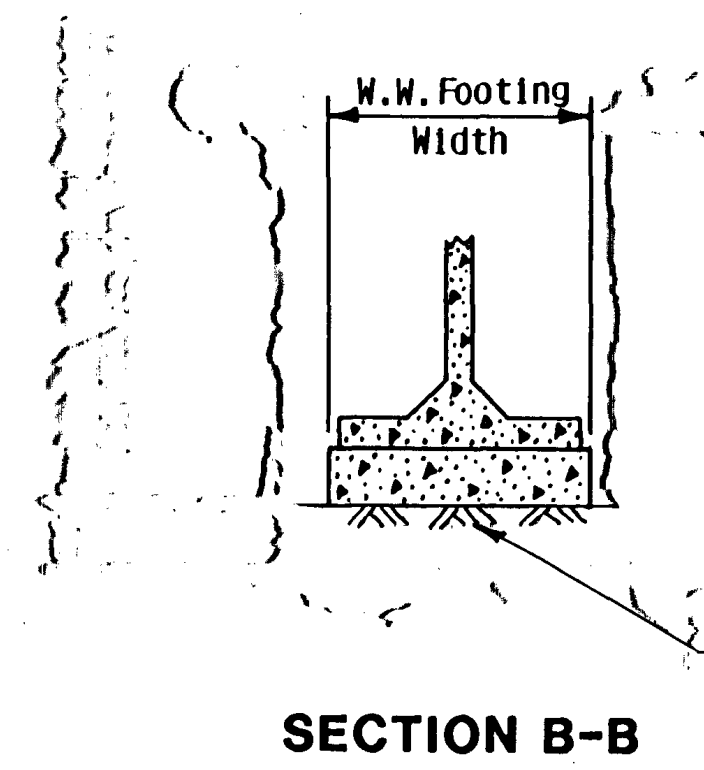


NOTE: SEE SHEET 1 FOR LOCATION OF FENCES S-1 AND 60-9322

- ⑨ CONC. RAILING = 0.160 CU. YDS. PER FOOT
- ⑨ REINFORCING = 8.98 LBS. PER FOOT

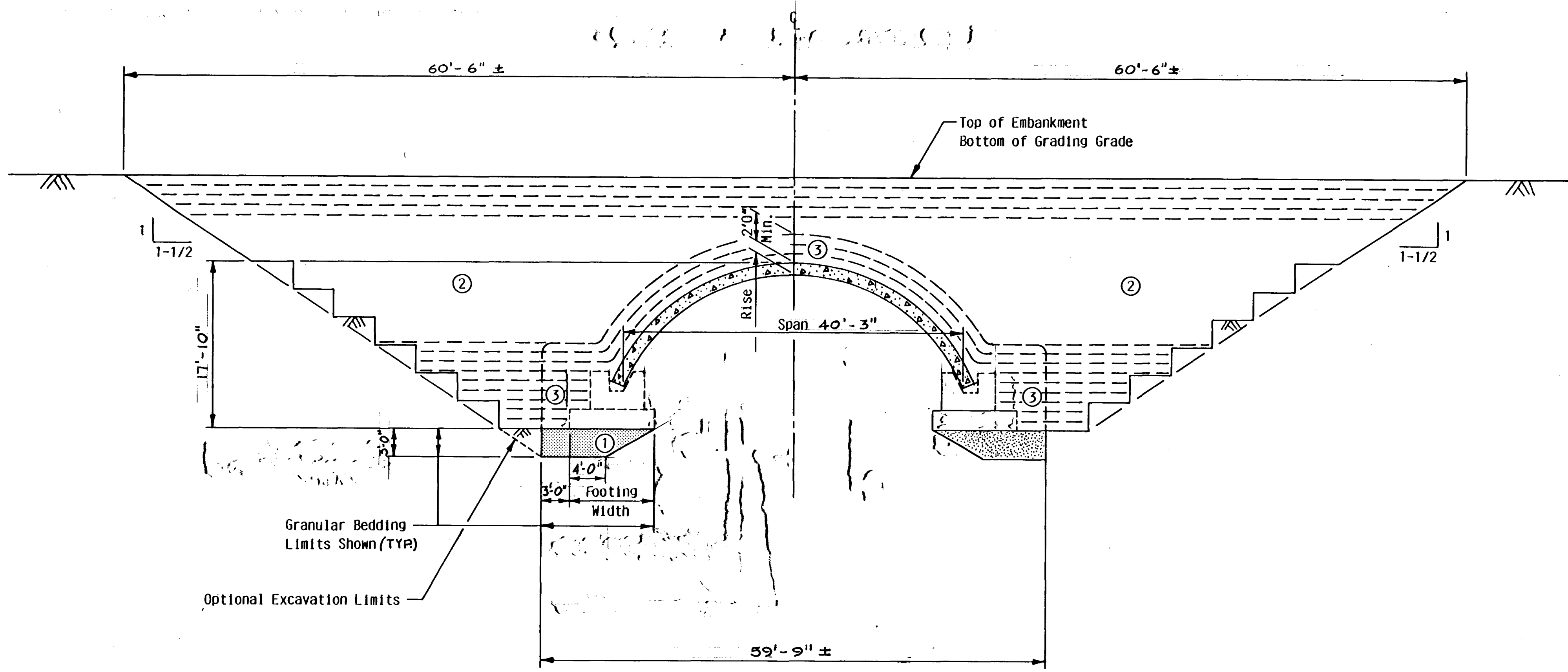


GENERAL CONSTRUCTION NOTES:

1. To avoid excessive vibration in the arch, the following practice must be followed during the compaction operation.
 - A.) Eccentric rotating weights of vibrating rollers shall rotate at least 30 revolutions per second.
 - B.) Vibrating rollers shall not be started or stopped within 6 feet of the structure.
2. Excavate and stockpile all soils encountered below proposed embankment widenings per Mn/DOT Spec. 2105.2C for future use as slope dressing.
3. Construction equipment less than 30 tons total weight will be allowed to cross or be operated adjacent to precast elements only after a minimum of two feet of cover has been placed and compacted.
4. Dewater as directed by the engineer until excavation, backfill, compaction, concrete footings & grout are placed & cured.
5. Grade slopes adjacent to wingwalls to prevent erosion.

DETAIL NOTES:

- ① All granular bedding under footings shall meet or exceed Mn/DOT specification 3149.2F granular bedding. Placement of this granular bedding shall follow Mn/DOT Spec. 2451.3D and shall be compacted to no less than 100% maximum density as per Mn/DOT Spec. 2105.3F1. Class E, shall not extend outside of headwalls.
- ② All granular backfill shall be compacted to not less than 95% maximum density as per Mn/DOT Spec. 2105.3F1 (AASHTO T-99). Granular backfill shall meet or exceed Mn/DOT Spec. 3149.2D Granular backfill. All material shall be placed in 8- inch compacted lifts unless the contractor can show he can obtain 95% density with greater lifts. Mn/DOT Spec. 2451.3C and 2451.3D shall apply. The backfill material on both sides of the structure is to be placed so that the difference in elevation on one side is never greater than 2 feet higher than the other side.
- ③ Hand compaction equipment is required in the area within 3 feet of the arch elements, walls and wingwalls.
- ④ ALL REINFORCEMENT BARS IN J-BARRIER TO BE EPOXY COATED.
- ⑤ J-BARRIER CONC. MIX NO. 3X46
- ⑥ FOR DETAILS OF J-BARRIER DEFLECTION JOINTS & FENCE, SEE SHEET NO. 32A OF PLAN FOR BR. #02545. SPACE DEFLECTION JOINTS AT 20' SPACING.
- ⑦ INCLUDED IN PRICE BID FOR CONCRETE DESIGN SPECIAL.
- ⑧ BEGIN J-BARRIER AT STA. 113+85.00 WITH STD. GUARD RAIL CONNECTION DETAIL AS SHOWN ON SHEET NO. 32A OF PLAN FOR BR. 02545.
- ⑨ INCLUDED IN PRICE BID FOR TRAFFIC BARRIER DESIGN SPECIAL.
- ⑩ FOR DETAILS OF SLOPE PAVING, SEE SHEET 2



SECTION A-A

REVISED:	APPROVED: Sept. 14, 1987	FIG. 5-397.789
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PRECAST CONCRETE ARCH STRUCTURE EXCAVATION & BACKFILL	DES:	DR:	APPROVED:	Bridge No. 96834
	CHK:	CHK:		
Sheet No. 8C of 10C Sheets				