



Shoring must be designed for Railroad live load surcharge in addition to OSHA Standard loads for excavation in Zone A.
APPLICABLE RAILROAD LIVE LOAD: COOPER E80

Only vertical shoring will be permitted for excavation in this Zone, (no sloping cuts)
 Shoring to comply with OSHA requirements

GENERAL NOTES:

All dimensions are measured perpendicular to ϕ of track.
 Prior to commencing any work, the contractor shall submit for approval by the Railroad detailed plans indicating the nature and extent of the track protection shoring proposed. The contractor shall install the temporary shoring system per the approved plans. Design of the temporary shoring system to comply with **GUIDELINES FOR TEMPORARY SHORING.**

For excavations which encroach into zone A or B, shoring plans shall be accompanied by design calculations. Plans and calculations must be signed and stamped by a Professional Engineer registered in the state where the work will be performed.

GENERAL EXCAVATION ZONES

SCALE: (NOT TO SCALE)

REVISIONS		
DATE	LTR.	DESCRIPTION
5 / 03	1	FORMERLY UPRR C.E. 106613
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DESIGN BY: PGP DRAWN BY: JFS CHECKED BY: AA
 APPROVED:
K.H. Tennison
 BNSF - ASSISTANT DIRECTOR STRUCTURES DESIGN
Steve J. Mann 9-1-04
 UPRR - MGR SPECIAL PROJECTS STRUCTURES DESIGN

BRIDGE STANDARDS

GENERAL SHORING REQUIREMENTS

FILE OWNER: UPRR DATE: 5-6-03
 PLAN NO.: 710000 SHEET: 1 OF 1
 PLOTTED: \$\$\$DATE\$\$\$ \$TIME

FOR INFORMATION ONLY

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