

ES

Paved Shoulder

ETW

Travelway

ETW

Paved Shoulder

ES

Median

ES

Flow

Underdrain Cleanout

Underdrain Cleanout

6" Nonperforated Underdrain pipe

6" Nonperforated Wye

6" Nonperforated elbow

Underdrain Cleanout

Underdrain Cleanout

Flow

Eq.

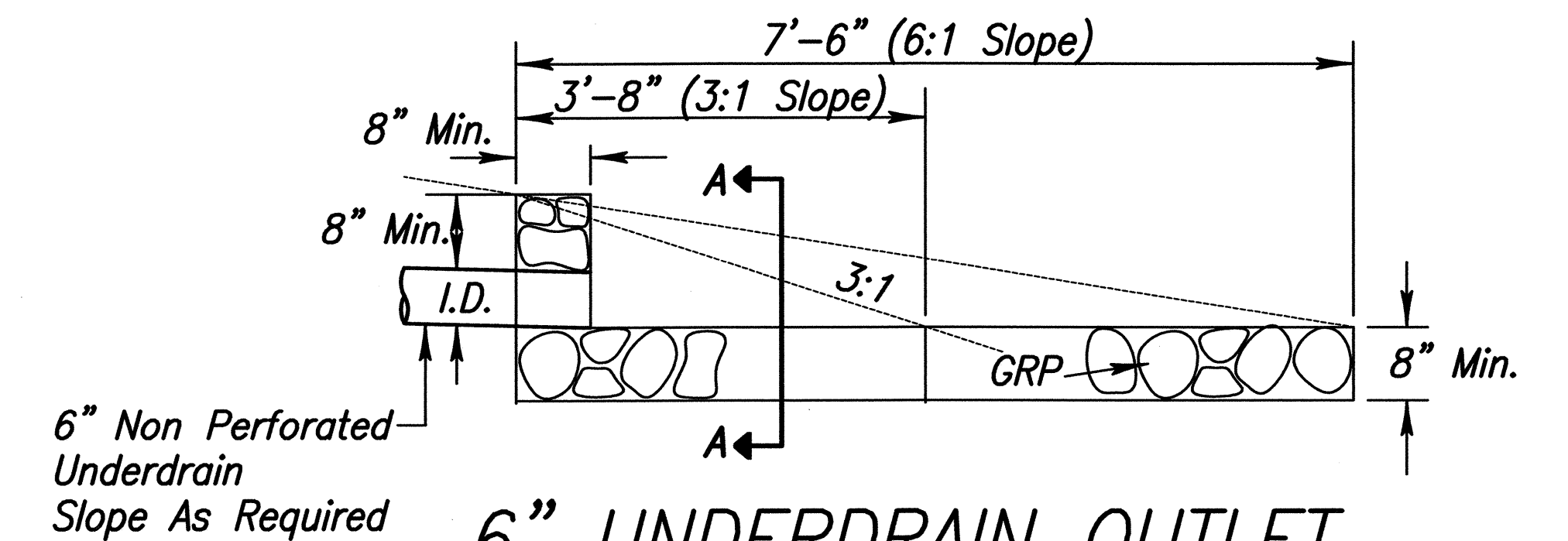
Eq.

Drainage Culvert (See Plans)

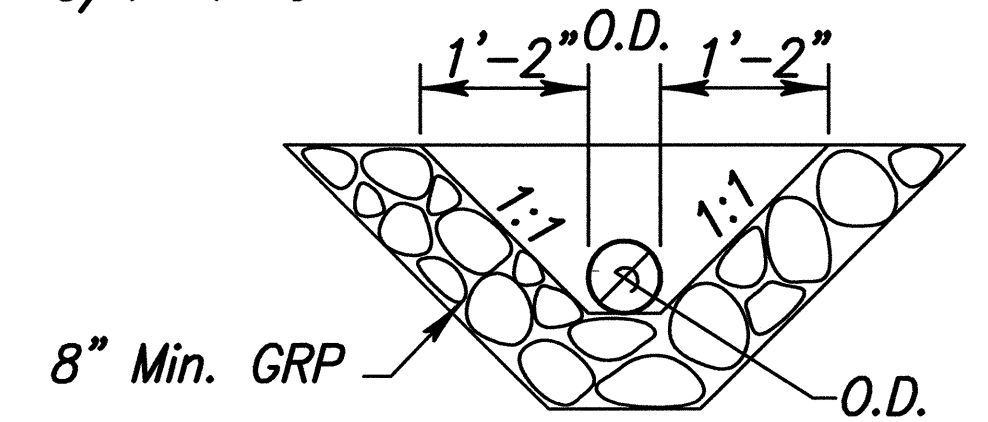
Flow

Grated Inlet (See Plans)

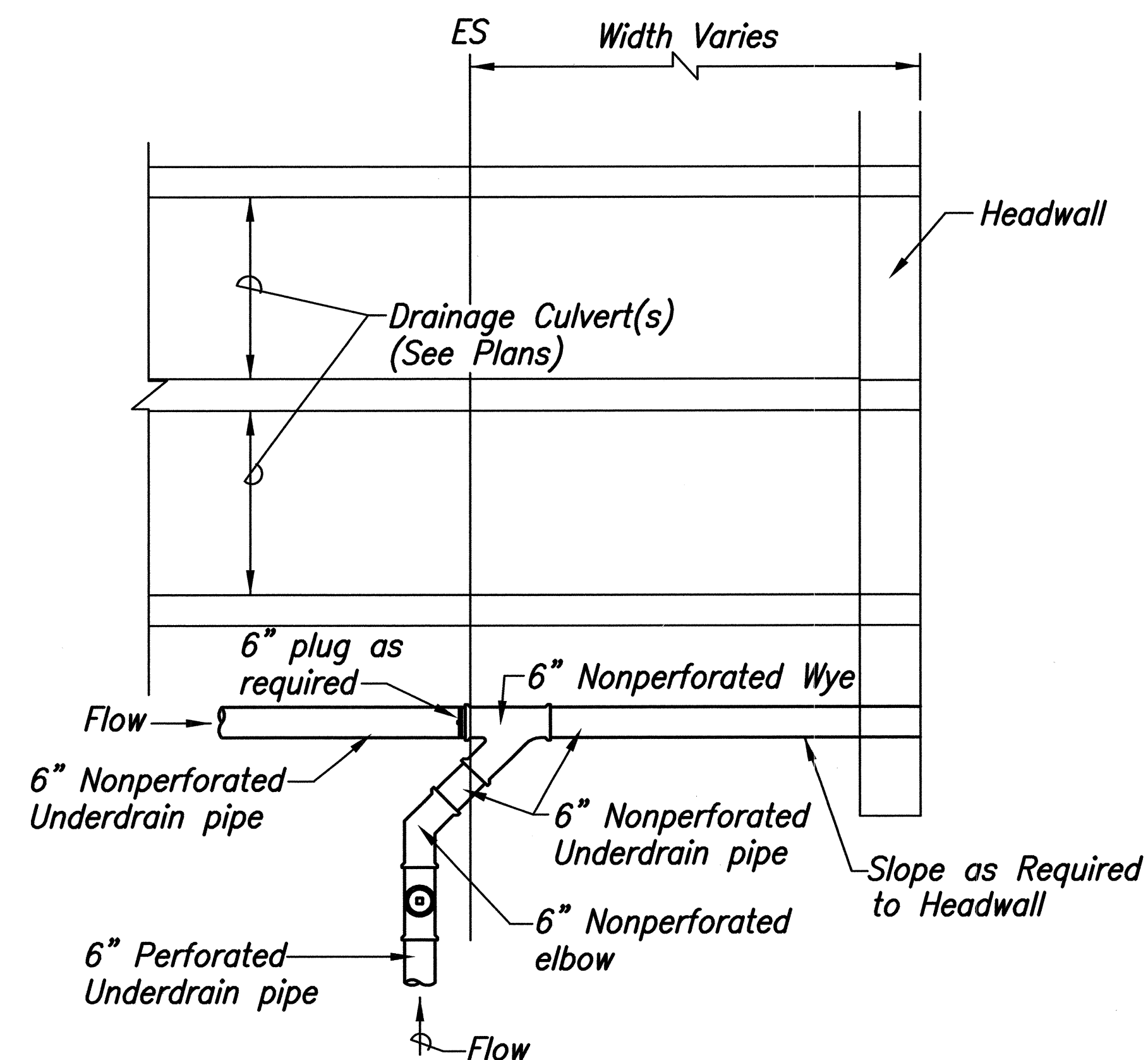
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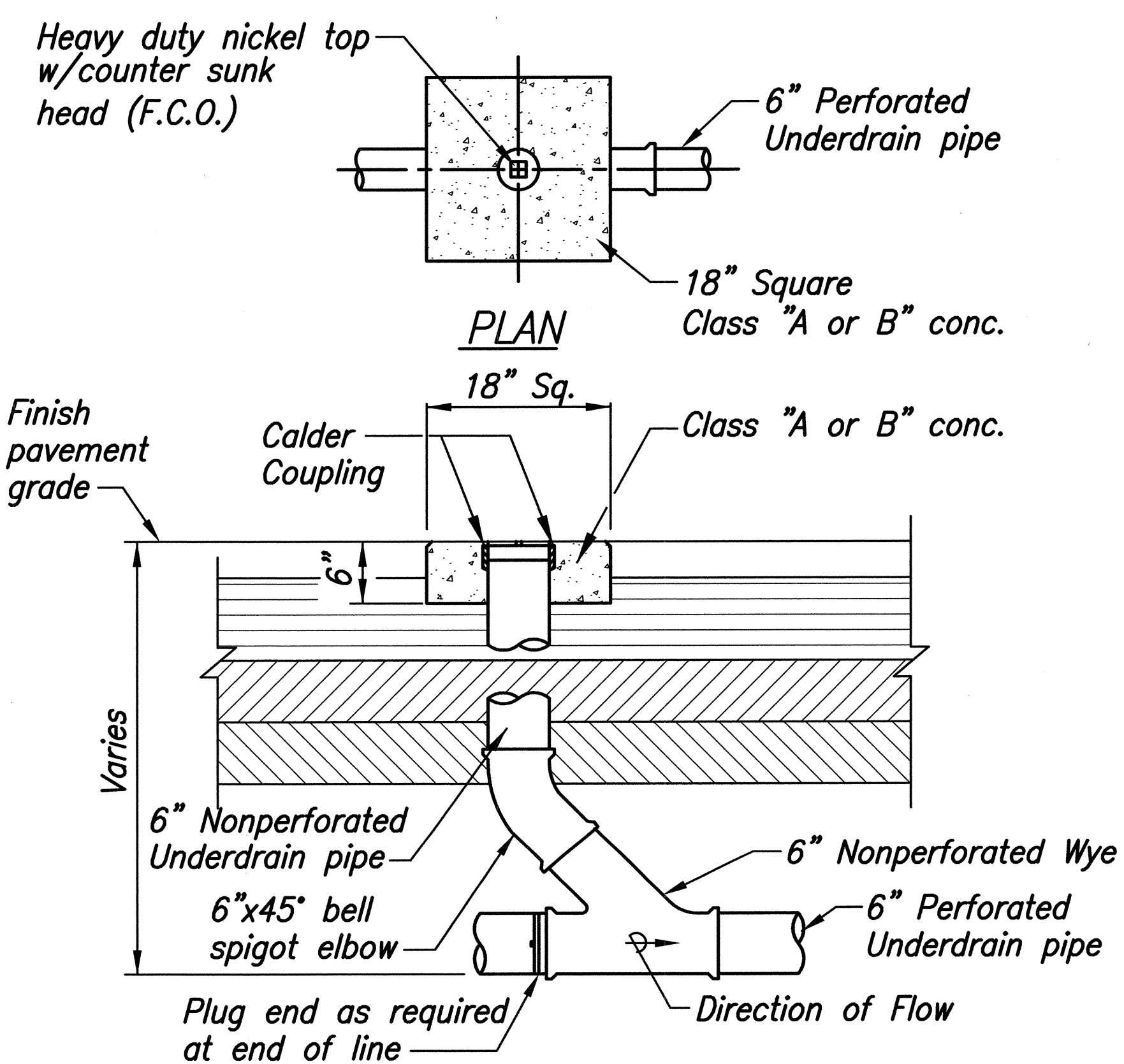
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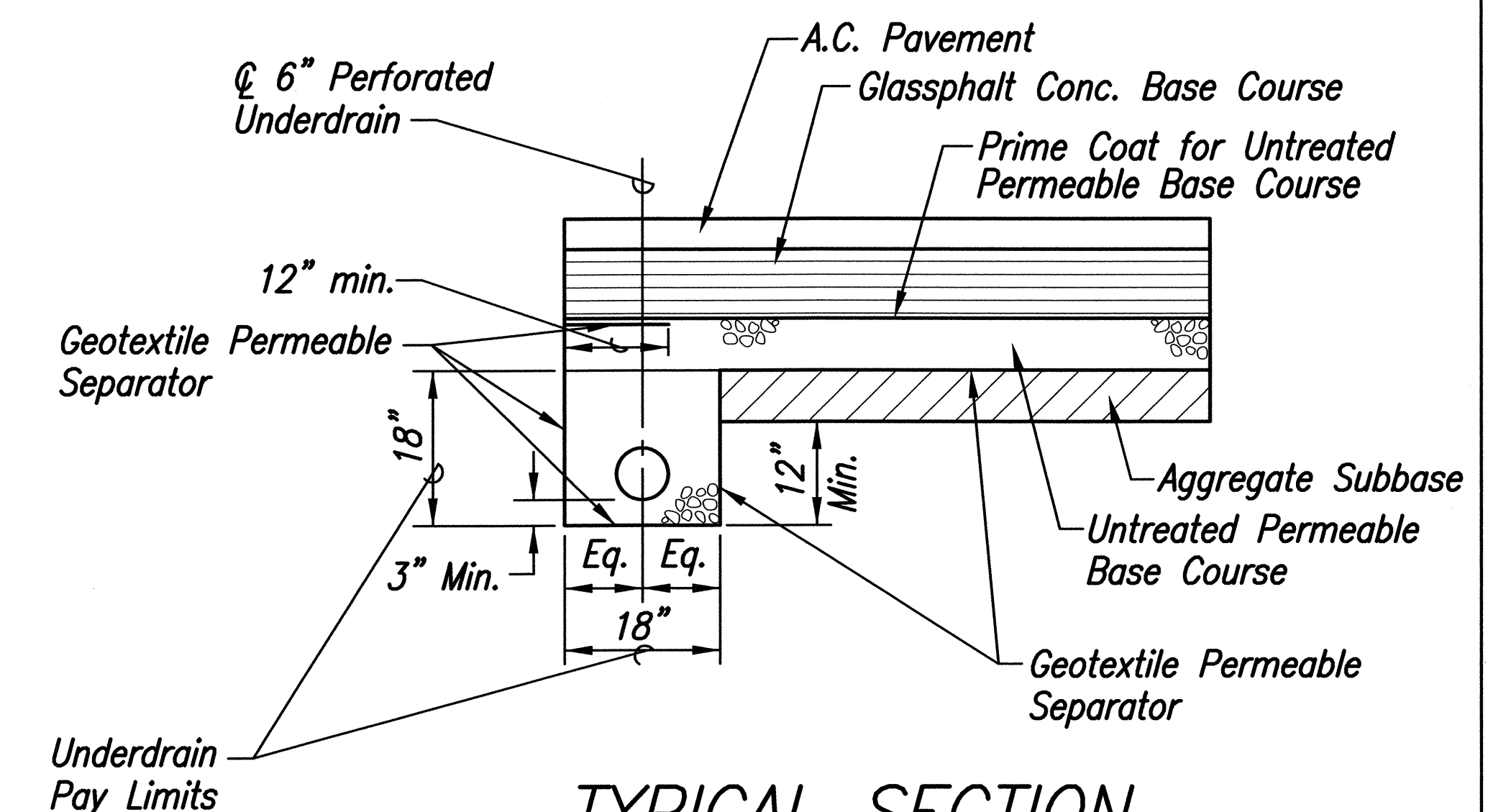
SECTION A-A



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



Scale: 1"=1'-0"



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

CLIFFORD M. ARAKAWA
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PROFESSIONAL
ENGINEER
No. 1864-C
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HAWAII U.S.A.

Clifford M. Arakawa

THIS WORK WAS PREPARED
ME OR UNDER MY SUPERVIS

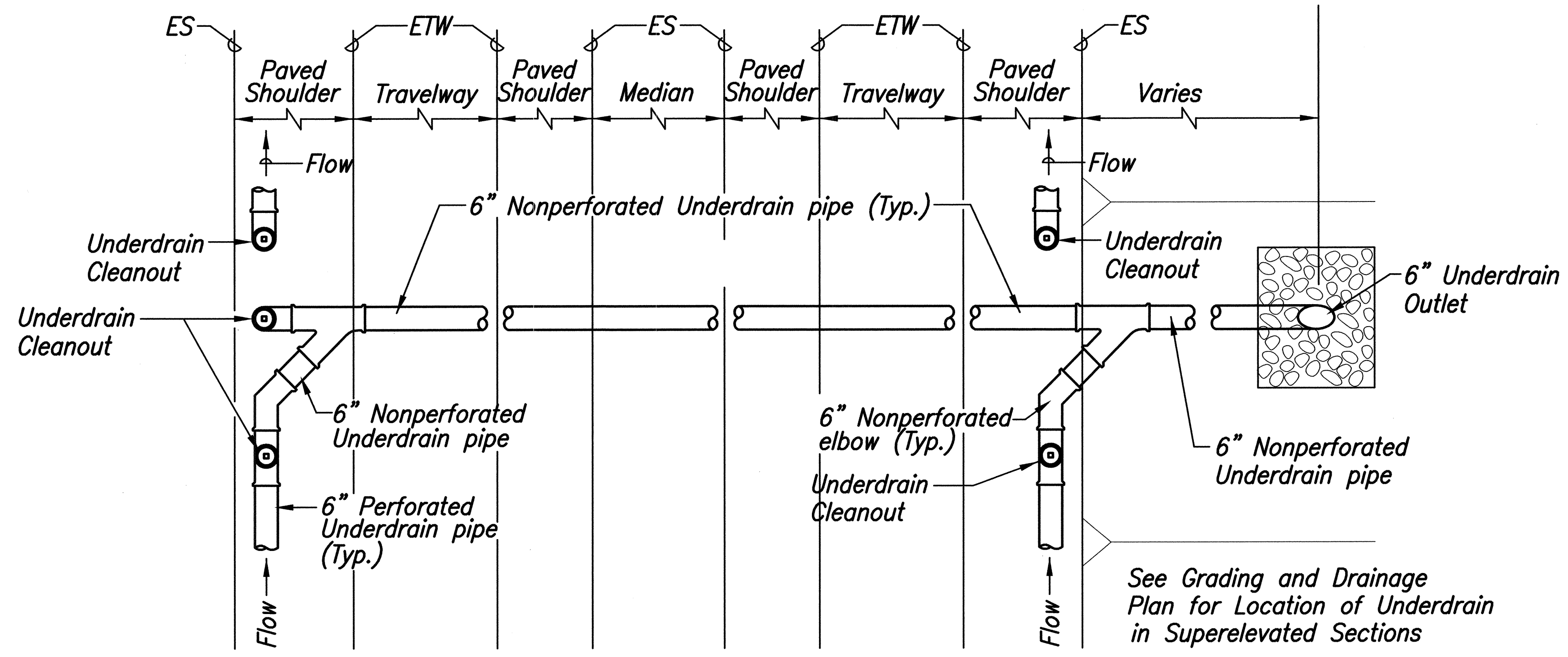
04/30/06

EXPIRATION DATE OF THE LICENSE

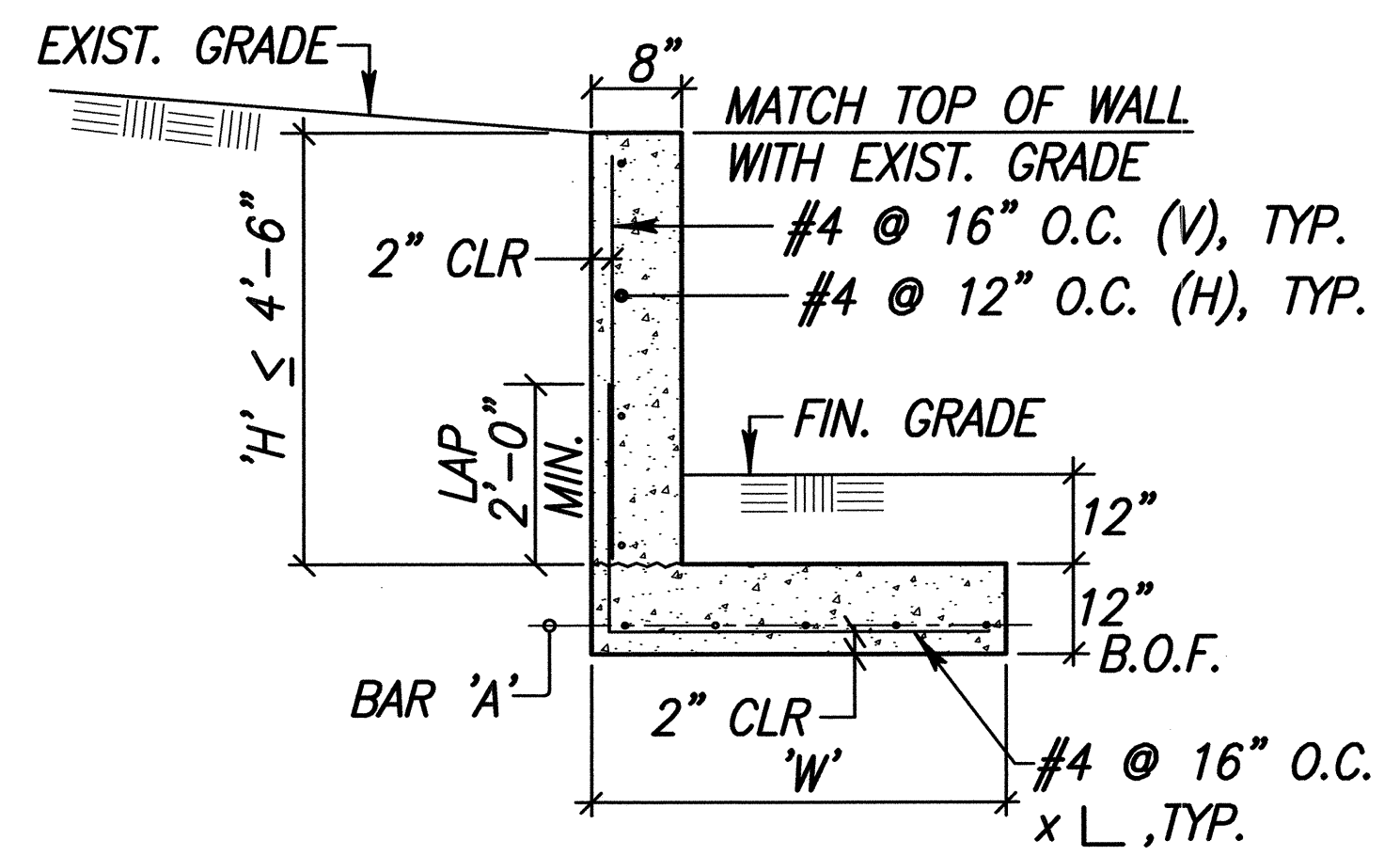
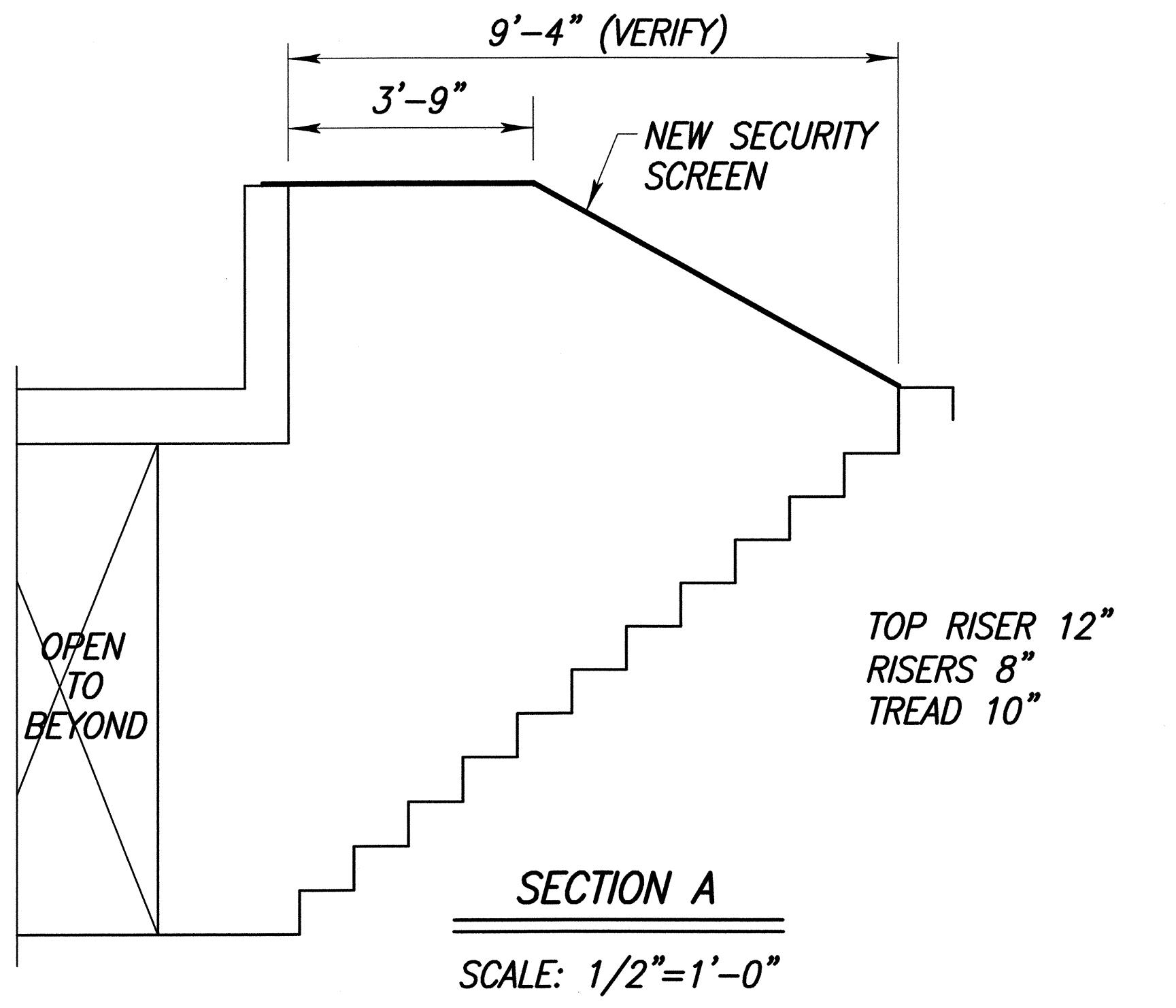
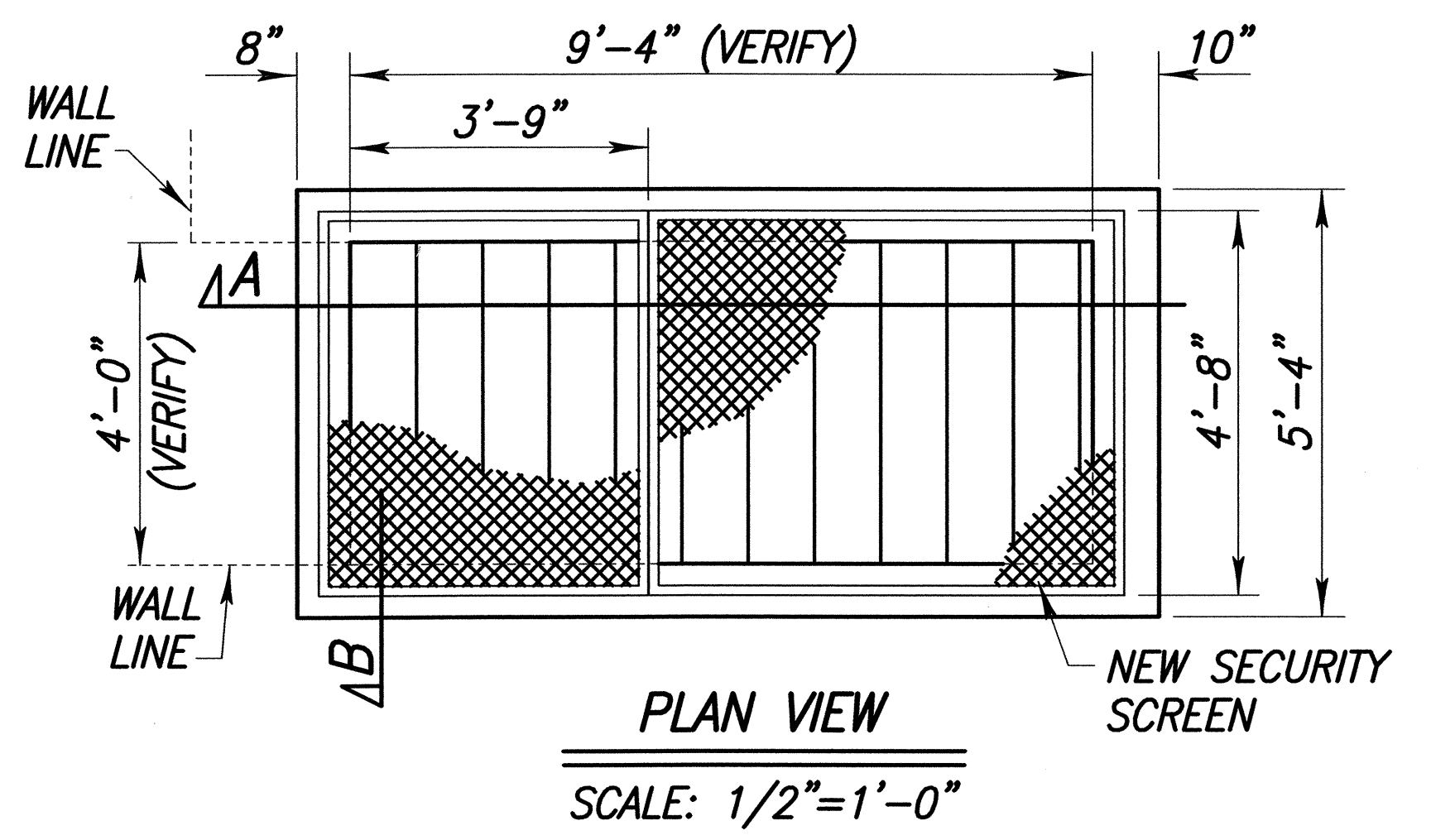
7/11/02

PROJ. NO.: M9901.00

R:\moku_ph1c\MISC-DET.dwg

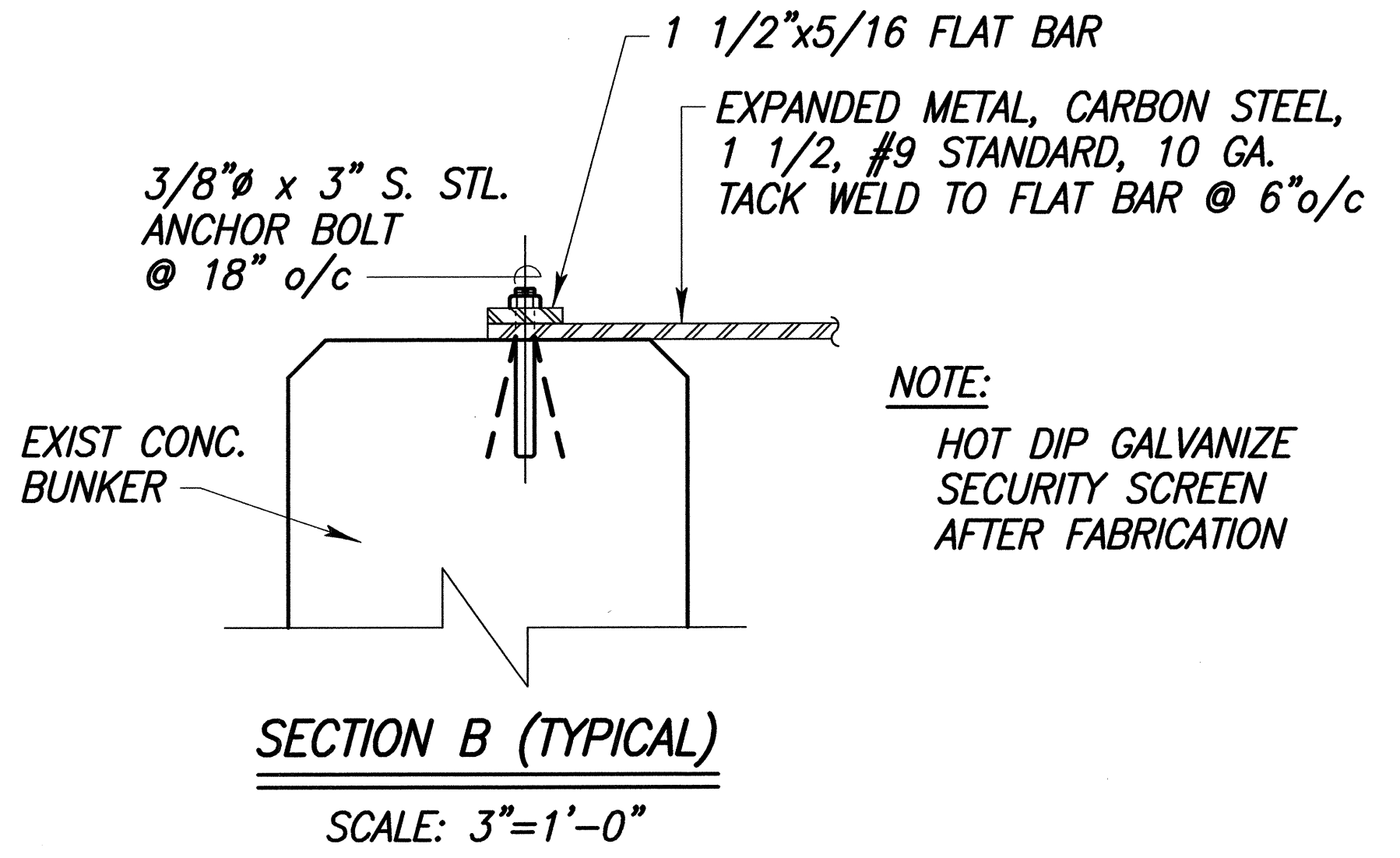


CONNECTION TO UNDERDRAIN OUTLET
 Scale: Not to Scale



RETAINING WALL
 SCALE: 1/2"=1'-0"

RETAINING WALL SCHEDULE		
WALL HT. 'H'	FOOTING 'W'	REINFORCING 'A' BAR
≤ 2'-0"	1'-8"	2#4
≤ 3'-0"	2'-4"	3#4
≤ 4'-0"	4'-0"	5#4



NEW SECURITY SCREEN
 SCALE: 3"=1'-0"

- NOTE:**
1. THE BOMB SHELTERS TO REMAIN ARE CONSIDERED HISTORICAL AND WORK SHALL MEET THE REQUIREMENTS OF SECTION 107.17.
 2. SECURITY SCREENS WILL NOT BE MEASURED NOR PAID FOR DIRECTLY BUT WILL BE CONSIDERED INCIDENTAL TO THE LUMP SUM BID ITEM NO. 202.0443. REMOVEAL OF CONCRETE STRUCTURES AND SLABS.

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

CLIFFORD M. ARAKAWA
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 No. 1864-C
 HAWAII U.S.A.

STATE OF HAWAII
 DEPARTMENT OF TRANSPORTATION
 HIGHWAYS DIVISION

MISCELLANEOUS DETAILS

MOKULELE HIGHWAY WIDENING

Maui Humane Society

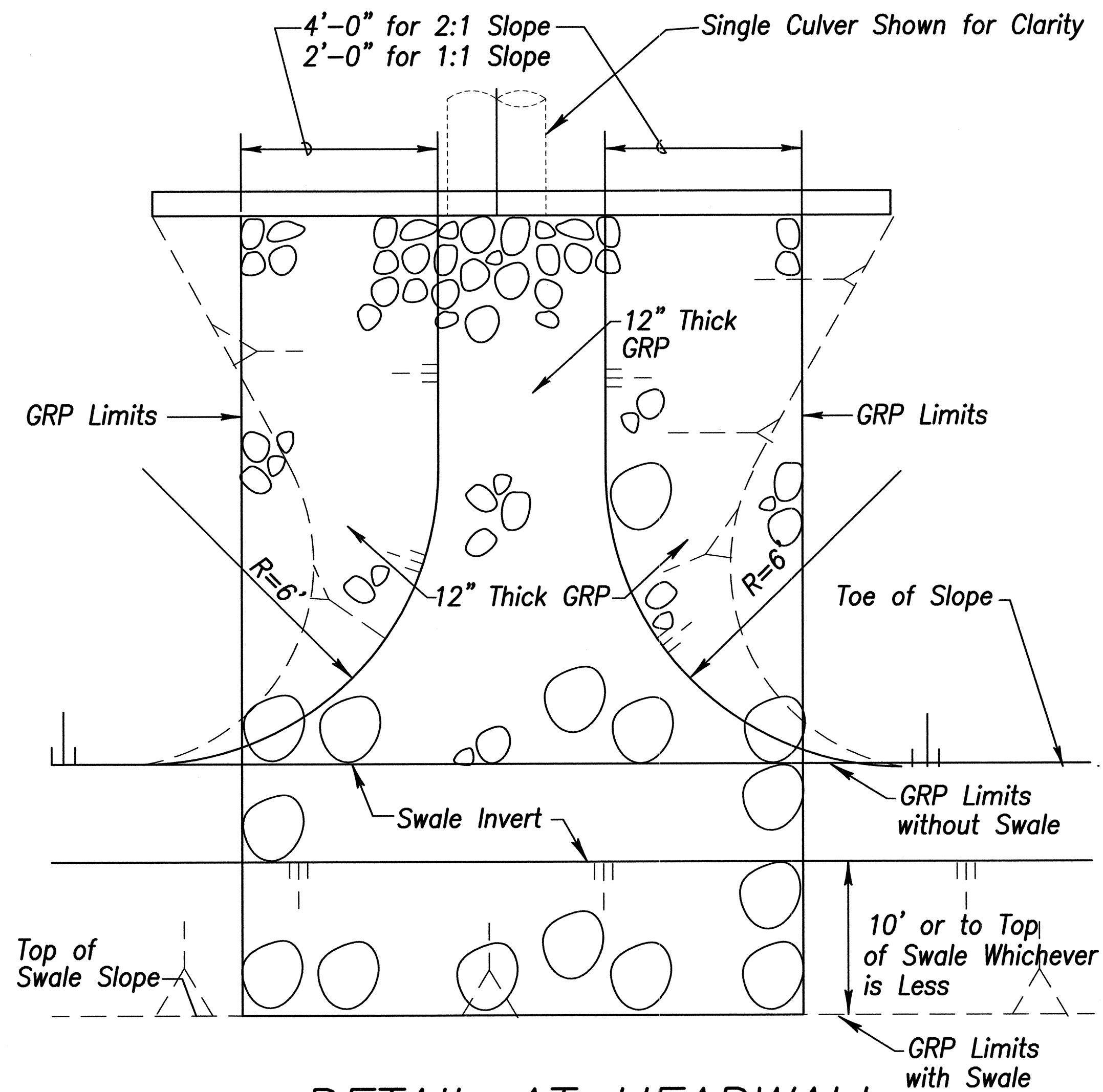
To
Vicinity of Kolaloa Bridge

Federal - Aid Project No. NH-A311(6)R

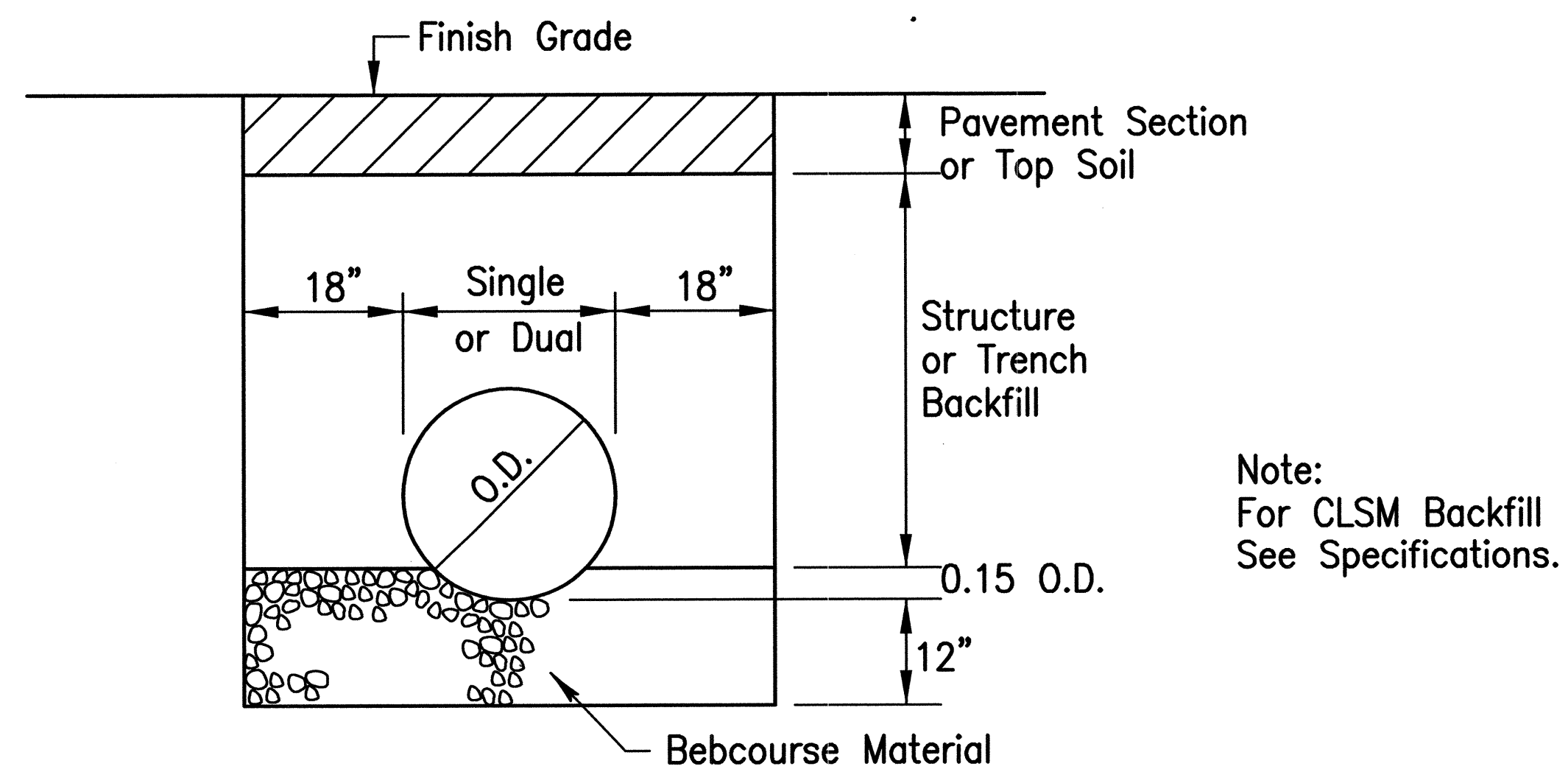
Scale: AS NOTED Date: JUNE 2005

SHEET No. 2 OF 4 SHEETS

FED. ROAD DIST. NO.	STATE	FEDERAL - AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-A311(6)R	2006	76	173

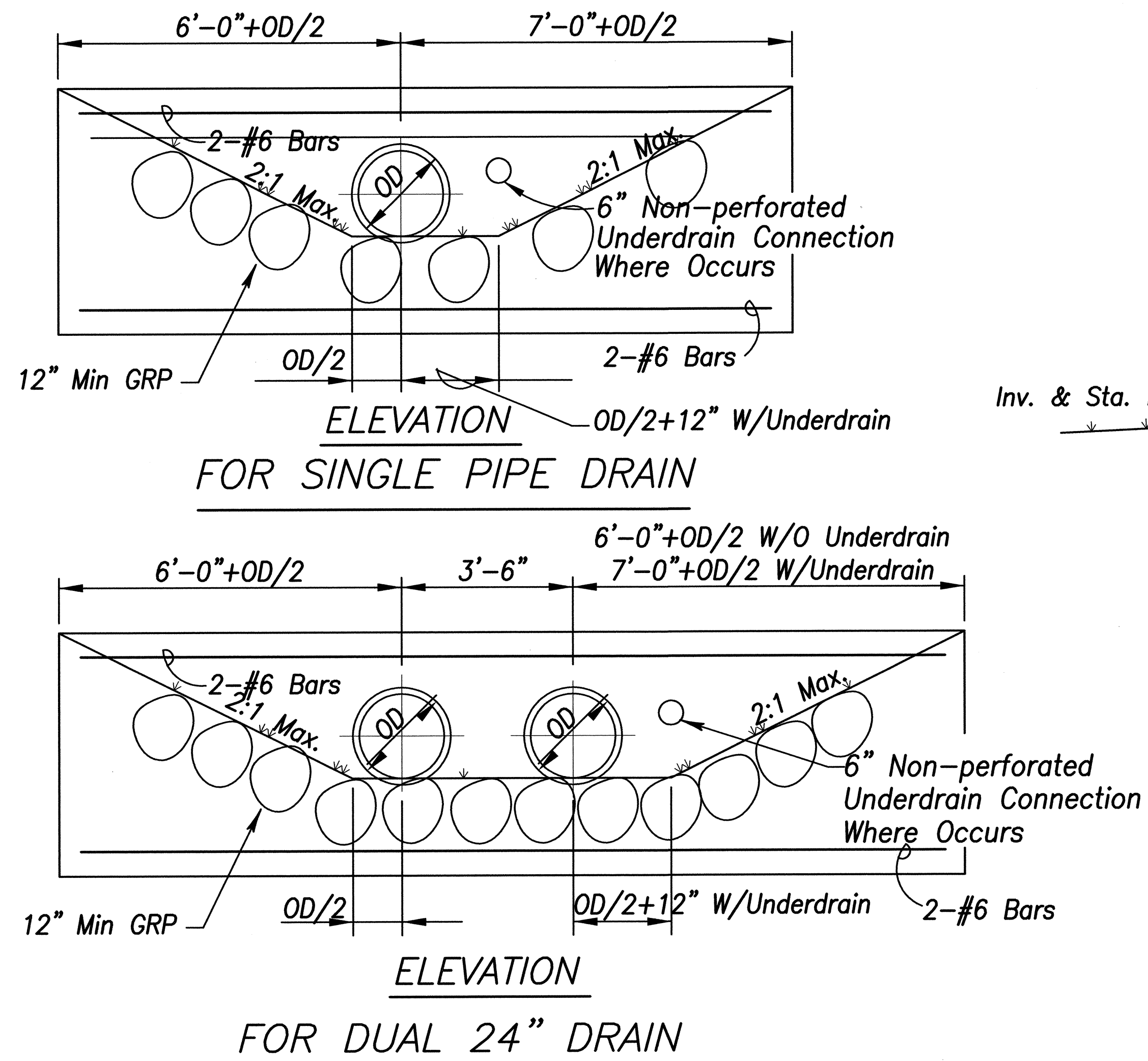


DETAIL AT HEADWALL



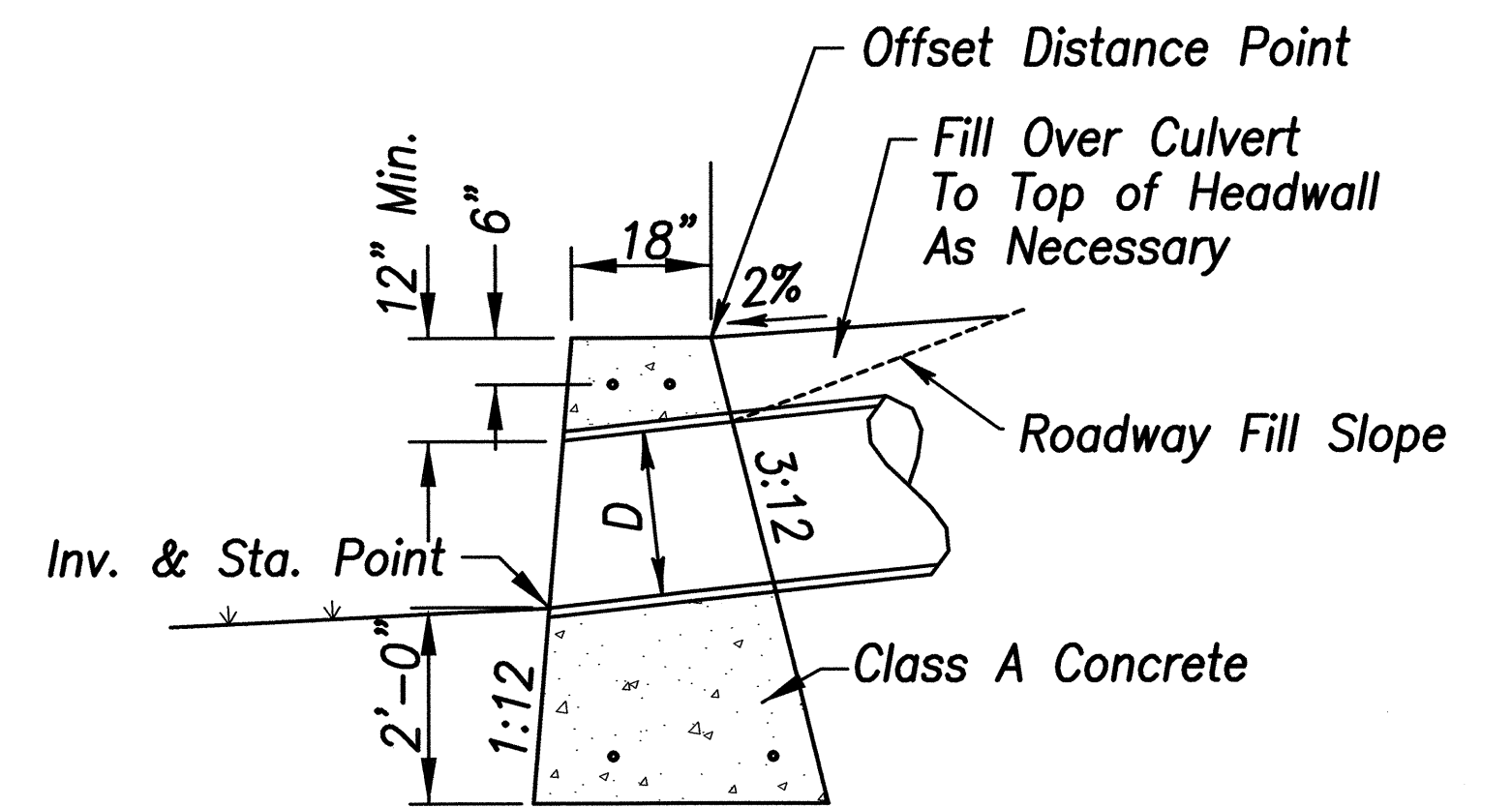
TYPICAL CULVERT TRENCH SECTION

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



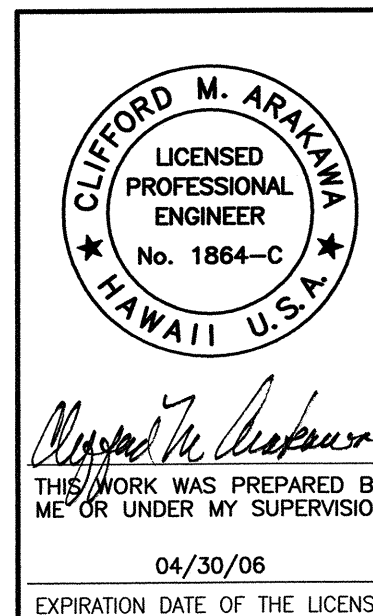
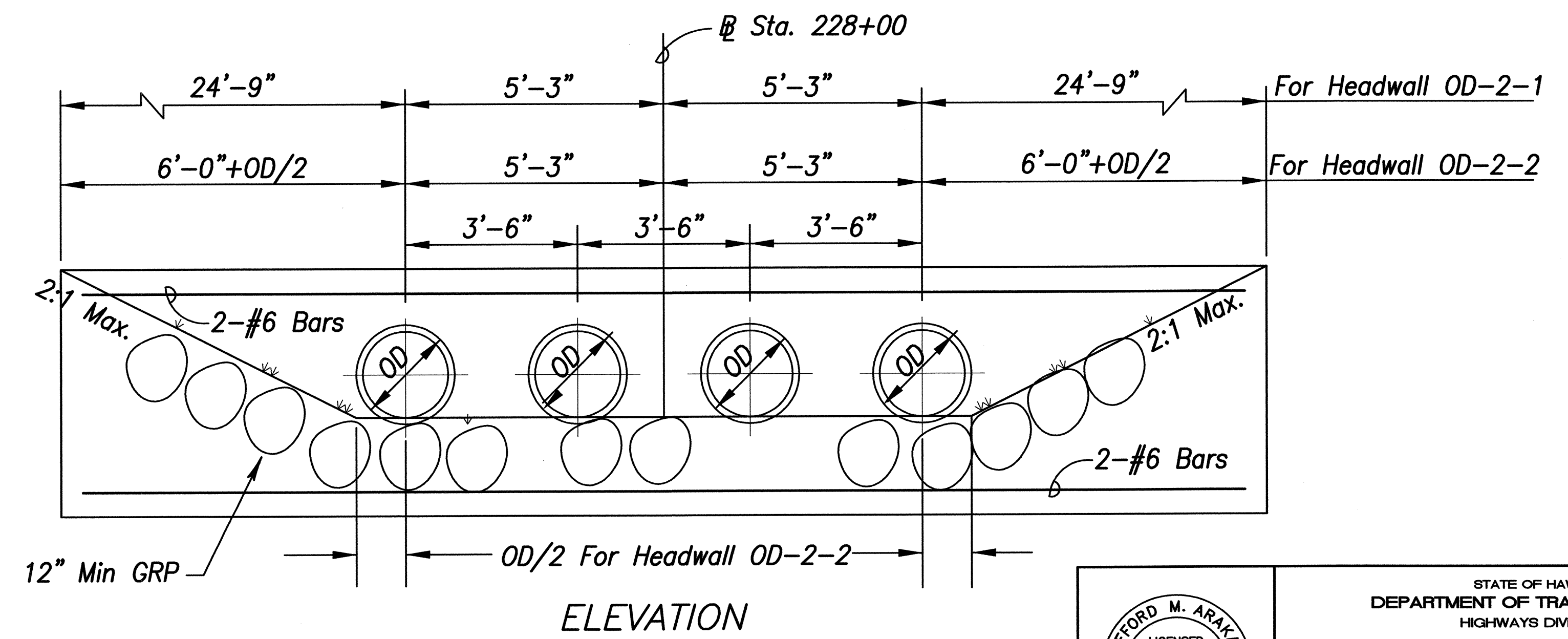
CONCRETE HEADWALL DETAILS

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



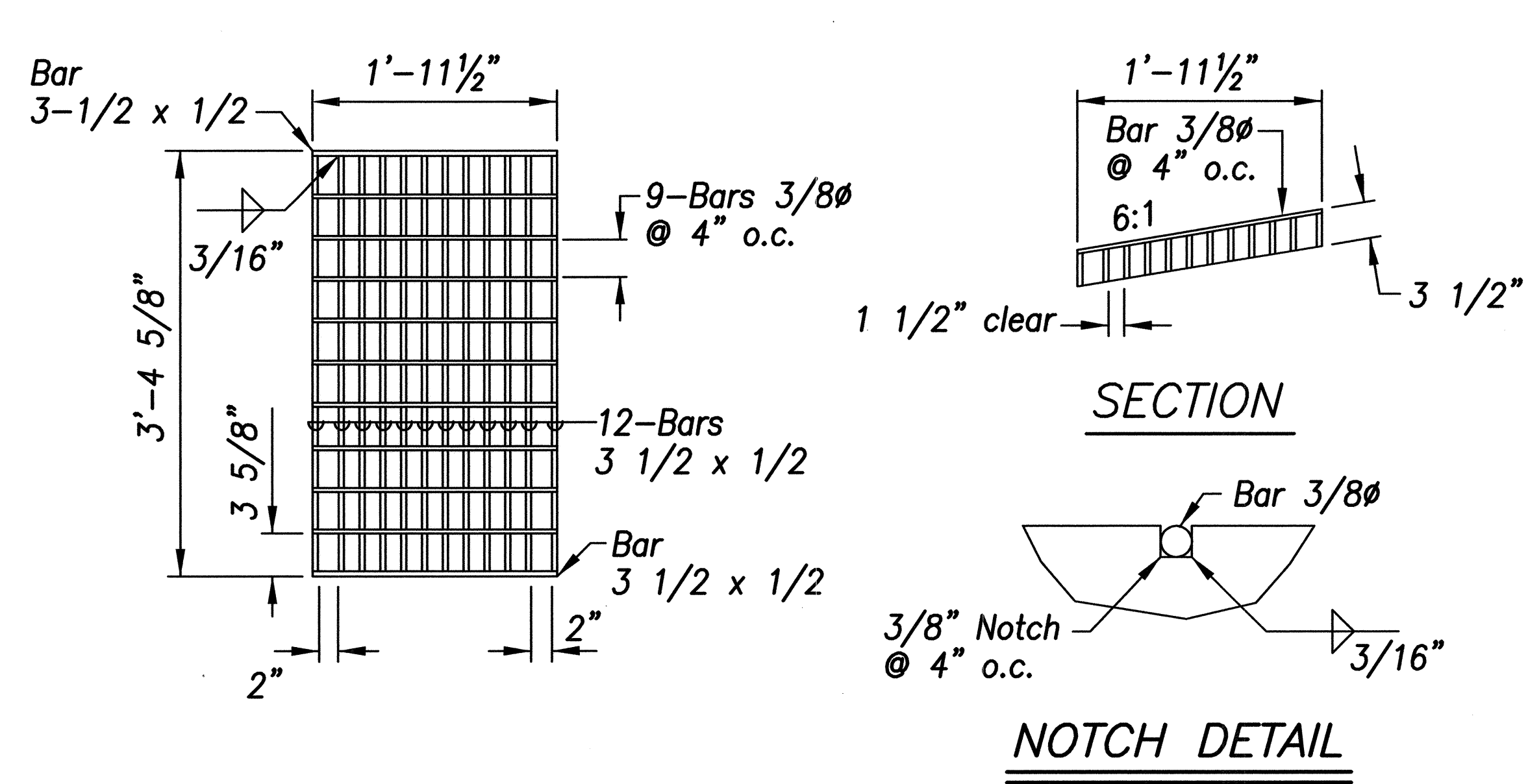
SECTION

Note:
For general notes &
bevel detail see std.
plan H-16.

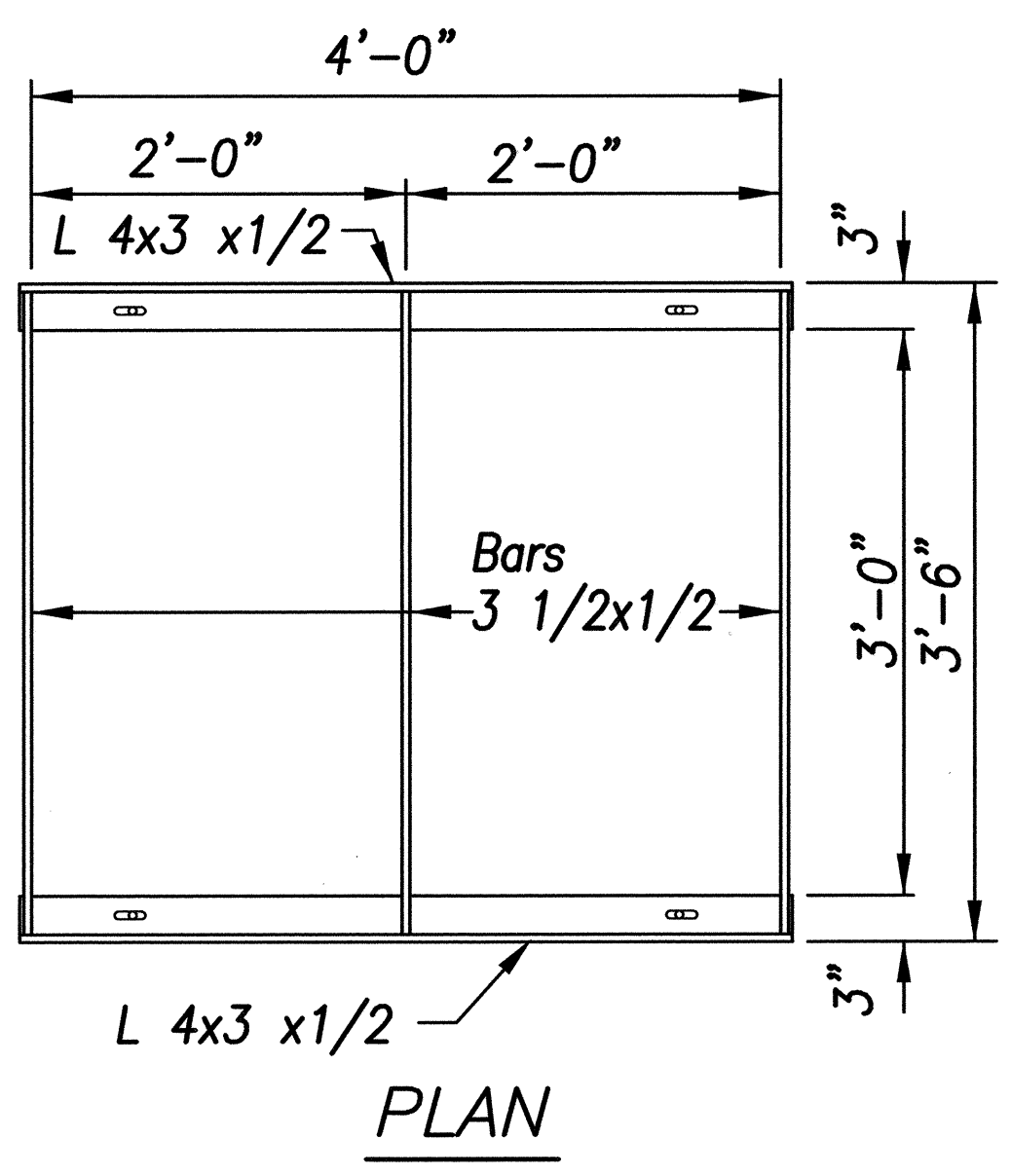


STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
MISCELLANEOUS DETAILS
MOKULELE HIGHWAY WIDENING
Maui Humane Society
To
Vicinity of Kolaloa Bridge
Federal - Aid Project No. NH-A311(6)R
Scale: AS NOTED Date: JUNE 2005
SHEET No. 3 OF 4 SHEETS

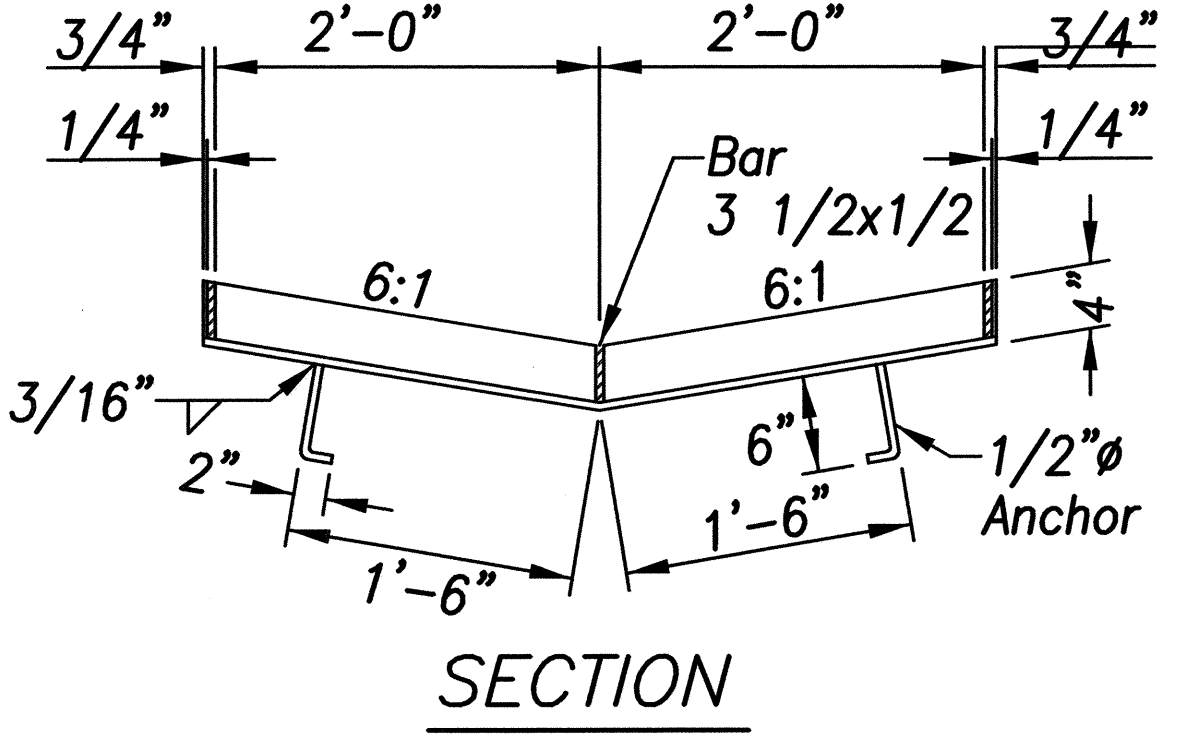
FED. ROAD DIST. NO.	STATE	FEDERAL - AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-A311(6)R	2006	77	173



GRATE



FRAME



GENERAL NOTES

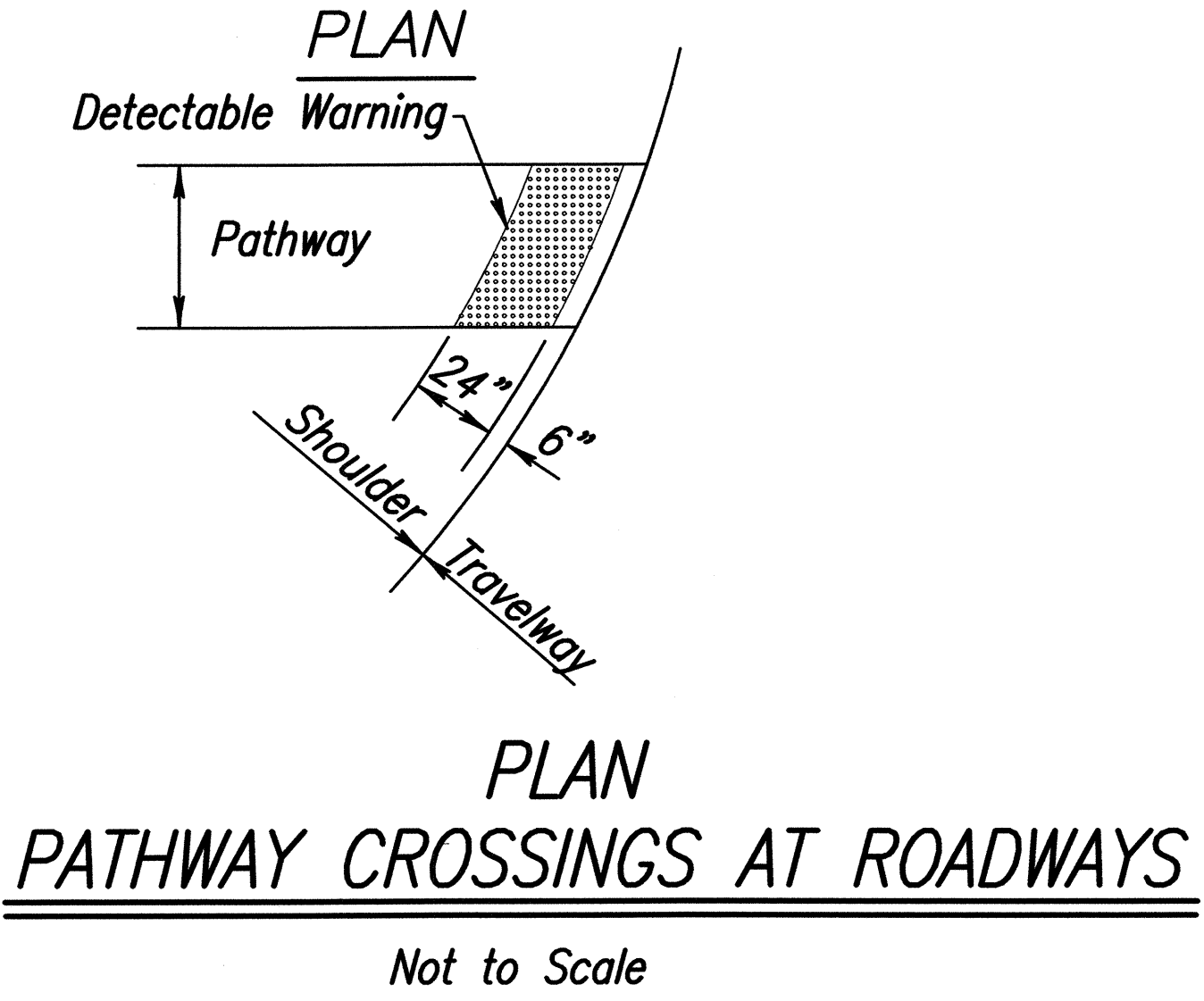
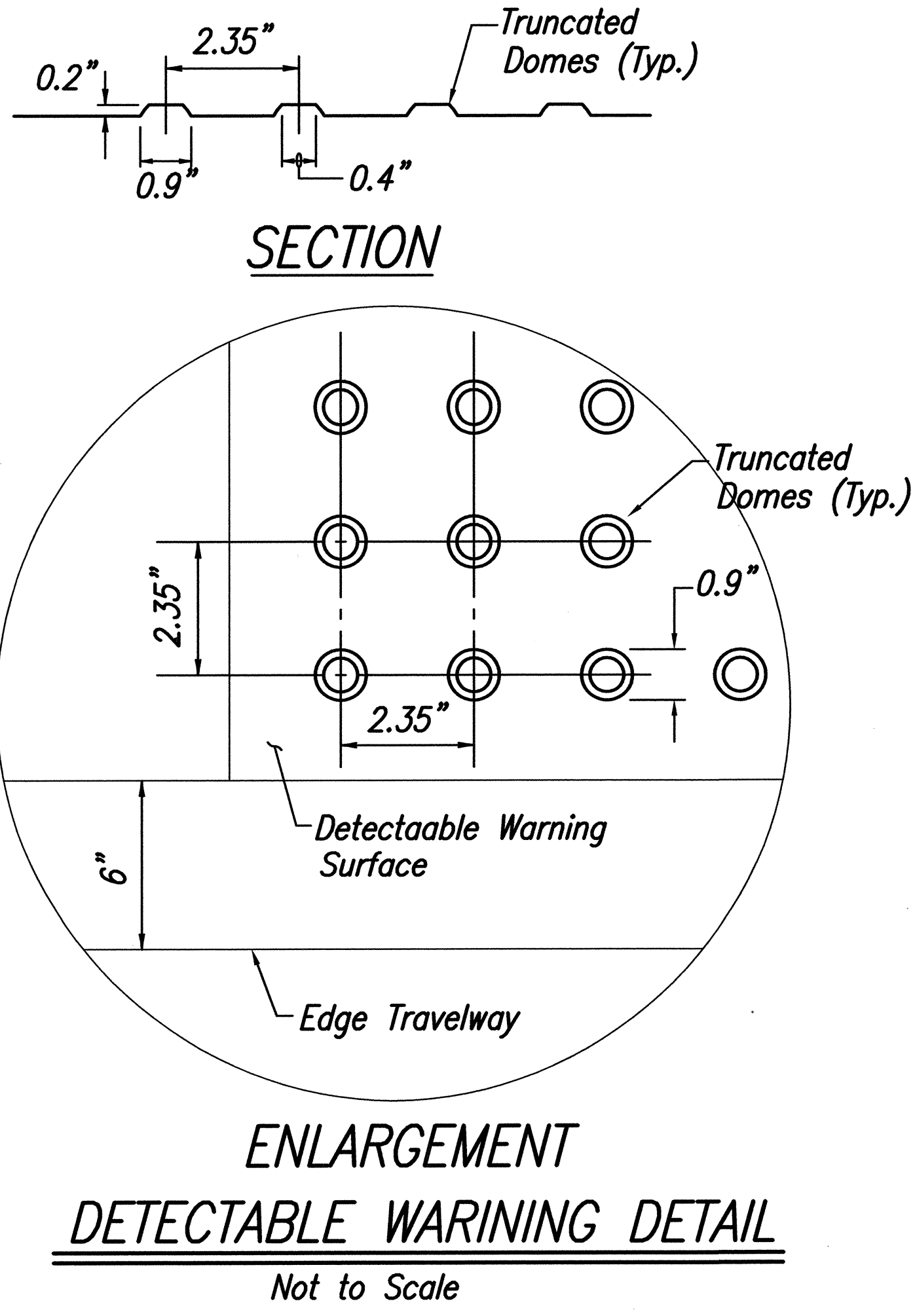
1. Frames and Grates shall be hot dip galvanized after frabrication
2. All welds 3/8" unless otherwise noted

TYPE 61614P STEEL FRAME AND GRATES

Scale: 1"=1'-0"

Detectable Warning Notes:

1. Detectable warnings shall be 24 inches in the direction of travel and extend the full width of the pathway.
2. Truncated domes shall have a diameter of 0.9 inch at the bottom, a diameter of 0.4 inch at the top, a height of 0.2 inch and a center-to-center spacing of 2.35 inches measured along one side of a square arrangement.
3. Domes shall be aligned on a square grid in the predominant direction of travel to permit wheels to roll between the domes.
4. There shall be a minimum of 70 percent contrast in light reflectance between the detectable warning and an adjoining surface, or the detectable warning shall be "safety yellow".
5. The material used to provide visual contrast shall be an integral part of the detectable warning surface.
6. The detectable warning shall be located so that the edge nearest the curb line or other potential hazard is 6 to 8 inches from the curb line or other potential hazard, such as a reflecting pool edge or the edge of a transit platform.
7. Install detectable warnings at all new curb ramps. Payment for the detectable warnings shall not be paid seperately, but shall be considered incidental to the curb ramp items.
8. Detectable warning will not be paid for separately but will be considered incidental to the various contract items.



THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION
04/30/06
EXPIRATION DATE OF THE LICENSE

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

MISCELLANEOUS DETAILS

MOKULELE HIGHWAY WIDENING

Maui Humane Society

To
Vicinity of Kolaloa Bridge

Federal - Aid Project No. NH-A311(6)R

Scale: AS NOTED Date: JUNE 2005

SHEET No. 4 OF 4 SHEETS

ORIGINAL PLAN	SUPER PLOTTED BY	DATE
NOTE BOOK	DRAWN BY	
No.	DESIGNED BY	
	CHECKED BY	