

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	19H-02-93	1994	6R	10

# GENERAL STRUCTURAL NOTES

## DESIGN SPECIFICATIONS:

AASHTO Standard Specifications for Highway Bridges (15th edition) 1992 with subsequent Interim Specifications.

## DESIGN LIVE LOAD:

85 psf.

## ALLOWABLE DESIGN STRESSES:

- Reinforced concrete:  $f_c = 0.40 f'_c$
- Reinforcing steel:  $f_s = 20,000$  psi  
for Grade 40: 24,000 psi  
for Grade 60.

## SEISMIC DESIGN:

Seismic performance category C: A = 0.30

## MATERIALS:

- Reinforced concrete: Class A
- Reinforcing steel: ASTM A 615, Grade 40  
unless otherwise specified.
- Admixture in concrete: See special provisions.
- All expansion and premolded joint filler shall be incidental to concrete and will not be paid for separately.
- Prestressed concrete: See Sht. No. S5.
- Pipe railing: See Sht. No. S6.

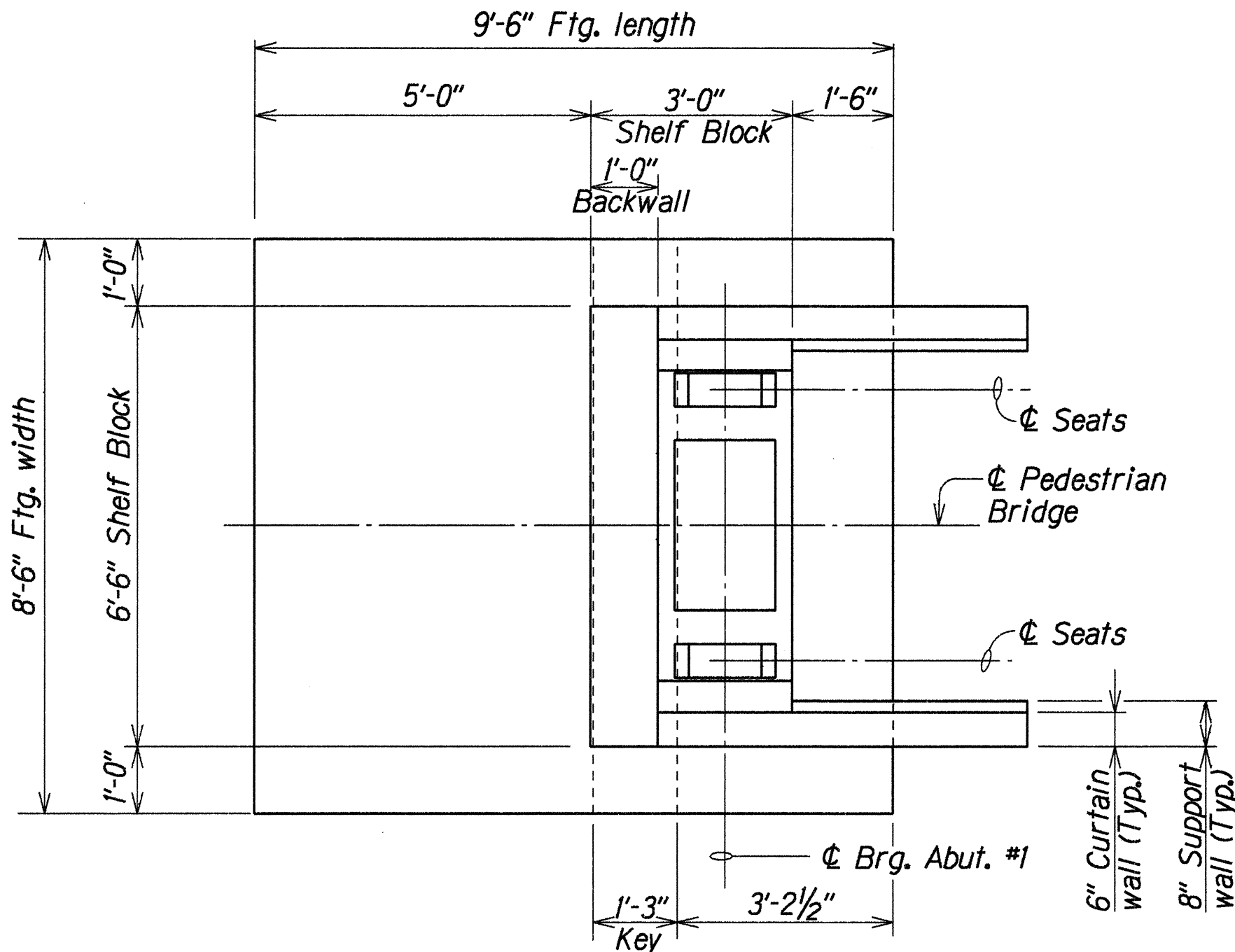
## CONSTRUCTION METHODS:

- Refer to Standard Specifications for Road and Bridge Construction, 1985 Edition and Special Provisions.
- Except as noted otherwise, all vertical dimensions are measured plumb.
- Welding - See Bridge Welding code as amended - ANSI/AASHTO/AWS D1.5-88

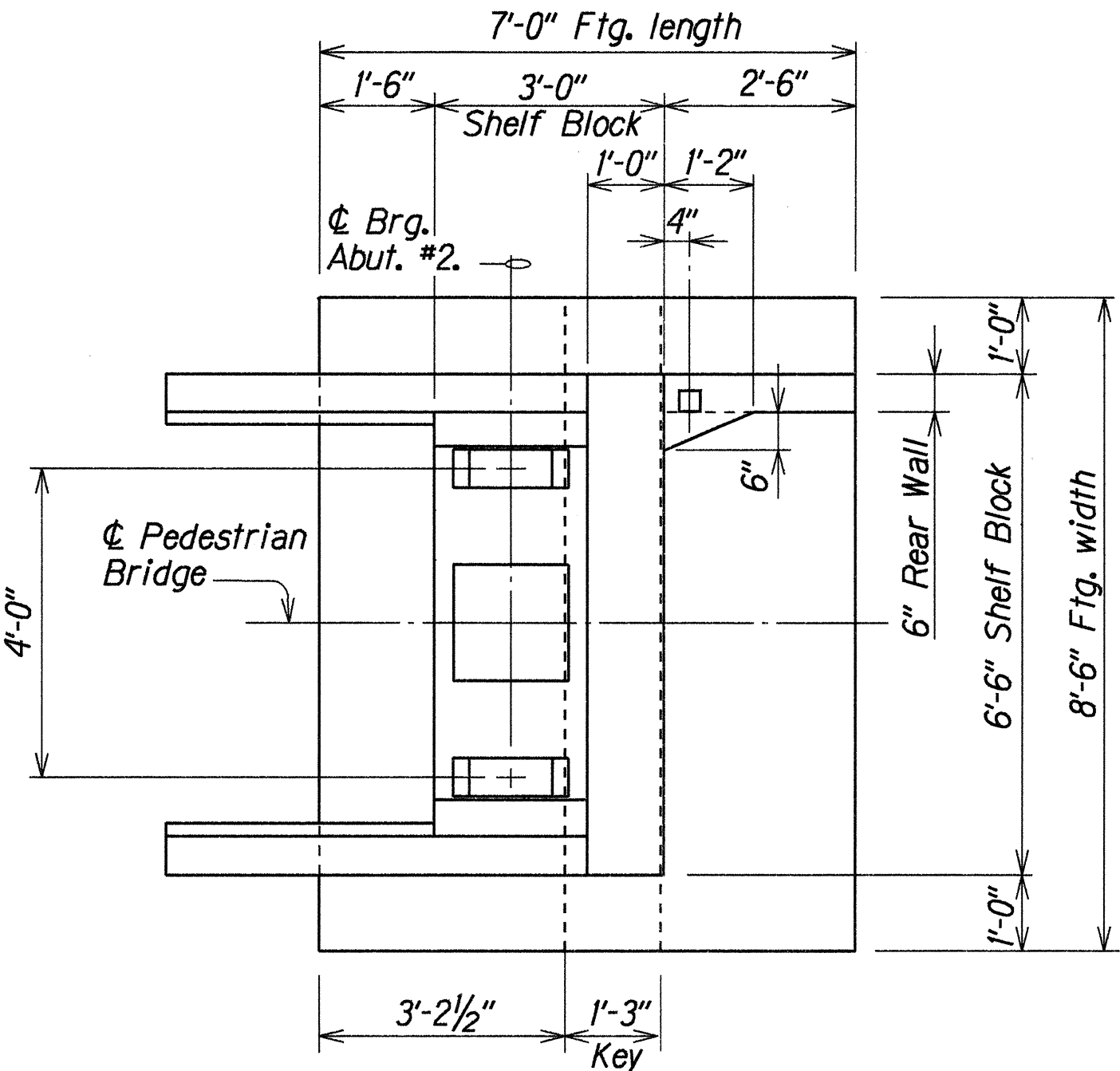
## GENERAL NOTES:

- All items noted incidental will not be paid for separately.
- The Contractor shall verify the locations of all existing utility lines and notify their respective owners before commencing with any work.
- The Contractor shall verify all grades and dimensions in the field before commencing with any work.
- The Contractor shall be solely responsible for the protection of adjacent property, utilities and existing and new structures from damage due to construction and repair any damage at his own expense, to the satisfaction of the Engineer. He shall conduct his work in such a manner and provide such temporary shoring or other measures as may be necessary to insure the safety of all concerned.
- Excavation for all footings shall be accomplished by maintaining as near a vertical cut as possible.
- In the event of over-excavation, the space between the footing and ground shall be filled with a minimum of Class D concrete at the Contractor's expense and as directed by the Engineer.

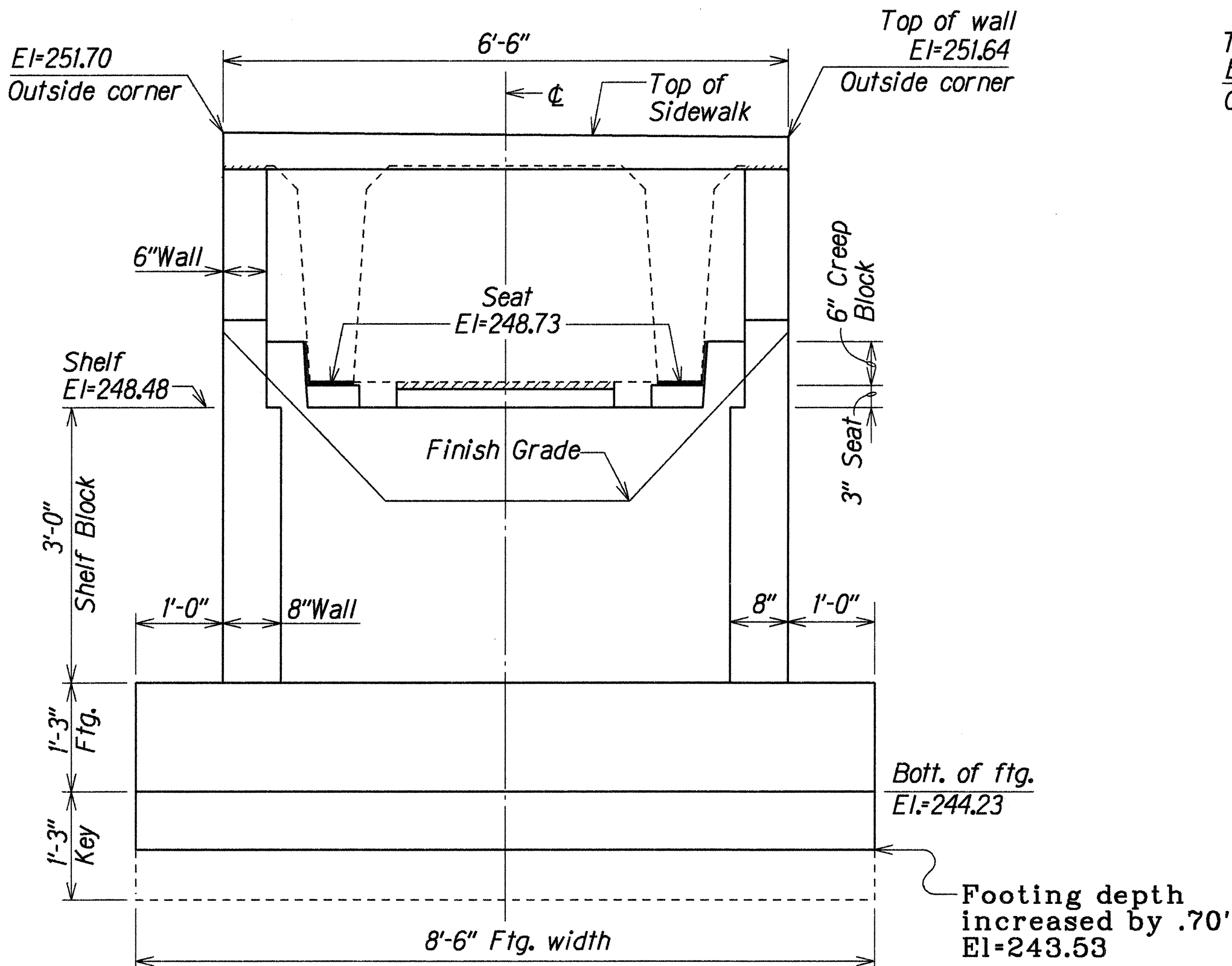
7. Cross slope on deck is 0.83%.



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



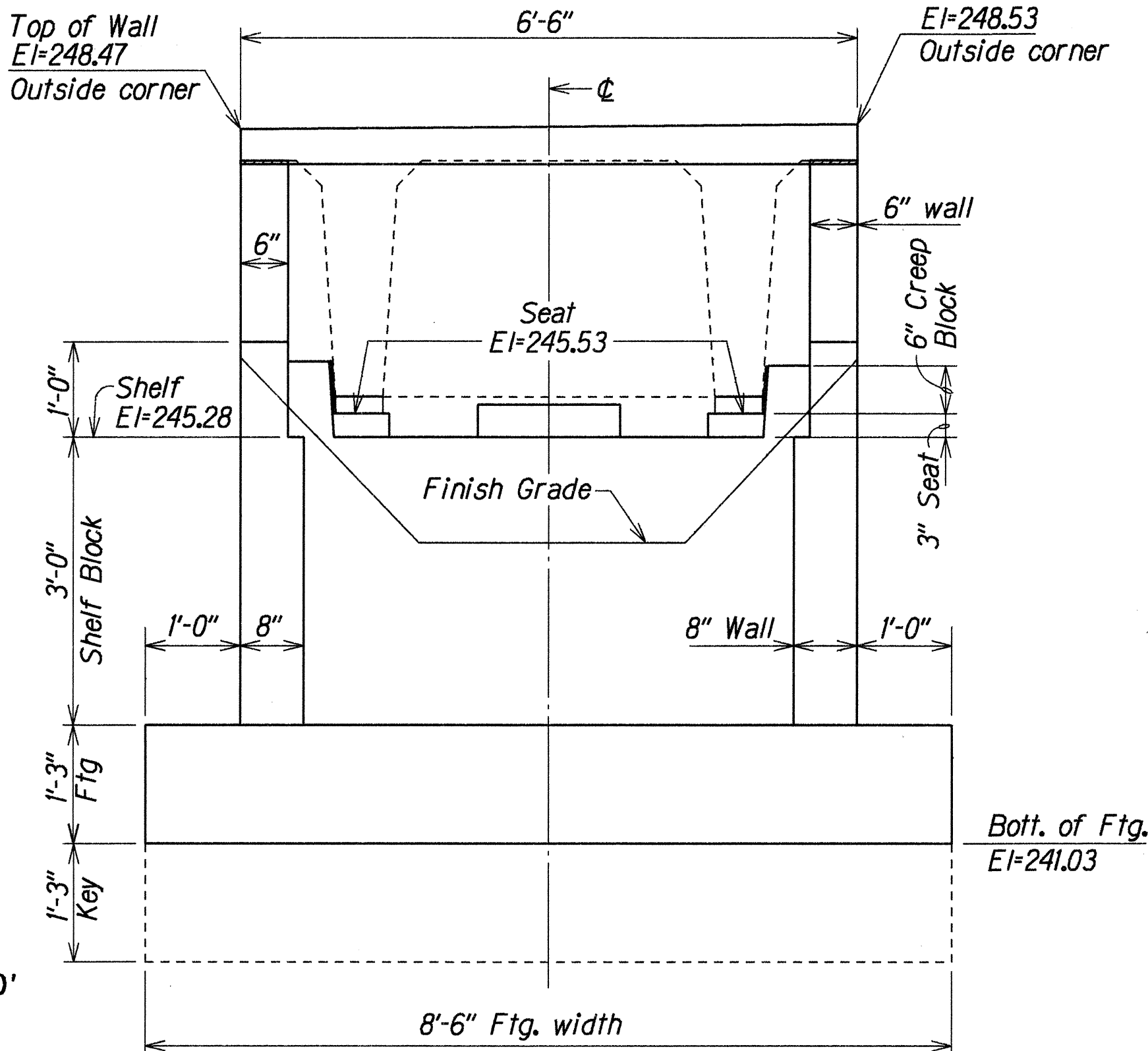
PLAN  
Scale: 1/2"=1'-0"



ELEVATION

ABUTMENT NO. 1

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



ELEVATION

ABUTMENT NO. 2

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

## LEGEND FOR AS-BUILT POSTINGS

- Squiggly line for as-built deletion
- Double line for as-built deletion
- Roadway Text for as-built posting

ORIGINAL PLAN	DATE
DRAWN BY	CHQ. JHM
DESIGNED BY	SA
CHECKED BY	DOO. LA
NOTED BY	SA
DATE	MAY 1994
DATE	MAY 1994
DATE	MAY 1994
DATE	MAY 1994

6/7/94	Added General Note no. 7.
DATE	REVISION

STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
HIGHWAYS DIVISION  
HAWAII BELT ROAD PEDESTRIAN  
BRIDGE AT WAIKOLU STREAM  
ABUTMENT PLANS  
AND ELEVATIONS  
Project No. 19H-02-93

Date: May, 1994