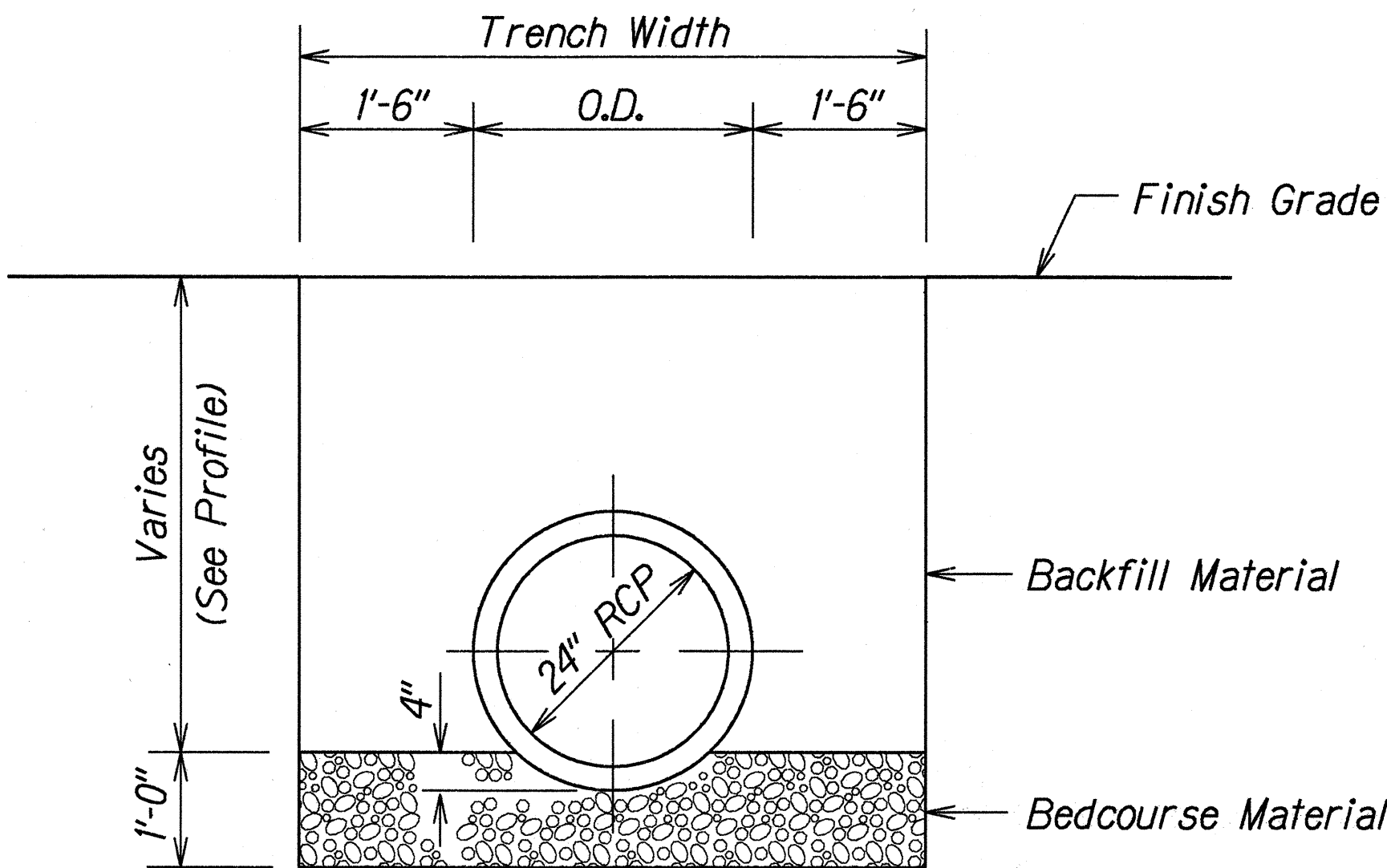


FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	IM-HI-1(224)	1997	45	65

DRAINAGE NOTES

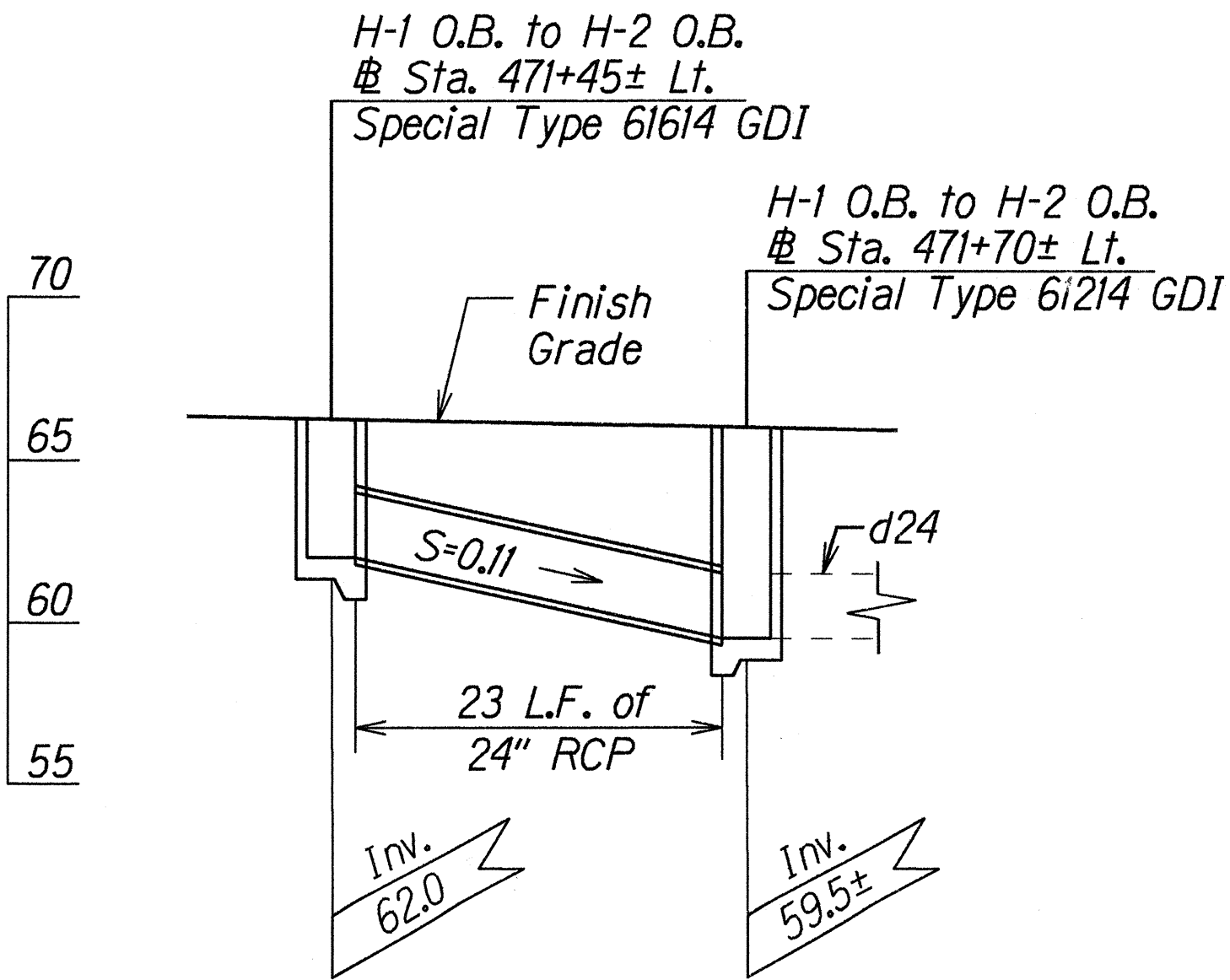
1. Existing drainage systems will be functional at all times during construction. The Contractor is to furnish materials, equipment, labor, tools and incidentals necessary to accomplish maintenance of flow. The cost shall be incidental to the various Contract Items.
2. The Contractor shall verify the locations of all existing culverts and utilities in the field. Any existing culverts and utilities damaged during construction shall be repaired or replaced by the Contractor at his own expense.
3. Only non-pneumatic type of drill as approved by the Engineer will be permitted for drilling holes in concrete. Where indicated on Plans, the approximate diameter of drilled holes for installation of dowels shall be 3/4", and voids after installing dowels shall be filled with epoxy grout as directed by the Engineer.
4. Demolishing, removing, and disposing portions of existing concrete drainage inlets and metal railings shall not be paid for separately but shall be considered incidental to the various Contract Items.
5. For added reinforcing around culverts at new drainage structures, see Standard Plan H-04.
6. Concrete shall be Class A unless otherwise noted.
7. Chamfer all exposed concrete edges 1".



TYPICAL DETAIL OF CULVERT
TRENCH RESTORATION

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

DRAINAGE SUMMARY									
ITEM NO.	206.	603.	603.	604.	604.	604.	604.	609.	
	2020	0010	0020	5101	5102	5201	5202	2214	
UNIT USED	CY	CY	LF	EA	EA	EA	EA	LF	
BASELINE STATION LOCATION									
FROM	TO								
H-1 O.B. to H-2 O.B. @ Sta. 457+41± Lt.						1		4	
H-1 O.B. to H-2 O.B. @ Sta. 457+41± Rt.						1		4	
H-1 I.B. to H-2 O.B. @ Sta. 506+00± Lt.						1		4	
H-2 I.B. to H-1 I.B. @ Sta. 457+64± Lt.							1	4	
H-2 I.B. to H-1 O.B. @ Sta. 502+68± Lt.						1		4	
H-1 O.B. to H-2 O.B. @ Sta. 471+45± Lt.	H-1 O.B. to H-2 O.B. @ Sta. 471+70± Lt.	24	5	23	1	1			
	TOTAL	24	5	23	1	1	4	1	20



PROFILE-H-1 O.B. TO H-2 O.B.
@ STA. 471+45± LT. TO @ STA. 471+70± LT.

Scale: Horiz. 1"=10'
Vert. 1"=5'

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

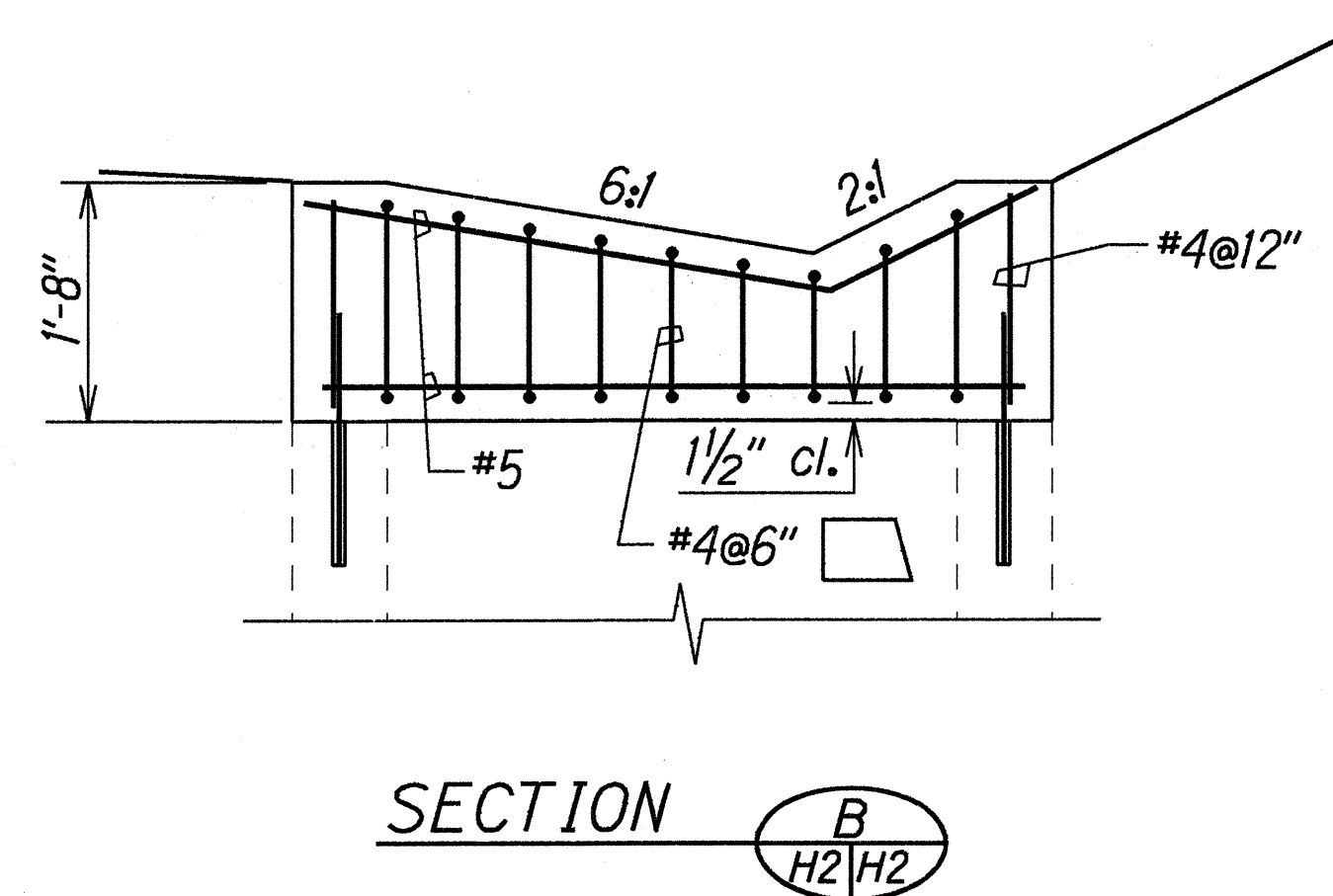
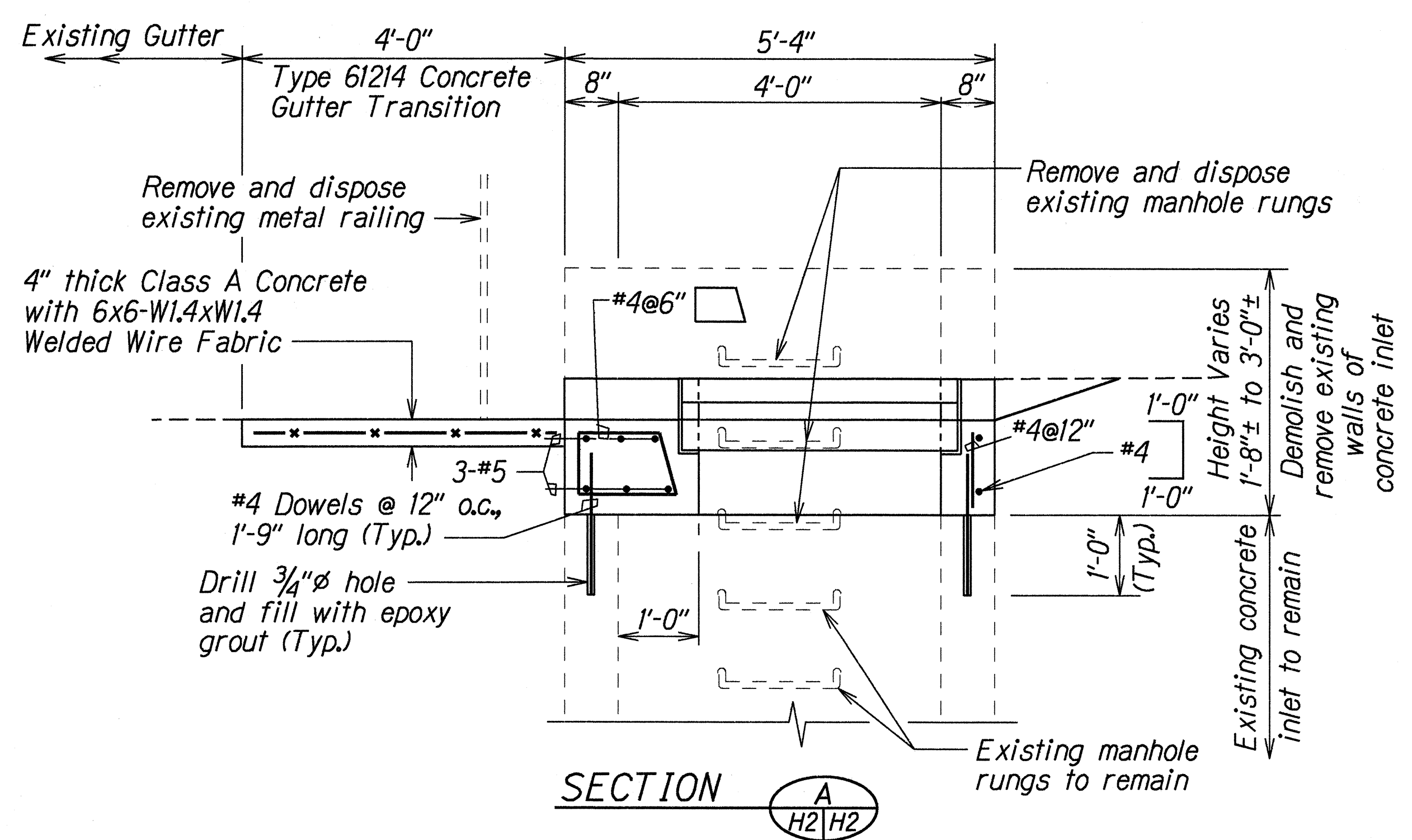
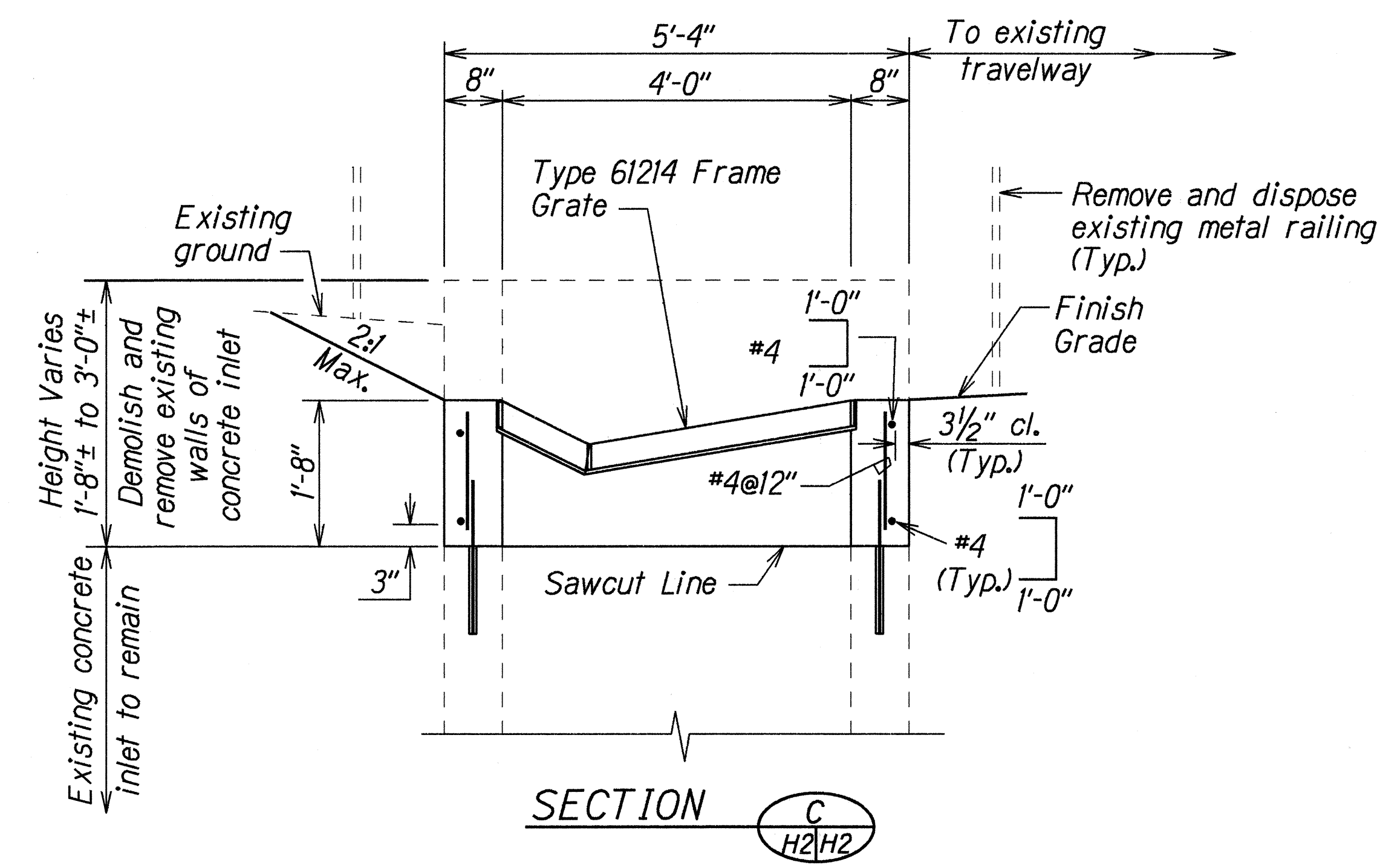
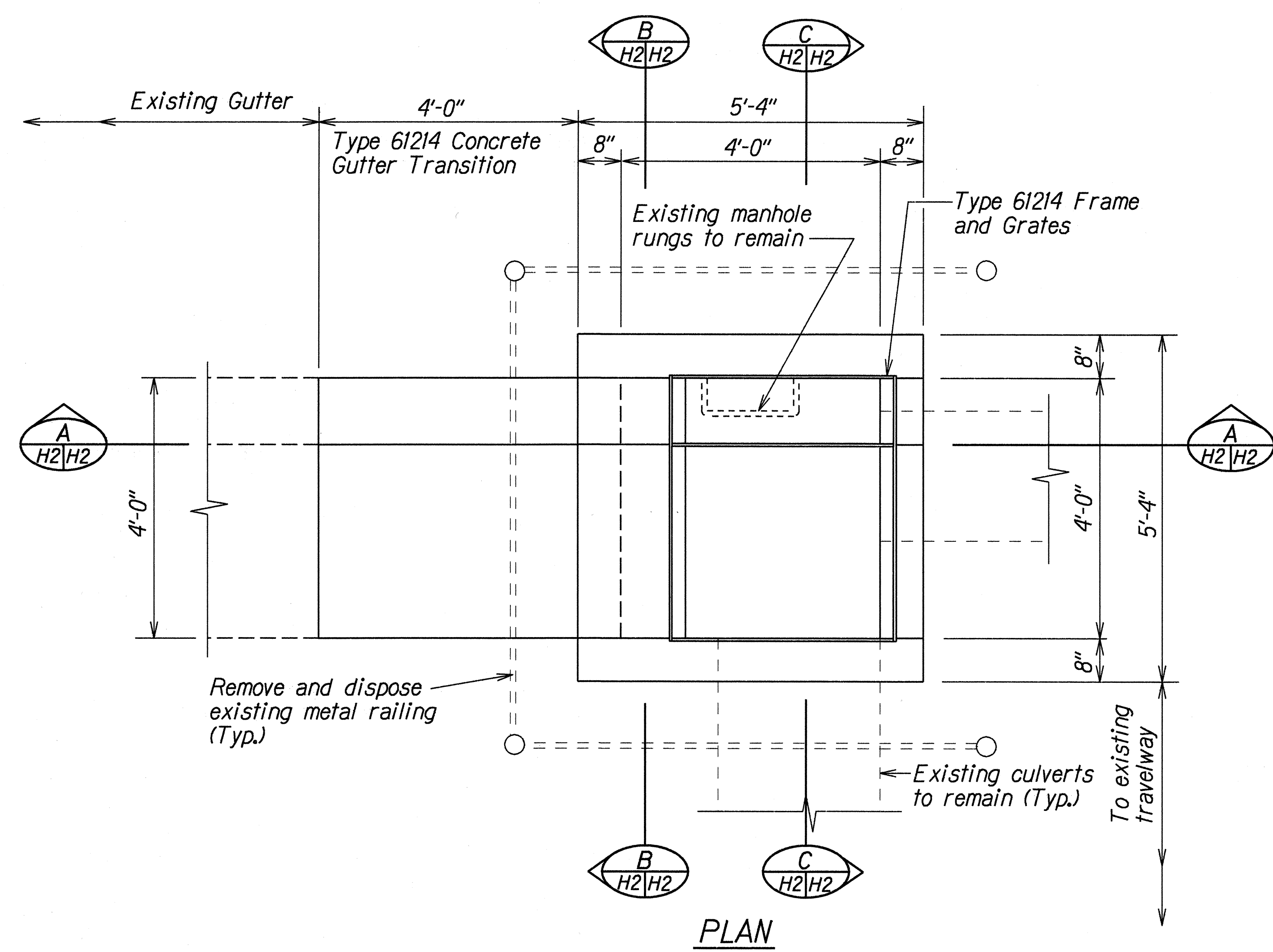
DRAINAGE DETAILS

INTERSTATE ROUTE H-1 RESURFACING
Vicinity of Waipahu Street to Waiawa Road
Federal-Aid Project No. IM-HI-1(224)

Scale: As Shown
Date: May, 1997

SHEET No. HI OF 5 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	1M-H1-1(224)	1997	46	65



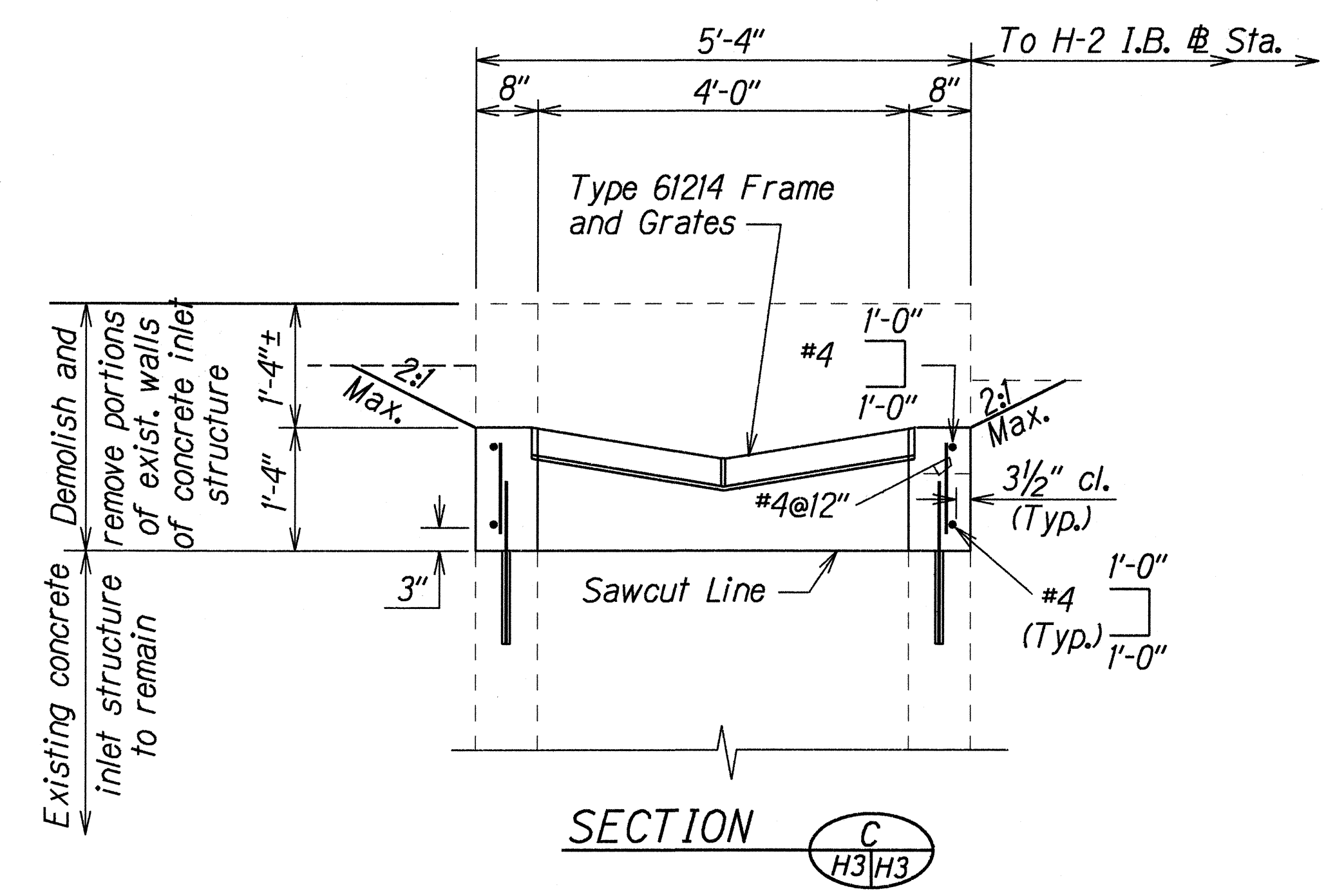
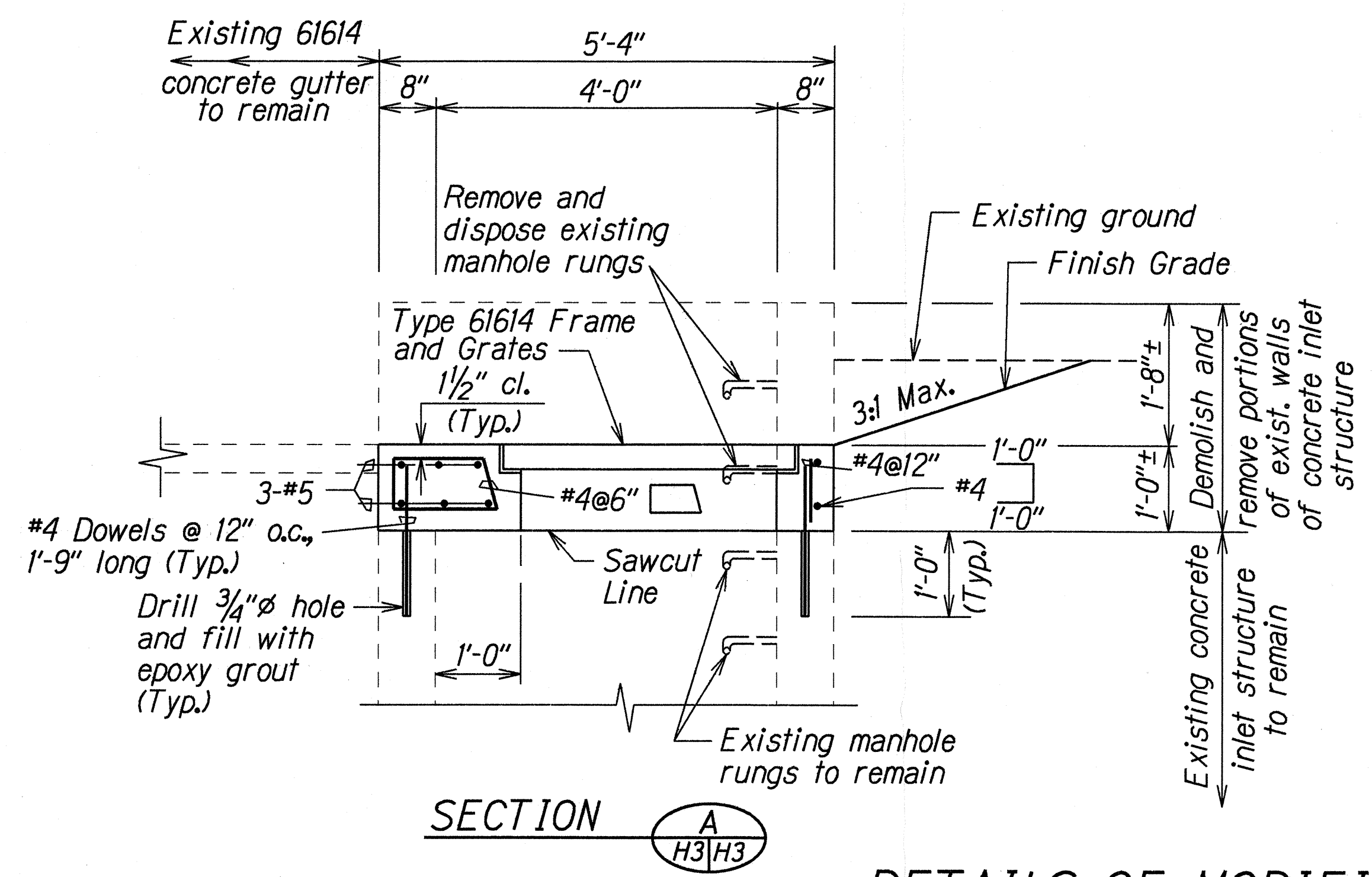
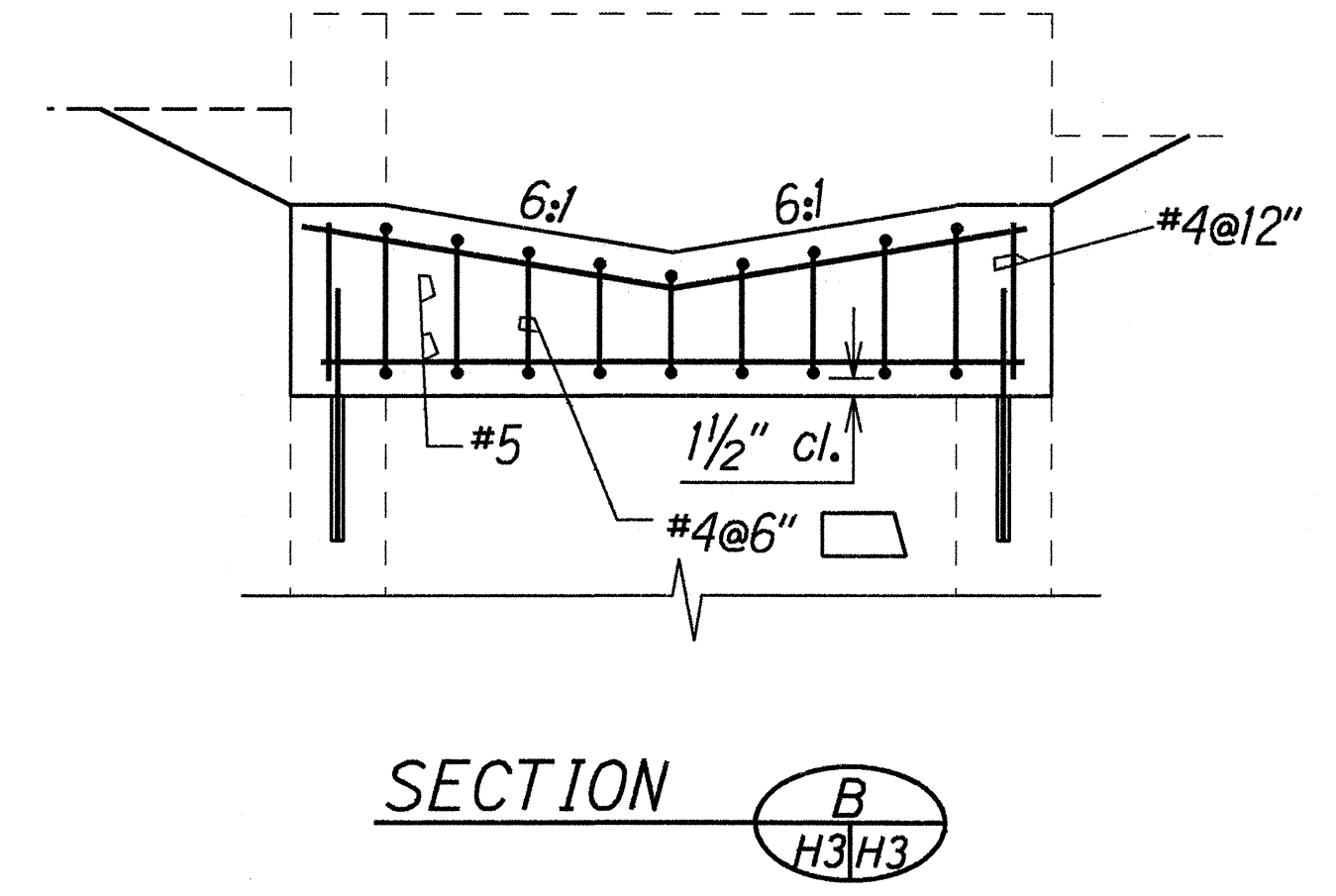
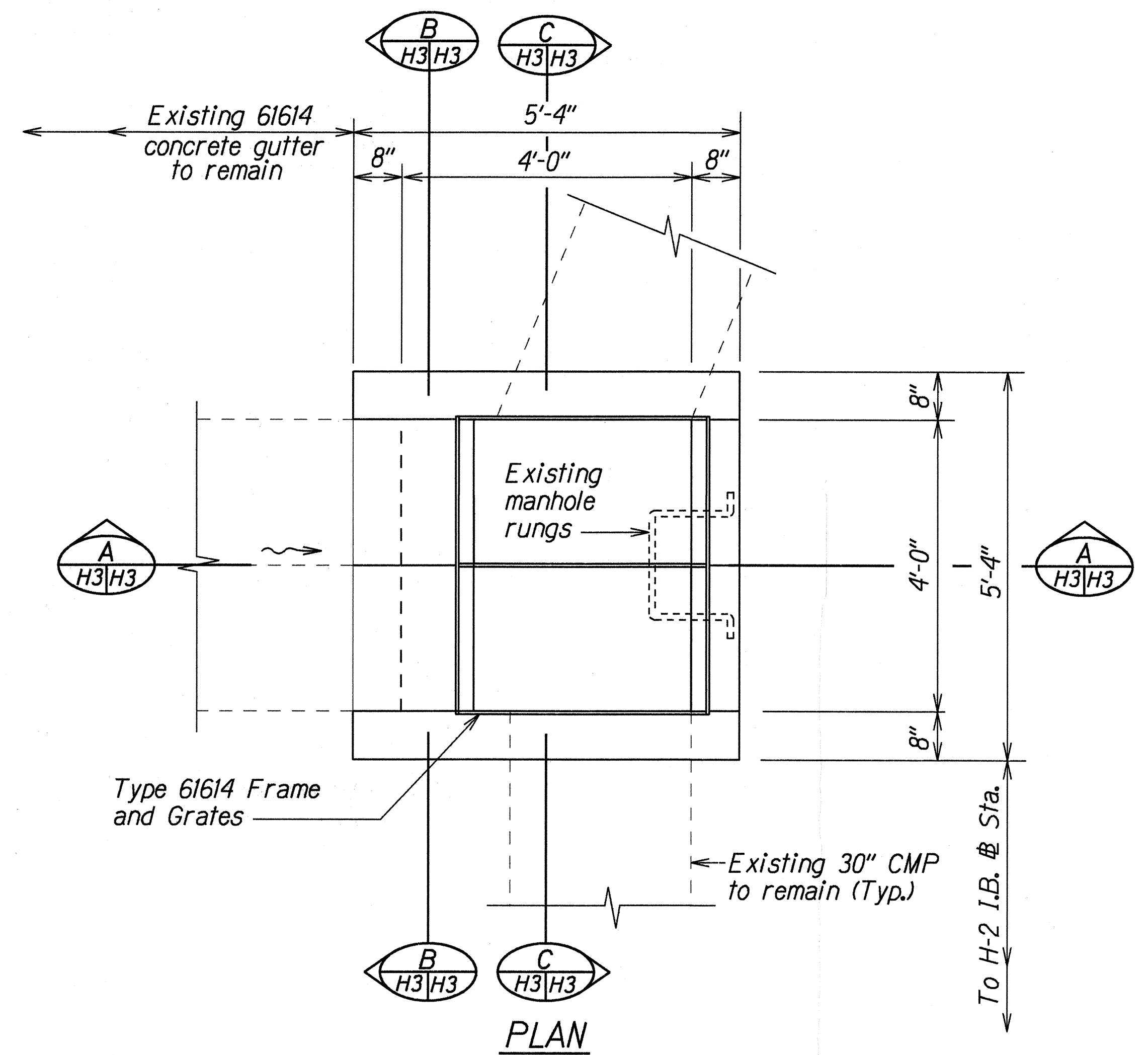
TYPICAL DETAILS OF MODIFIED TYPE 61214 GRATED DROP INLET

ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
NOTE BOOK	DRAWN BY L. Cockell, A. Naniwa	X
QUANTITIES BY	TRACED BY C. Matsuda	
CHECKED BY		

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

DRAINAGE DETAILS
INTERSTATE ROUTE H-1 RESURFACING
Vicinity of Waipahu Street to Waiawa Road
Federal-Aid Project No. 1M-H1-1(224)
Scale: 3/4"=1'-0" Date: May, 1997

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	IM-HI-1(224)	1997	47	65



**DETAILS OF MODIFIED TYPE 61614 GRATED DROP INLET AT
H-2 I.B. TO H-1 I.B. @ STA. 457+64± LT.**

SURVEY PLOTTED BY	DATE
DRAWN BY A. Manuwa	5/14/97
NOTED BY C. Matsuda	
CHECKED BY	
ORIGINAL PLAN	
NOTE BOOK	
ORIGINAL	
CHECKED	

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

DRAINAGE DETAILS
INTERSTATE ROUTE H-1 RESURFACING
Vicinity of Waipahu Street to Waiawa Road
Federal-Aid Project No. IM-HI-1(224)
Scale: 3/4"=1'-0" Date: May, 1997
SHEET No. H3 OF 5 SHEETS

