

RETAINING WALL DESIGN DATA

REINFORCED CONCRETE:
f_c = 1,300 psi f'_c = 3,250 psi
f_s = 24,000 psi f_y = 60,000 psi (Grade 60)
n = 10
GEOTECHNICAL DATA:
Earth unit weight = 110 pcf
EFP = 36 pcf
Allowable soil bearing pressure = 3,000 psf

NOTES

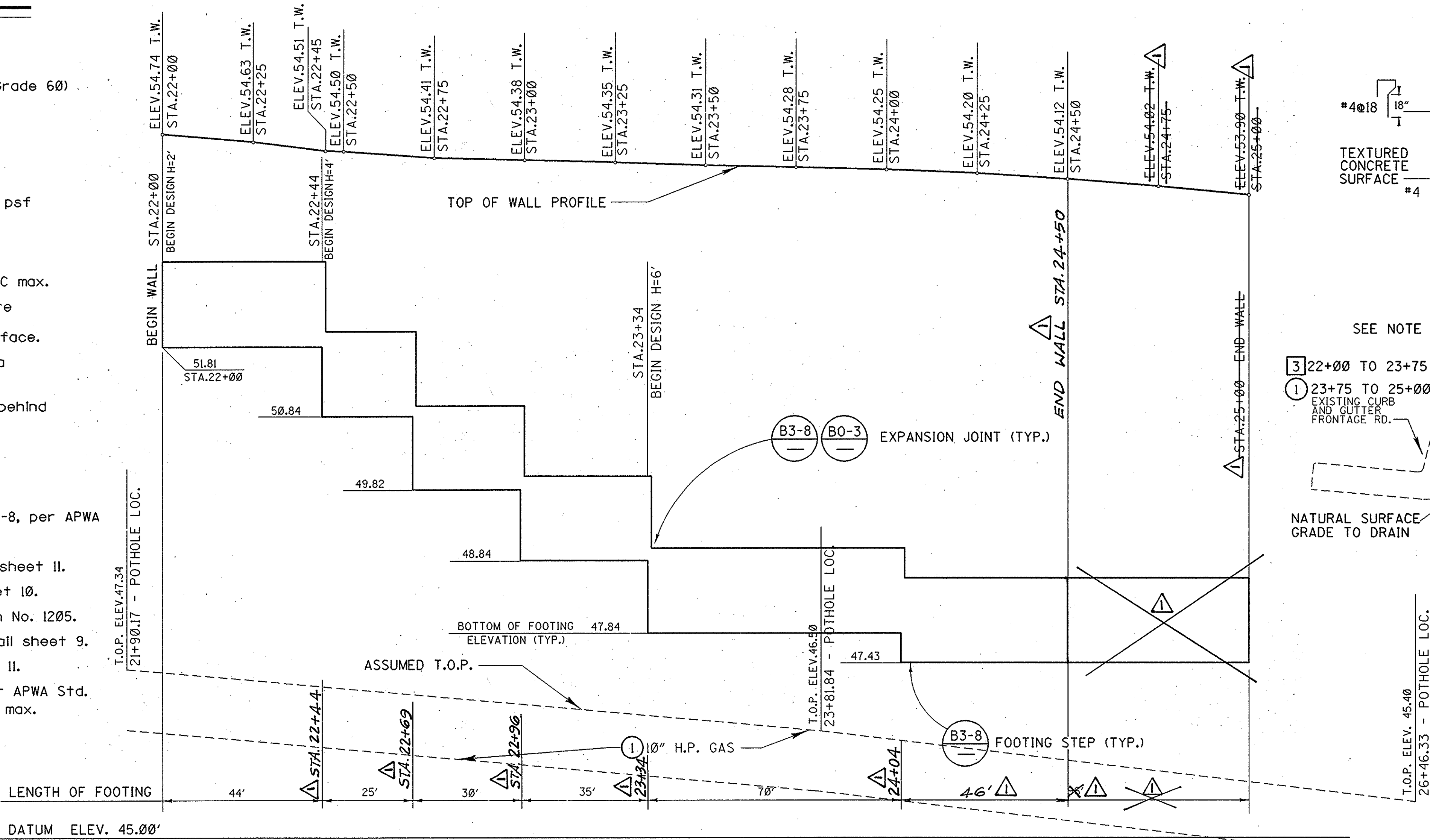
- A. 4" Schedule 60 PVC drains at 20' C-C max.
- B. 6" sq. aluminum or galvanized steel wire 1/4" mesh hardware cloth (min. wire 0.025"). Anchor firmly to back face.
- C. One C.F. pervious backfill material in a burlap sack, securely tied.
- D. Pervious backfill material continuous behind retaining wall.

CONSTRUCTION NOTES

- 3 Construct PCC curb and gutter, type A2-8, per APWA Std. Plan No. 104-0-0C
- 4 Construct conc. slope lining per details sheet 11.
- 8 Construct retaining wall per details sheet 10.
- 9 Construct PCC sidewalk per EMA Std. Plan No. 1205.
- 14 Construct modified access ramp per detail sheet 9.
- 24 Construct closure wall per details sheet 11.
- 31 Construct metal hand railing, Type B, per APWA Std. Plan No. 606-0-0C, post spacing 8' C.C. max.

LEGEND

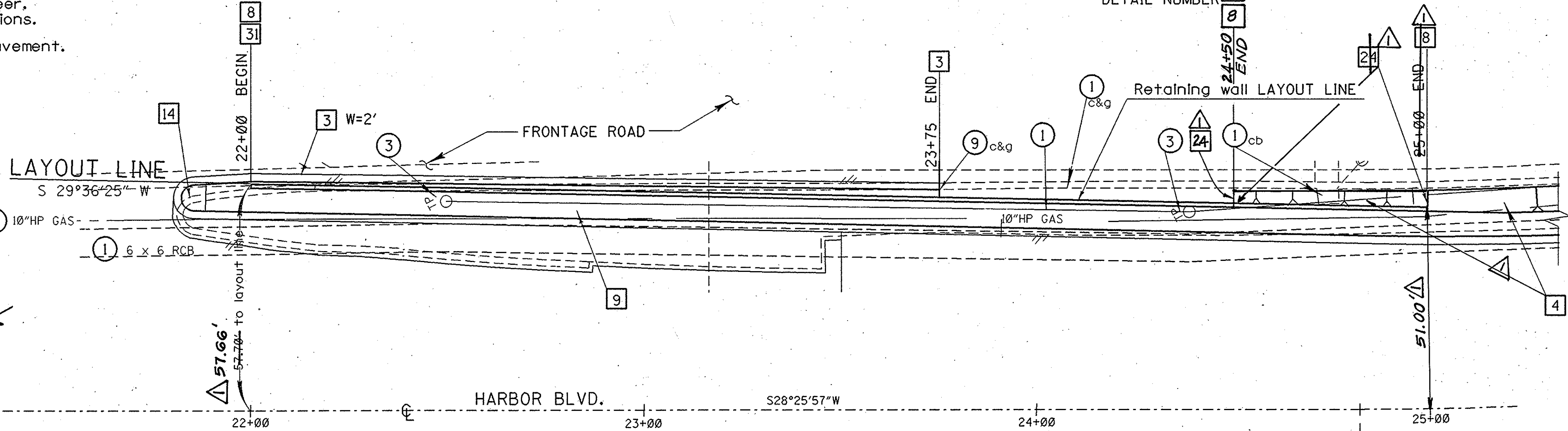
- 1 Protect in place
- 2 To be removed
- 3 To be relocated by others
- 4 Remove and salvage
- 5 Sawcut
- 6 Join existing and feather to satisfaction of Engineer.
- 7 Remove interfering portions.
- 8 Match exist. edge of pavement.
- 9 Join existing
- 10 Adjust to grade
- 11 Relocate



WALL ELEVATION

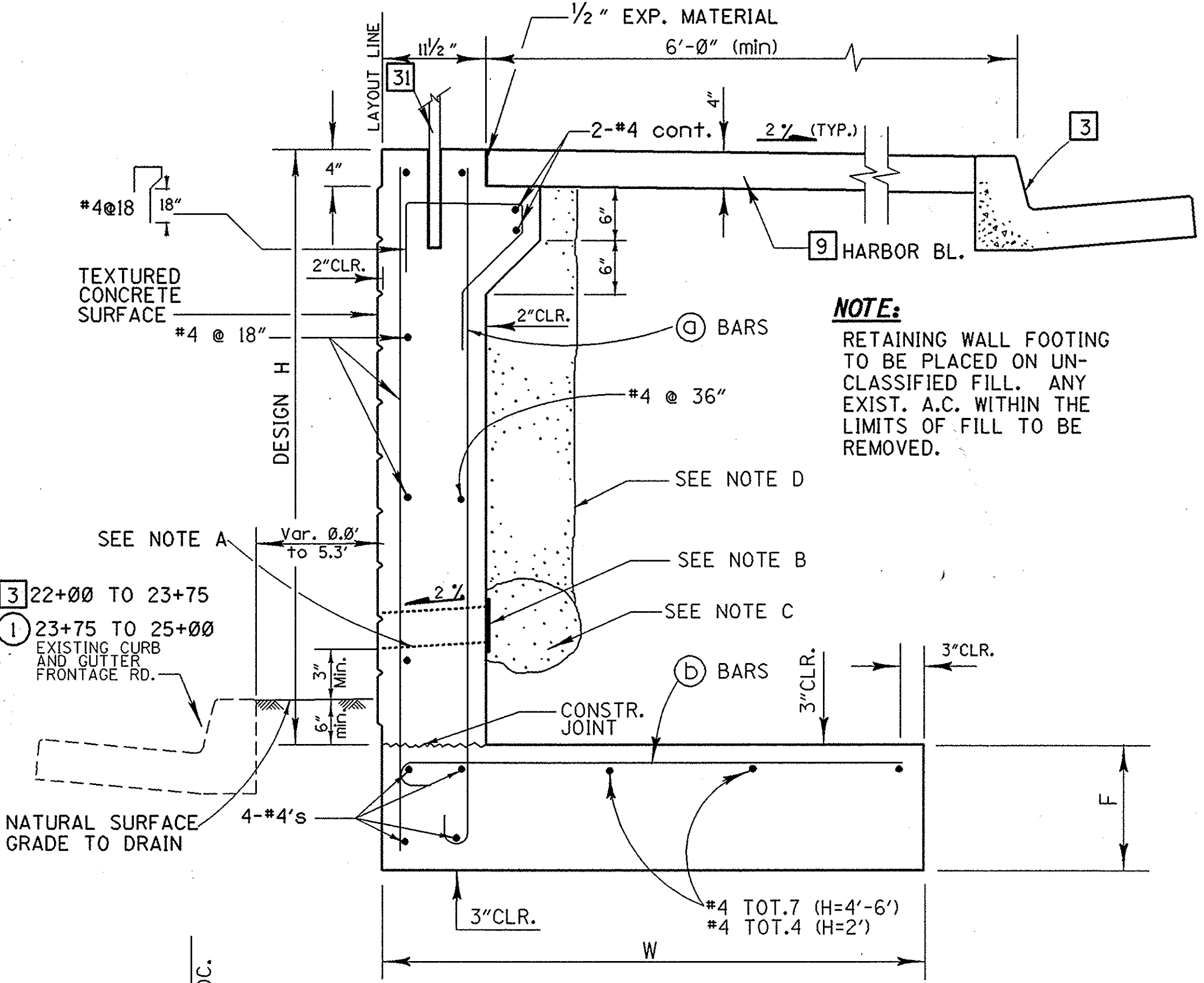
SCALE: Horiz. 1" = 20'-0"
Vert. 1" = 1'-0"

NOTE:
PLAN SYMBOL:
B0-3 CALTRANS STANDARD PLAN SHEET NUMBER
3-1 DETAIL NUMBER



WALL PLAN

SCALE: 1" = 20'-0"

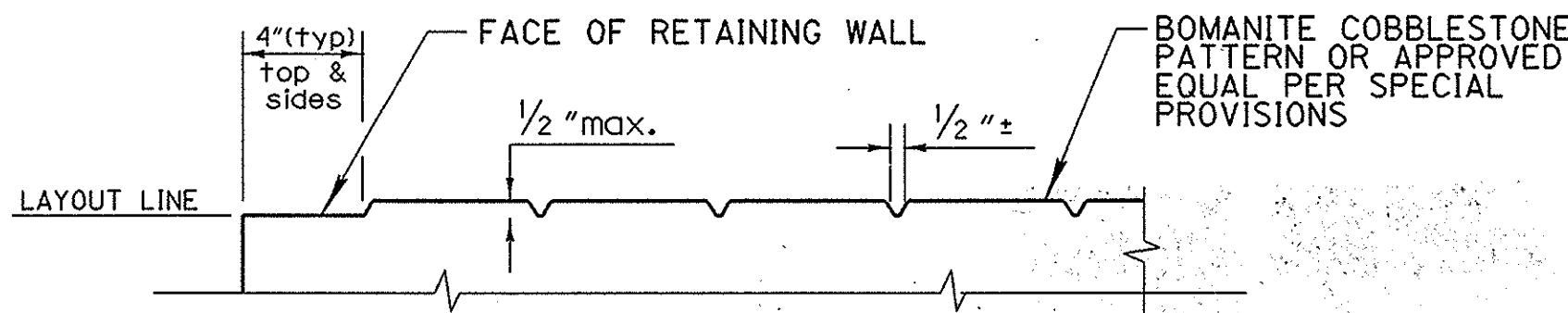


TYPICAL SECTION

SCALE: 1" = 1'-0"

TABLE OF REINFORCING STEEL DIMENSIONS AND DATA

DESIGN H (FT)	2'	4'	6'
W	2'-6"	4'-0"	5'-0"
F SPREAD FTG.	1'-2"	1'-2"	1'-2"
Ⓐ BARS	#4 @ 18"	#4 @ 18"	#5 @ 18"
Ⓑ BARS	#4 @ 18"	#4 @ 18"	#5 @ 18"



TEXTURED CONCRETE SURFACE DETAIL
(CONCRETE STRUCTURES)

Not To Scale

RECORD DRAWING

1/2 0 2
3 inches on original drawing

ORANGE COUNTY ENVIRONMENTAL MANAGEMENT AGENCY	
HARBOR BLVD. IMPROVEMENTS	
RETAINING WALL	
DESIGNED: RRS	SHEET 10 OF 60
DRAWN: HP/SG	CHECKED: RAH
SCALE: AS SHOWN	DATE: 3/4/93
DRAWING NO. 10	

CAUTION: A 10" HIGH PRESSURE GAS LINE RUNS PARALLEL AND BENEATH HARBOR BLVD. CONTRACTOR TO USE EXTREME CARE WHEN WORKING IN VICINITY OF THIS UTILITY.