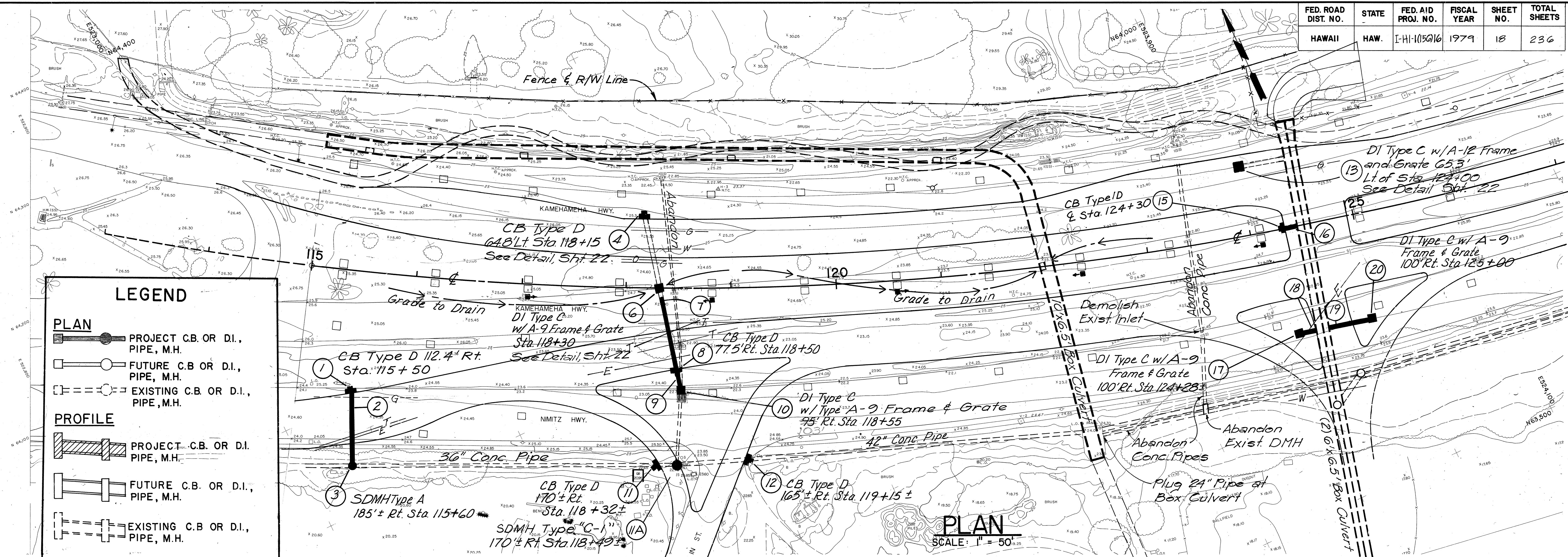
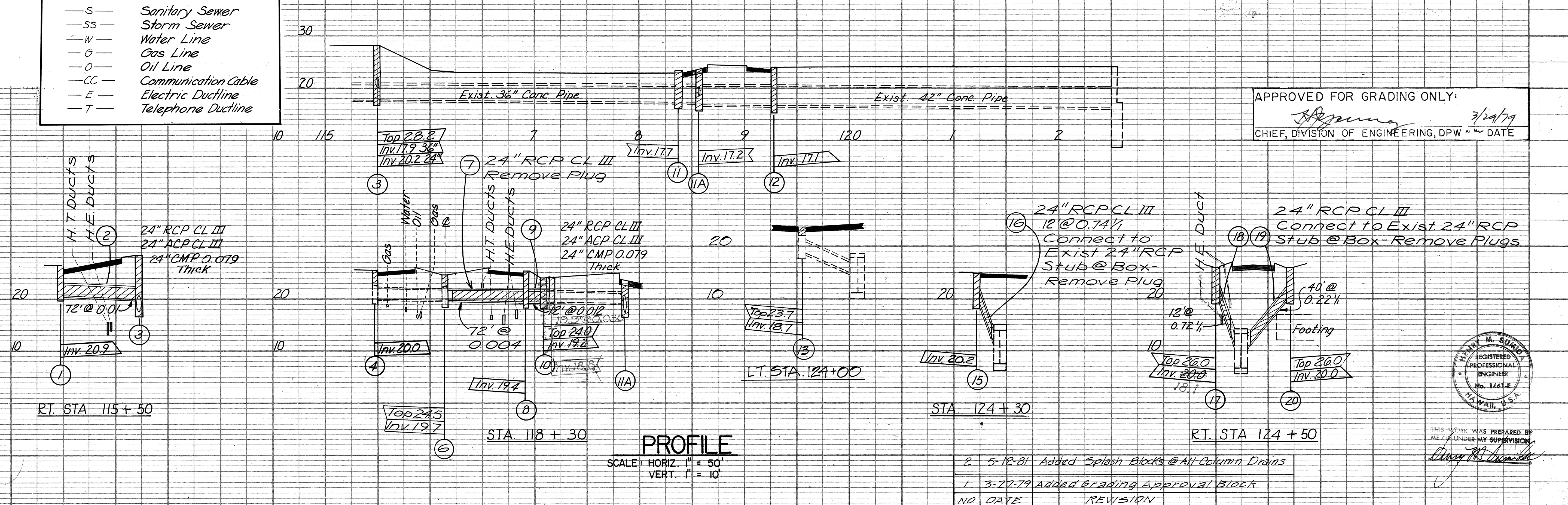


FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-HI-1(150)16	1979	18	236



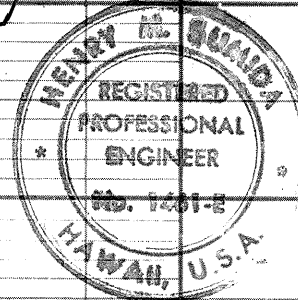
PLAN		BY	DATE
SURVEYED			
PLOTTED			
ALIGNMENT CHECKED			
RT. OF WAY CHECKED			
NO			

PROFILE		BY	DATE
SURVEYED			
PLOTTED			
NOTE BOOK			
GRADES CHECKED			
B. M.'s NOTED			
STRUCTURE NOTATIONS CHK'D			
NO.			



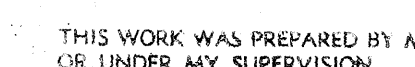
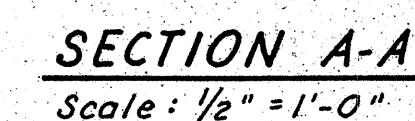
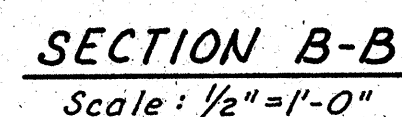
PLAN		BY	DATE
SURVEYED			
PIOTTED			
NOTE BOOK			
ALIGNMENT CHECKED			
RT. OF WAY CHECKED			
NO			

PROFILE	BY	DATE
SURVEYED		
PLOTTED		
GRADES CHECKED		
B.M.'S NOTED		
STRUCTURE NOTATIONS CHECKED		



FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	FHH(156):16	1979	20	236

1. See also General Notes, Special Provisions & Specifications.
2. See Hawaii Standard Details including:
Dwg. No. DH6 "Catch Basin and Manhole Castings."
3. Provide 1" Chamfer for all exposed edges.
4. All concrete shall be Class A.
5. Reinforced Concrete Design Data:
 $f'_c = 3,000$ p.s.i. (28 Days)
 $f_y = 40,000$ p.s.i. {
 $f_s = 20,000$ p.s.i. { Deformed Bars
6. Maintain 2" cl. on all Reinforcing Steel.
7. Unless shown otherwise all hooks are standard.



Handl, William

SCALE AS SHOWN DATE: OCT.31, 1978
SHEET No. OF SHEETS

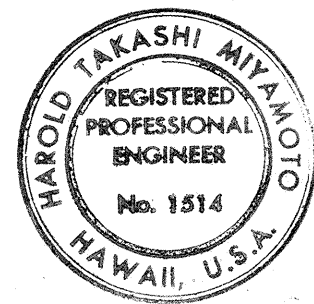
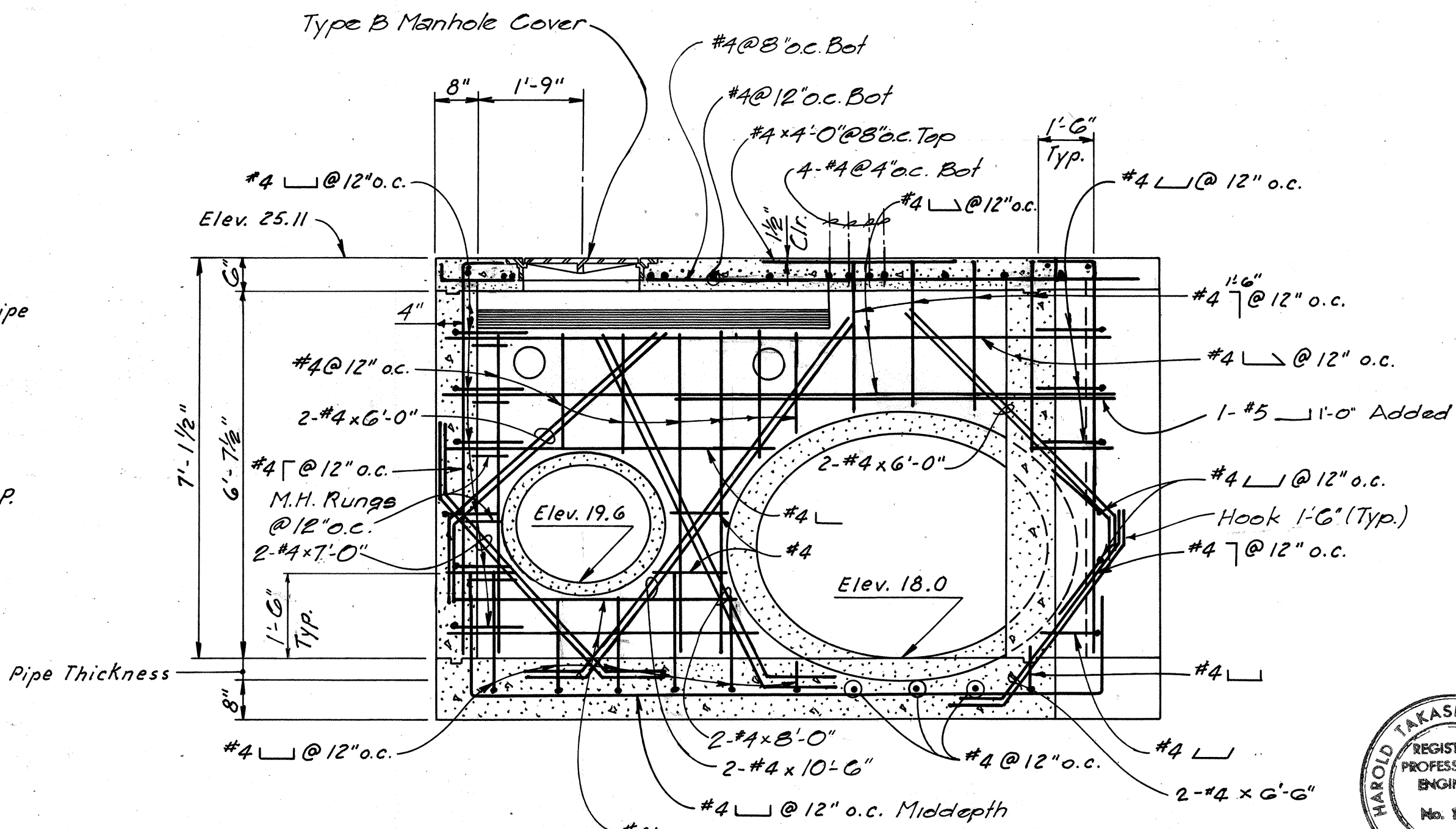
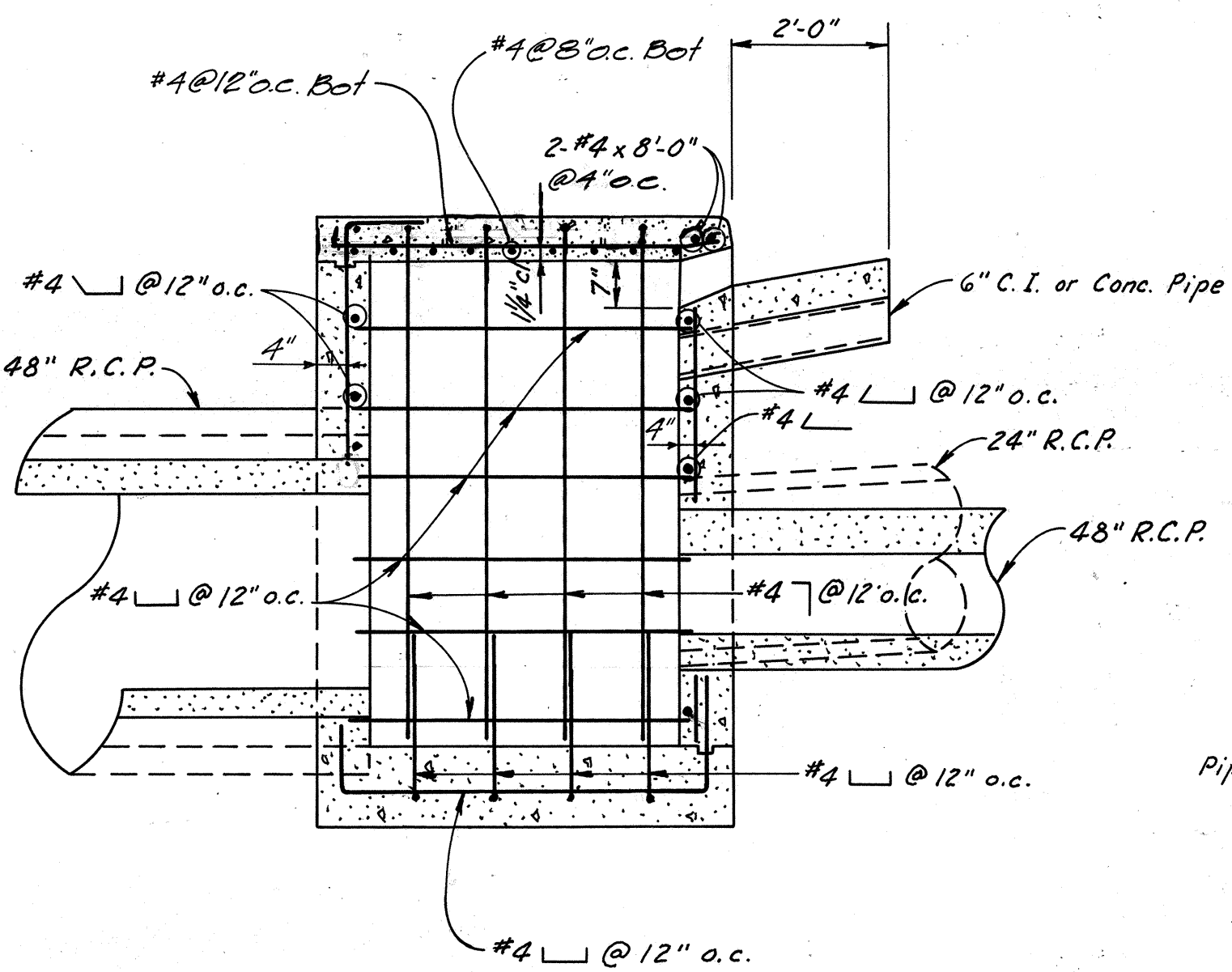
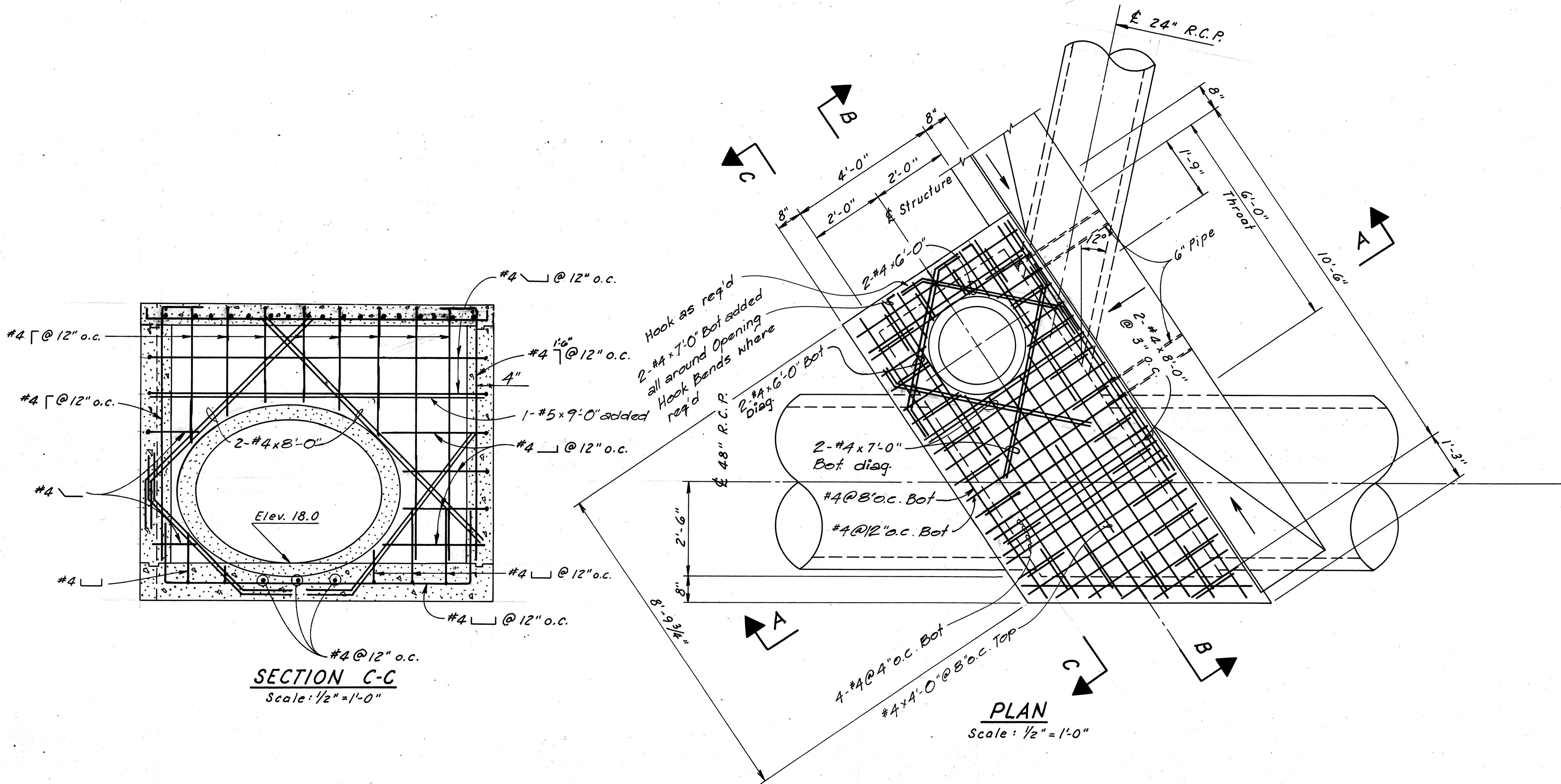
ORIGINAL PLAN	SURVEY PLOTTED BY _____ DATE _____
NOTE BOOK	DRAWN BY _____
	TRACED BY _____
	DESIGNED BY _____
	QUANTITIES BY _____
No. _____	CHECKED BY _____

MANHOLE & CATCH BASIN STA. 138+26 RT. 140'

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-HI-1(156)-16	1979	21	236

NOTES

- See also General Notes, Special Provisions & Specifications.
- See Hawaii Standard Details including:
Dwg. No. DH6 "Catch Basin & Manhole Castings."
Dwg. No. DH1 "Catch Basins"
- Provide 1" Chamfer for all exposed edges.
- All Concrete shall be Class A
- Reinforced Concrete Design Data:
 $f'_c = 3000$ p.s.i. (28 Days)
 $F_y = 40,000$ p.s.i.
 $F_s = 20,000$ p.s.i. {Deformed Bars}
- Maintain 2" cl. on all Reinforcing Steel Unless otherwise noted.
- Unless Shown otherwise all hooks are standard.



THIS WORK WAS PREPARED BY ME
OR UNDER MY SUPERVISION
Harold Takashi Miyajima

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

MANHOLE DETAILS

AIRPORT INTERCHANGE I-HI-1(156)-16

SCALE: AS NOTED DATE: OCT. 1978

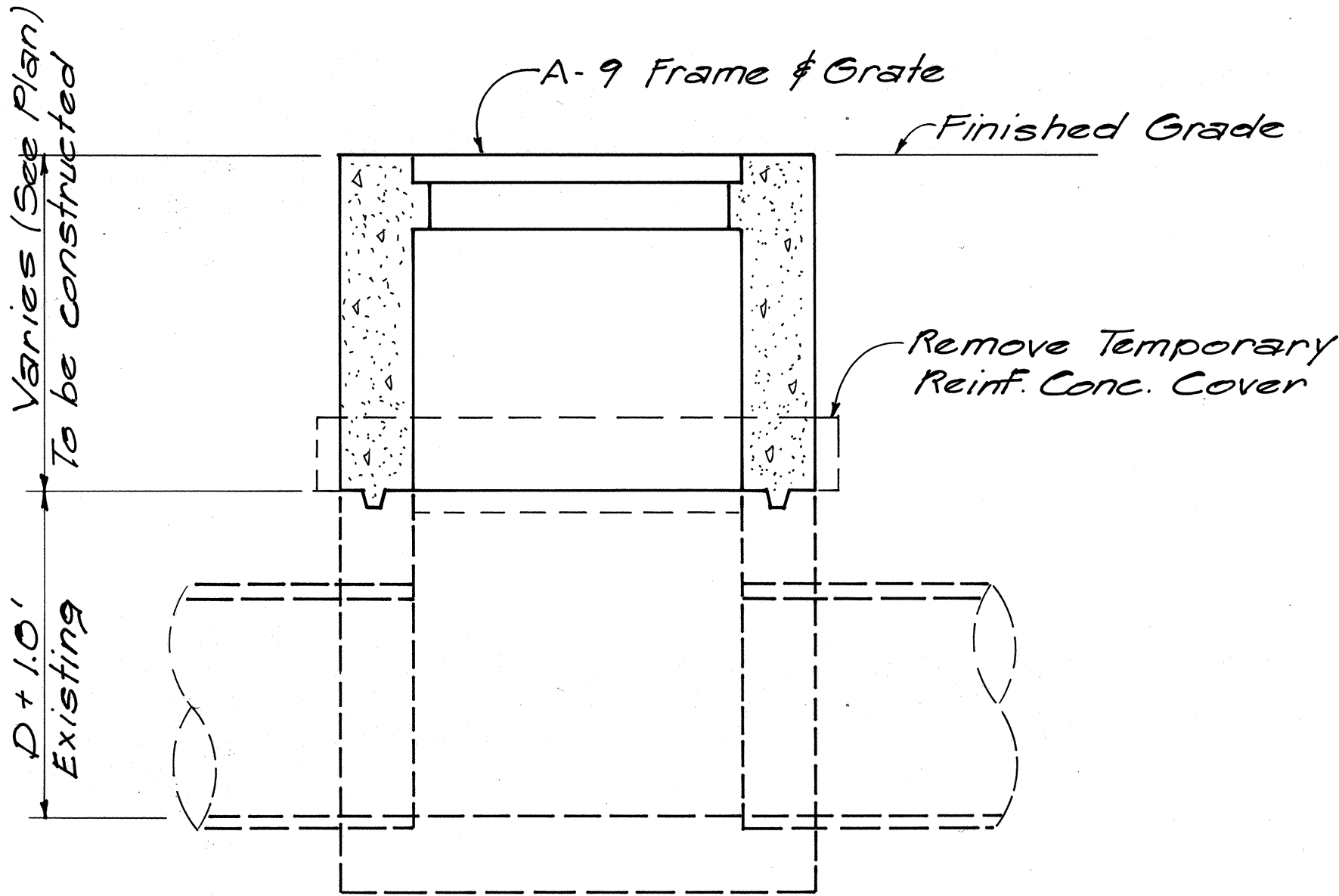
SHEET No. OF SHEETS

CORR 7-B 21

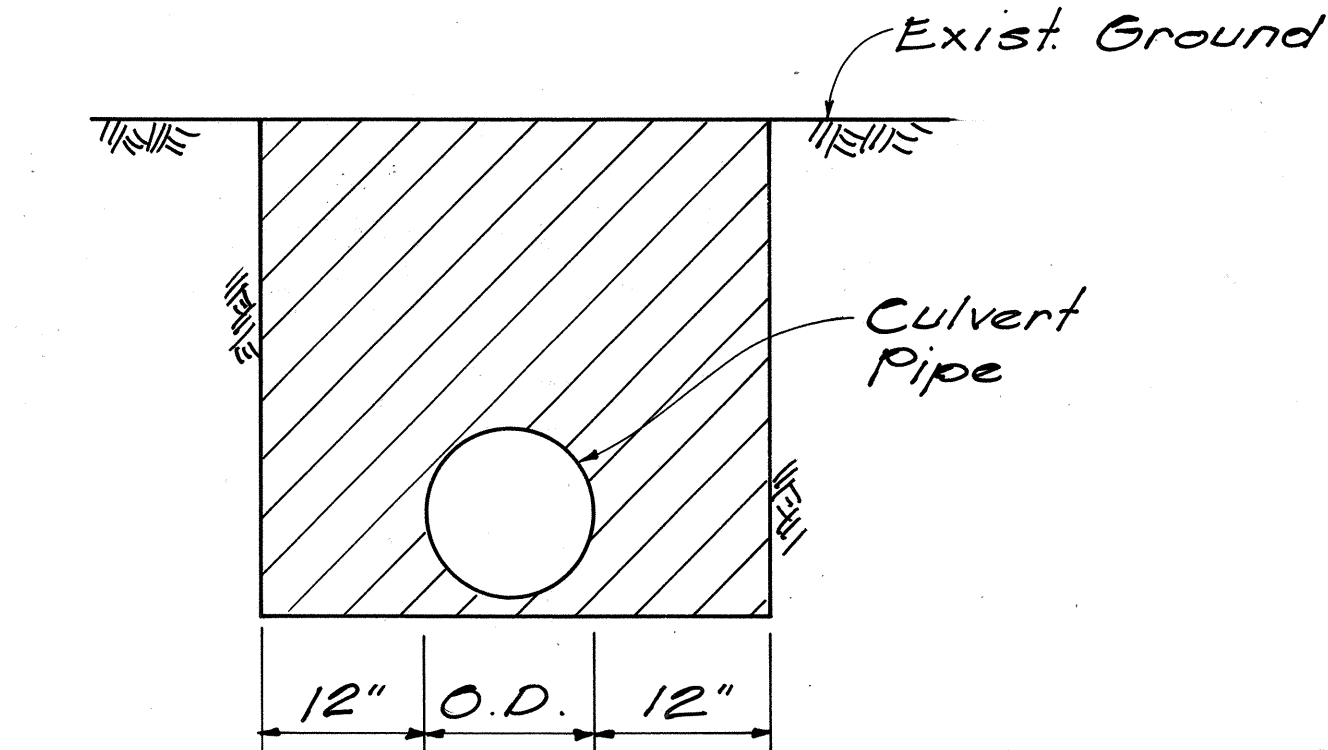
DATE	
DESIGNED BY	
TRACED BY	
NOTED BY	
CHECKED BY	
ORIGINAL PLAN	
NOTE BOOK	
No.	

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H-1(156)-16	1979	22	236

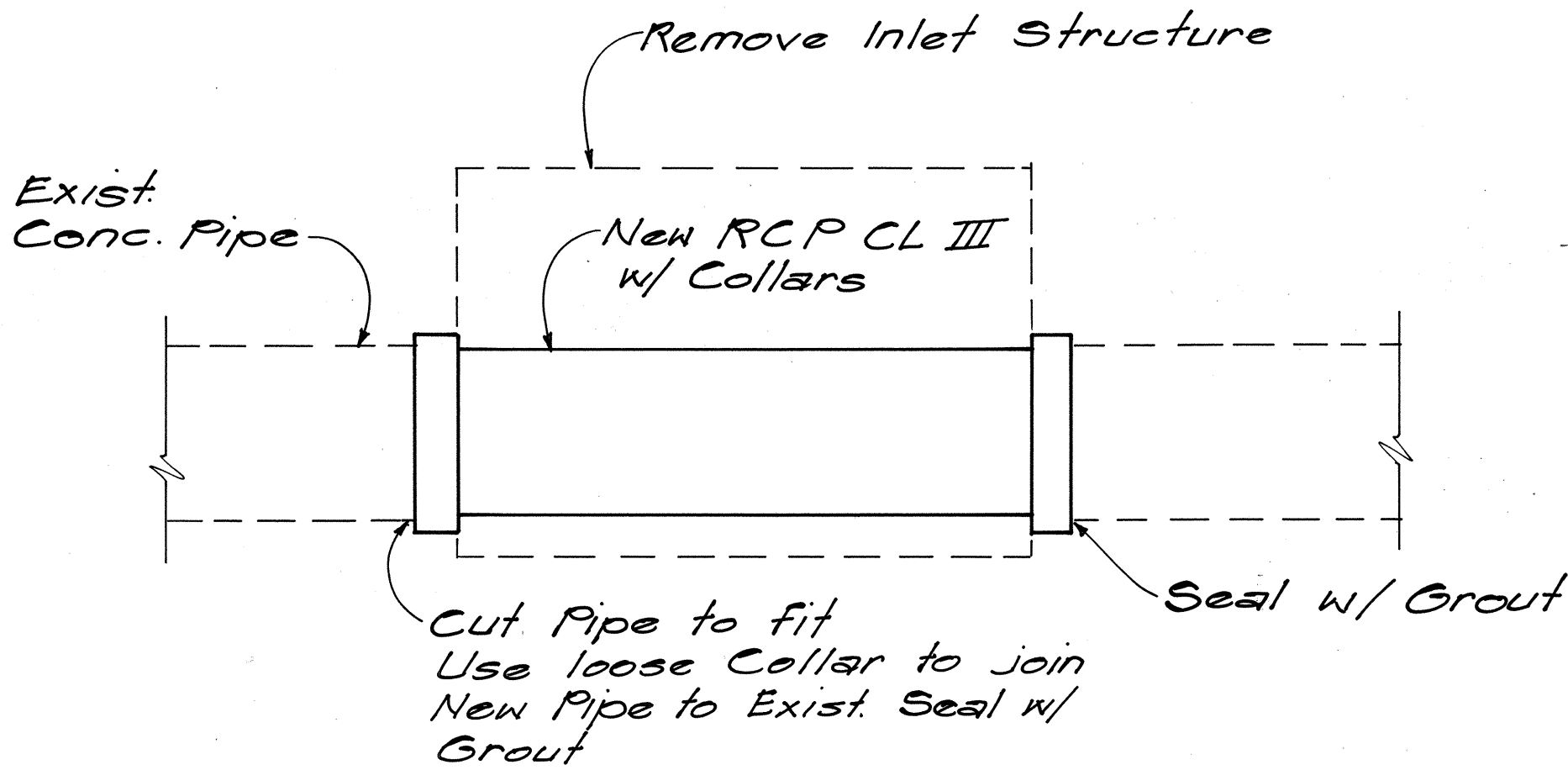
Drainage Sht. No.	Structure Sht. No.
1	6, 13
2	3, 14, 21



TYPE 'C' CONCRETE DROP INTAKE
No Scale



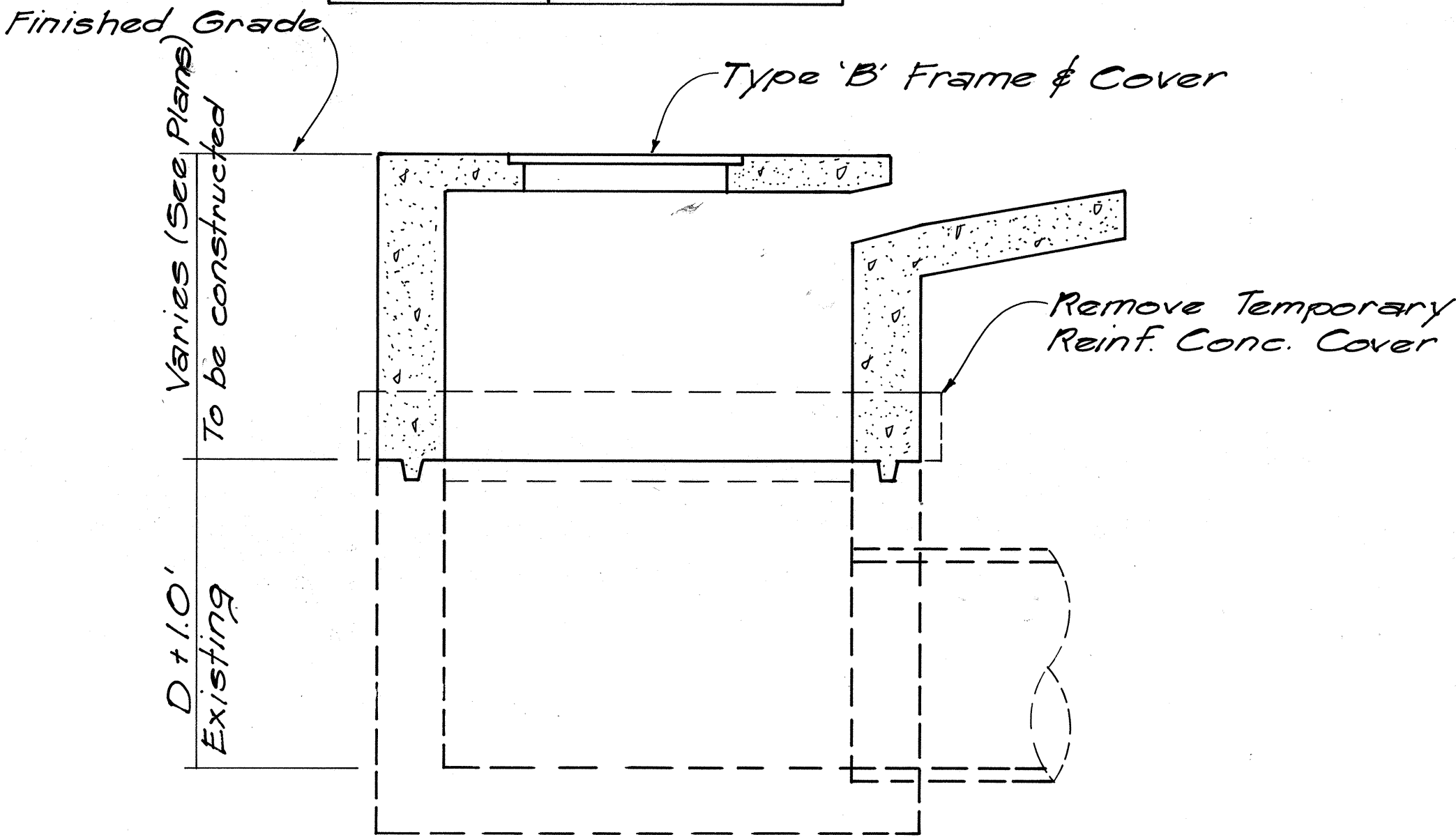
TRENCH EXCAVATION LIMIT
No Scale



- NOTES:
1. Bed Course Material shall be incidental to cost of various drainage items.
 2. The removal of Exist. Inlet structures shall be included in Bid Item 202.0100.
 3. Pipe and Collars to be paid for by Bid Item 603.1011.

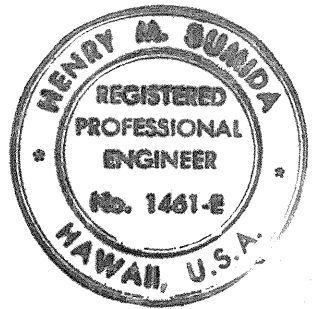
PIPE CONNECTION AT REMOVED INLETS
No Scale

Drainage Sht. No.	Structure Sht. No.
1	4
2	1, 12, 19



TYPE 'D' CATCH BASIN
No Scale

SURVEY PLOTTED BY	DATE
DRAWN BY	
DESIGNED BY	
NOTE BOOK	
QUANTITIES BY	
CHECKED BY	
No.	



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Henry M. Guma

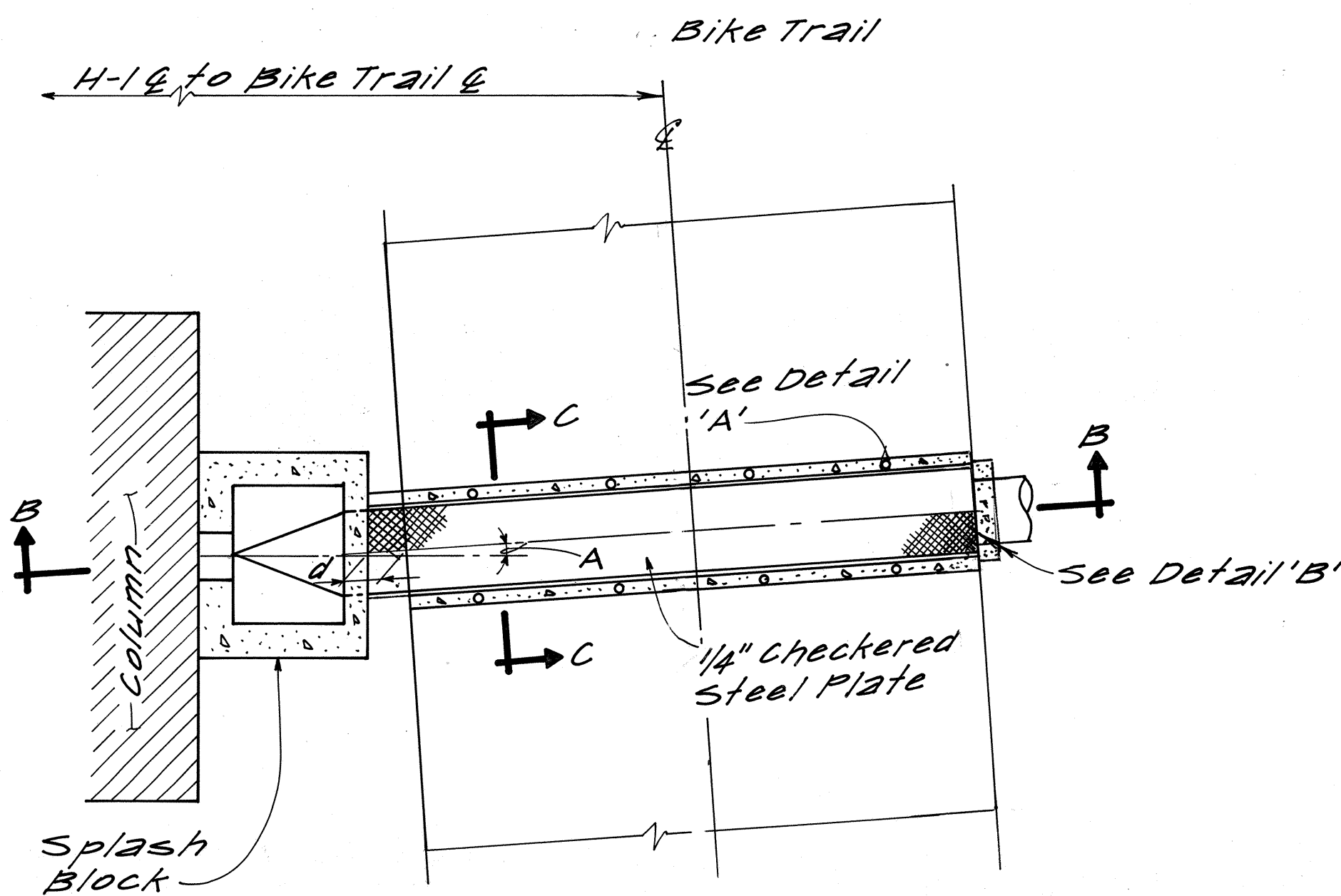
STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
LAND TRANSPORTATION FACILITIES DIVISION

DRAINAGE DETAILS

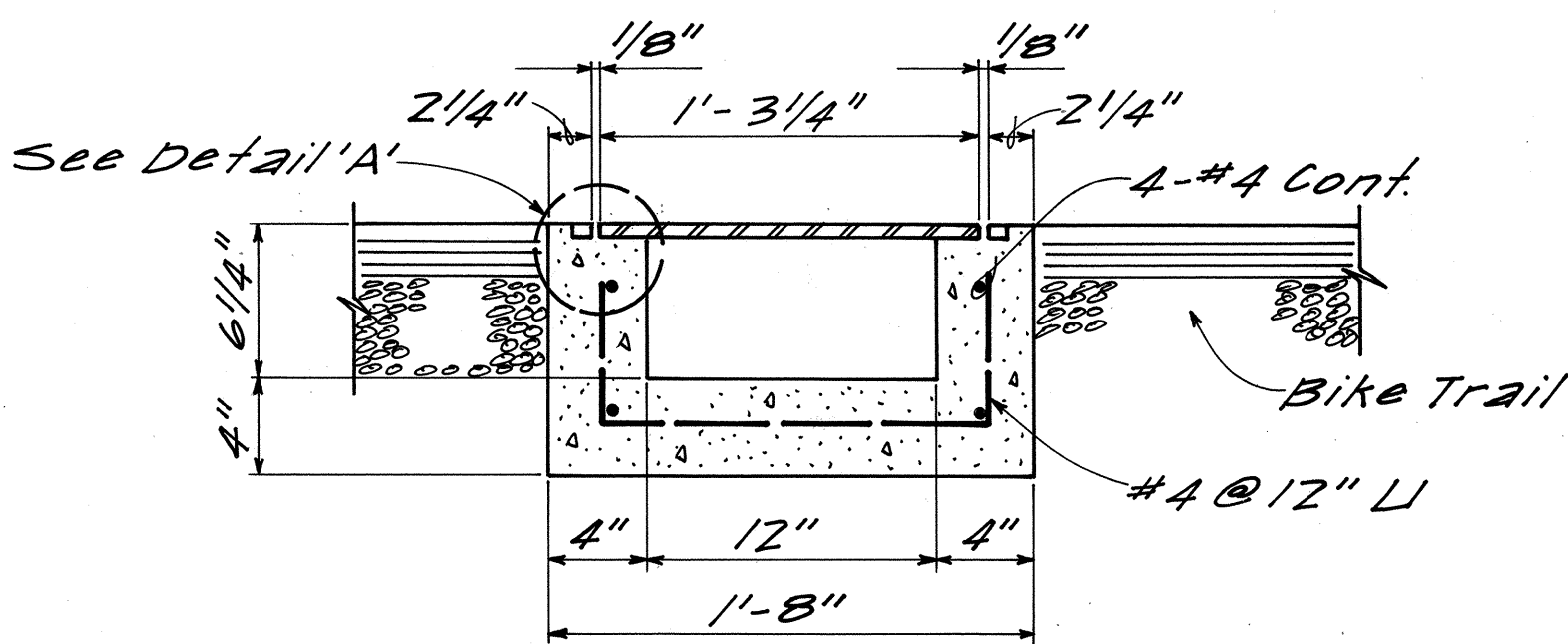
AIRPORT INTERCHANGE
F.A.I. PROJ. NO. I-H-1(156)-16
SCALE: AS SHOWN DATE: NOV 27, 1978
SHEET NO. 22 OF 236 SHEETS

Pier	Station	A	d	Elev. A	Elev. B	Elev. C
26	137+30	0°00'	0.00	28.00	27.00	26.83
27	138+26	0°00'				

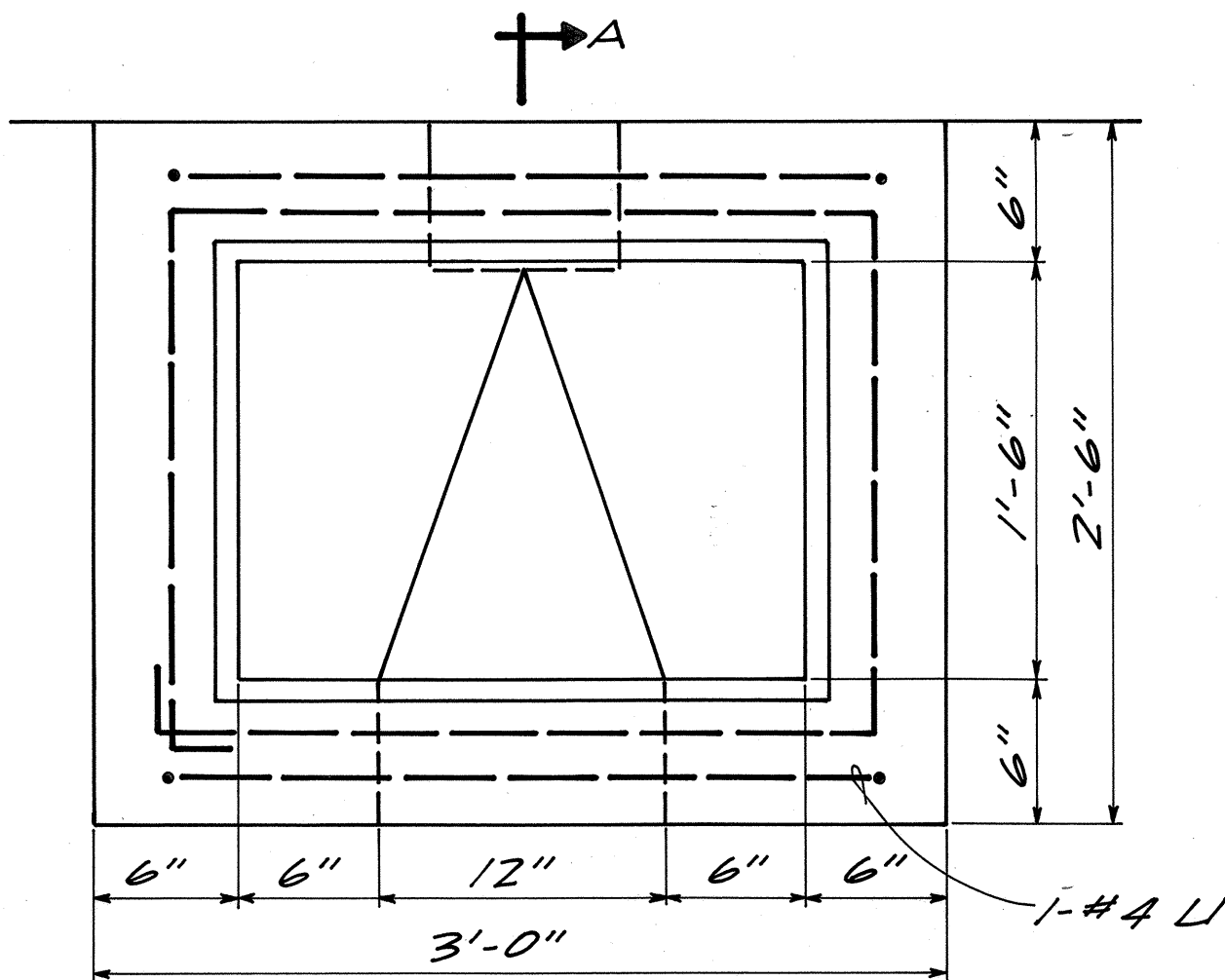
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	F-H-1(156)-16	1979	23	236



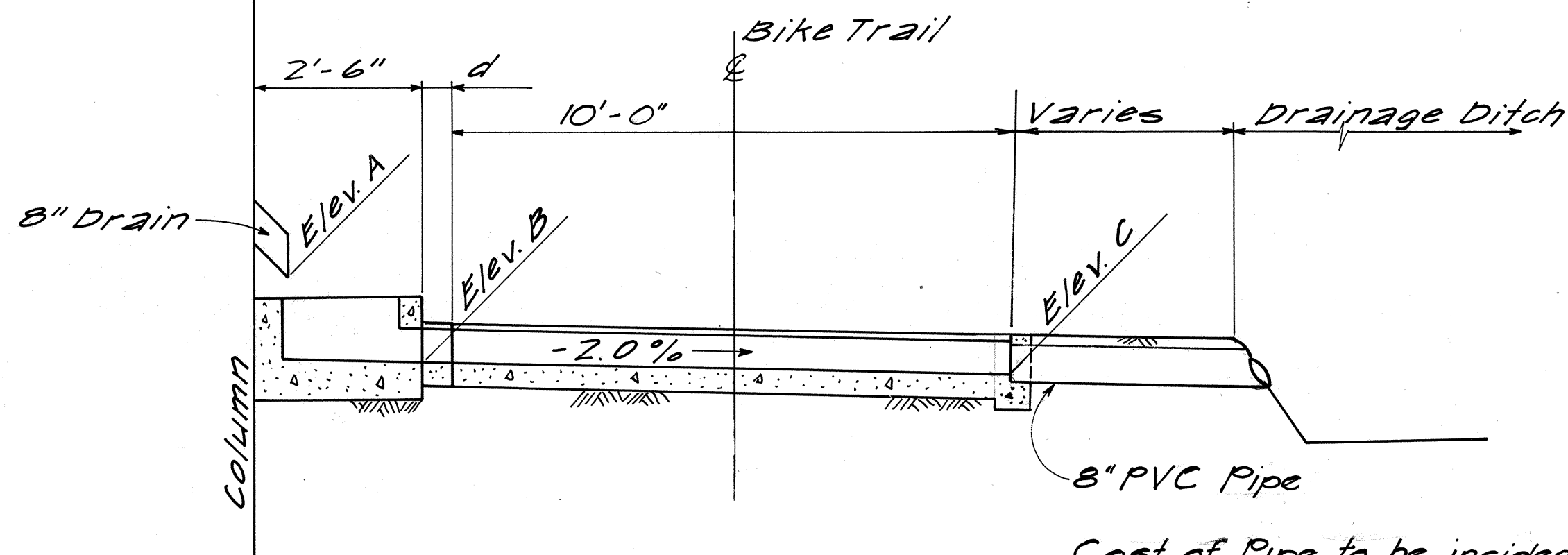
PLAN
N.T.S.



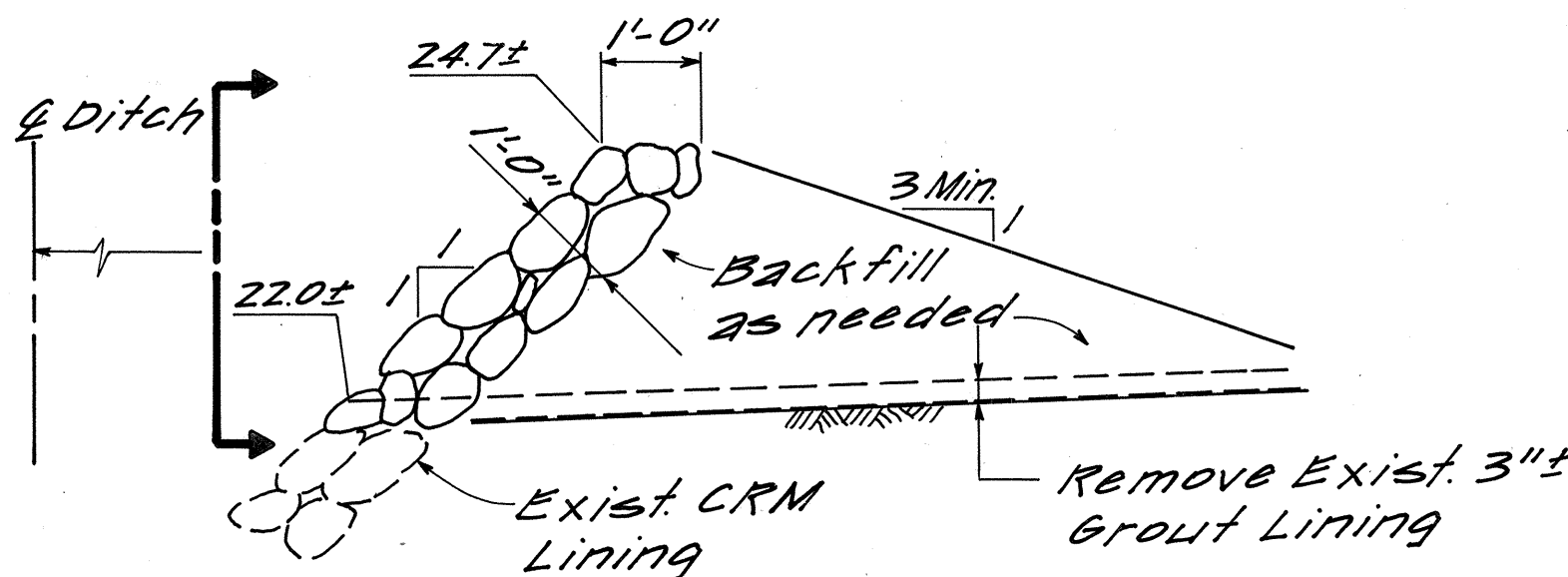
SECTION C-C
N.T.S.



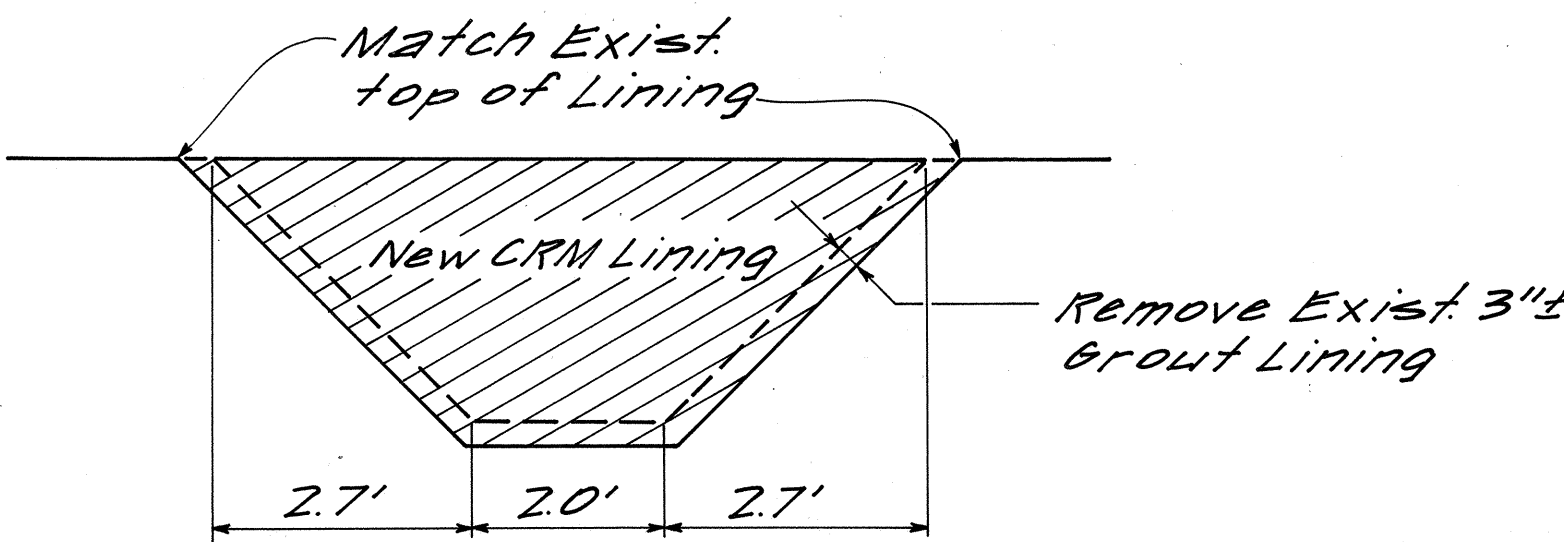
SPLASH BLOCK
SCALE: 1 1/2" = 1'-0"



SECTION B-B
N.T.S.

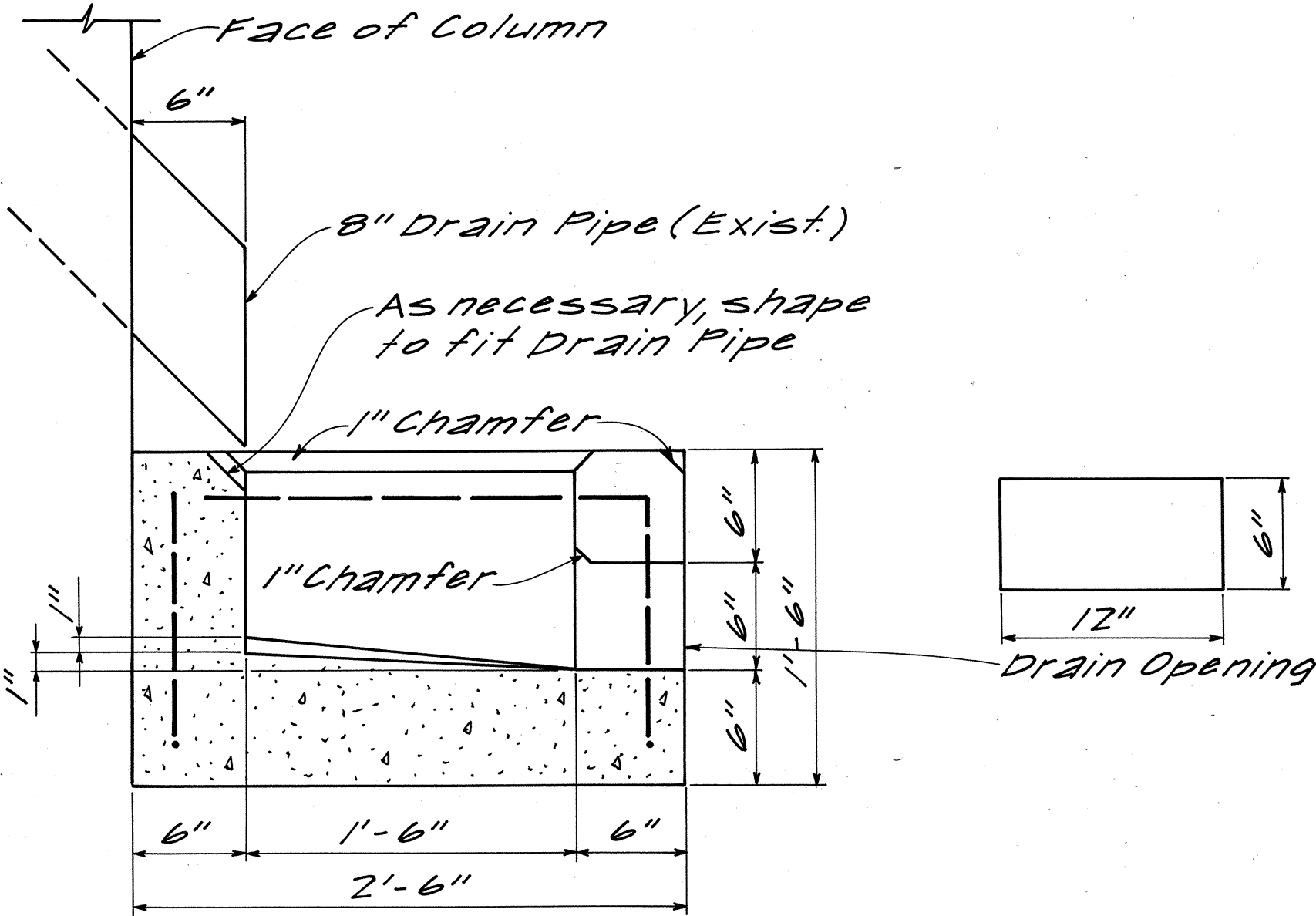


SECTION

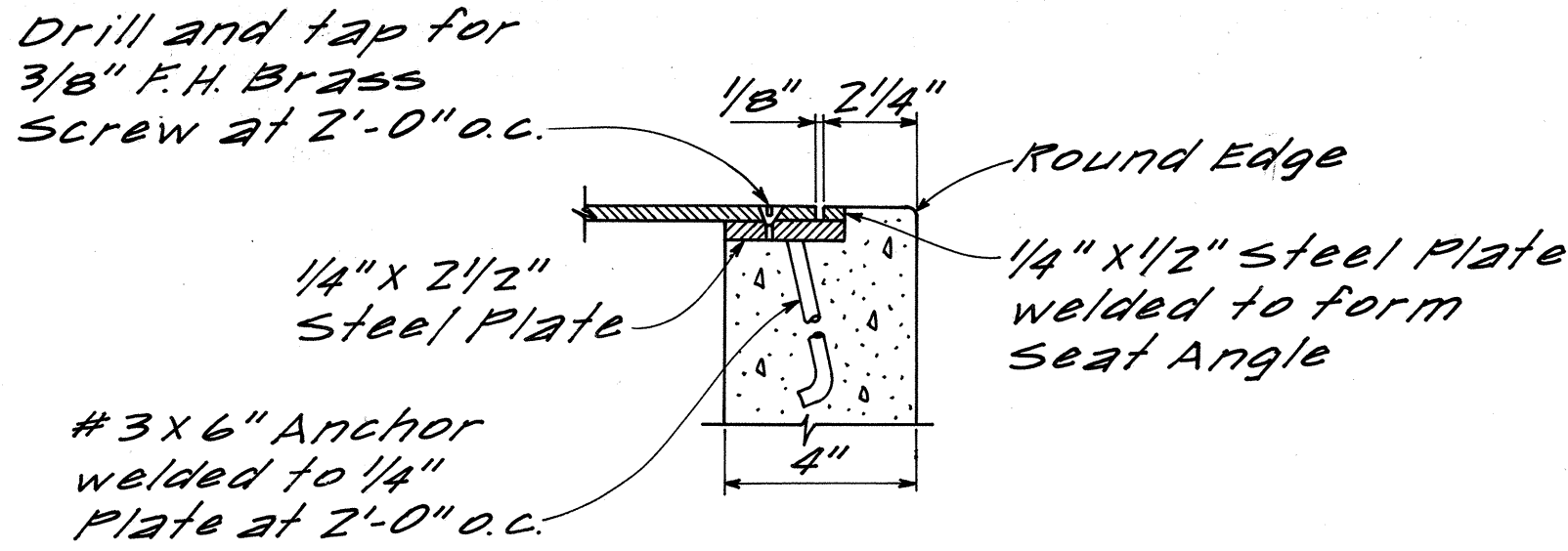


ELEVATION

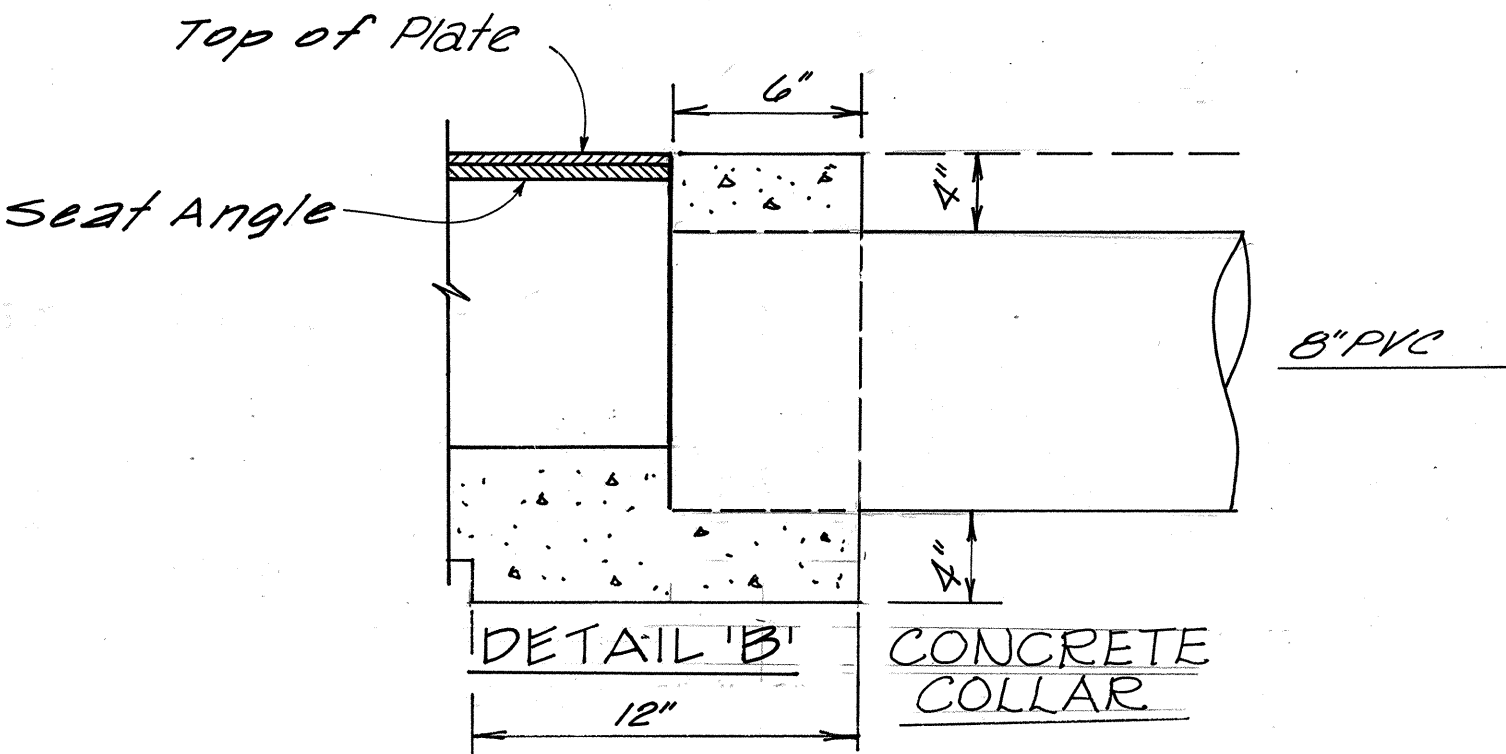
FINISH CRM LINING 110'± LT. 125+35
SCALE: 1/2" = 1'-0"



SECTION A-A
SCALE: 1 1/2" = 1'-0"



DETAIL 'A'
SCALE: 3" = 1'-0"



DETAIL 'B'
CONCRETE COLLAR

DATE	_____
SURVEY PLOTTED BY	_____
DESIGNED BY	_____
TRACED BY	_____
NOTE BOOK	_____
QUANTITIES BY	_____
CHECKED BY	_____



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Henry M. Sumida

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
LAND TRANSPORTATION FACILITIES DIVISION

DRAINAGE DETAILS

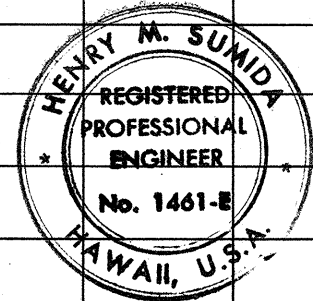
AIRPORT INTERCHANGE
F.A.I. PROJ. NO. I-H-1(156)-16
SCALE AS SHOWN DATE: NOV. 17, 1978
SHEET NO. 2 OF 2 SHEETS

DRAINAGE SUMMARY

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-11-1050-16	1979	24	236

DRAINAGE STRUCTURES			ESTIMATED QUANTITIES																															ITEM NUMBER SHEET																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
DRAINAGE STRUCTURE	SHEET NUMBER	CONTRACT ITEM NO.	200.	508	503.	602.	603.	603.		603.	603.		604.	604.	604.		604.	604.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													</

ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
NOTE BOOK	DRAWN BY	
	DESIGNED BY	
	QUANTITIES BY	
	CHECKED BY	



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Henry M. Sumida

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	IHI-1(158)-16	1979	25	236



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Henry M. Durkin

$$Z \text{ OF } Z$$

25