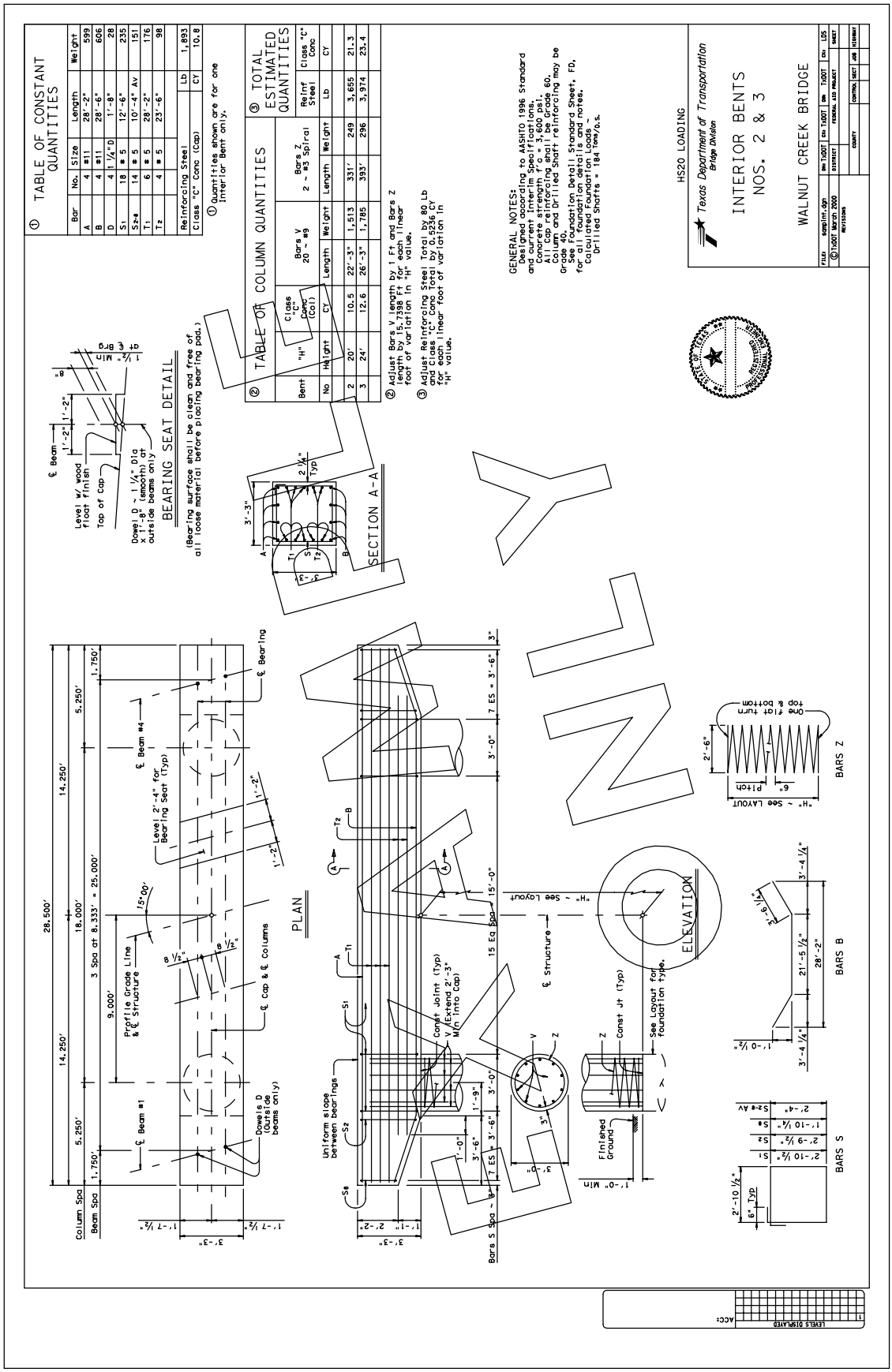
① TABLE OF CONSTANT QUANTITIES
Bar | No. Size | Length | Weight
A | 4 #11 | 28'-2" | 599
B | 4 #11 | 28'-6" | 606
D | 4 1 1/4"D | 1'-8" | 28
S1 | 18 # 5 | 12'-6" | 235
S2-a | 14 # 5 | 10'-4" Av | 151
T1 | 6 # 5 | 28'-2" | 176
T2 | 4 # 5 | 23'-6" | 98
Reinforcing Steel | Lb | 1,893
Class "C" Conc (Cap) | CY | 10.8
① Quantities shown are for one Interior Bent only.
② TABLE OF COLUMN QUANTITIES
Bent | "H" | Class "C" Conc (Col) | Bars V 20 ~ #9 | | Bars Z 2 ~ #3 Spiral | |
No | Height | CY | Length | Weight | Length | Weight
2 | 20' | 10.5 | 22'-3" | 1,513 | 331' | 249
3 | 24' | 12.6 | 26'-3" | 1,785 | 393' | 296
② Adjust Bars V length by 1 Ft and Bars Z length by 5.738 Ft for each linear foot of variation in "H" value.
③ Adjust Reinforcing Steel Total by 80 Lb and Class "C" Conc Total by 0.25 CY for each linear foot of variation in "H" value.
③ TOTAL ESTIMATED QUANTITIES
Reinf Steel | Lb | 3,655 | 3,974
Class "C" Conc | CY | 21.3 | 23.4
GENERAL NOTES:
Designed according to AASHTO 1996 Standard and current Interim Specifications.
Concrete strength f'c = 3,600 psi.
All Cap reinforcing shall be Grade 60.
Column and Drilled Shaft reinforcing may be Grade 60.
See Foundation Detail Standard Sheet, FD, for all foundation details and notes.
Calculated Foundation Loads
Drilled Shafts = 194 Kips/o.s.
HS20 LOADING
Texas Department of Transportation
Bridge Division
INTERIOR BENTS
NOS. 2 & 3
WALNUT CREEK BRIDGE
FILE: bdnplnt.dgn
DN: TxDOT
CK: TxDOT
DW: TxDOT
CK: LDS
©TxDOT March 2000
REVISIONS
DISTRICT
FEDERAL AID PROJECT
SHEET
COUNTY
CONTROL | SECT
JOB | HIGHWAY
BEARING SEAT DETAIL
(Bearing surface shall be clean and free of all loose material before placing bearing pad.)
Level w/ wood float finish
Top of Cap
Dowel D ~ 1 1/4" Dia x 1'-8" (smooth) at outside beams only
1 1/2" Min at ℄ Brg
℄ Beam
SECTION A-A
PLAN
ELEVATION
℄ Bearing
℄ Beam #4
℄ Beam #1
℄ Cap & ℄ Columns
Level 2'-4" for Bearing Seat (Typ)
Profile Grade Line & ℄ Structure
3 Spa at 8.333' = 25.000'
Column Spa
Beam Spa
Uniform slope between bearings
Const Joint (Typ) V Extend 2'-3" M/n into Cap)
15 Eq Spa = 15'-0"
7 ES = 3'-6"
Bars S Spa ~ 6"
"H" ~ See Layout
℄ Structure
Finished Ground
1'-0" Min
See Layout for foundation type.
Const Jt (Typ)
One flat turn top & bottom
BARS Z
BARS B
BARS S
LEVELS DISPLAYED
ACC:

Fig. 4-2