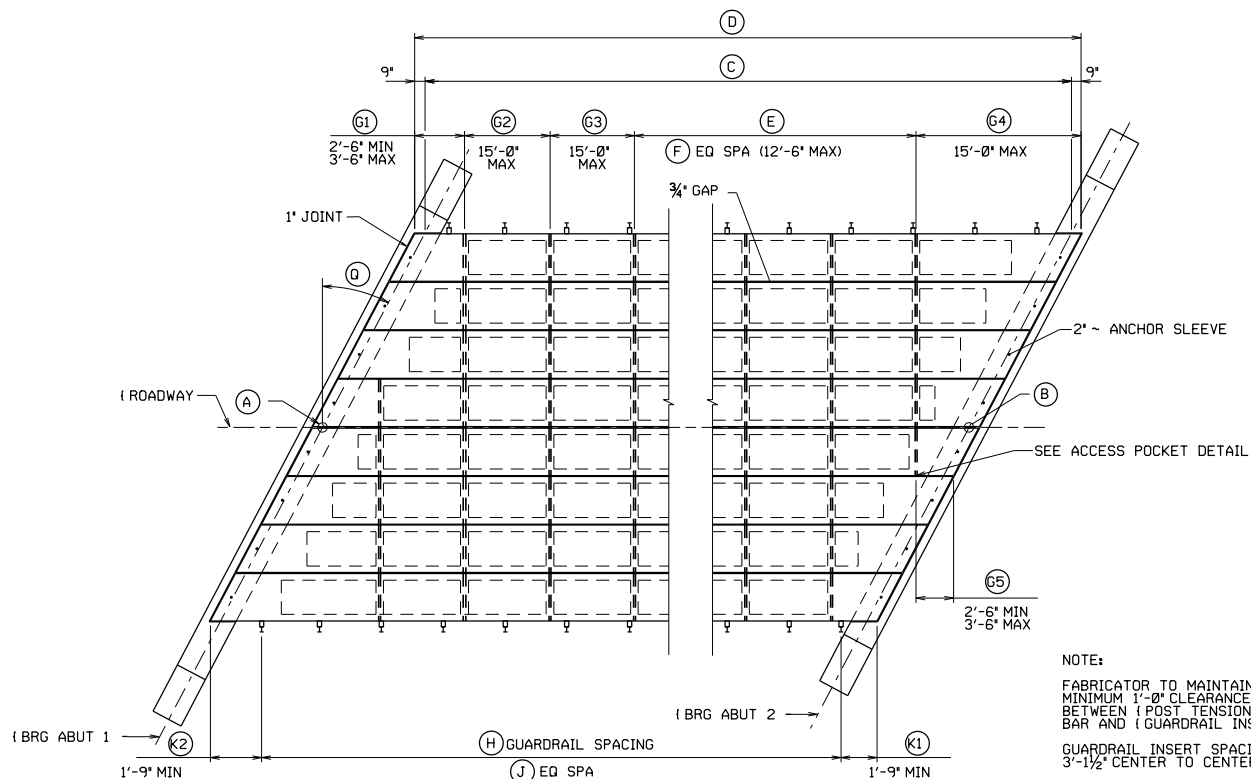
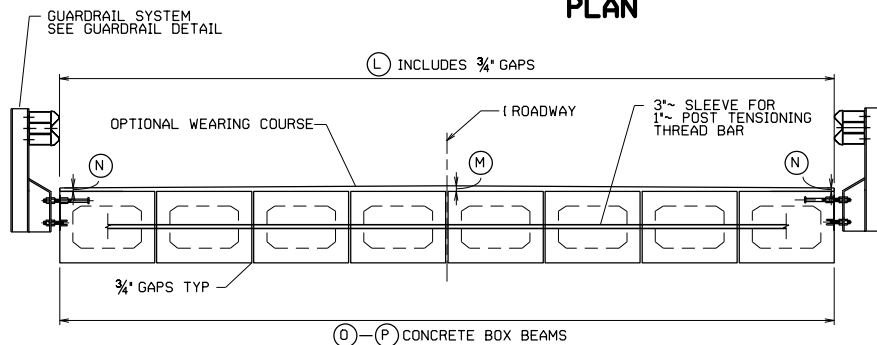


PRINT DATE
14-JUL-2020 06:27



PLAN



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	
G5	LENGTH FROM ACCESS POCKET 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)	
Q	SKEW ANGLE	

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

POST-TENSIONING BAR LENGTH		
BAR	FORMULA	LENGTH
V(EVEN)	$\frac{W}{2} \cdot 3'$	
Z	$W \cdot 3'$	
V(ODD)	$\frac{W}{2} \cdot 4'-6"$	

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

CALCULATED ⊗ = $W \cdot F_T / 24.8$ ODD NO. BEAMS CALCULATED ⊗ = $(W \cdot F_T) / 31 / 99.2$
CALCULATED ⊗ = $W \cdot F_T / 99.2$

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

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
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

				WEST VIRGINIA DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS	DESIGNED	DATE	CHECKED	DATE	
					DRAWN	DATE	REVIEWED	DATE	
NO.	REVISION	DATE	BY						

STANDARD BRIDGE PLANS
CONCRETE ADJACENT
BOX BEAM LF SKEW
SHEET NUMBER 3000ER3

NOT TO SCALE