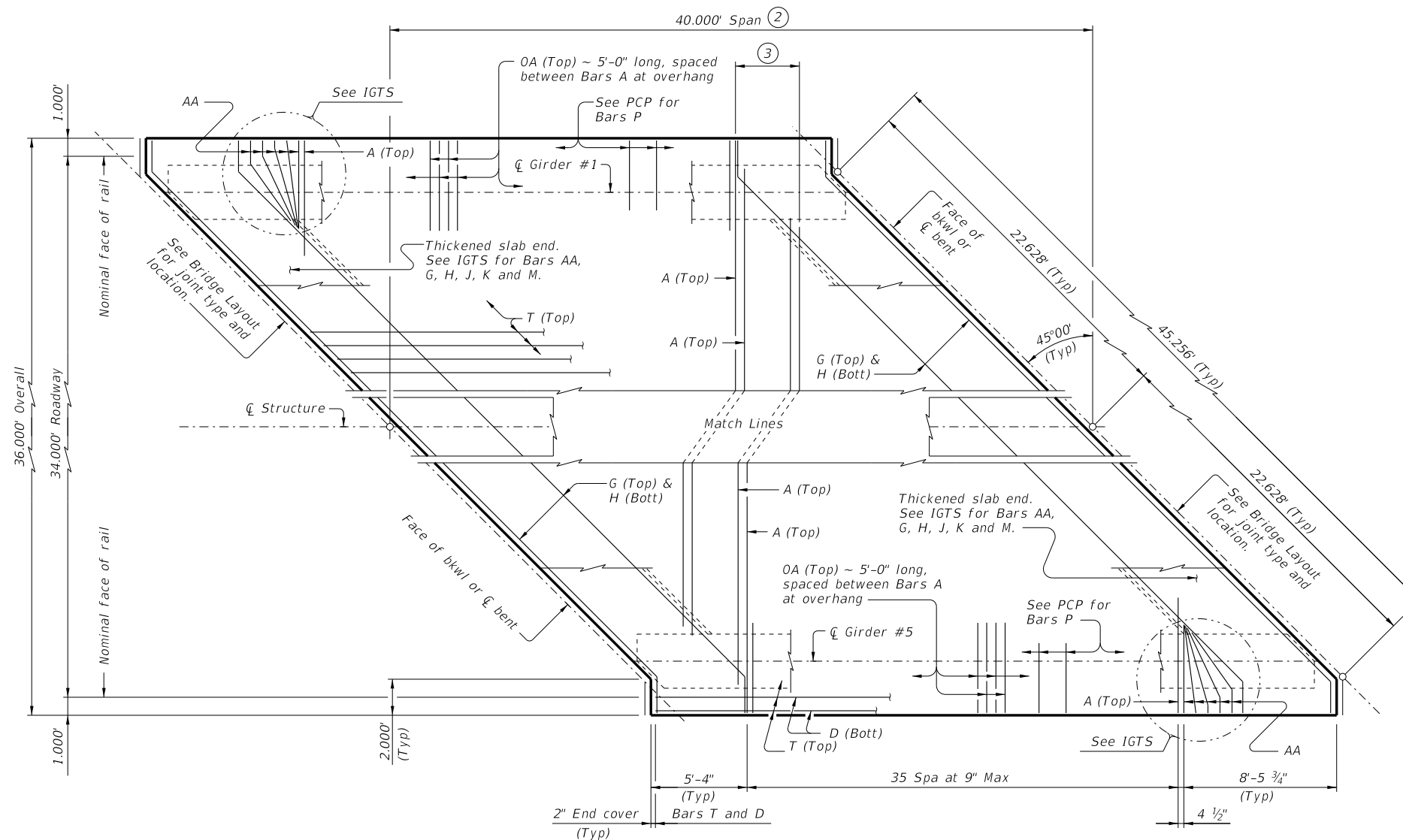


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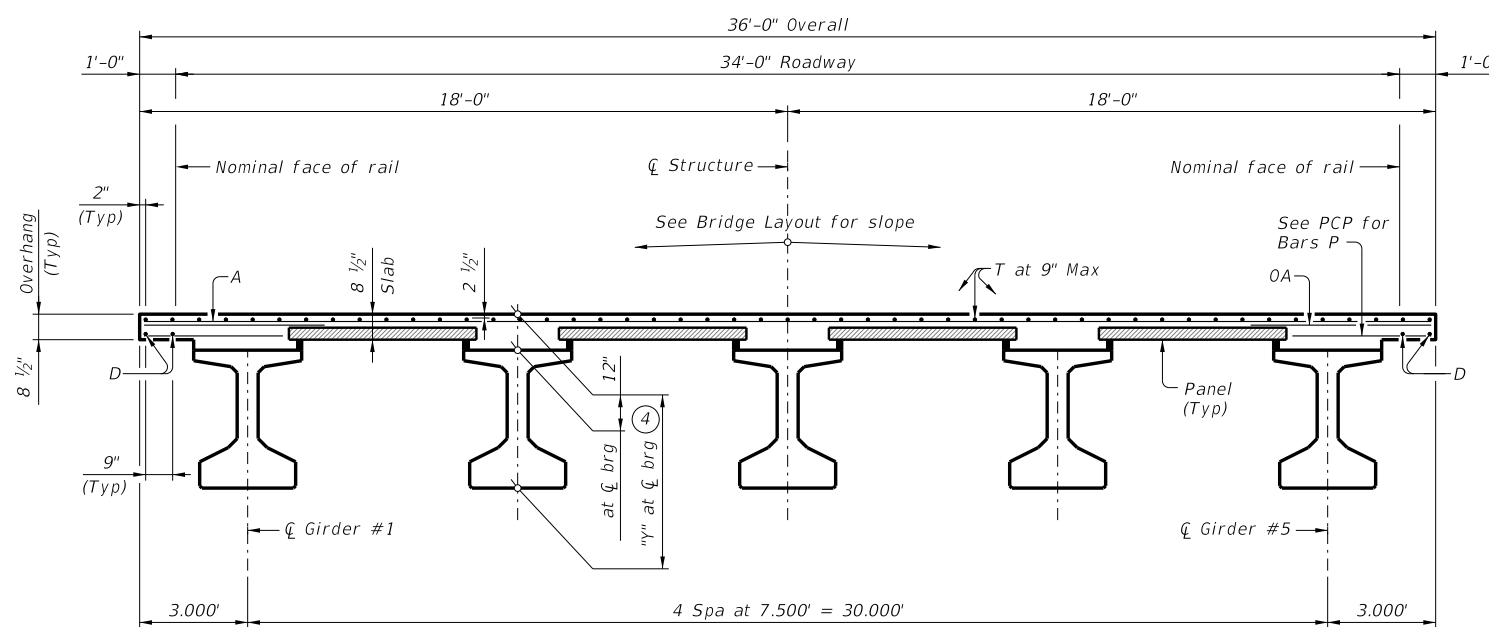
BAR TABLE

BAR	SIZE
A	#4
AA	#5
D	#4
G	#4
H	#4
J	#4
K	#4
M	#4
OA	#5
P	#4
T	#4



PLAN ~ 40' SPAN (1)

- (1) If multi-span units (with slab continuous over interior bents) are indicated on the Bridge Layout, see standard IGCS for adjustment to slab reinforcement and quantities.
- (2) Span lengths for prestressed concrete I-Girder type:
 Type Tx28 for spans lengths 40.000' thru 75.000'.
 Type Tx34 for spans lengths 40.000' thru 85.000'.
 Type Tx40 for spans lengths 40.000' thru 95.000'.
 Type Tx46 for spans lengths 40.000' thru 110.000'.
 Type Tx54 for spans lengths 40.000' thru 125.000'.
 See appropriate "Plan Detail" for span length.
- (3) Bars A (Top) at 9" Max Spacing.
- (4) "y" value shown is based on theoretical girder camber, dead load deflection from an 8 1/2" concrete slab, a constant roadway grade, and using precast panels (PCP). The Contractor will adjust this value as necessary for any roadway vertical curve.



TYPICAL TRANSVERSE SECTION

(Showing girder type Tx46)

TABLE OF SECTION DEPTHS

GIRDER TYPE	"y" AT ϕ BRG (4)
	Ft/In
Tx28	3'-4"
Tx34	3'-10"
Tx40	4'-4"
Tx46	4'-10"
Tx54	5'-6"

HL93 LOADING

SHEET 1 OF 2



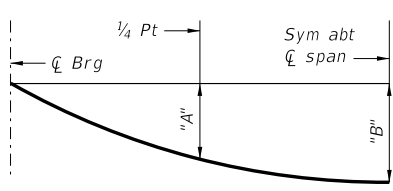
PRESTRESSED CONCRETE I-GIRDER SPANS (TYPE Tx28 THRU Tx54) 34' ROADWAY 45° SKEW

SIG-34-45

FILE: IG-SIG3445-23.dgn	DN: TAR	CK: VC	DW: SFS	CK: TAR
©TxDOT January 2023	CONT	SECT	JOB	HIGHWAY
REVISIONS				
	DIST	COUNTY		SHEET NO.

DATE: FILE:

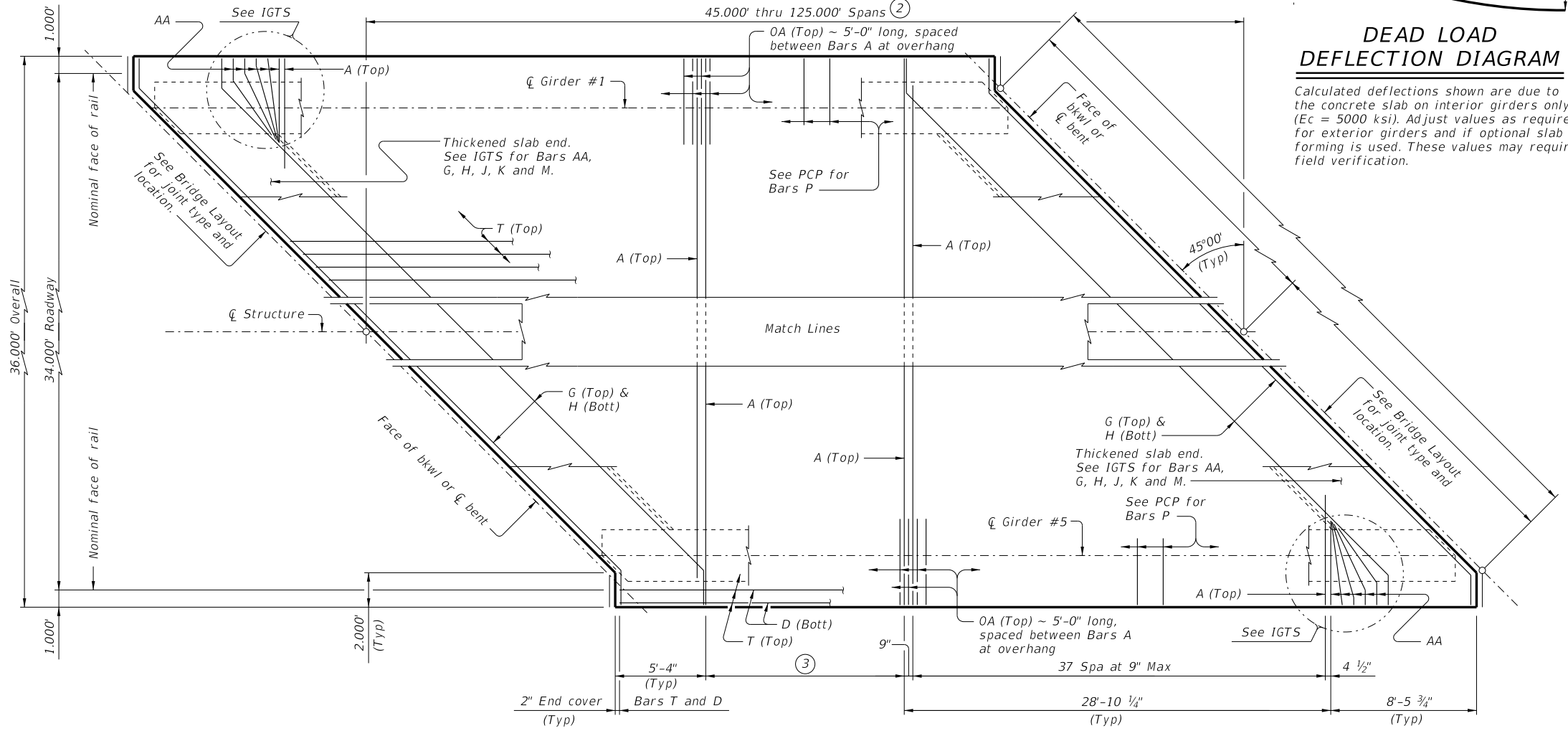
- ① If multi-span units (with slab continuous over interior bents) are indicated on the Bridge Layout, see standard IGCS for adjustment to slab reinforcement and quantities.
- ② Span lengths for prestressed concrete I-Girder type:
 Type Tx28 for spans lengths 40.000' thru 75.000'.
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 Type Tx46 for spans lengths 40.000' thru 110.000'.
 Type Tx54 for spans lengths 40.000' thru 125.000'.
 See appropriate "Plan Detail" for span length.
- ③ Bars A (Top) at 9" Max Spacing.



- ⑤ Fabricator will adjust lengths for girder slopes as required.
- ⑥ Reinforcing steel weight is calculated using an approximate factor of 2.3 lbs/SF.

MATERIAL NOTES:

GENERAL NOTES:



DEAD LOAD DEFLECTION DIAGRAM

Calculated deflections shown are due to the concrete slab on interior girders only ($E_c = 5000 \text{ ksi}$). Adjust values as required for exterior girders and if optional slab forming is used. These values may require field verification.

PLAN ~ 45' THRU 125' SPAN ①

Cover di otherwise.

HL93 LOADING SHEET 2 OF 2

			Bridge Division Standard	
PRESTRESSED CONCRETE I-GIRDER SPANS (TYPE Tx28 THRU Tx54) 34' ROADWAY 45° SKEW				
SIG-34-45				
FILE:	DN: TAR	CK: VC	DW: SFS	CK: TAR
CTxDOT REVISIONS	CONT	SECT	JOB	HIGHWAY
	DIST	COUNTY		SHEET NO.

DATE:
FILE: