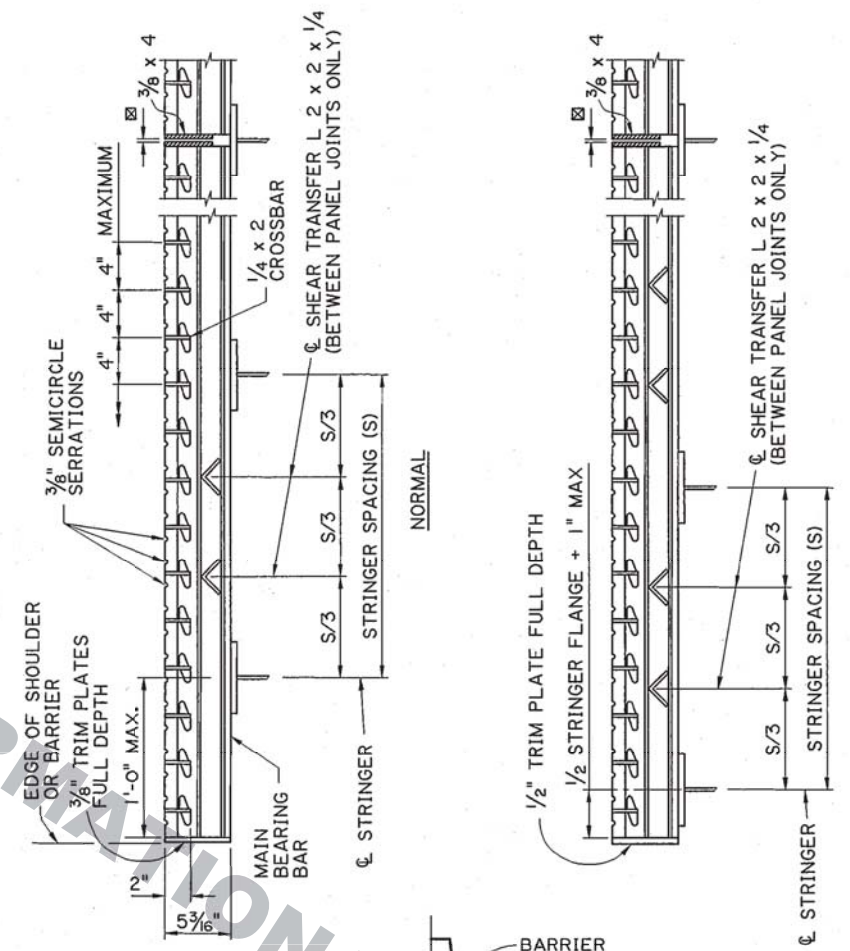


TYPICAL GRID FLOORING PLAN



SECTION B-B

GENERAL NOTES:

DESIGN SPECIFICATIONS: AASHTO STANDARD SPECIFICATIONS FOR HIGHWAY BRIDGES, 2002 AND INTERIM SPECIFICATIONS.

CONSTRUCTION SPECIFICATIONS: LATEST APPROVED LOUISIANA DEPARTMENT OF TRANSPORTATION AND DEVELOPMENT SPECIFICATIONS AS AMENDED BY SUPPLEMENTAL SPECIFICATIONS AND/OR SPECIAL PROVISIONS.

LIVE LOAD: AASHTO HS-20 AND HST-18.

DESIGN SPAN: THE DESIGN SPAN IS EQUAL TO STRINGER SPACING MINUS ONE- HALF STRINGER FLANGE WIDTH.

STRUCTURAL STEEL: TYPE STEEL SHALL BE AS SPECIFIED.

DESIGN WEIGHT: STRUCTURES USING THESE GRID FLOORINGS SHALL BE DESIGNED FOR A FLOORING WEIGHT OF 20 POUNDS PER SQUARE FOOT.

ACTUAL WEIGHT: GRID FLOORING MANUFACTURED UNDER THIS STANDARD SHALL NOT WEIGH LESS THAN 15.5 POUNDS PER SQUARE FOOT.

MOVABLE SPANS: WHEN GRID FLOORING IS TO BE USED ON A MOVABLE SPAN, THE FABRICATOR SHALL BE REQUIRED TO SUBMIT TO THE BRIDGE DESIGN ENGINEER THE ACTUAL WEIGHT PER SQUARE FOOT OF THE GRID FLOORING, BOTH WITH AND WITHOUT ATTACHMENTS.

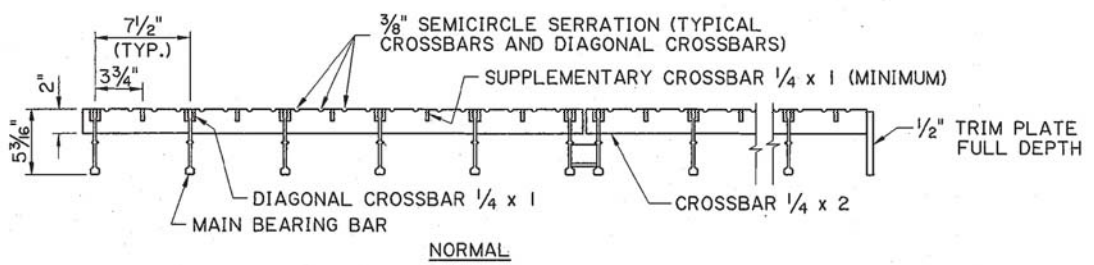
PROTECTIVE COATING: GRID FLOORING SHALL BE PAINTED OR GALVANIZED AS CALLED FOR IN THE SPECIFICATIONS.

TRIM PLATES: TRIM PLATES SHALL BE SAME MATERIAL AND GRADE AS THE GRID FLOORING. USE 1/4\"

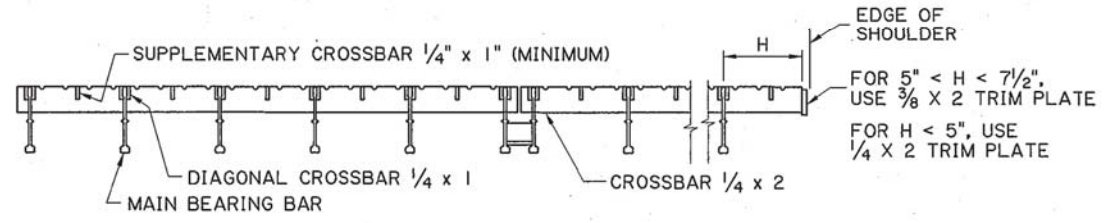
MAIN BEARING BAR DESIGN DATA

FLOORING TYPE	I	II	III
WEIGHT OF MAIN BAR (MINIMUM LBS/FT)	4.65	5.50	5.50
MOMENT OF INERTIA (MINIMUM IN ⁴)	3.5	4.6	4.6
SECTION MODULUS (MINIMUM IN ³)	1.25	1.55	1.55
STEEL TYPE	A588	A36	A588
MAXIMUM STRINGER SPACING *	4'-3"	5'-5"	

* ASSUME CONTINUOUS SPANS AND 6" WIDE STRINGER FLANGE

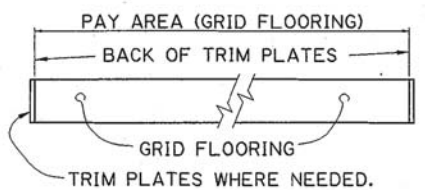


NORMAL

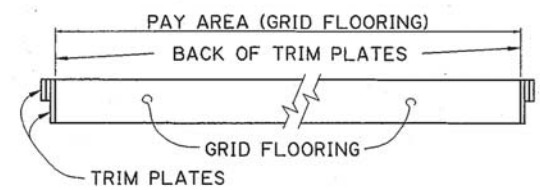


PARALLEL

SECTION A-A

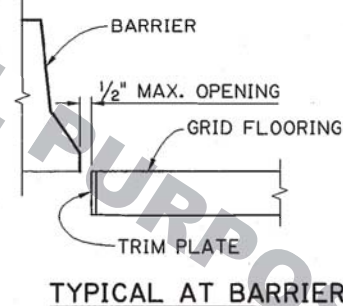


TRANSVERSE DIRECTION (NORMAL TO ϵ ROADWAY)

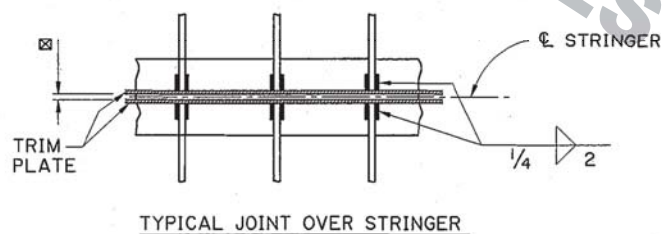


LONGITUDINAL DIRECTION (ALONG ϵ ROADWAY)

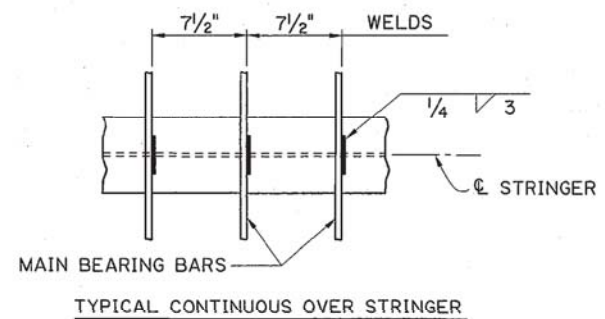
METHOD OF MEASUREMENT



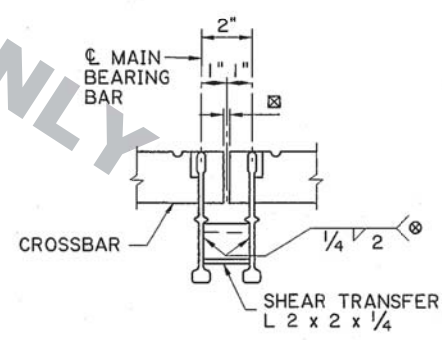
TYPICAL AT BARRIER



TYPICAL JOINT OVER STRINGER



FIELD WELDING DIAGRAM



TYPICAL JOINT BETWEEN ADJACENT PANELS

- 0" TO 1/4" MAXIMUM CROSS BAR GAP (NO WELD)
- SHOP WELD TO EXTERIOR BAR ON ONE SIDE, THEN FIELD WELD TO OTHER SIDE AFTER INSTALLATION. (TYP. ALONG BOTH LEGS OF ANGLE)



DETAILS ARE NTS

PARISH PROJECT STATE PROJECT

DESIGNED BY: K. YAP

CHECKED BY: P. GELPT

DATE: 06-06-02

REVISION DESCRIPTION

NO. DATE

STATE OF LOUISIANA PROFESSIONAL ENGINEER

OPEN STEEL GRID FLOORING (REGULAR)

GF-01

BRIDGE AND STRUCTURAL DESIGN