

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

**STRINGER SW1**

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
⊗ FB 21-21	379+35.57	1.44	32.16	32.16
C	379+45.57	1.42	32.25	32.25
D	379+55.57	1.41	32.34	32.34
⊗ Trunnion	379+65.27	1.40	32.41	32.41
E. Edge of slab	379+71.96	1.39	32.49	32.49

**STRINGER SW2**

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
W. Edge of slab	379+10.95	2.87	32.05	32.05
⊗ Existing G5	379+11.43	2.87	32.05	32.05
A	379+20.20	2.85	32.06	32.06
B	379+30.20	2.84	32.08	32.08
⊗ FB 21-21	379+35.57	2.83	32.13	32.13

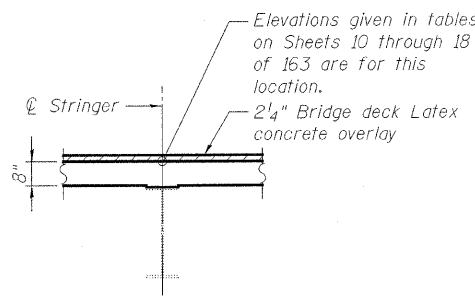
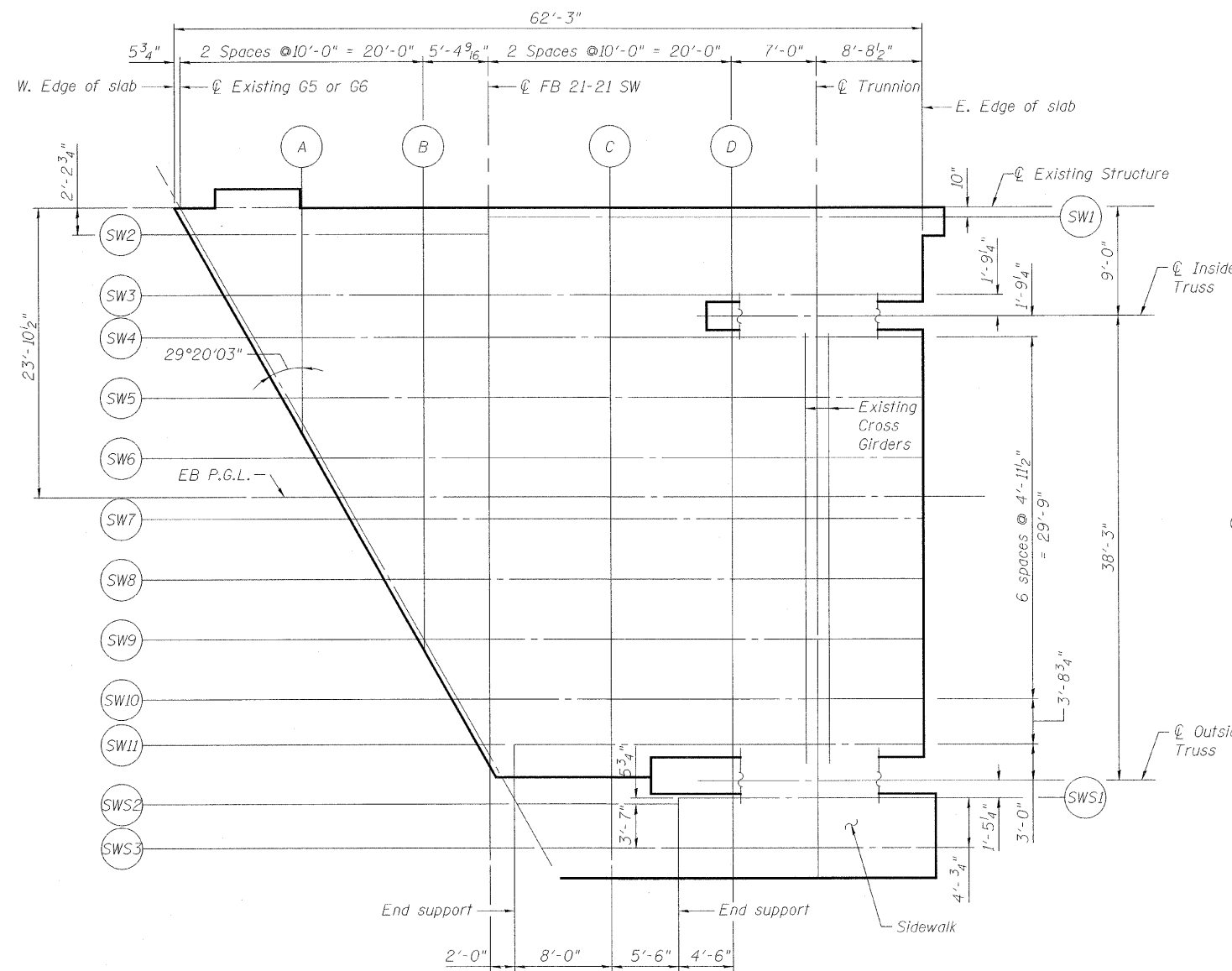
**STRINGER SW3**

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
W. Edge of slab	379+13.76	7.86	31.98	31.98
⊗ Existing G5	379+14.24	7.86	31.98	31.98
A	379+20.20	7.85	32.01	32.01
B	379+30.20	7.84	32.09	32.09
⊗ FB 21-21	379+35.58	7.83	32.14	32.14
C	379+45.58	7.82	32.23	32.23
D	379+55.58	7.81	32.32	32.32
⊗ Trunnion	379+62.58	7.80	32.38	32.38
E. Edge of slab	379+71.30	7.78	32.45	32.45

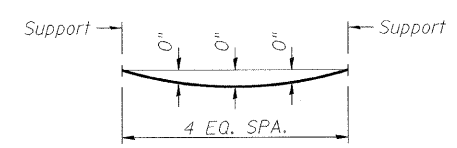
**STRINGER SW4**

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
W. Edge of slab	379+15.76	11.40	32.01	32.01
⊗ Existing G5	379+16.24	11.40	32.01	32.01
A	379+20.21	11.40	32.03	32.03
B	379+30.21	11.38	32.09	32.09
⊗ FB 21-21	379+35.59	11.38	32.14	32.14
C	379+45.59	11.36	32.23	32.23
D	379+55.59	11.35	32.32	32.32
⊗ Trunnion	379+62.59	11.34	32.38	32.38
E. Edge of slab	379+71.31	11.33	32.46	32.46

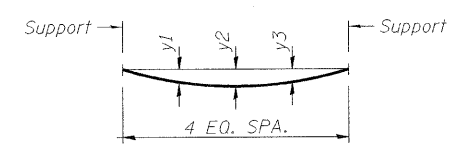
**TOP OF SLAB ELEVATIONS  
SOUTHWEST FIXED SPANS  
STRUCTURE NO. 016-2445**



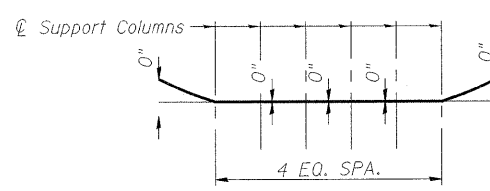
**GRADE ELEVATION POINT**  
(Typical for eastbound and westbound fixed spans)



**FLOORBEAM 21-21 SW**



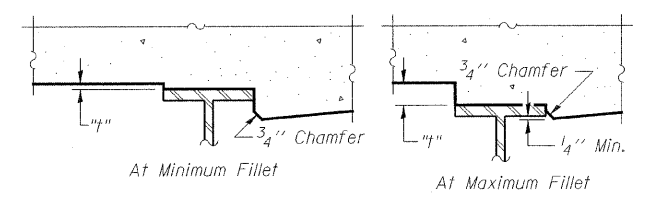
**GIRDERS G5 & G6**



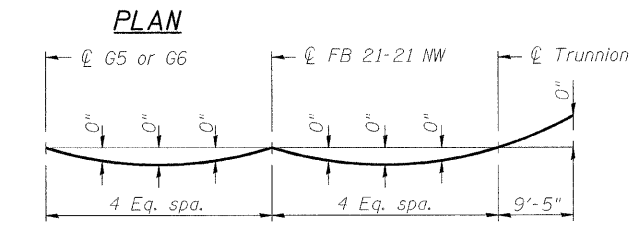
**CROSS GIRDERS  
DEAD LOAD DEFLECTION DIAGRAMS**  
(Includes weight of concrete only.)

Location	G5	G6
y1	0"	0"
y2	0"	1/8"
y3	0"	0"

**DEAD LOAD DEFLECTIONS**



**FILLET HEIGHTS**



**TYP. STRINGERS  
DEAD LOAD DEFLECTION DIAGRAM**  
(Includes weight of concrete only.)

Note:  
The above deflections are not to be used in the field if the engineer is working from the Theoretical grade elevations adjusted for dead load deflections as shown on the right and on sheet 11 of 163.

To determine "f": After all structural steel has been erected, elevations of the top flanges of the beams shall be taken at intervals shown above. These elevations subtracted from the "Theoretical Grade Elevations Adjusted for Dead Load Deflection" shown in the tables, minus slab thickness, equals the fillet heights "f" above top flange of beams.

DESIGNED	A. HAMMAD
CHECKED	J. GRAINAWI
DRAWN	D. C. PATEL
CHECKED	A. HAMMAD

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**PB Americas, Inc.**  
230 WEST MONROE STREET,  
SUITE 900  
CHICAGO, IL. 60606

SHEET NO.	F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
10	389	2424.2B-R	COOK	398	91
163 SHEETS			CONTRACT NO. 60D61		
FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT					