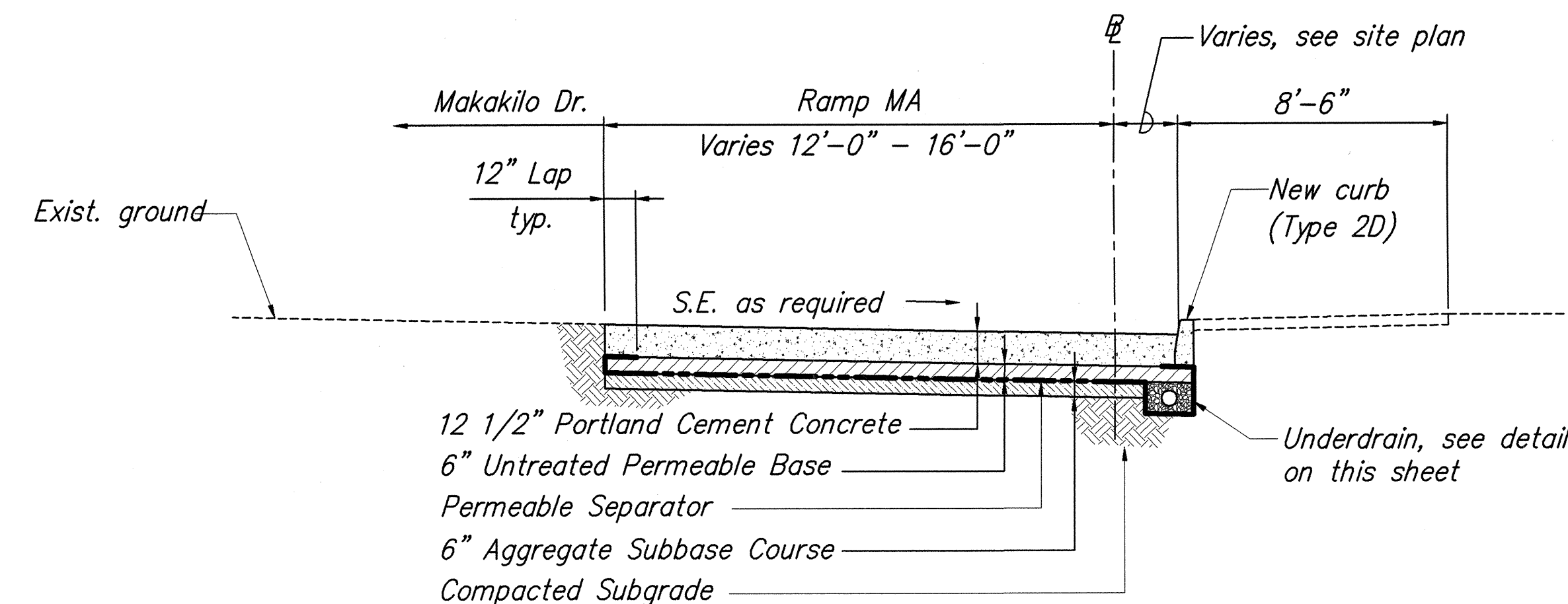
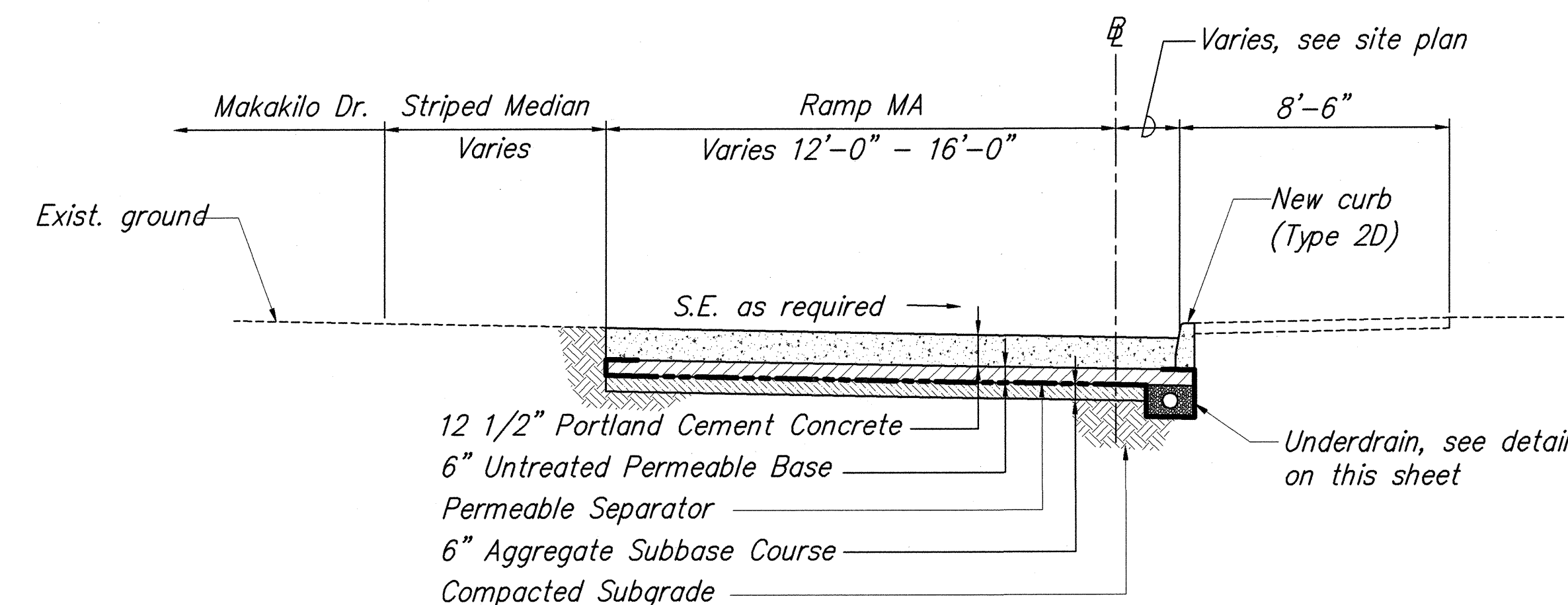


FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAWAII	H1A-01-02M	2003	6	88



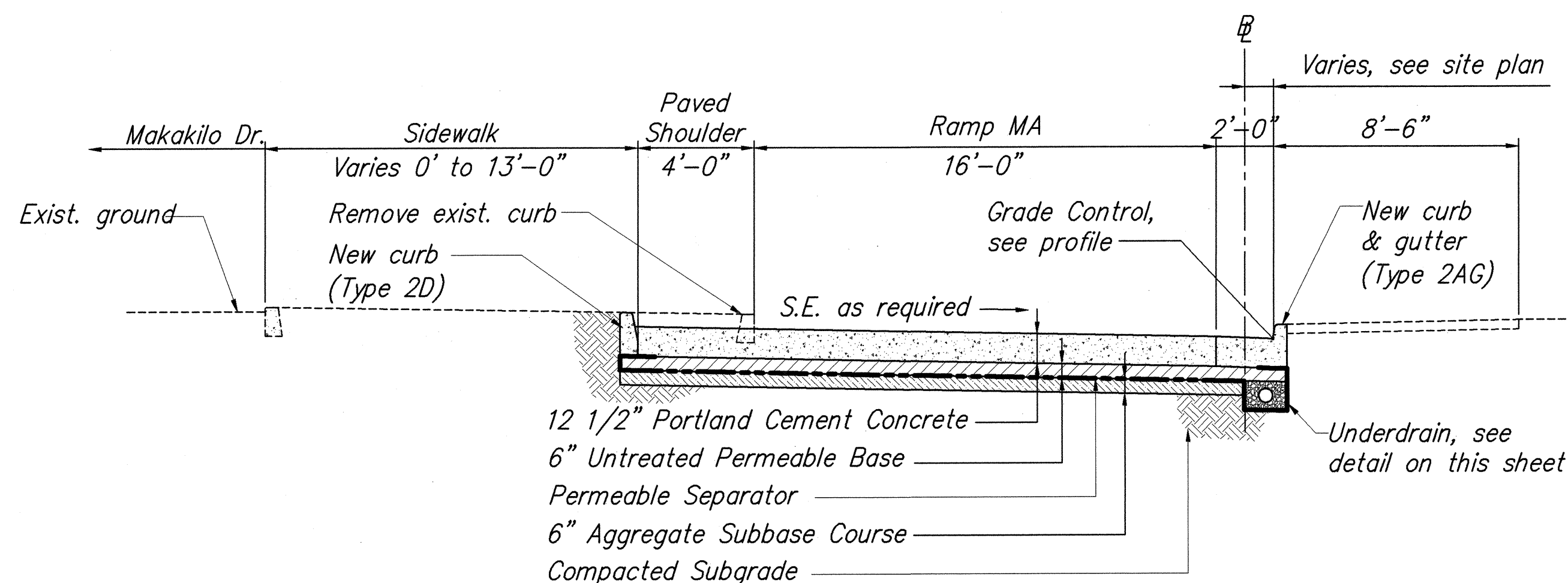
TYPICAL SECTION - MAKAKILO DRIVE RAMP MA @ STA. 0+00 TO @ STA. 1+04

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



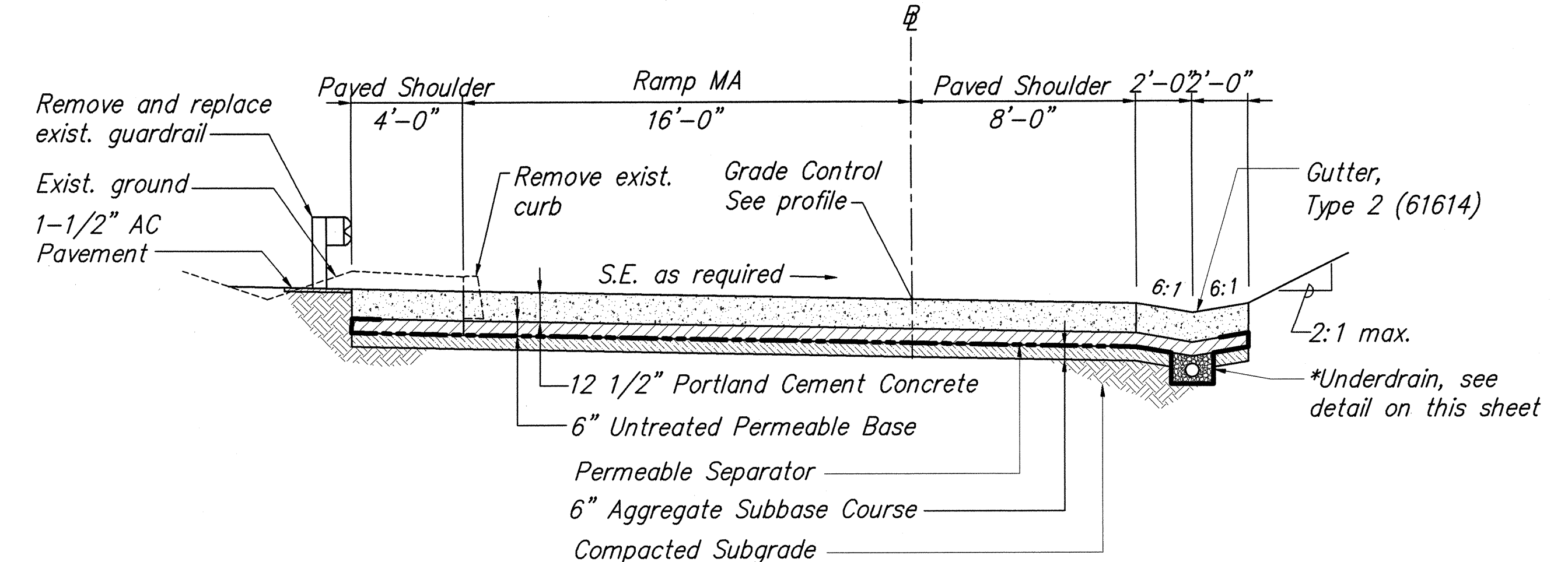
TYPICAL SECTION - MAKAKILO DRIVE RAMP MA @ STA. 1+04 TO @ STA. 1+46

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



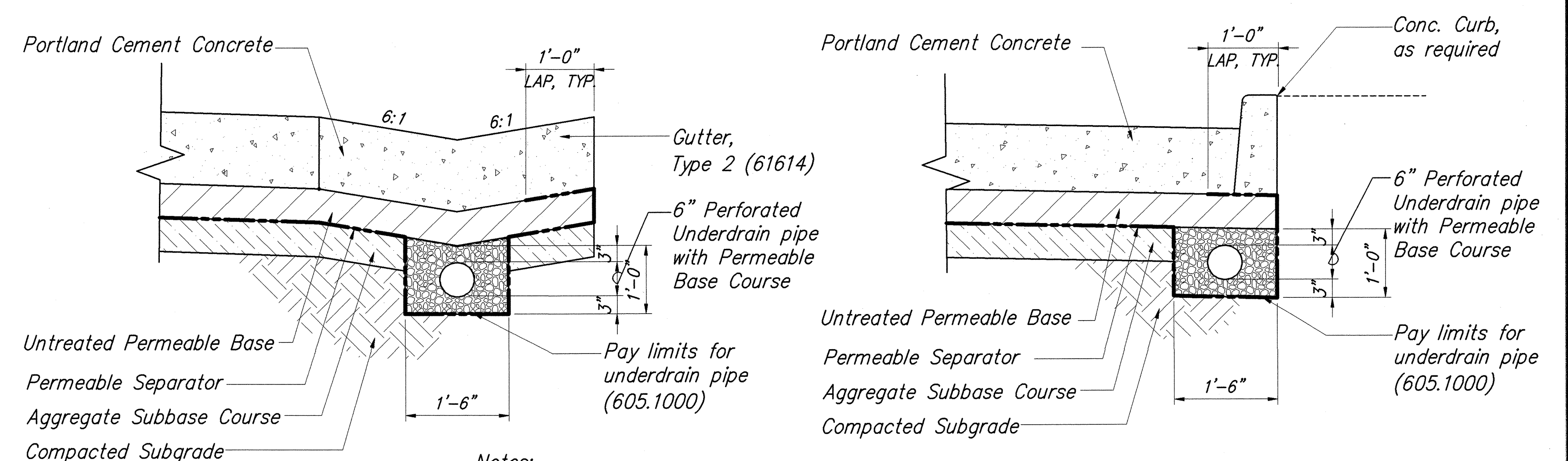
TYPICAL SECTION - MAKAKILO DRIVE RAMP MA @ STA. 1+46 TO @ STA. 1+72

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



TYPICAL SECTION - MAKAKILO DRIVE RAMP MA @ STA. 1+72 TO @ STA. 6+12.39

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



Notes:

1. Longitudinal Underdrains shall connect and drain into drainage structures (Catch Basins and Grated Drain Inlets) along curb/ gutters. Connections shall employ 6" non-perforated pipe.
2. Cleanouts for underdrain pipes shall be provided every 250 feet (maximum), see detail sht. C-22.

LONGITUDINAL UNDERDRAIN

BELOW GUTTER

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

Note:

Shoulders shall have a maximum slope of (-) 5.0% except when the algebraic difference in cross slope at the pavement edge exceeds 7.0% or when the pavement superelevation sloping down to the shoulder exceeds (-) 5.0% then the pavement superelevation shall continue through the shoulder.

LONGITUDINAL UNDERDRAIN

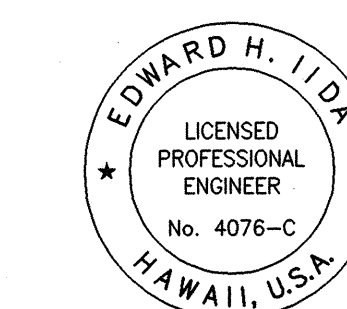
BELOW PCC

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

GRAPHIC SCALE:



SCALE: 1/4" = 1'-0"



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MITSUNAGA & ASSOCIATES

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

TYPICAL SECTIONS - 1

INTERSTATE ROUTE H-1 REHABILITATION

Vicinity Of Makakilo Interchange

Project No. H1A-01-02M

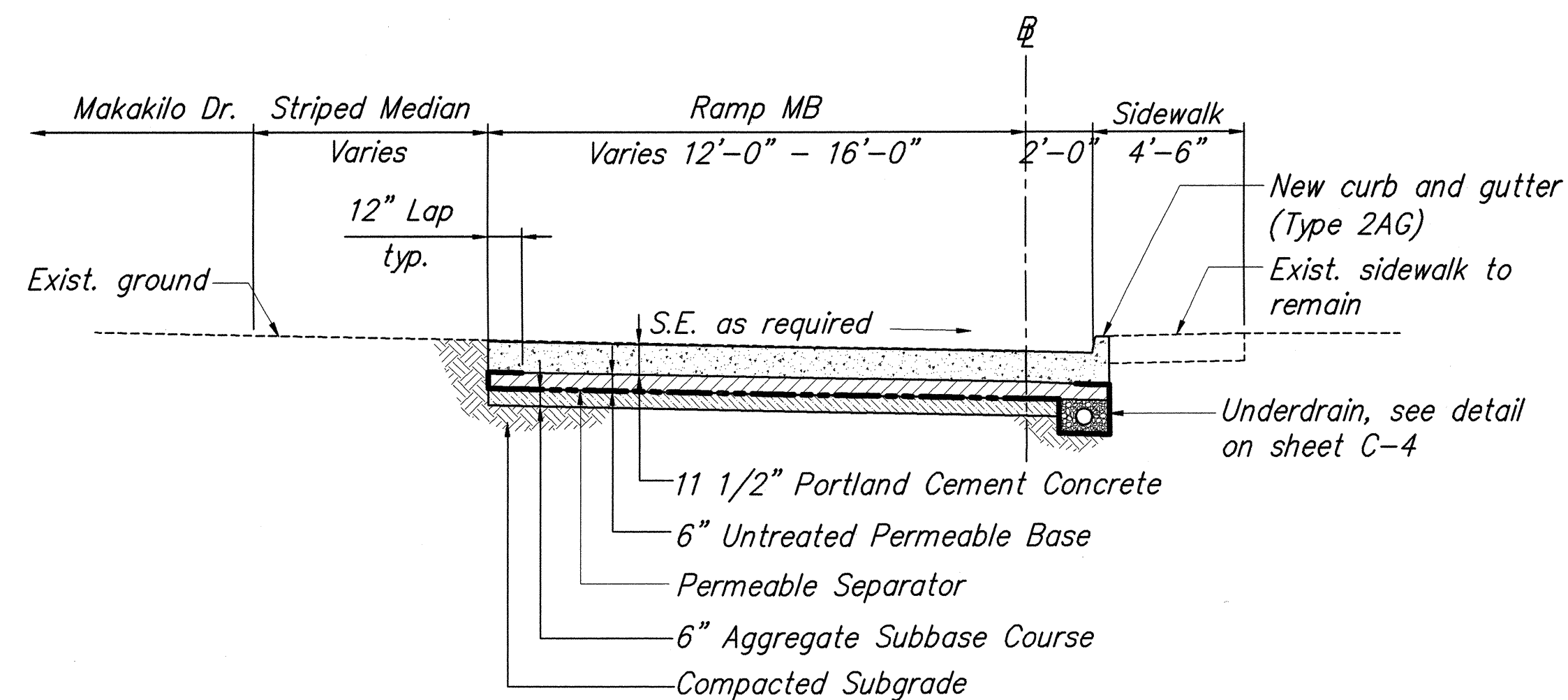
Scale: As Noted

Date: April 2003

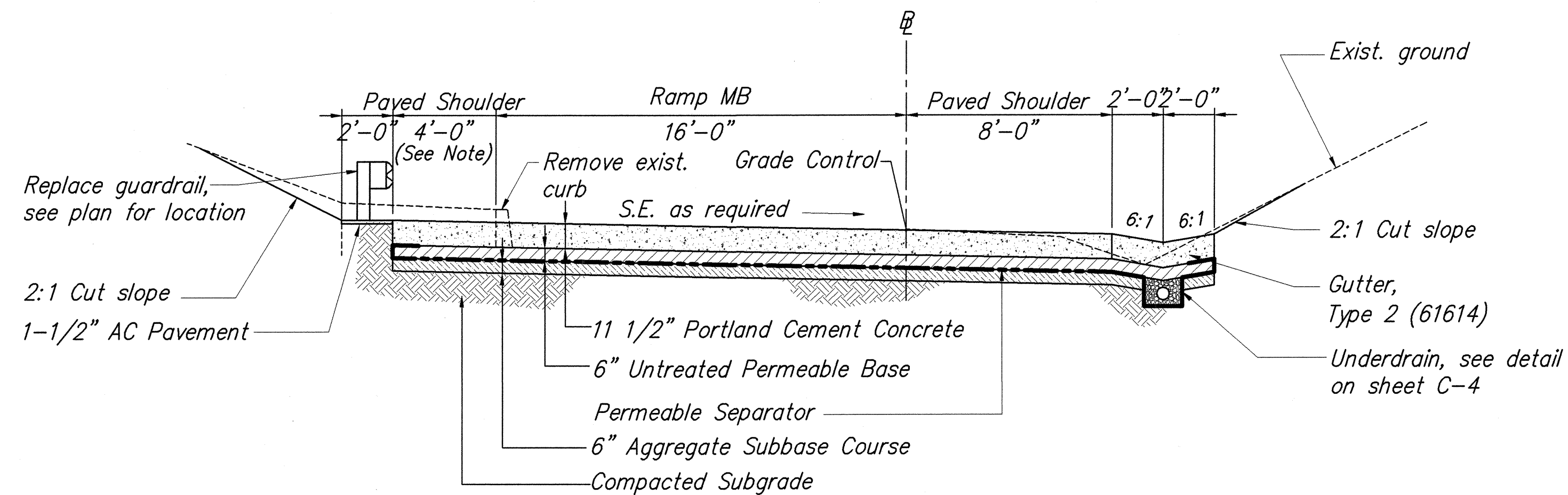
SHEET No. C-4 OF 42 SHEETS

ORIGINAL PLAN	DATE
NO.	
DESIGNED BY	DATE
CHECKED BY	DATE
QUANTITIES BY	DATE
DESIGNED BY	DATE
CHECKED BY	DATE
QUANTITIES BY	DATE
DESIGNED BY	DATE
CHECKED BY	DATE
QUANTITIES BY	DATE

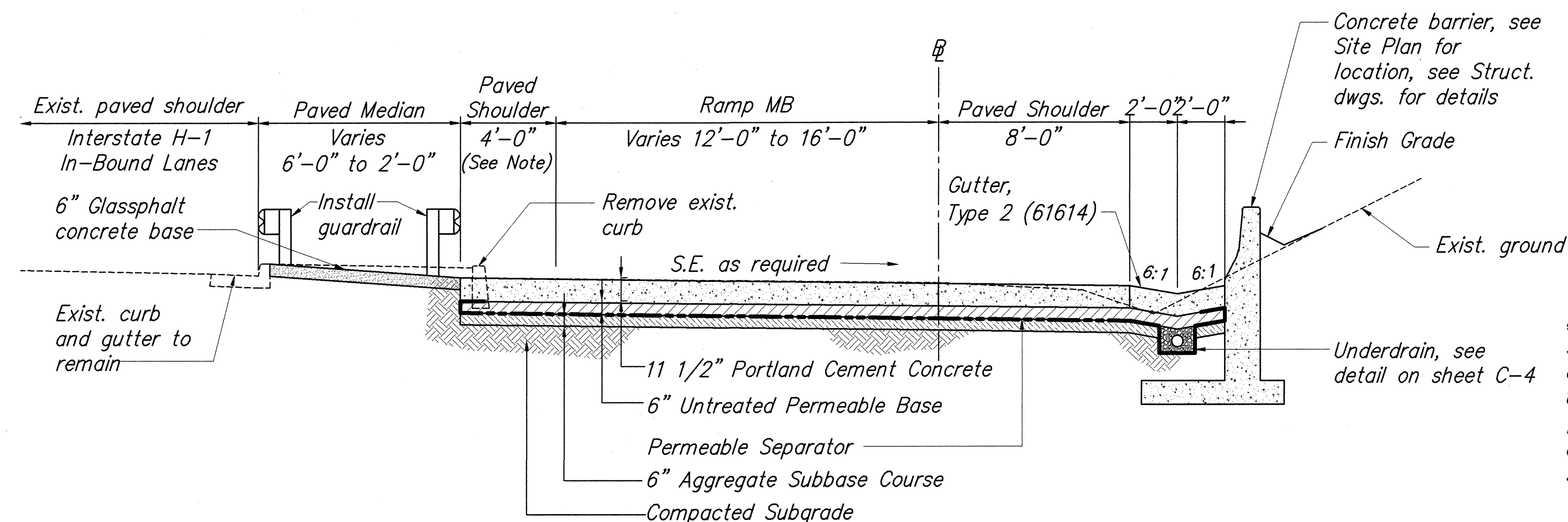
FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAWAII	H1A-01-02M	2003	7	88



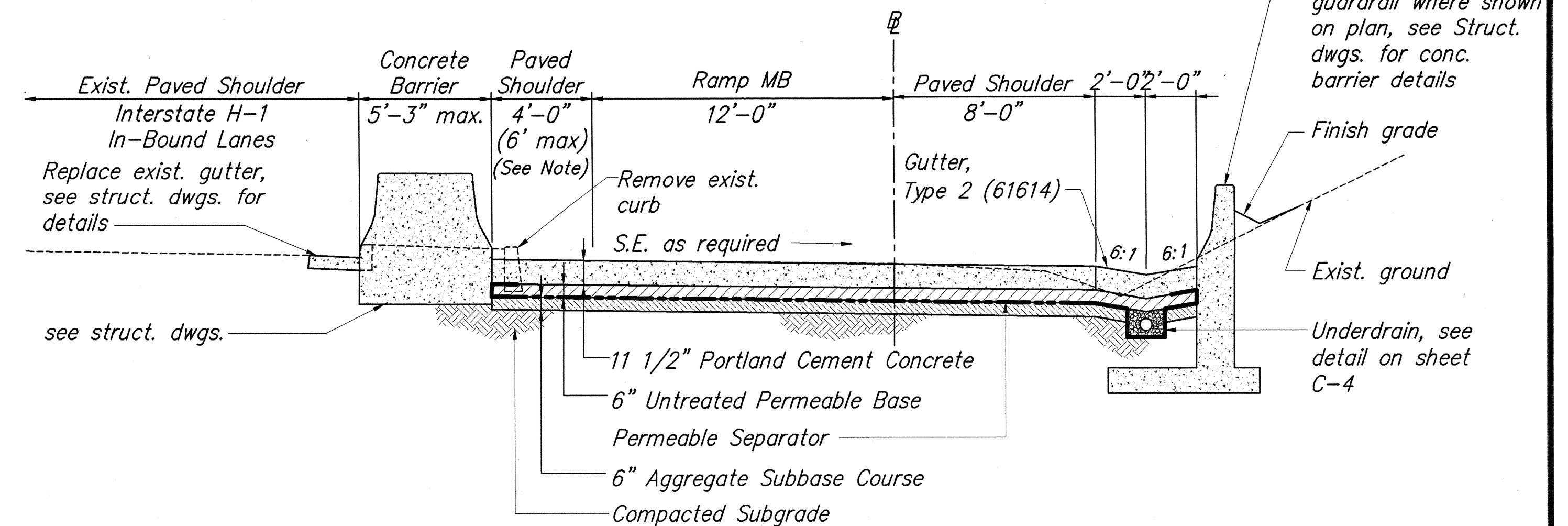
TYPICAL SECTION - MAKAKILO DRIVE RAMP MB @ STA. 0+09.64 TO @ STA. 0+88±
Scale: 1/4" = 1'-0"



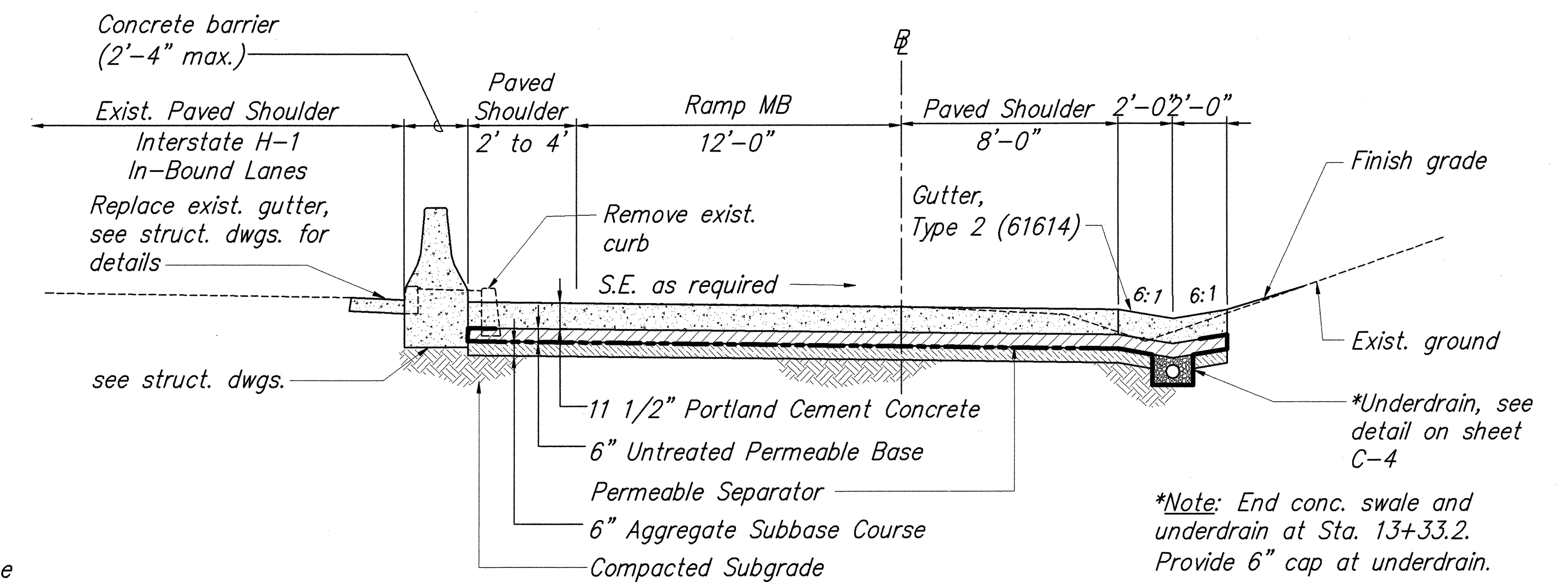
TYPICAL SECTION - MAKAKILO DRIVE RAMP MB @ STA. 0+88± TO @ STA. 7+82.44
Scale: 1/4" = 1'-0"



TYPICAL SECTION - MAKAKILO DRIVE RAMP MB @ STA. 7+82.44 TO @ STA. 8+82.44
Scale: 1/4" = 1'-0"



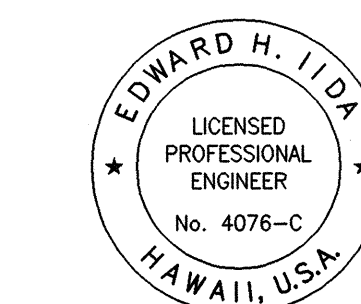
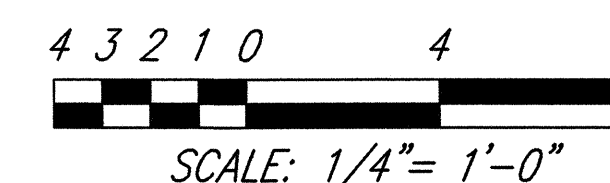
TYPICAL SECTION - MAKAKILO DRIVE RAMP MB @ STA. 8+82.44 TO @ STA. 12+00
Scale: 1/4" = 1'-0"



TYPICAL SECTION - MAKAKILO DRIVE RAMP MB @ STA. 12+00 TO @ STA. 13+55±
Scale: 1/4" = 1'-0"

Note:
Shoulders shall have a maximum slope of (-) 5.0% except when the algebraic difference in cross slope at the pavement edge exceeds 7.0% or when the pavement superelevation sloping down to the shoulder exceeds (-) 5.0% then the pavement superelevation shall continue through the shoulder.

GRAPHIC SCALE:



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MITSUNAGA & ASSOCIATES

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

TYPICAL SECTIONS - 2

INTERSTATE ROUTE H-1 REHABILITATION

Vicinity Of Makakilo Interchange

Project No. H1A-01-02M

Scale: As Noted Date: April 2003

SHEET No. C-5 OF 42 SHEETS