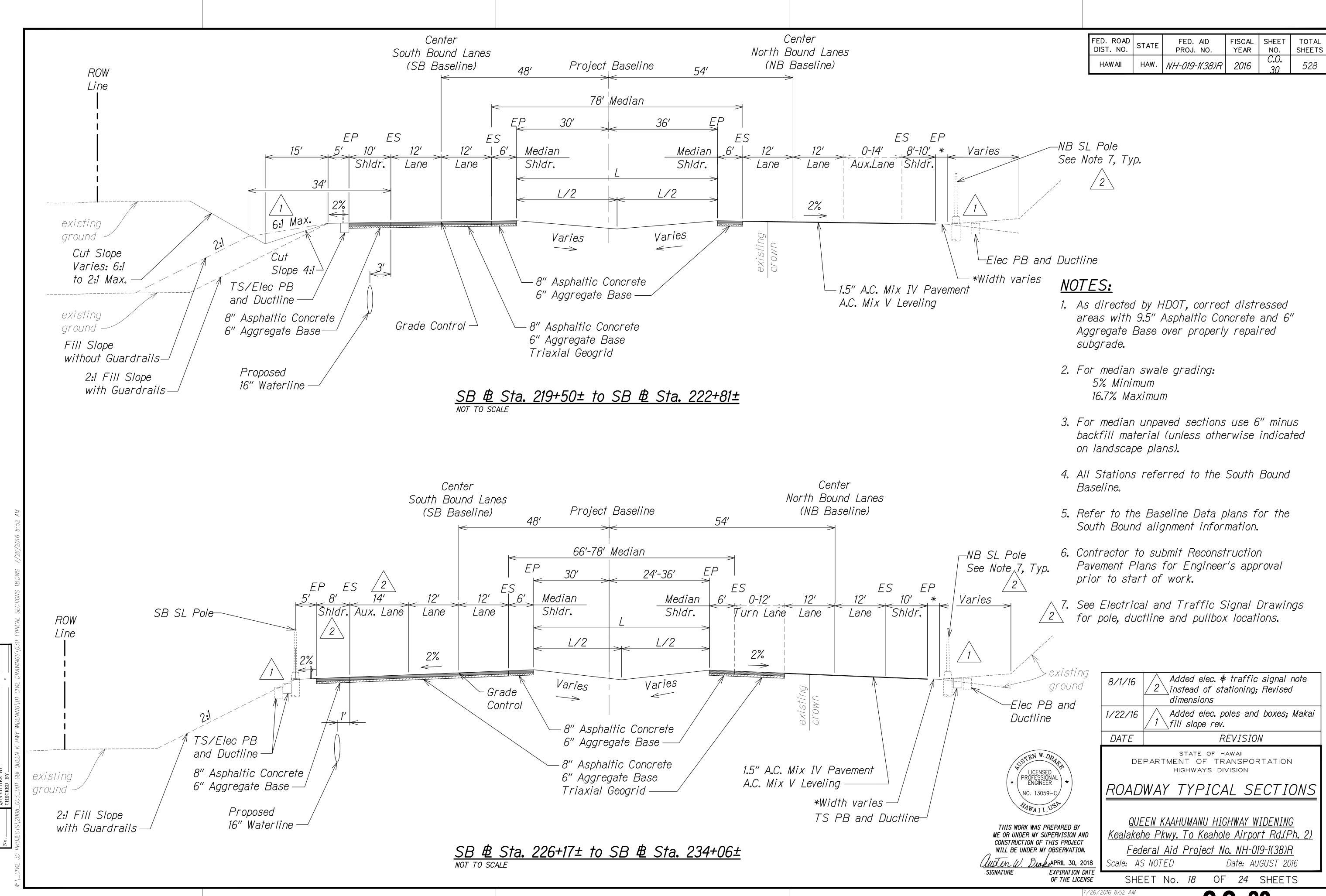


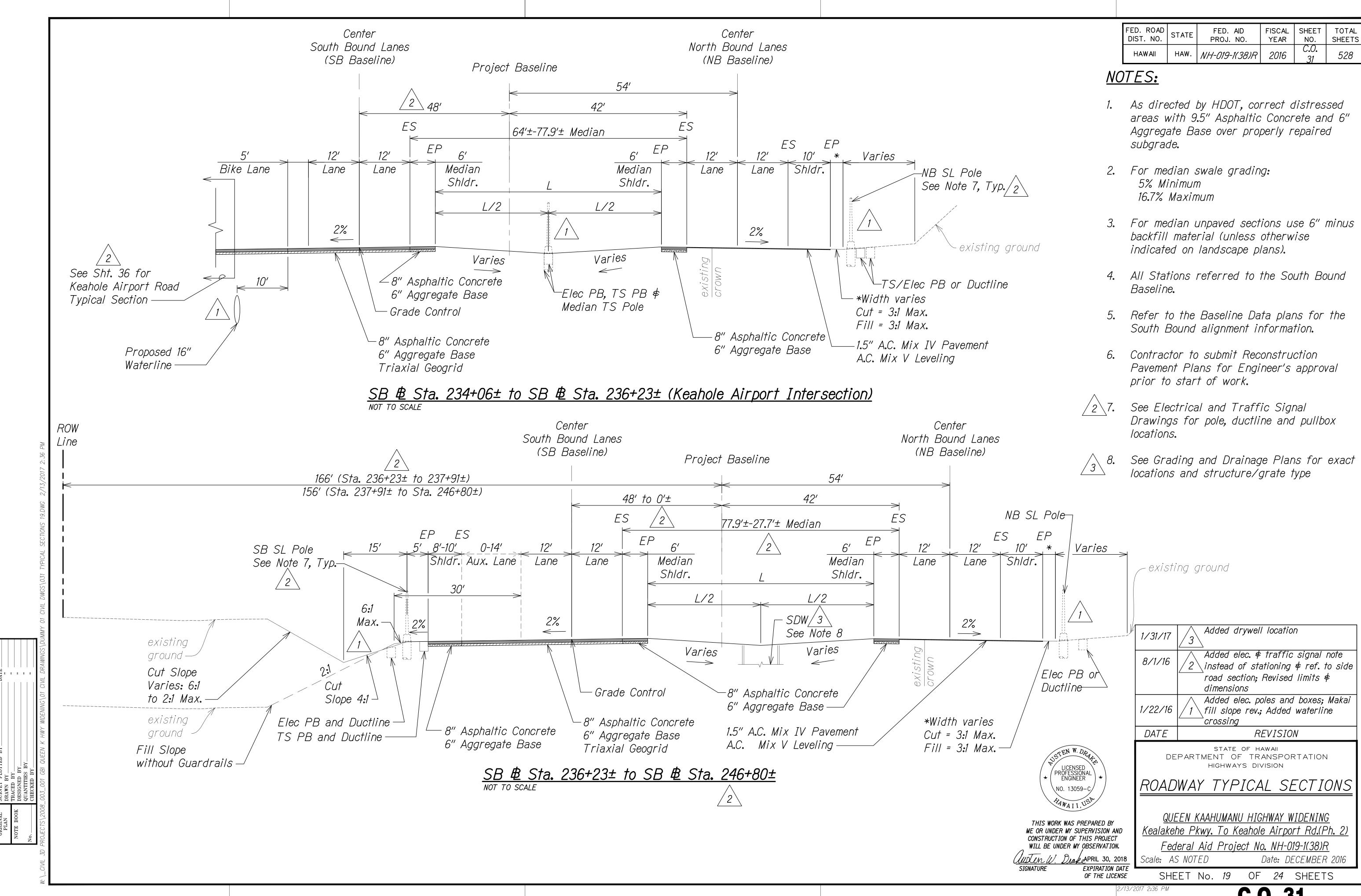


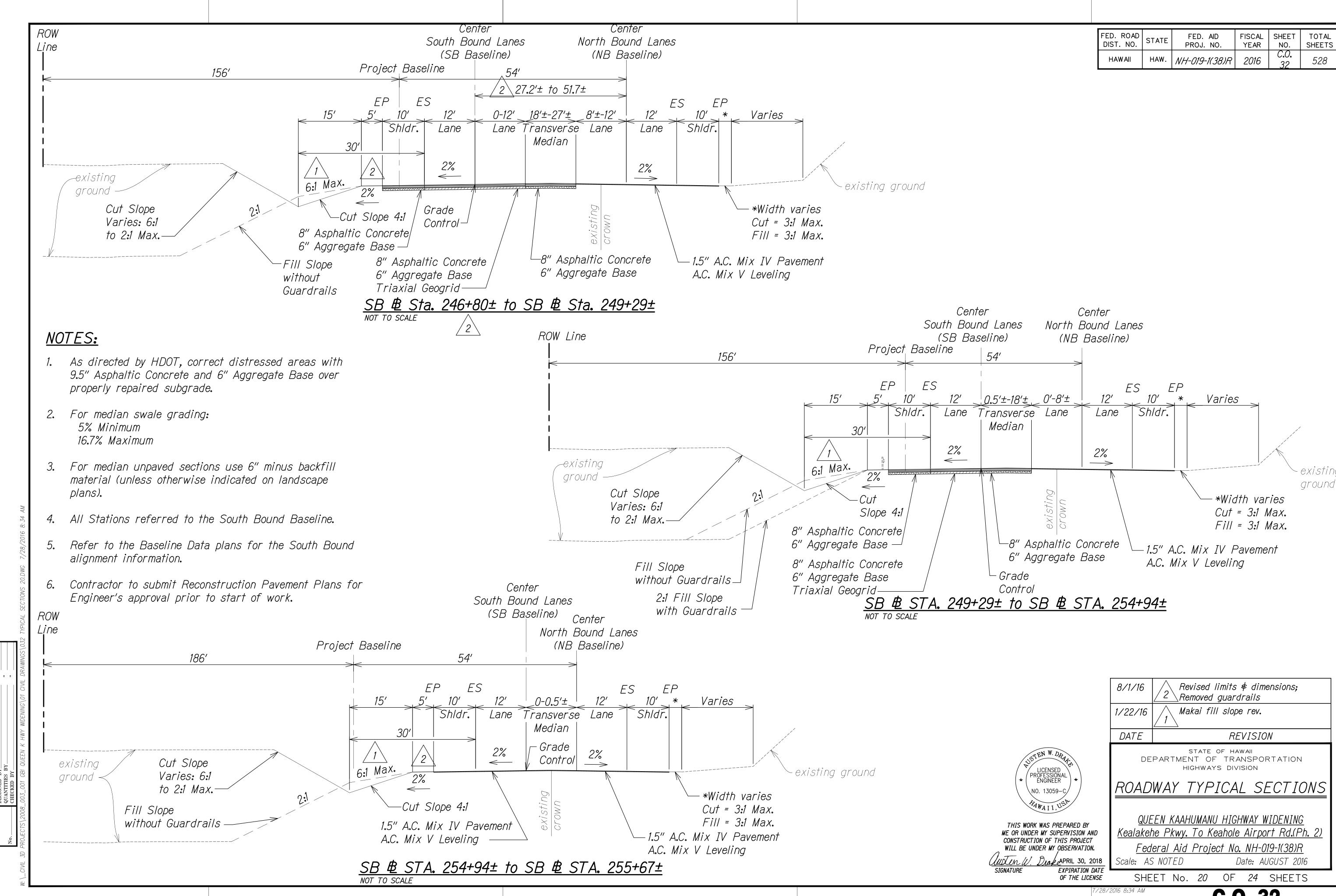


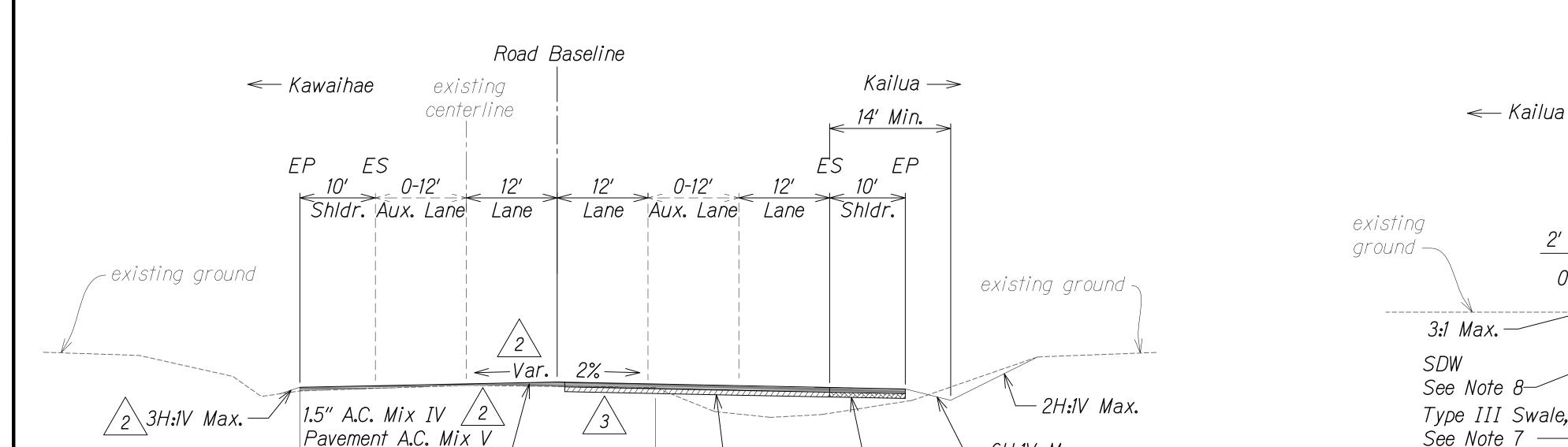












-6.5" Asphaltic Concrete (State ROW) 3.5" Asphaltic Concrete (County ROW) 6" Aggregate Base Triaxial Geogrid

-6H:1V Max.

6" Aggregate Base

6.5" Asphaltic Concrete (State ROW)

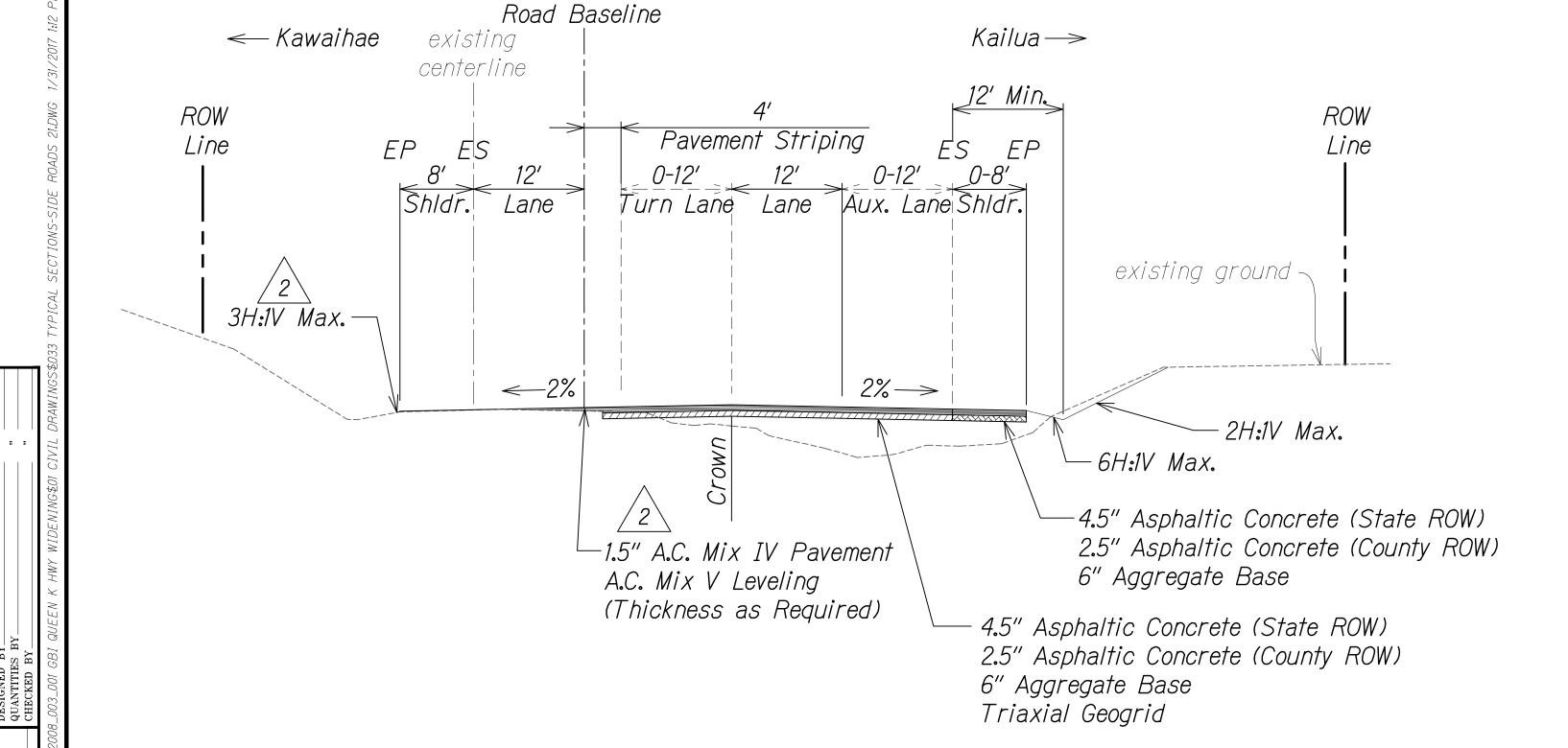
3.5" Asphaltic Concrete (County ROW)

KEALAKEHE PARKWAY (MAUKA) NOT TO SCALE

Leveling (Thickness

limits of existing pavement

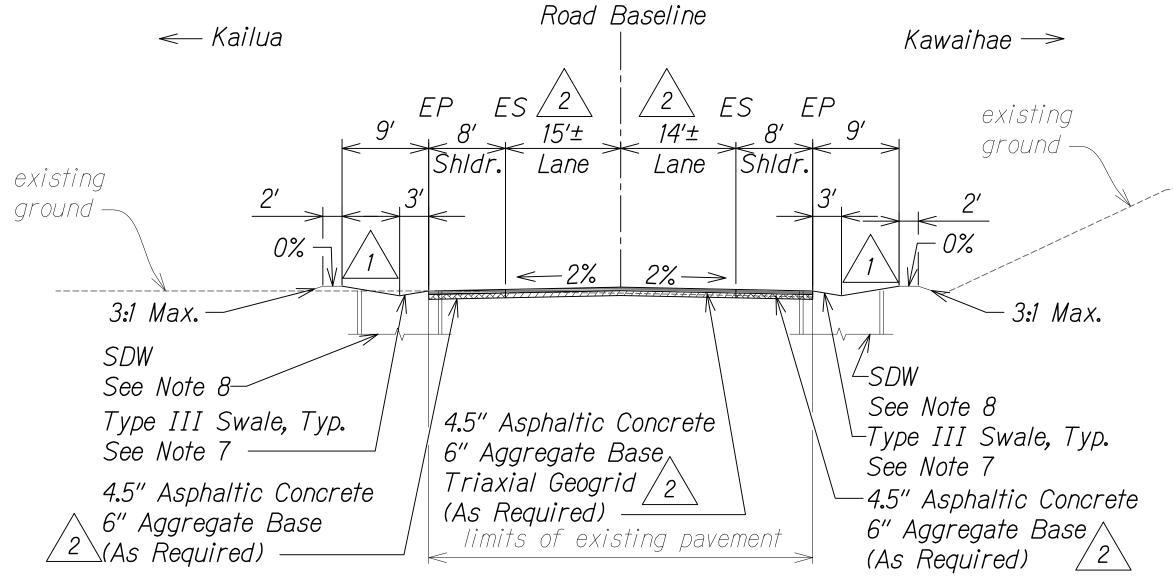
as Required)-



KEALAKEHE PARKWAY (MAKAI)

NOT TO SCALE

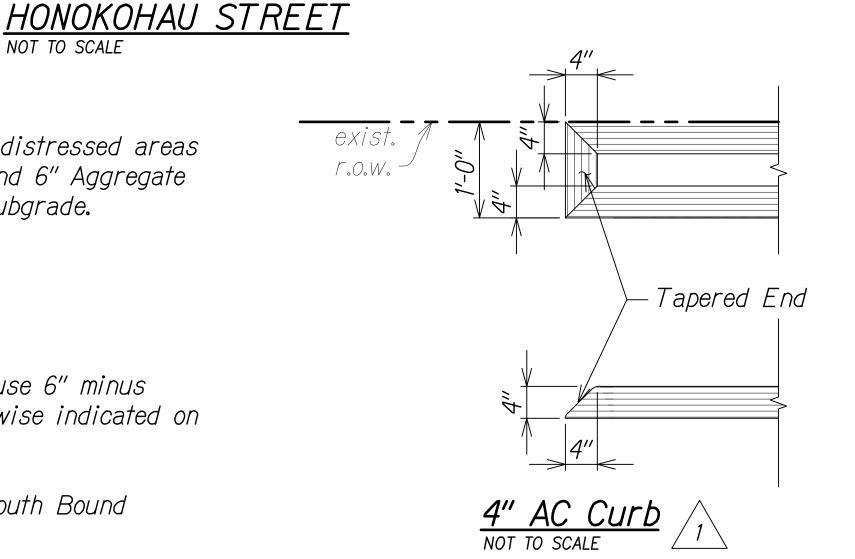
FED. ROAD DIST. NO. FISCAL SHEET YEAR NO. FED. AID PROJ. NO. TOTAL SHEETS NH-019-1(38)R 2016 528



NOT TO SCALE

NOTES:

- 1. As directed by HDOT, correct distressed areas with 9.5" Asphaltic Concrete and 6" Aggregate Base over properly repaired subgrade.
- 2. For median swale grading: 5% Minimum 16.67% Maximum
- 3. For median unpaved sections use 6" minus backfill material (unless otherwise indicated on landscape plans).
- 4. All Stations referred to the South Bound Baseline.
- 5. Refer to the Baseline Data plans for the South Bound alignment information.
- 6. Contractor to submit Reconstruction Pavement Plans for Engineer's approval prior to start of work.
- For Swale section, see Sht. 13S-1.
- See Grading and Drainage Plans for exact locations and structure/grate types.



1/31/17	Revised overlay and full pavement limits
8/1/16	Revised section callouts
1/22/16	Added drainage infrastructure per 1 MOA; Added AC curb detail
DATE	REVISION

STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION

ROADWAY TYPICAL SECTIONS

QUEEN KAAHUMANU HIGHWAY WIDENING Kealakehe Pkwy. To Keahole Airport Rd.(Ph. 2) Federal Aid Project No. NH-019-1(38)R

Scale: AS NOTED Date: DECEMBER 2016 OF 24 SHEETS

SHEET No. 21

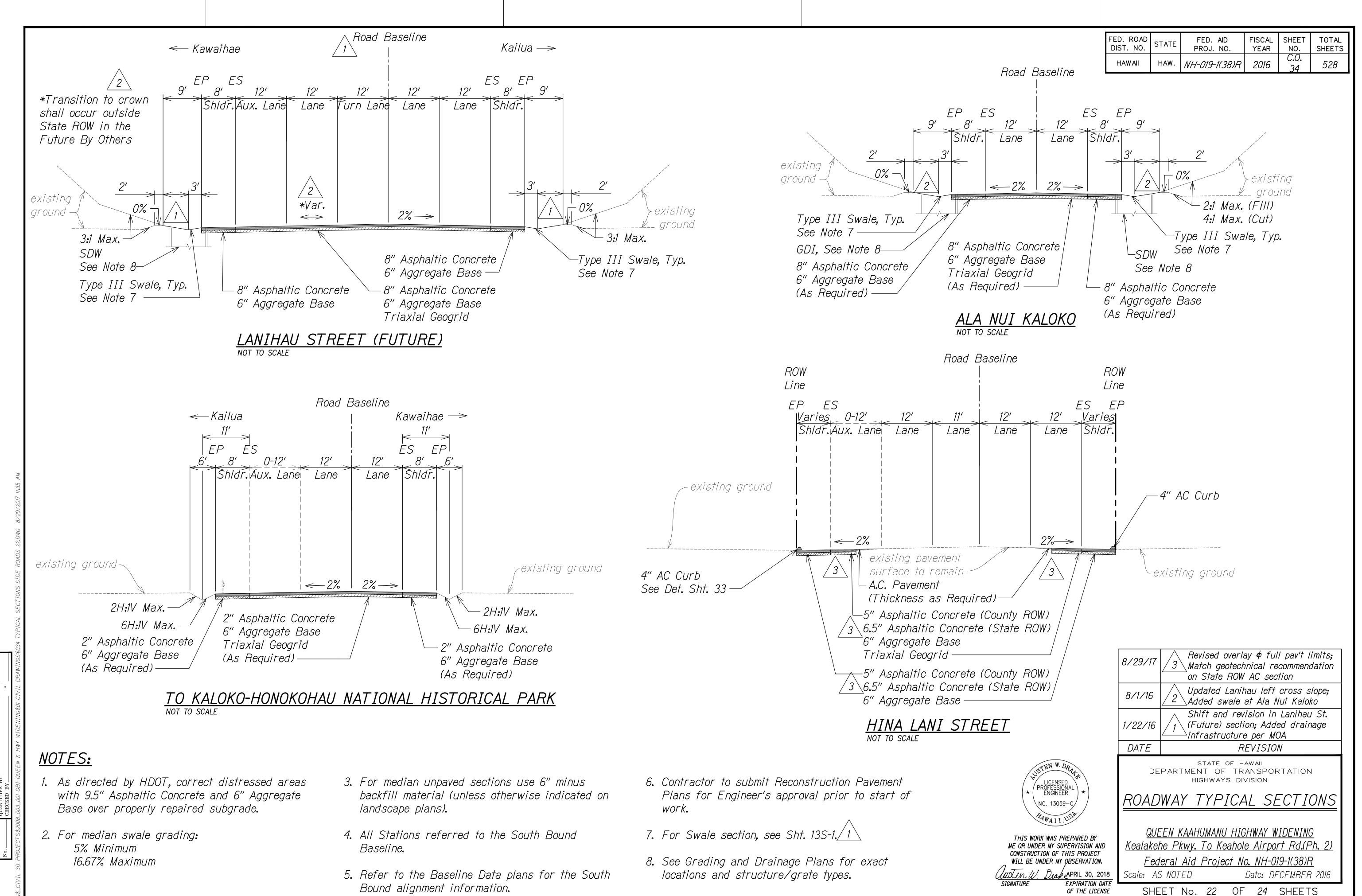
CONSTRUCTION OF THIS PROJECT WILL BE UNDER MY OBSERVATION. Cuten W. Drake APRIL 30, 2018 EXPIRATION DATE
OF THE LICENSE

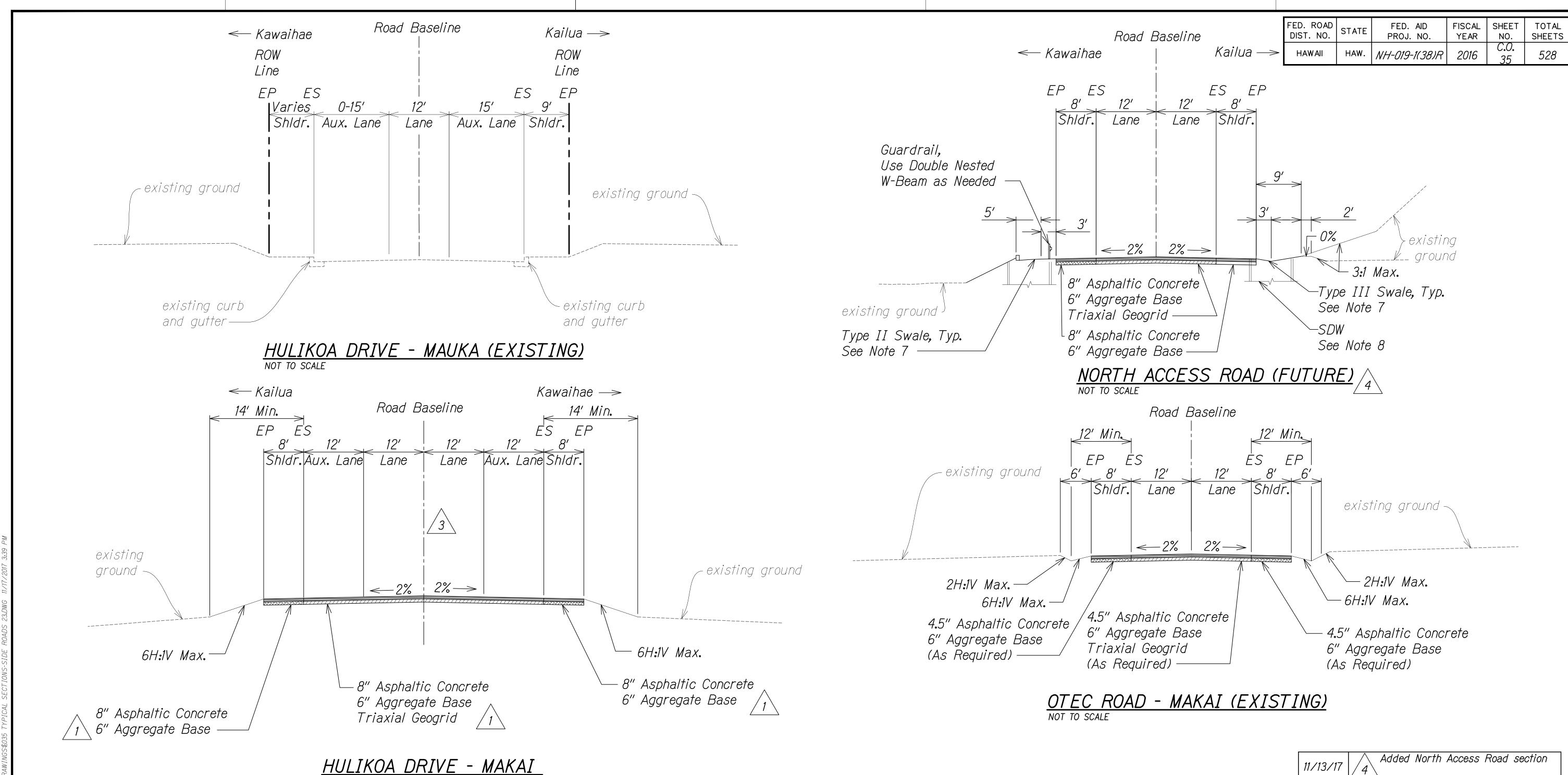
LICENSED PROFESSIONAL ENGINEER

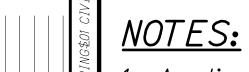
NO. 13059-C

THIS WORK WAS PREPARED BY

ME OR UNDER MY SUPERVISION AND







1. As directed by HDOT, correct distressed areas 4. All Stations referred to the South Bound with 9.5" Asphaltic Concrete and 6" Aggregate Base over properly repaired subgrade.

2. For median swale grading: 5% Minimum 16.67% Maximum

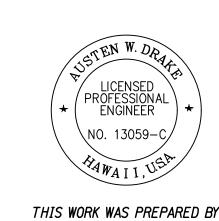
3. For median unpaved sections use 6" minus backfill material (unless otherwise indicated on landscape plans).

Baseline.

NOT TO SCALE

- 5. Refer to the Baseline Data plans for the South Bound alignment information.
- 6. Contractor to submit Reconstruction Pavement Plans for Engineer's approval prior to start of work.
- 7. For Swale section, see Sht. 13S-1.

8. See Grading and Drainage Plans for exact locations and structure/grate types.



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Cuten W. DrakeAPRIL 30, 2018 EXPIRATION DATE
OF THE LICENSE

Added North Access Road section 11/13/17 Shifted Hulikoa Drive - Makai 2/20/17 $\sqrt{3}$ baseline location to match exist. Revised pavement section for 1/22/16 / 1 Hulikoa Drive - Makai; Removed Kohanaiki Dwy section DATE REVISION STATE OF HAWAII

DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION

ROADWAY TYPICAL SECTIONS

QUEEN KAAHUMANU HIGHWAY WIDENING Kealakehe Pkwy. To Keahole Airport Rd.(Ph. 2)

Federal Aid Project No. NH-019-1(38)R Scale: AS NOTED Date: DECEMBER 2016

SHEET No. 23 OF 24 SHEETS



