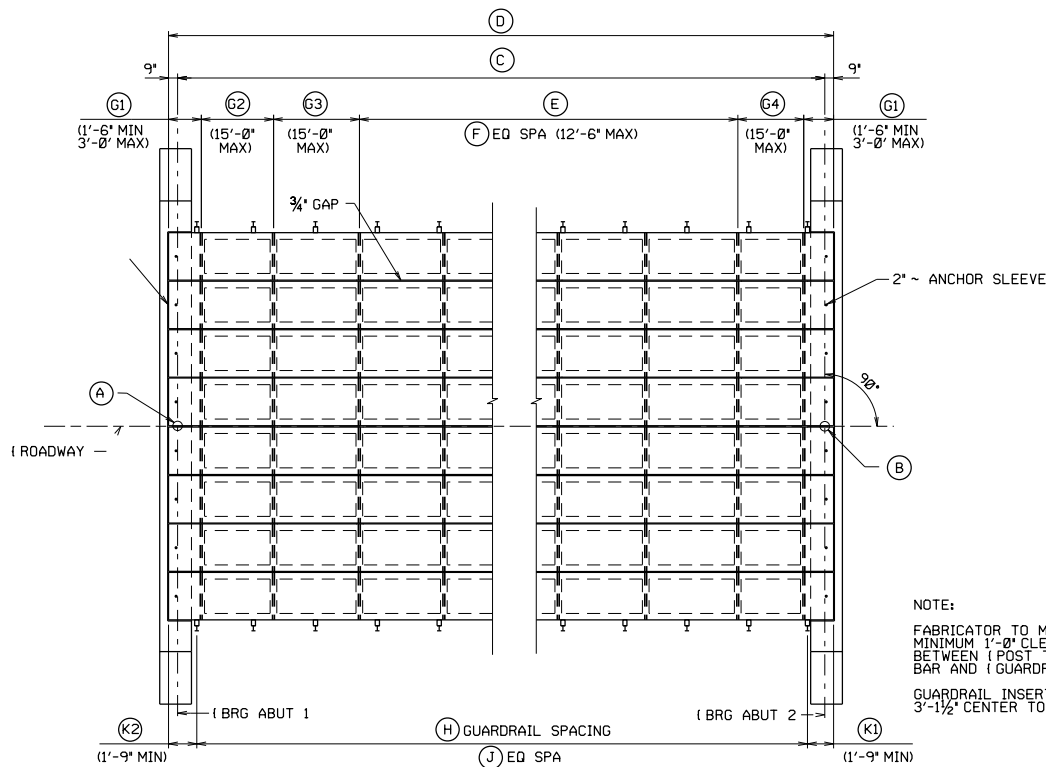
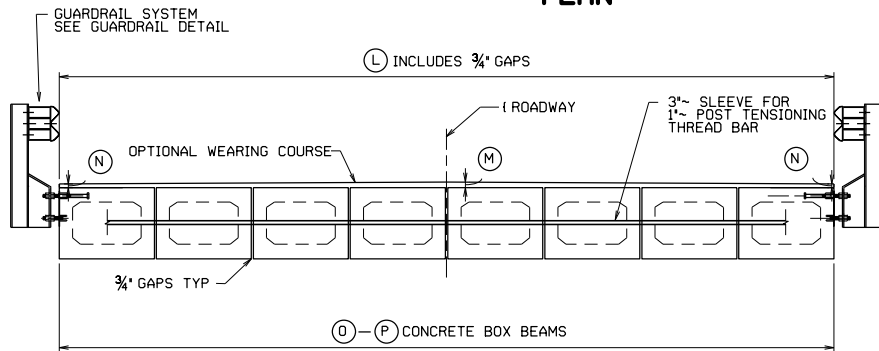


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PLAN

NOTE:
FABRICATOR TO MAINTAIN
MINIMUM 1'-0" CLEARANCE
BETWEEN (I) POST TENSION
BAR AND (J) GUARDRAIL INSERT
GUARDRAIL INSERT SPACING
3'-1/2" CENTER TO CENTER



TYPICAL CROSS-SECTION WITH GUARDRAIL

CONCRETE ADJACENT BOX BEAM CONTROL POINTS		
CODE	DESCRIPTION	DIMENSION
A	WP STA	
B	WP STA	
C	BEARING TO BEARING LENGTH	
D	OVERALL BEAM LENGTH	
E	LENGTH POST TENSION SLEEVE SPACING (12'-6")	
F	NUMBER OF EQUAL SPACING P. T. SLEEVE (12'-6")	
G1	LENGTH FROM END OF BEAM TO FIRST SLEEVE	
G2	LENGTH BETWEEN FIRST SLEEVE AND SECOND	
G3	LENGTH BETWEEN SECOND AND THIRD SLEEVE	
G4	LENGTH FROM LAST SLEEVE TO END OF BEAM	
H	OVERALL LENGTH OF GUARDRAIL AT 6'-3" SPACING	
J	NUMBER OF EQUAL SPACING GUARDRAIL INSERTS	
K1	DISTANCE FROM END OF BEAM TO FIRST INSERT	
K2	DISTANCE FROM LAST INSERT TO END OF BEAM	
L	OVERALL WIDTH (INCLUDES 3/4" GAP)	
M	THICKNESS OF WEARING AT CENTERLINE	
N	THICKNESS OF WEARING AT EDGE OF DECK	
O	NUMBER OF BEAMS	
P	BEAM SIZE (WIDTH x DEPTH)	

PRE-TEST STRENGTH	GROUT STRENGTH TABLE	
	3 DAY (PSI)	7 DAY (PSI)
JOB CONTROL STRENGTH		
GROUT TYPE & MANUFACTURER		

POST-TENSIONING BAR LENGTH		
BAR	FORMULA	LENGTH
(EVEN)	$\frac{L}{2} + 3'$	
Z	$W + 3'$	
(ODD)	$\frac{L}{2} + 6'$	

BAR	CODE	CALC.	ELONGATION (INCHES)										
			MEASURED										
Z	(E)		NO. 1	NO. 2	NO. 3	NO. 4	NO. 5	NO. 6	NO. 7	NO. 8	NO. 9	NO. 10	
V	(E)												

FINAL POST-TENSIONING FORCE
TYPE Z BARS = 80 KIPS
TYPE V BARS = 40 KIPS

CHECK GUARDRAIL INSERT AND POST TENSION SLEEVE OVERLAP																	
LOCATION FROM END OF BEAM	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
GUARDRAIL INSERT LOCATION																	
POST TENSIONING SLEEVE LOCATION																	

NO SLEEVE ORDINATE SHOULD BE WITHIN 1'-0" OF GUARDRAIL INSERT
IT SHOULD BE VERIFIED BY THE DESIGNER THAT THERE IS NO CONFLICT BETWEEN
THE GUARDRAIL INSERT, POST TENSIONING SLEEVE AND ANY SUBSTRUCTURE UNIT

NO.	REVISION	DATE	BY

WEST VIRGINIA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

DESIGNED (ON)	DATE	CHECKED	DATE
DRAWN	DATE	REVIEWED	DATE

NOT TO SCALE
STANDARD BRIDGE PLANS
**CONCRETE ADJACENT
BOX BEAM NO SKEW**
SHEET NUMBER 3000ER1