

DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	HWY-0-05-98	2000	4	116

Notes:

1. Contractor to Tone Area Within Limits Of Work Prior To Start Of Construction.
2. The Contractor Is Reminded Of The Requirements Of Section 209-Erosion And Sediment Control. Section 209 Requires The Contractor To: Submit Erosion And Sediment Control Best Management Practices (BMPs); Comply With Applicable Permit(s) Conditions Issued By The Department Of Health; Hold An Erosion And Sediment Control Conference With The Engineer Before The Start Of Work; Comply With Construction Requirements For Implementing, Maintaining, And Repairing BMPs As Deemed Necessary.

Dewatering Notes:

1. If The Contractor Chooses To Discharge Groundwater Into State Waters, The Contractor Shall Obtain The Necessary Permit(s) From The Department Of Health, Clean Water Branch. The Cost Of Obtaining Any Permit(s) Shall Be Considered Incidental To The Various Contract Items.
2. The Contractor Shall Furnish, Install, Maintain And Operate All Necessary Pumping And Other Equipment For Dewatering The Various Parts Of The Work, Regardless Of The Source Of Water. The Contractor Shall Maintain A Water-Free Foundation To Properly Perform The Item Of Work.
3. The Contractor Shall Repair Or Replace At His Own Expense, Any Damage To The Foundation Or Any Other Part Of The Work Caused By Water Or Failure Of Any Part Of The Work Division Or Protective Works. The Contractor Shall Also Be Responsible For And Shall Repair Or Replace, At His Own Expense, Damage To Any Property, Caused By The Dewatering Process.

Grading Notes:

1. Prior To Placement Of Fill, The Existing Ground Shall be Scarified To A Depth Of Six Inches, Moistened If Necessary To Slightly Above The Optimum Moisture Content, And Compacted To A Minimum 90 Percent Compaction As Determined By ASTM D 1557.
2. Imported Granular Structural Fill Shall Be A Well-graded Non-expansive Granular Material With A Maximum Particle Size Of 3 Inches, With Not More Than 20 Percent Of Soil By Weight Passing The #200 Sieve. In Addition, The Plasticity Index (P.I.) Of That Portion Of The Soil Passing The #40 Sieve Shall Not Be Greater Than 10.

C-1

7/20/2000	PCD 1 Clarification
June 2000	Revised Dewatering Notes 1, Add Note 2 & Legend
Date	Revision

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

DEMOLITION & GRADING PLAN

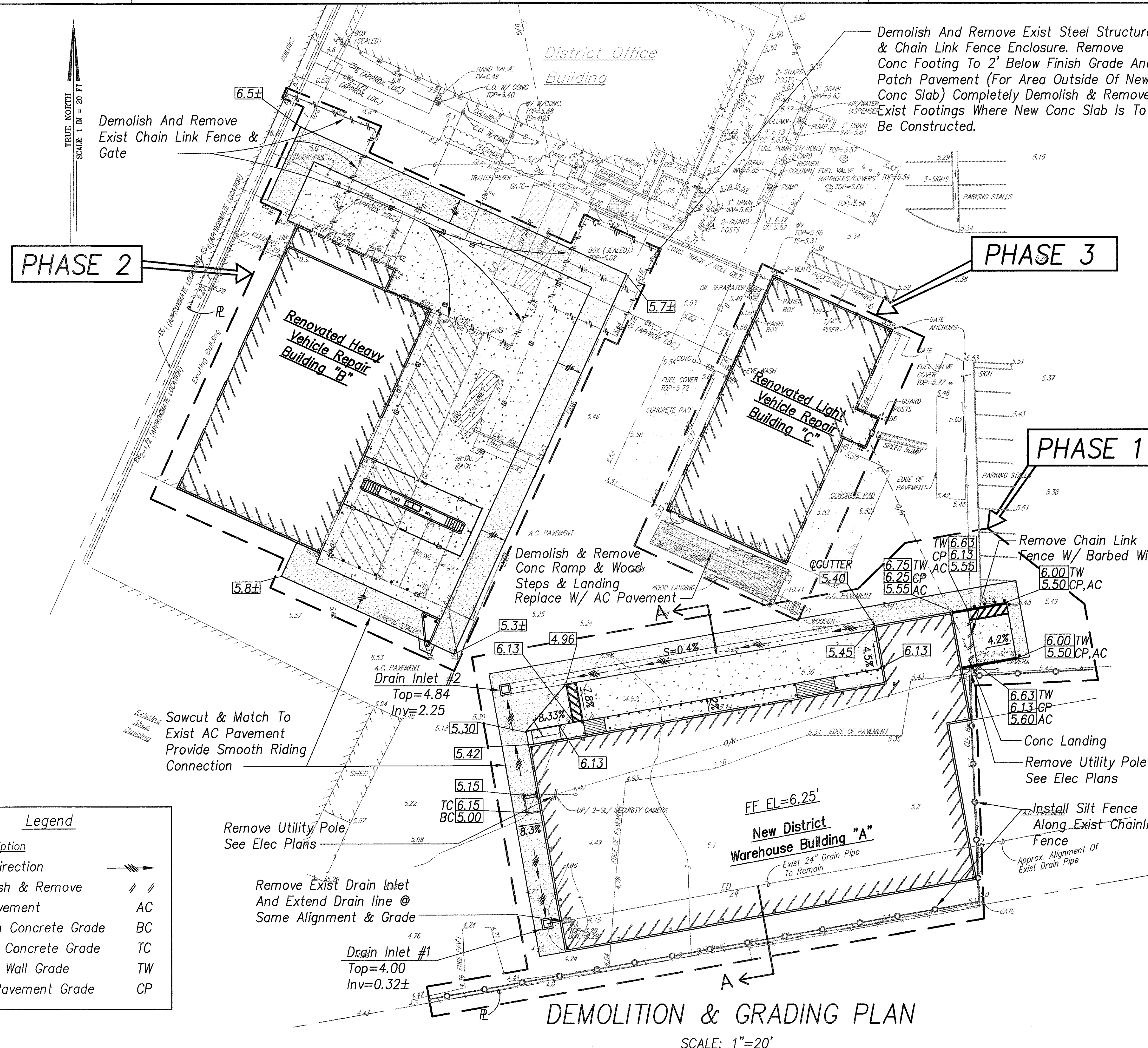
OAHU DISTRICT WAREHOUSE BUILDING

Project No. HWY-0-05-98

Scale: AS SHOWN Date: APRIL 2000

SHEET No. C1 OF 116 SHEETS

C.O. 4



Legend	
Description	
Flow Direction	
Demolish & Remove	
AC Pavement	AC
Bottom Concrete Grade	BC
Top Of Concrete Grade	TC
Top Of Wall Grade	TW
Conc Pavement Grade	CP

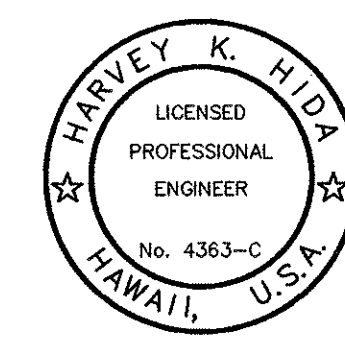
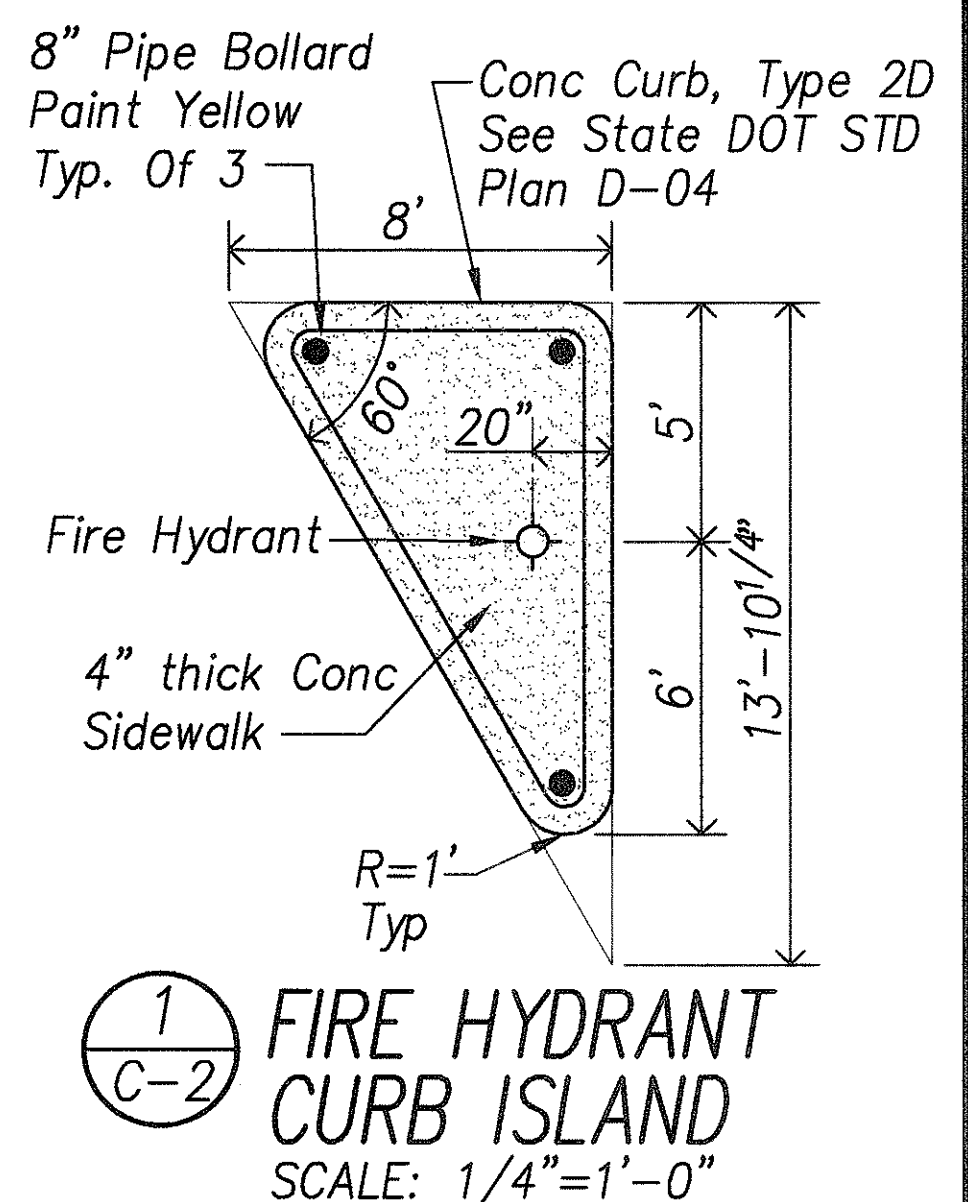
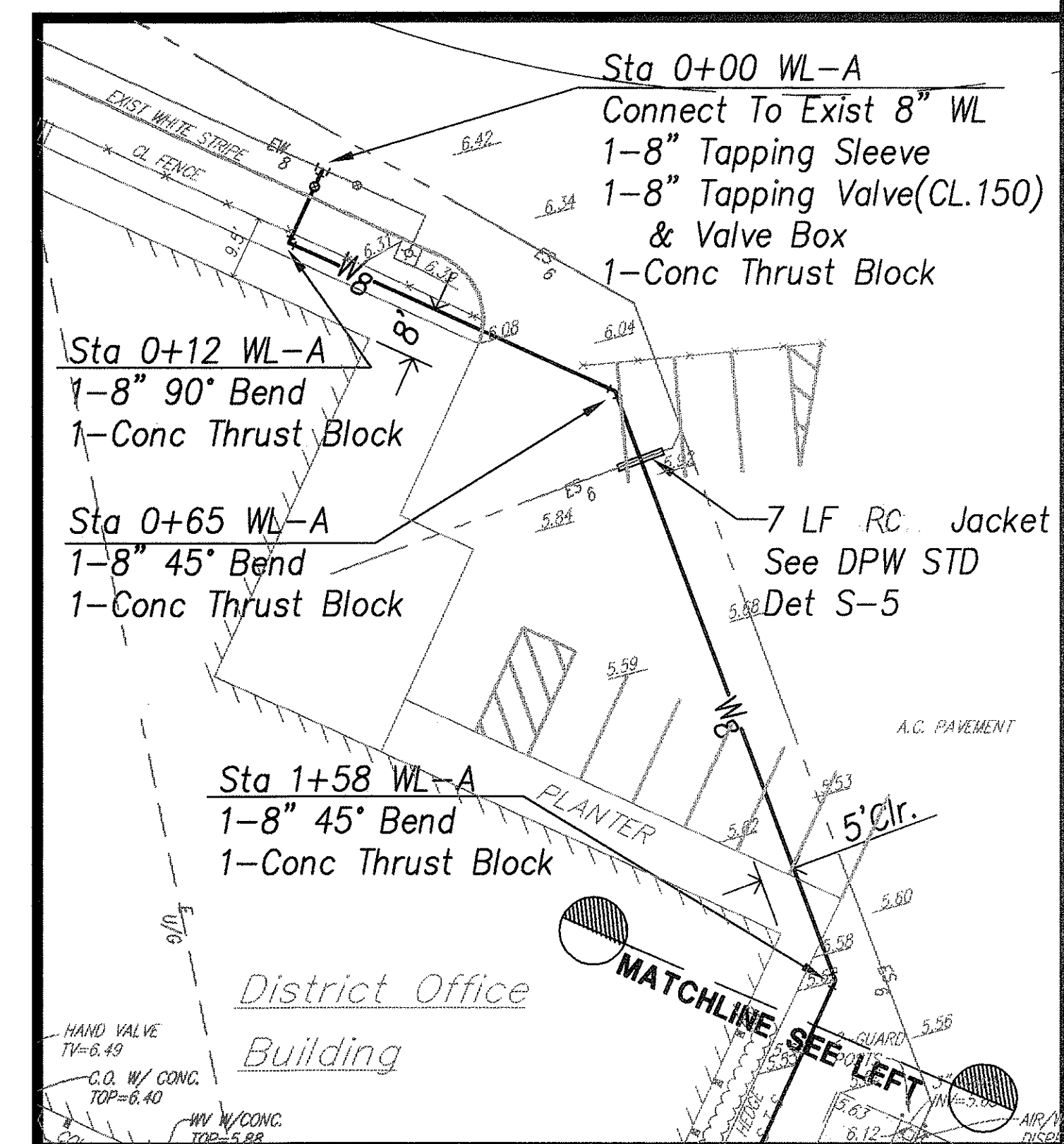
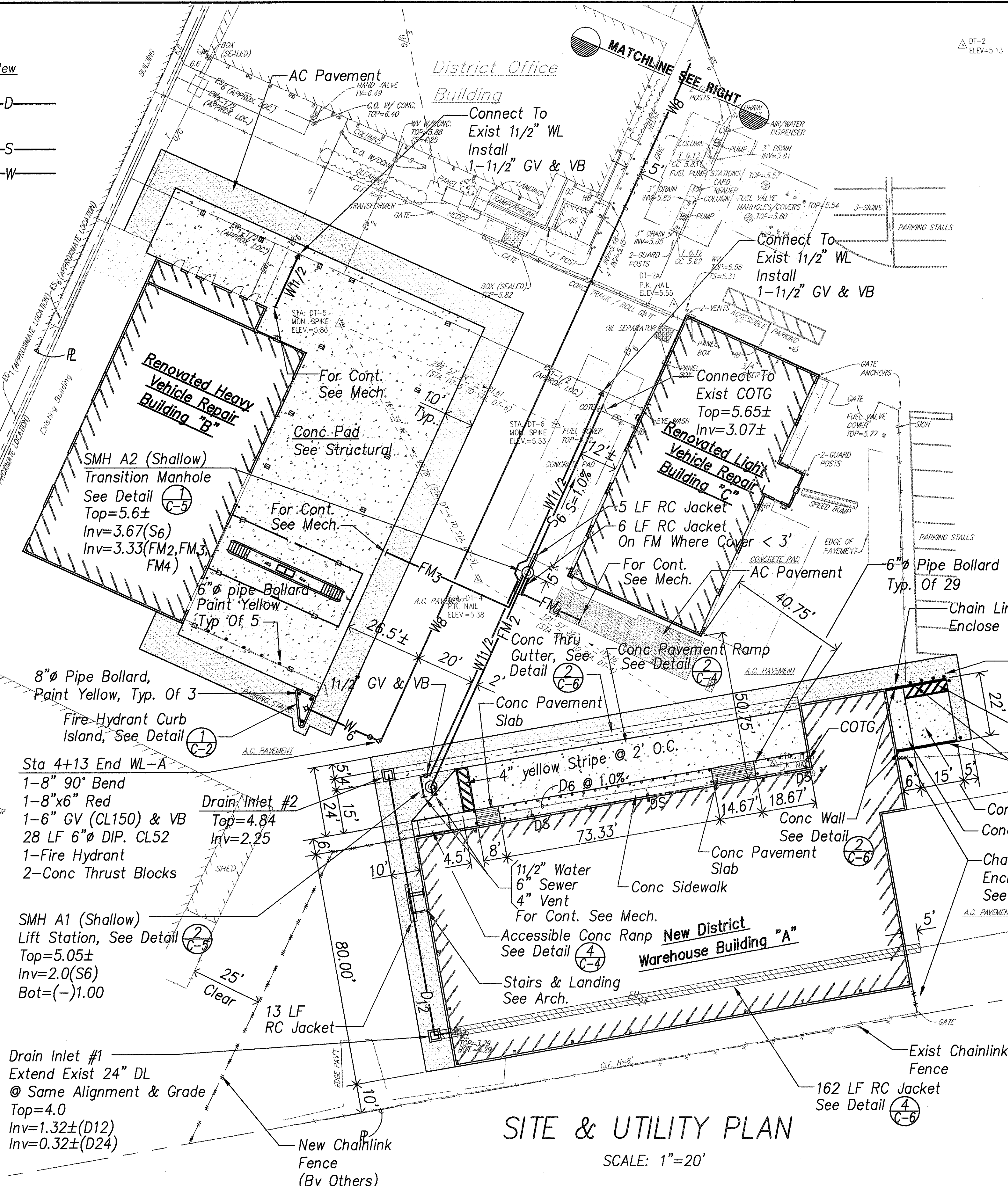
ORIGINAL SURVEY PLOTTED BY	DATE
DRAWN BY	27/00
DESIGNED BY	27/00
CHECKED BY	27/00
NO.	

DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	HWY-0-05-98	2000	ADD 5	116

Exist	Description	New
ED	Drainline	D
EG	Gasline	S
ES	Sewerline	W
EW	Waterline	

Notes:

- For Gate Valve 7 Valve Box
See BWS STD Det. 12.
- For Fire Hydrant
See BWS STD Det. 27.
- For Conc Thrust Block
See BWS STD Det. 105, 106 & 107.
- For AC Pavement See Detail 1
- For Typical Trench See Detail 3
- For Bollard See Detail 4
- Contractor Shall Tone Utility Alignments Prior To Trenching.
- For Reinforced Concrete (RC) Jacket See DPW STD Det. S-5 Unless Noted Otherwise.
- Force Main Sewer (FM) And Waterline Shall Have A Minimum Of 3' Cover.



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SIGNATURE

C-2	Rev. Note 8, FM TO BLDG "C", Add Striping @ Ramp, Note 9, Conc Jacket
June 2000	
Date	Revision
STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION	
SITE & UTILITY PLAN OAHU DISTRICT WAREHOUSE BUILDING Project No. HWY-0-05-98 Scale: AS SHOWN Date: APRIL 2000	
SHEET No. C2 OF 116 SHEETS	

ORIGINAL PLAN	DATE
DESIGNED BY	27/00
CHECKED BY	27/00
NOTED BY	27/00
NO.	

SITE & UTILITY PLAN

SCALE: 1"=20'

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	HWY-0-05-98	2000	6	116

WATER NOTES FOR PROJECTS WITH NEW ON-SITE FIRE HYDRANTS
OFF EXISTING METER ONLY

1. Unless otherwise specified, all materials and construction of water system facilities and appurtenances shall be in accordance with the City and County of Honolulu Board of Water Supply's "WATER SYSTEM STANDARDS" VOLUME 1, DATED 1985, THE "APPROVED MATERIAL LIST AND STANDARD DETAILS FOR WATER SYSTEM CONSTRUCTION" VOLUME 2, DATED 1985, THE "WATER SYSTEM EXTERNAL CORROSION CONTROL STANDARDS", VOLUME 3, DATED 1991, and all subsequent amendments and additions.

2. All plans approved by the Board of Water Supply are based solely on the adequacy of the water supply. All other features of the water system, such as lines, grades, fittings, drainage, etc., and other features of improvements shall not be the responsibility of the Board of Water Supply.

3. The existence and location of underground utilities and structures as shown on the plans are from the latest available data but is not guaranteed as to the accuracy or the encountering of other obstacles during the course of the work. The Contractor shall be responsible and pay for all damages to existing utilities. The Contractor shall not assume that where no utilities are shown, that none exist.

4. The Contractor shall be responsible for the protection of all water lines during construction. The Contractor shall be especially careful when excavating behind water lines, tees, and bends wherever there is a possibility of water line movement due to the removal of the supporting earth beyond the existing reaction blocks. The Contractor shall take whatever measure necessary to protect the water lines, such as constructing special reaction blocks (with BWS approval) and/or modify his construction method.

5. Re-approval shall be required if this project is not under construction within a period of two years.

6. The Contractor shall notify BWS Planning and Engineering Division, Construction Section in writing one week prior to commencing work on the water system.

7. Board of Water Supply approval of these plans does not constitute a water commitment. Availability of water will be determined when building permit is presented to the Department. Water commitment will depend upon the status of the water system at that time. Should water service be made available, the water commitment will be effective when the project receives an approved building permit from the Building Department. All water commitments will be cancelled in the event the building permit is cancelled.

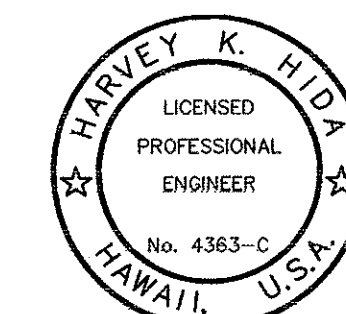
8. The installation, chlorination, and testing of the water main and facilities after the meter shall not be the responsibility of the Board of Water Supply.

9. The project shall be subject to the Board of Water Supply's Cross-Connection Control requirements prior to issuance of the Building Permit.

(*) Before final inspection is made, the contractor in the presence of the consulting engineer, will flow test the most critical hydrants (hydrants with the least flow expected). The consulting engineer will furnish to the Honolulu Fire Department (with a copy to the Board of Water Supply, Construction Section) the following data: static and residual pressures in psi., pitot and flow in gpm, general layout drawing showing location of hydrants; and manufacturer of hydrants.

C-3

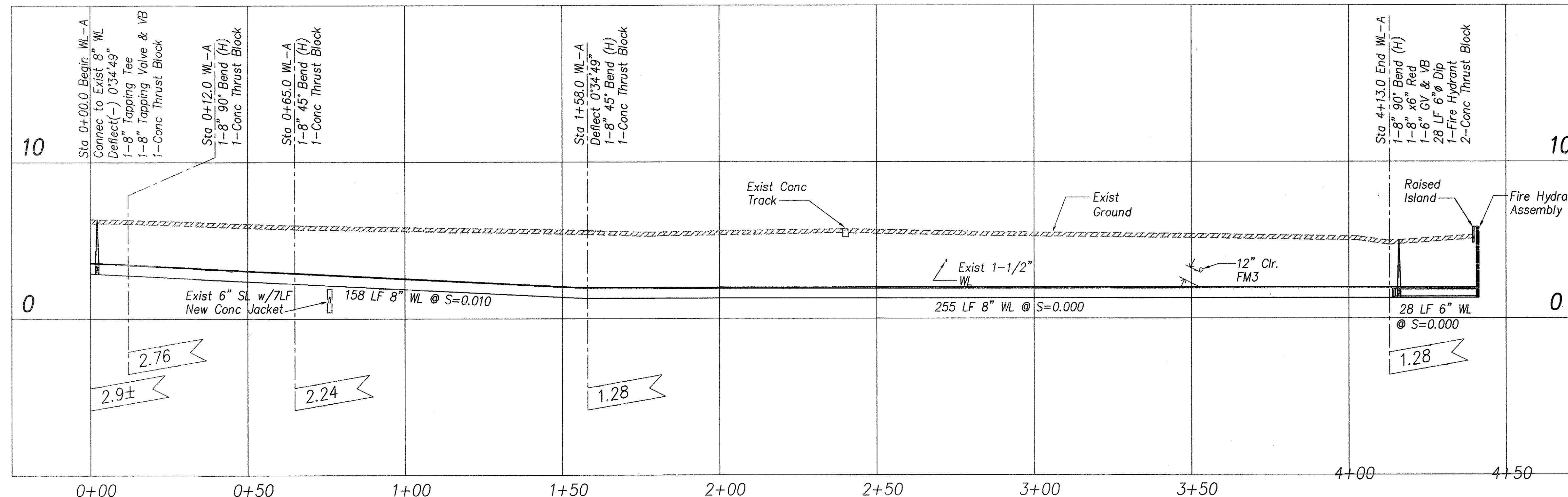
7/17/2000	PCD 1	Add BWS Notes
June 2000		Rev. Sewer & Drain Profile
Date		Revision
STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION		
PROFILES		
OAHU DISTRICT WAREHOUSE BUILDING		
Project No. HWY-0-05-98		
Scale: AS SHOWN		Date: APRIL 2000
SHEET No. C3 OF 116 SHEETS		



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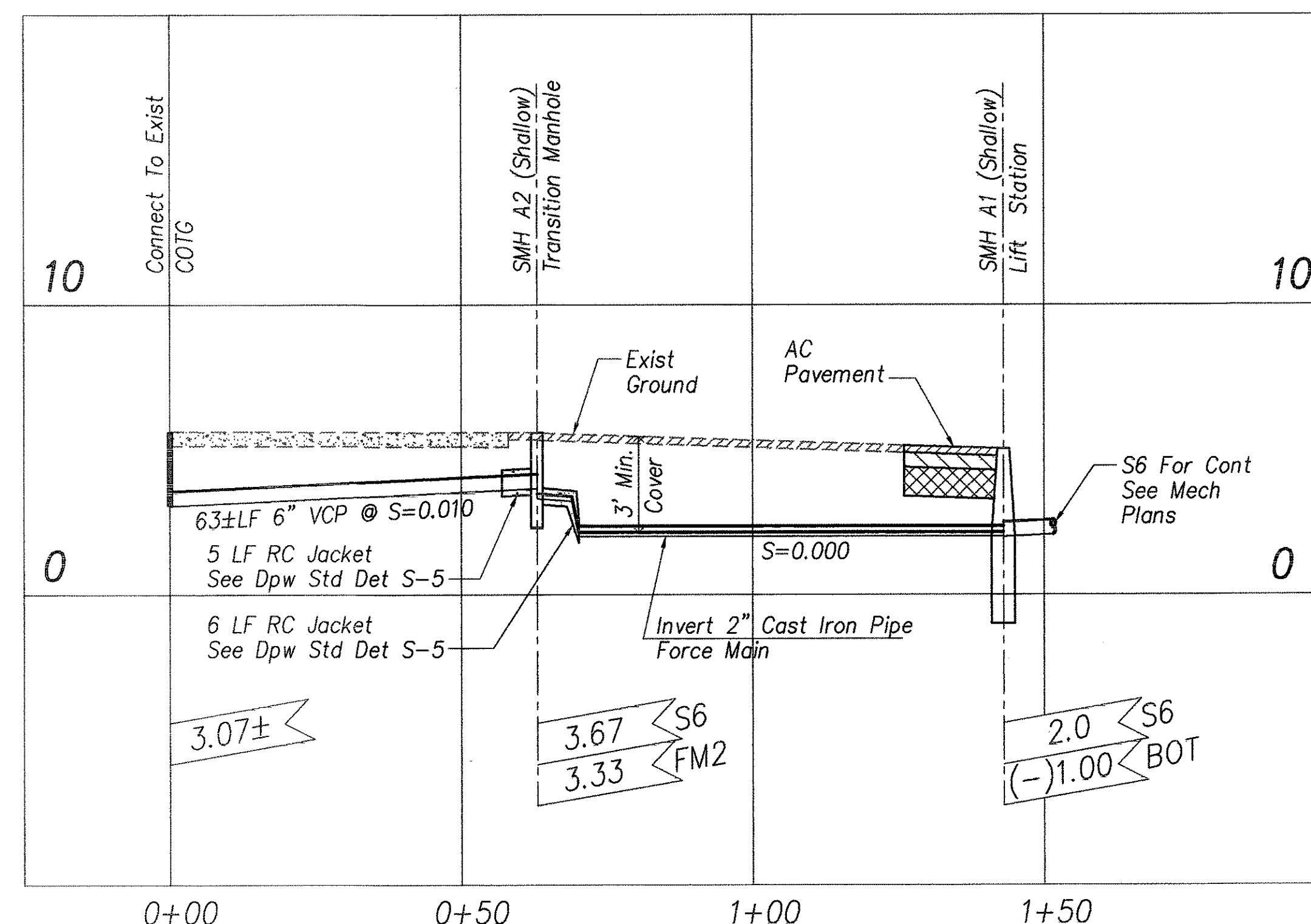
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DATE

Approved:
Catherine R. Dunga 8/8/00
for Chief, Planning & Engineering, B.W.S.



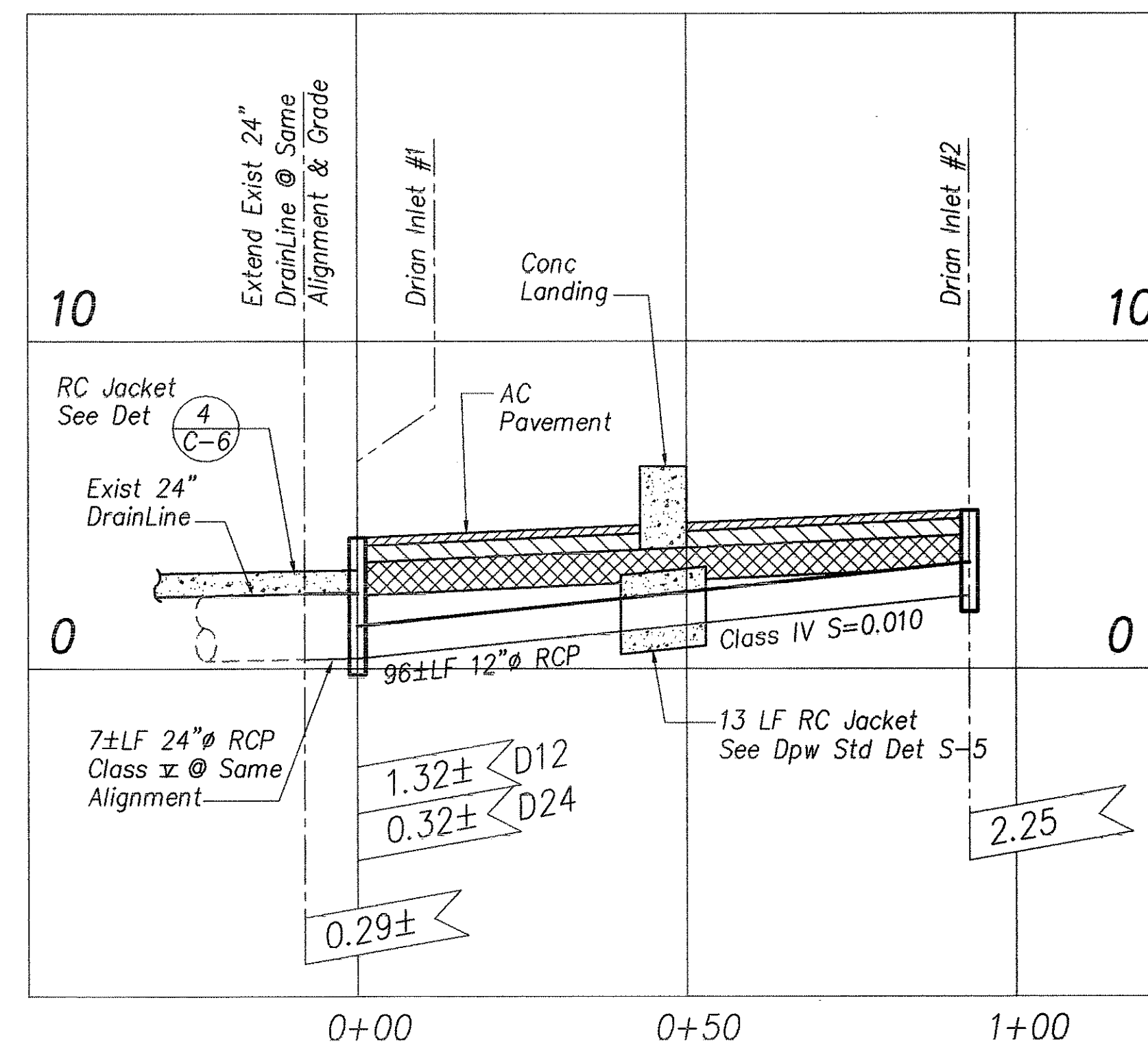
WATERLINE "A"

Scales: Horiz 1"=20'
Vert 1"=4'



SEWERLINE

Scales: Horiz 1"=20'
Vert 1"=4'

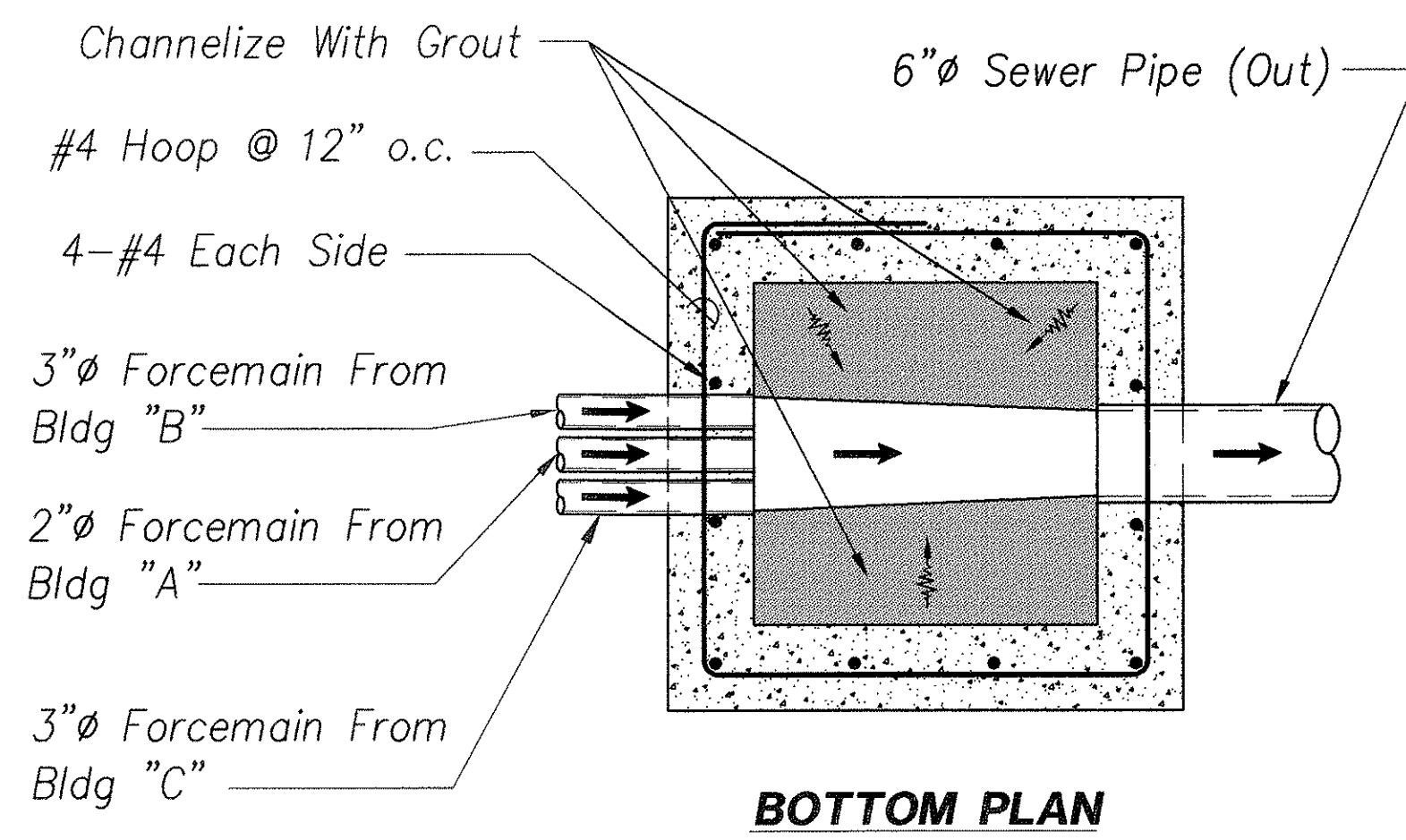


DRAINLINE

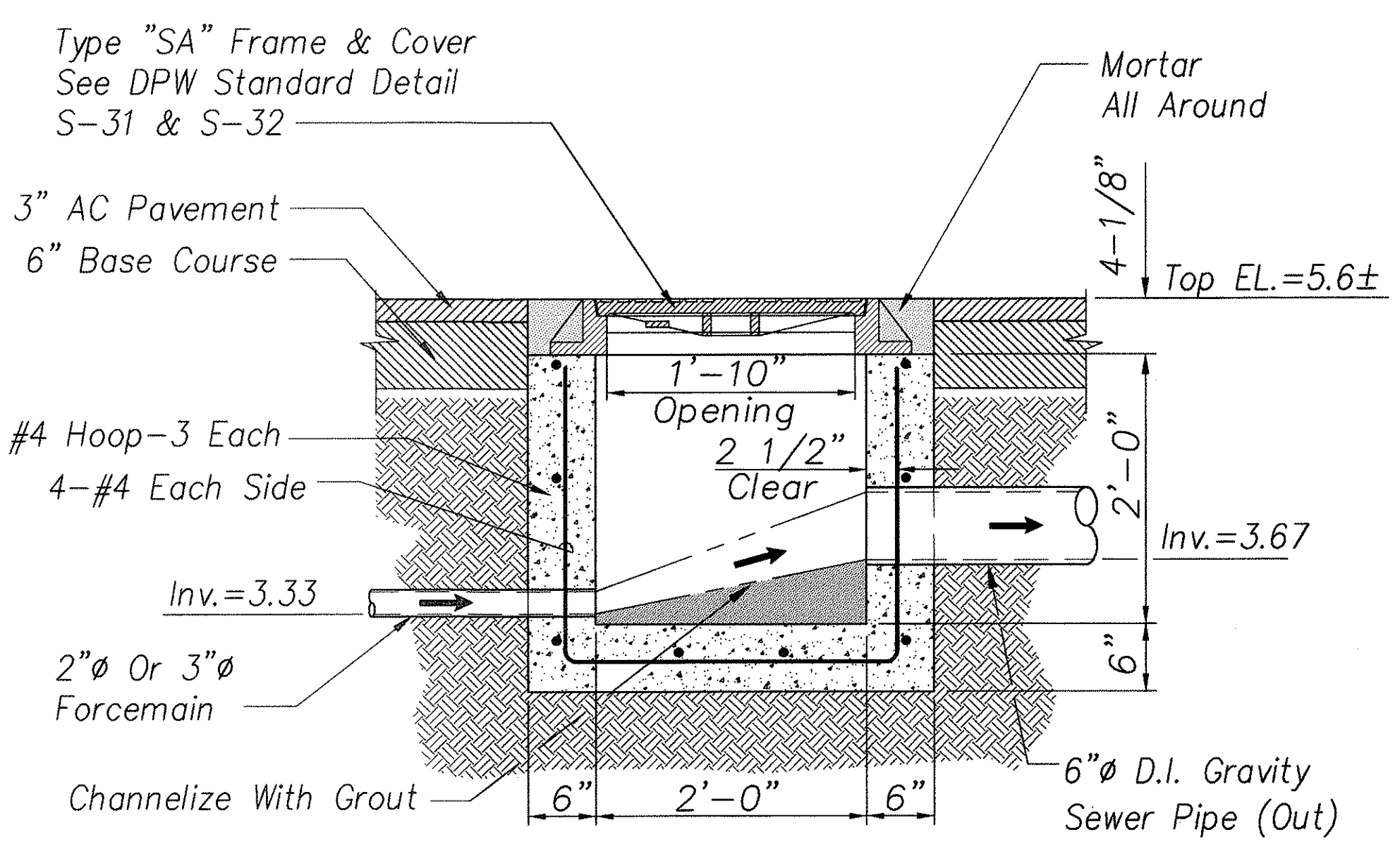
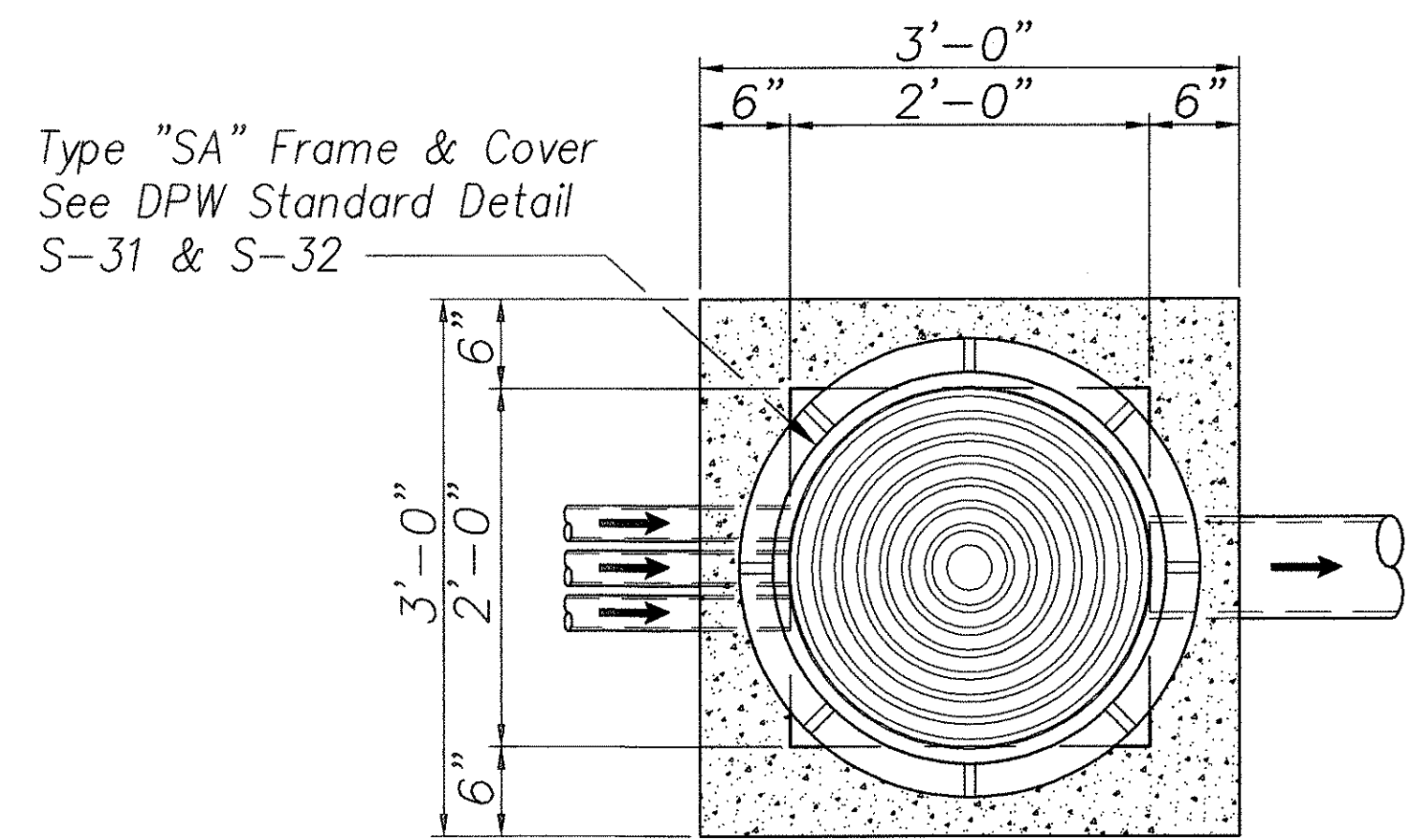
Scales: Horiz 1"=20'
Vert 1"=4'

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

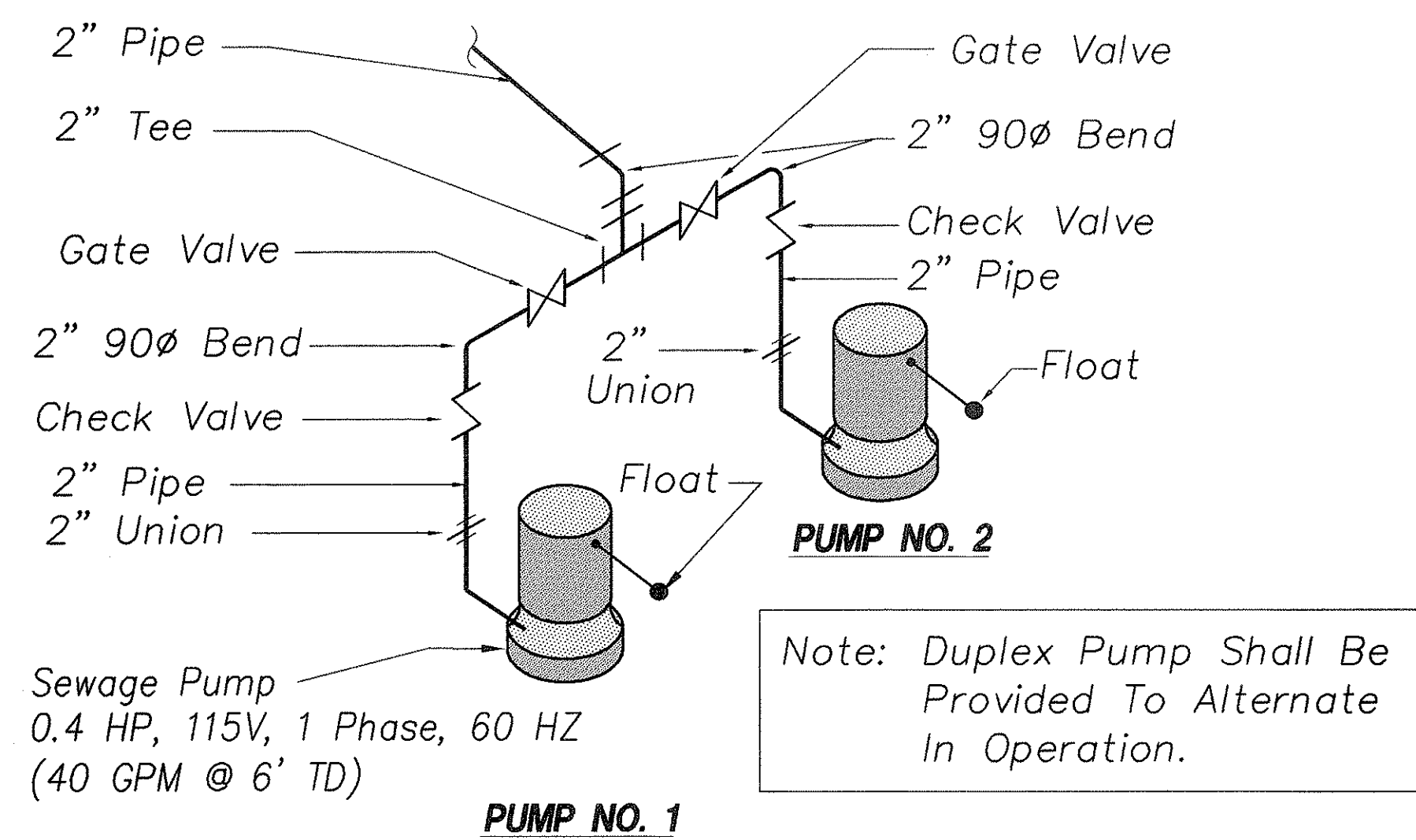
FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	HWY-0-05-98	2000	ADD8	116



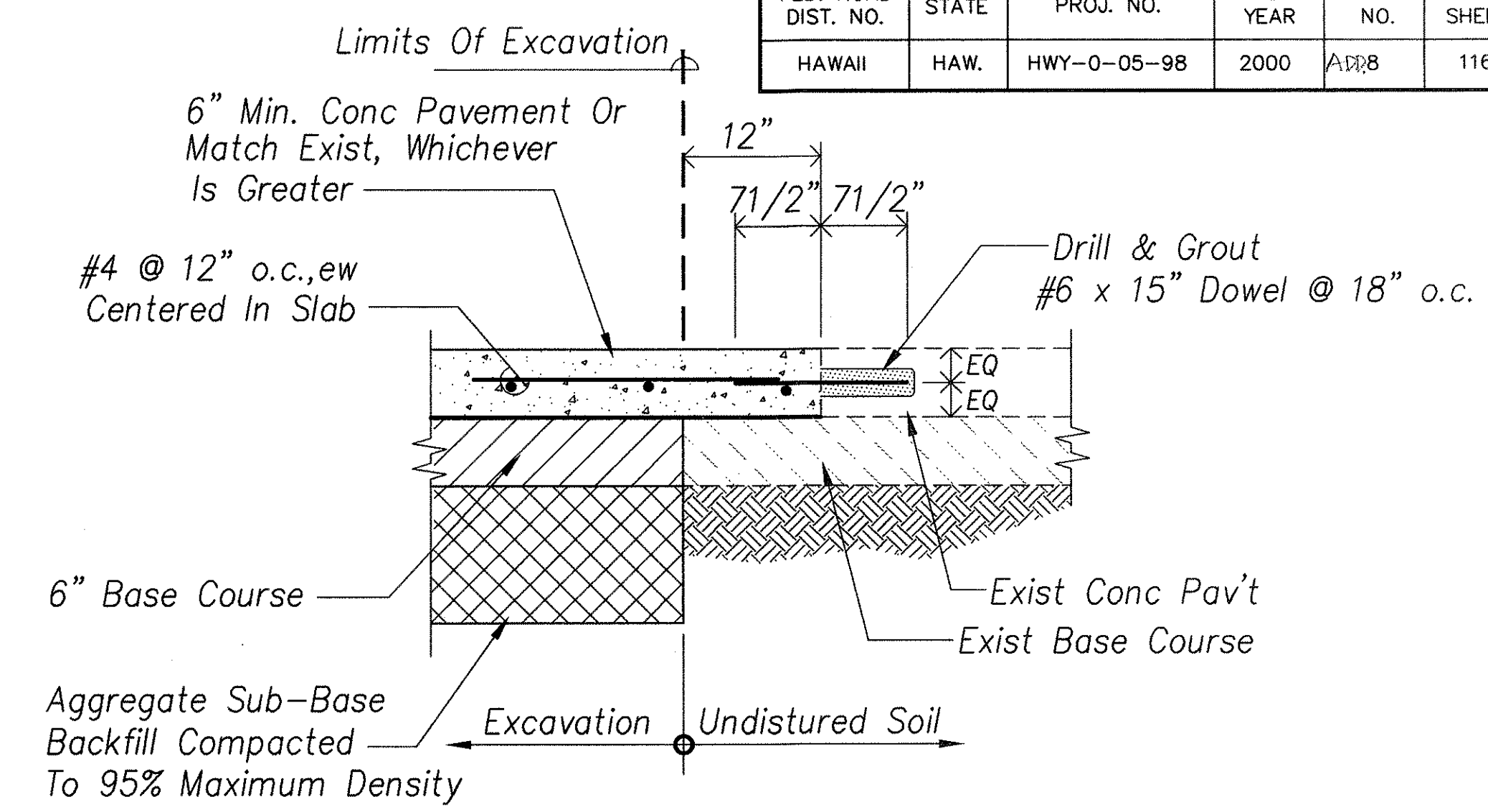
NOTE:
Steel Reinforced Shall Clear Pipe Penetrations By 2" Min.



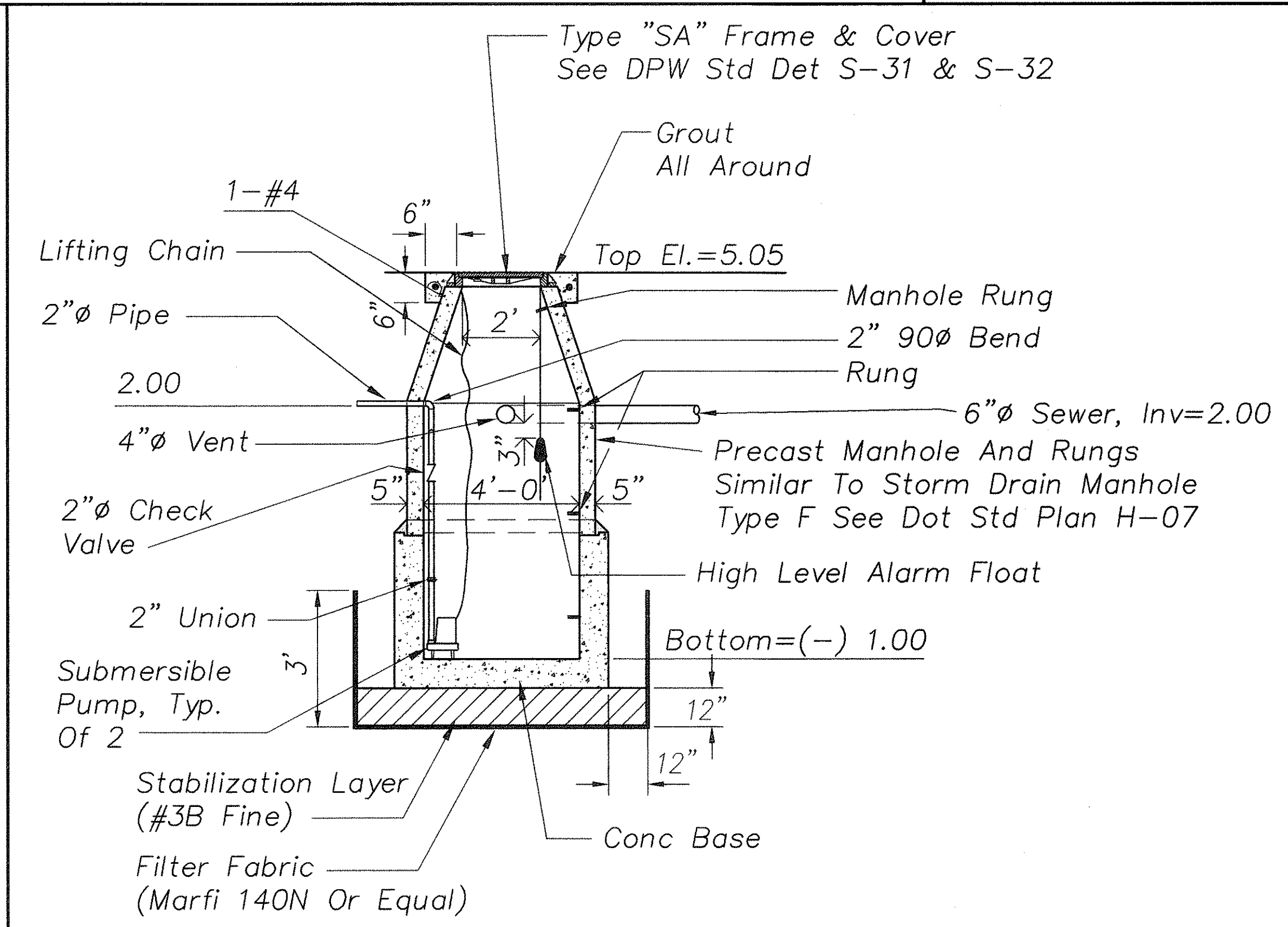
1 **TRANSITION SEWER MANHOLE (SMH A2)**
C-5 SCALE: 1"=1'-0"



PUMP SYSTEM ISOMETRIC
No Scale

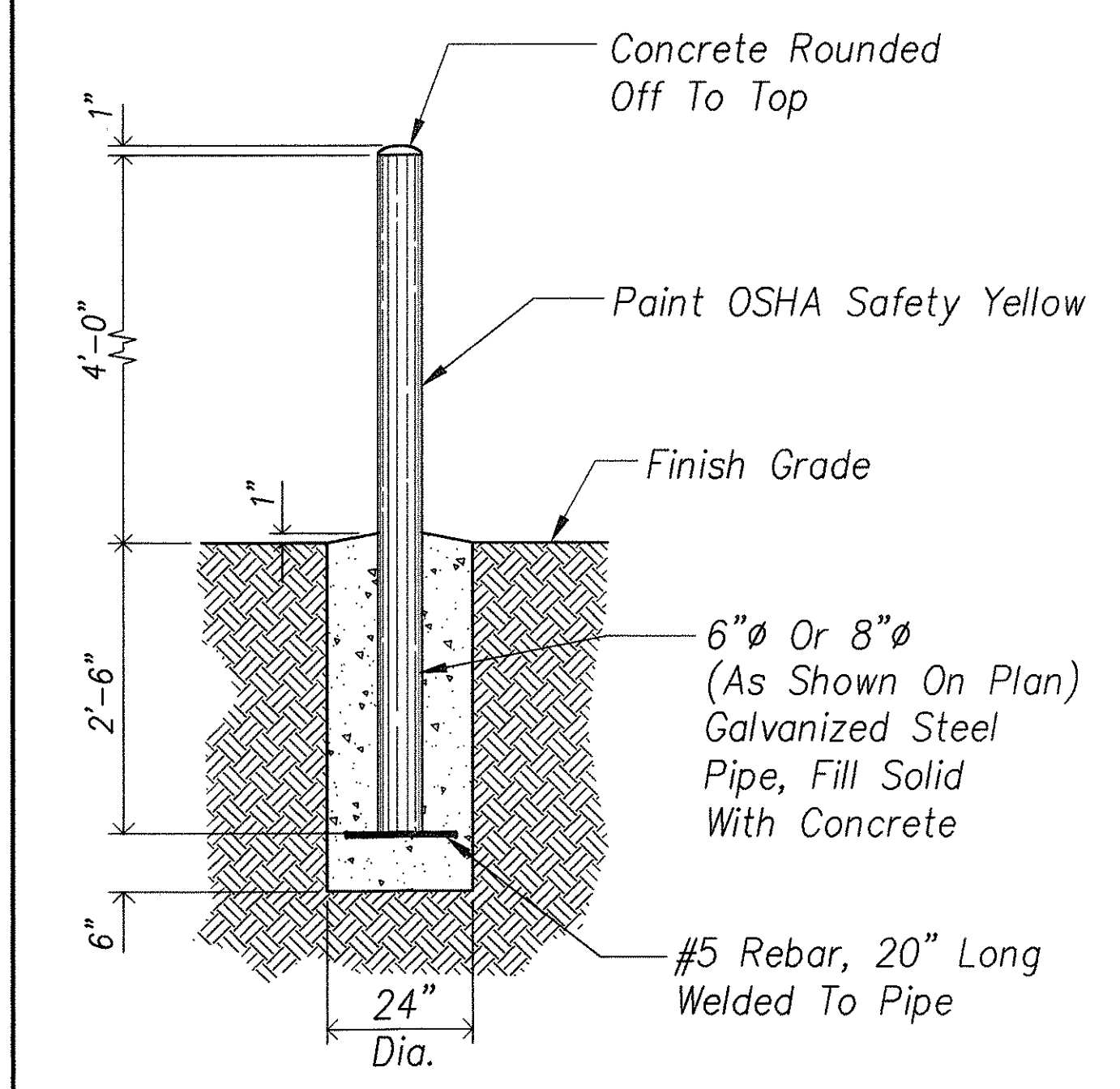


3 **CONC PAVEMENT RESTORATION**
C-5 Scale: 1"=1'-0"

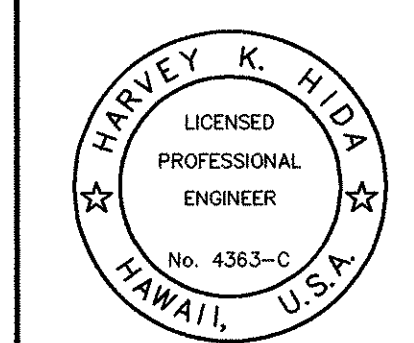


Notes: 1. See Pump System Isometric Above.
2. See Electrical Plan For Pump Controller Installation.
3. Coat Interior And Exterior surfaces With Waterproof Epoxy

2 **PUMP LIFT STATION (PRIVATE)**
C-5 No Scale



4 **BOLLARD**
C-5 Scale: 3/4"=1'-0"

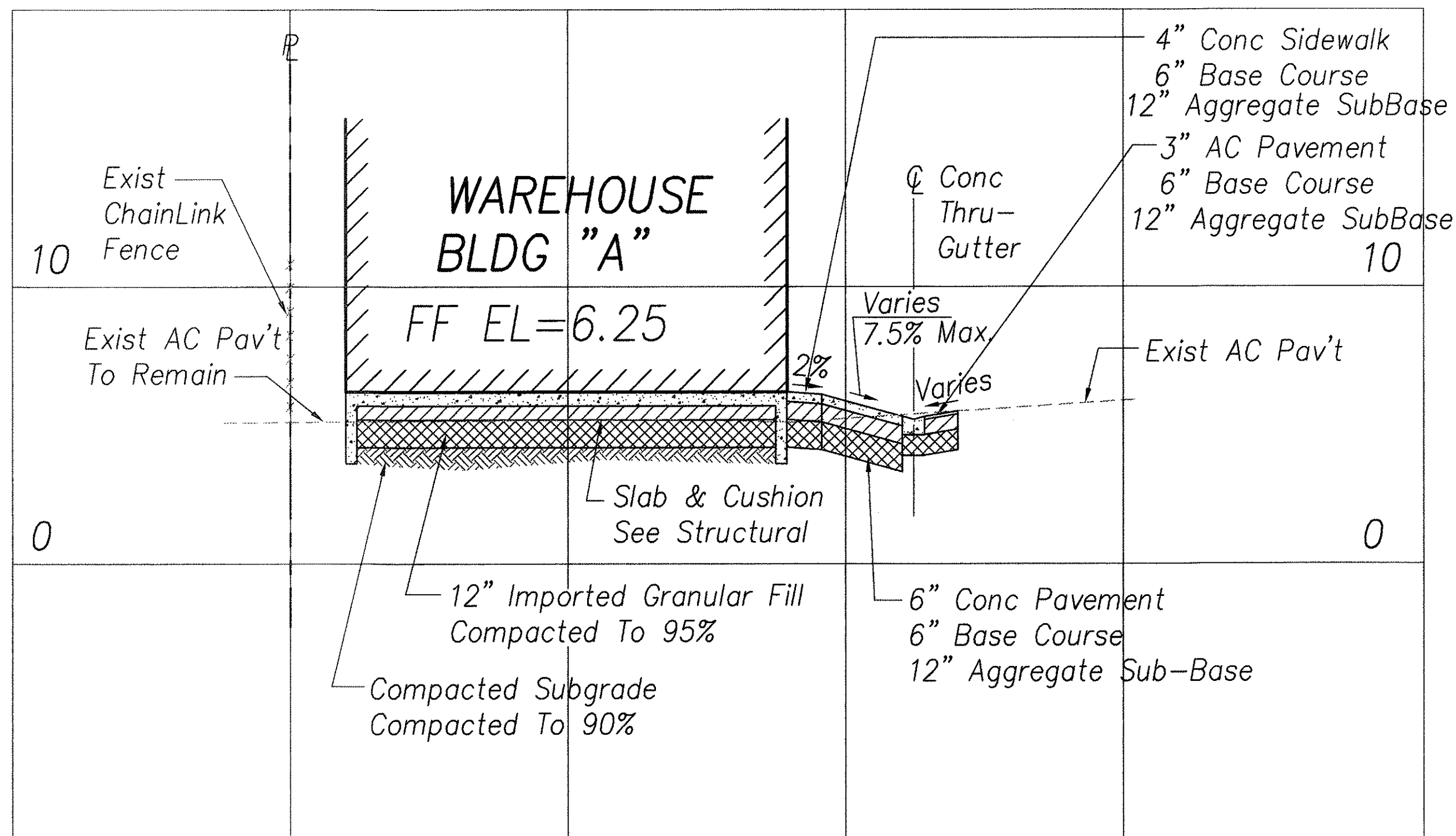


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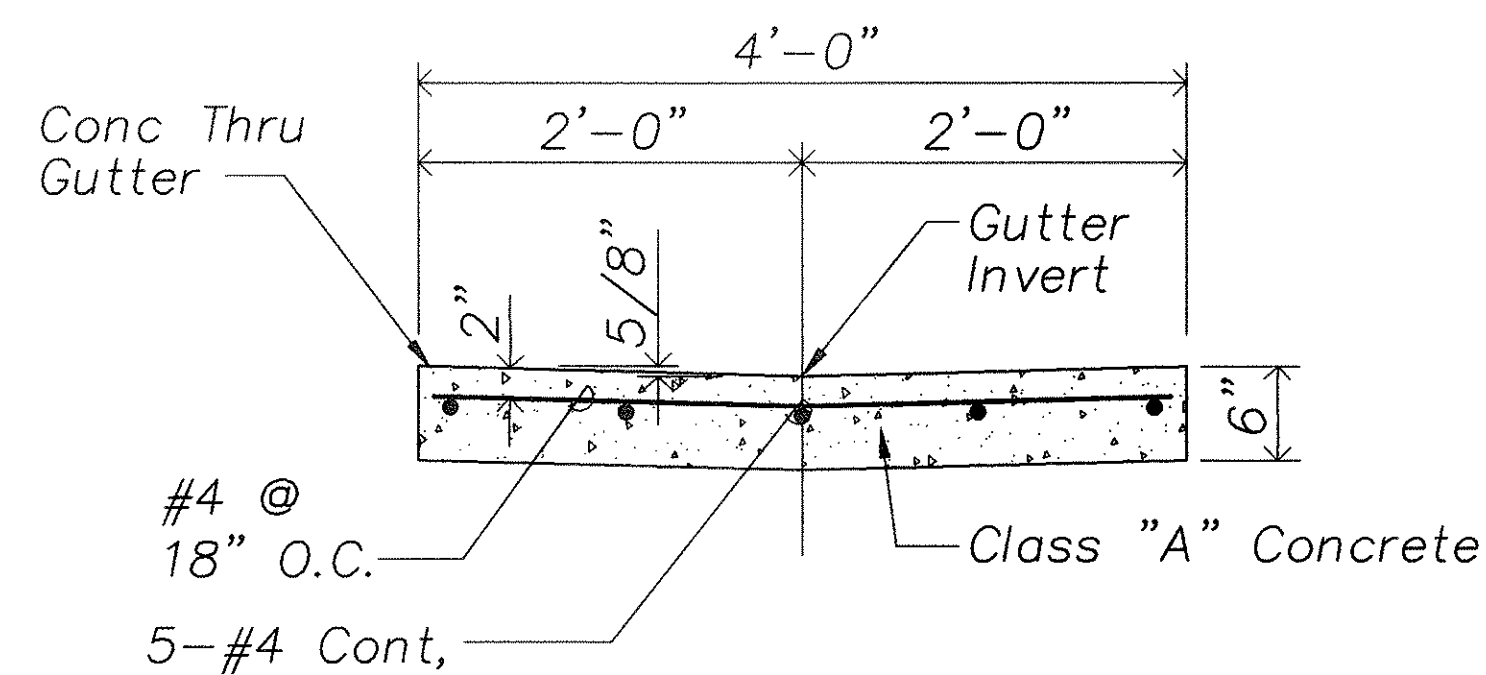
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SIGNATURE

June 2000	Rev. Conc Pav't Restoration & Pump Lift Station
Date	Revision
STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION	
DETAILS	
OAHU DISTRICT WAREHOUSE BUILDING	
Project No. HWY-0-05-98	
Scale: AS SHOWN	Date: APRIL 2000
SHEET No. C5 OF 116 SHEETS	

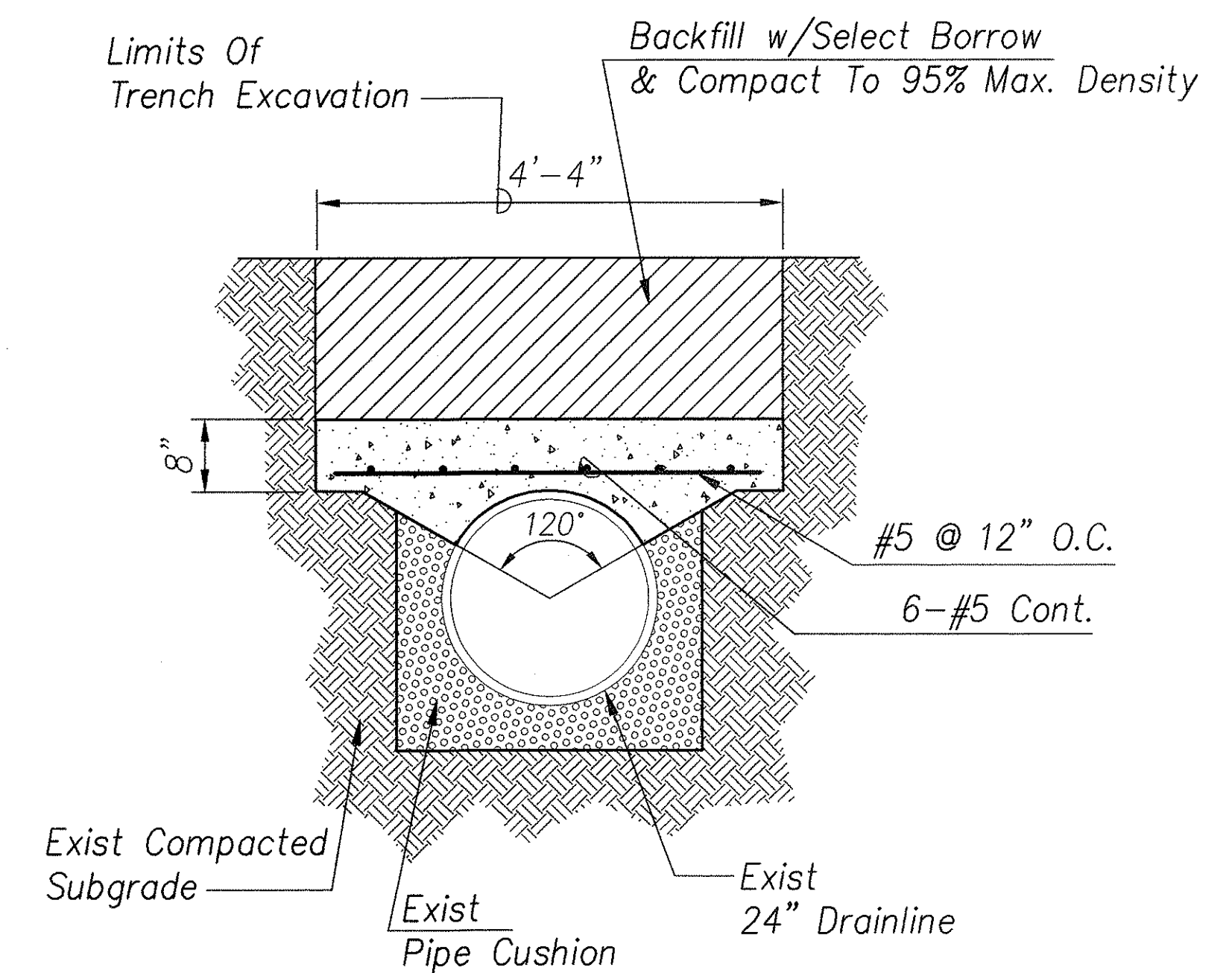
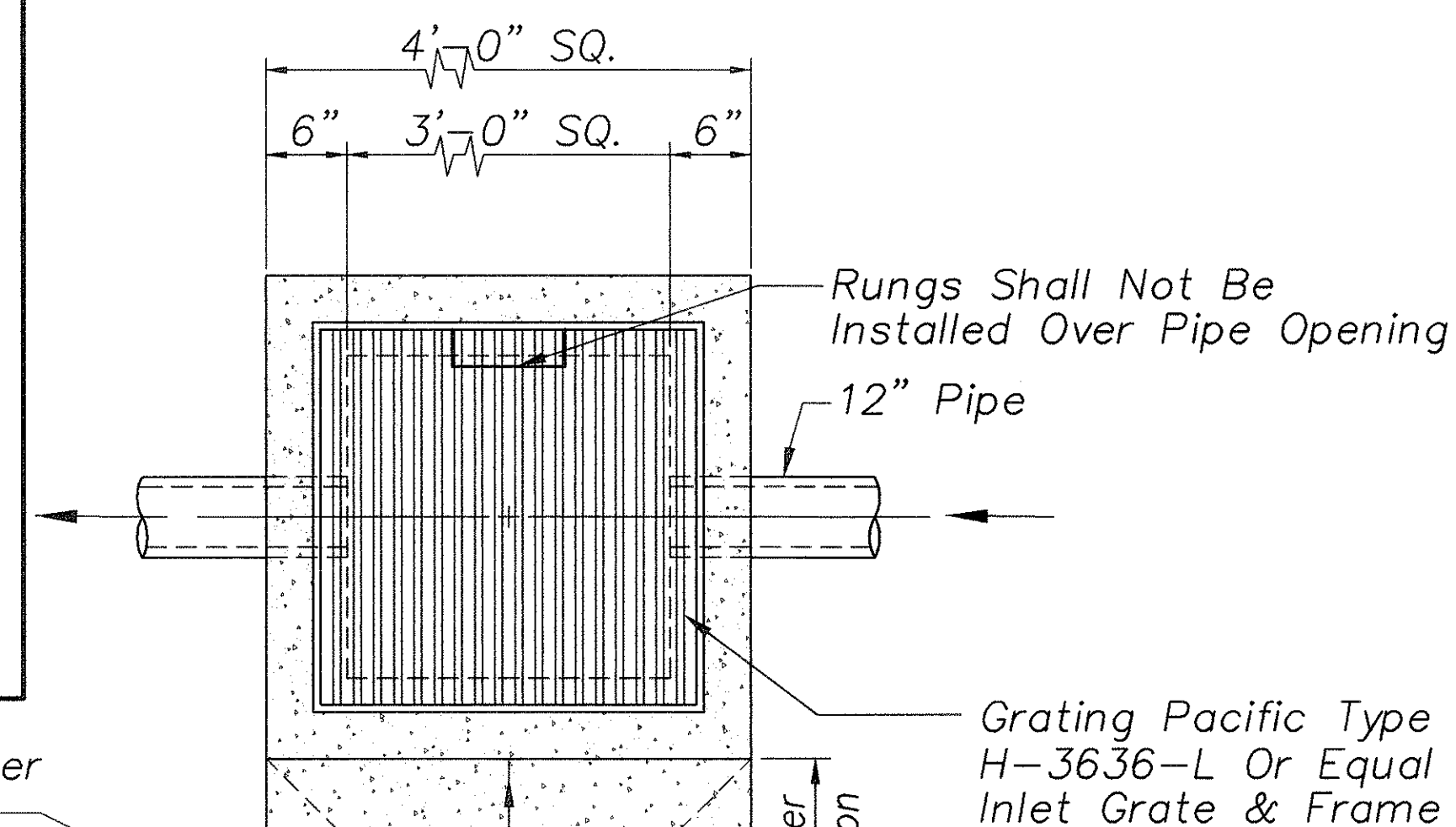
FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	HWY-0-05-98	2000	ADD. 9	116



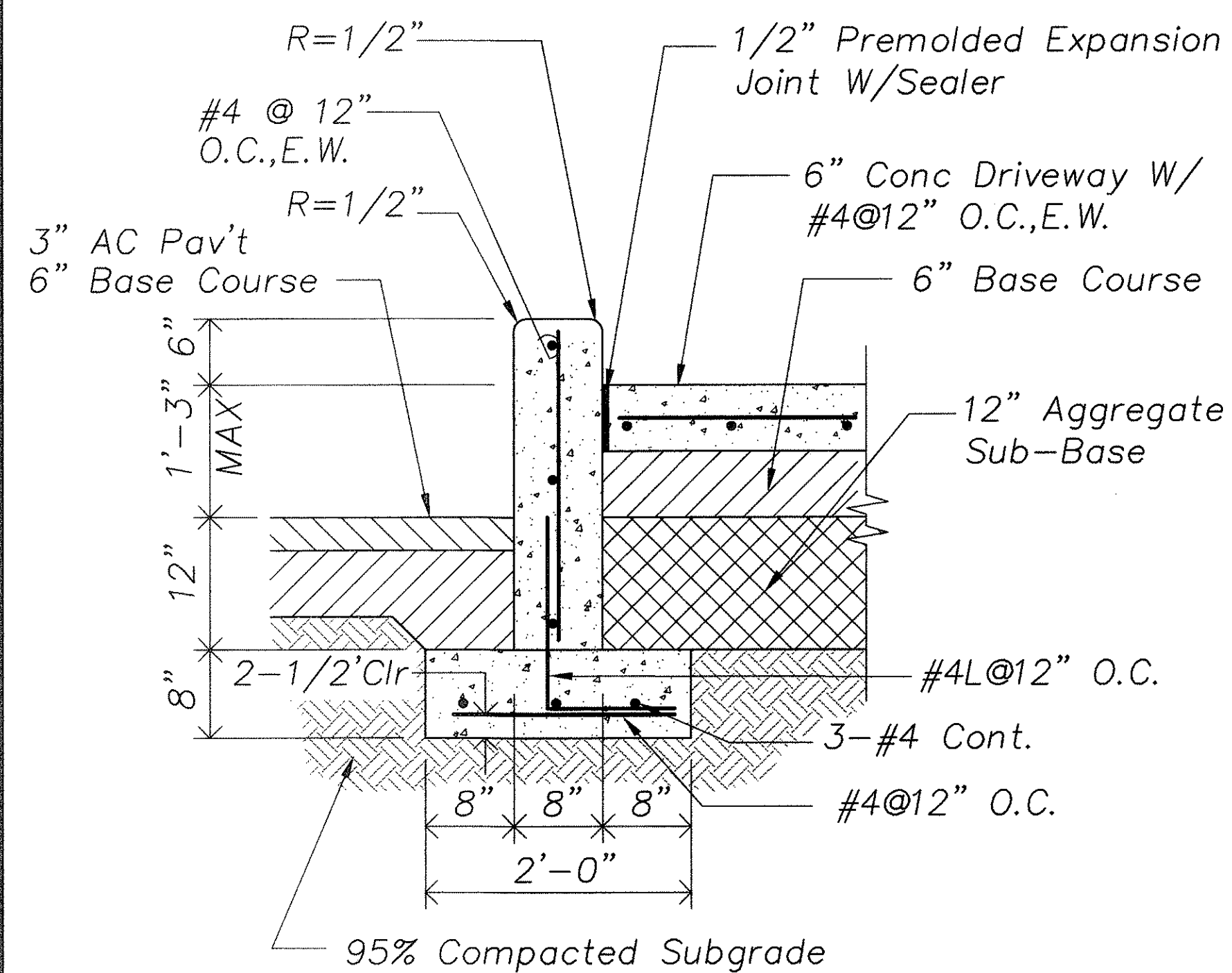
SECTION A-A
Scales: Horiz 1"=20'
Vert 1"=4'



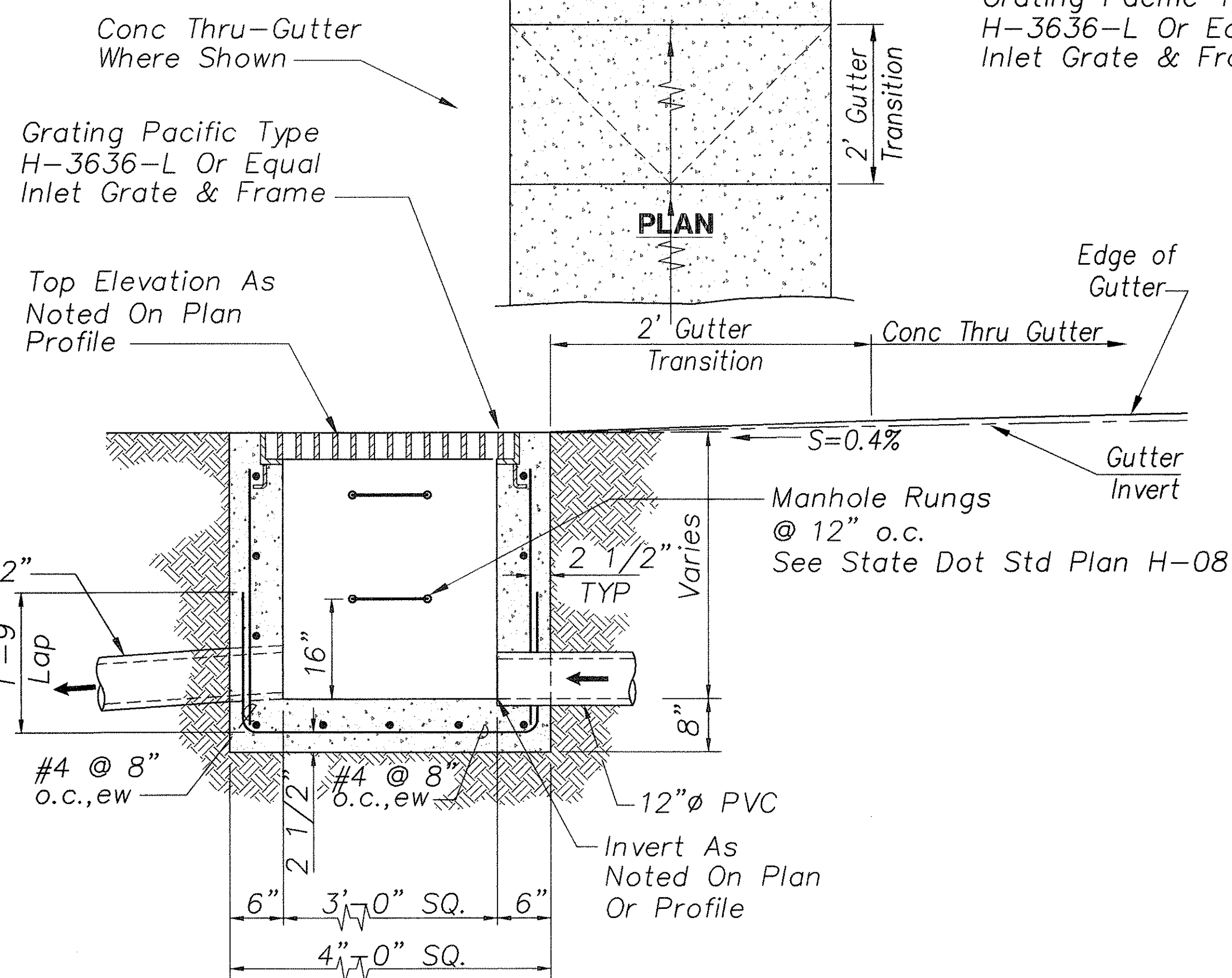
2 CONCRETE THRU GUTTER
SCALE: 1"=1'-0"



4 CONCRETE JACKET FOR 24"Ø DRAIN LINE
SCALE: 3/4"=1'-0"

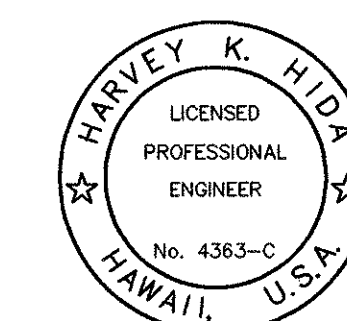


1 CONC WALL
SCALE: 1"=1'-0"



3 DRAIN INLET
NO SCALE

ORIGINAL PLAN	DATE
SURVEY PLOTTED BY	
DRAWN BY	
DESIGNED BY	
QUANTITIES BY	
CHECKED BY	
NO.	

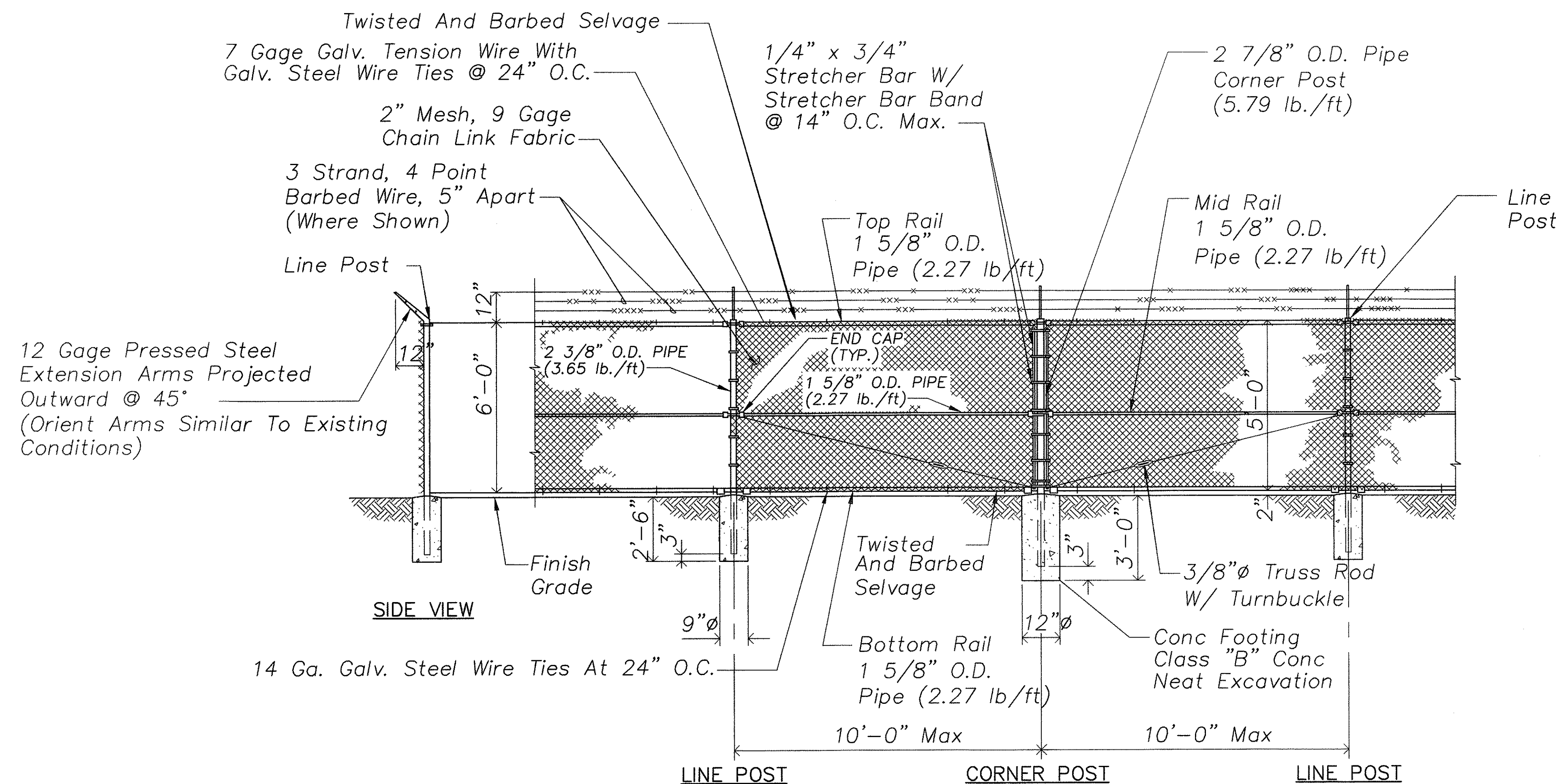


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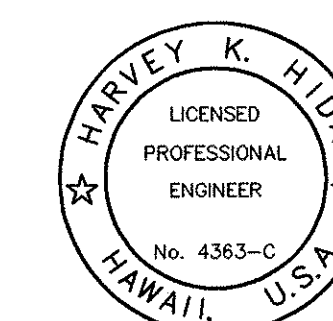
C-6	Rev. Conc Wall, Conc Thrust Gutter, Conc Jacket & Drain Inlet Details
June 2000	
Date	Revision
STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION	
DETAILS	
OAHU DISTRICT WAREHOUSE BUILDING	
Project No. HWY-0-05-98	
Scale: AS SHOWN	Date: APRIL 2000
SHEET No. C6 OF 116 SHEETS	

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	HWY-0-05-98	2000	ADD.9A	116



1
C-7 CHAINLINK FENCE W/BARBED WIRE
NO SCALE

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



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C-7	Rev. Added sheet, w/Barbed Wire Detail
June 2000	
Date	Revision
STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION	
DETAILS	
OAHU DISTRICT WAREHOUSE BUILDING	
Project No. HWY-0-05-98	
Scale: AS SHOWN	Date: APRIL 2000
SHEET No. C7 OF 116 SHEETS	

ADD.9A