DECK ELEVATIONS

LOCATION			CL BRG. REAR ABUT.	SPAN 1			CL BRG. PIER 1	SPAN 2			CL BRG. PIER 2	SPAN 3			CL BRG. PIER 3	SPAN 4			CL BRG. FWD. ABUT.
				0.25L	0.50L	0.75L		0.25L	0.50L	0.75L		0.25L	0.50L	0.75L		0.25L	0.50L	0.75L	
LEFT FASCIA		STATION	20+86.75	21+01.25	21+15.75	21+30.25	21+44.75	21+65.37	21+86.00	22+06.62	22+27.25	22+47.87	22+68.50	22+89.12	23+09.75	23+24.25	23+38.75	23+53.25	23+67.75
	A	FINAL DECK SURFACE ELEVATION	1103.38	1103.47	1103.56	1103.63	1103.69	1103.76	1103.81	1103.84	1103.84	1103.83	1103.79	1103.74	1103.66	1103.59	1103.53	1103.46	1103.38
	G	DECK DEFLECTION = "G" FROM BEAM 1 *																	
	J	SCREED ELEVATION = A + G *																	
LEFT TOE PARAPET		STATION	20+87.00	21+01.50	21+16.00	21+30.50	21+45.00	21+65.62	21+86.25	22+06.87	22+27.50	22+48.12	22+68.75	22+89.37	23+10.00	23+24.50	23+39.00	23+53.50	23+68.00
	A	FINAL DECK SURFACE ELEVATION	1103.38	1103.47	1103.56	1103.63	1103.69	1103.76	1103.81	1103.84	1103.84	1103.83	1103.79	1103.74	1103.66	1103.59	1103.53	1103.46	1103.38
	G	DECK DEFLECTION = "G" FROM BEAM 1 *																	
	J	SCREED ELEVATION = A + G *																	
BEAM 1		STATION	20+87.14	21+01.64	21+16.14	21+30.64	21+45.14	21+65.77	21+86.39	22+07.02	22+27.64	22+48.27	22+68.89	22+89.52	23+10.14	23+24.64	23+39.14	23+53.64	23+68.14
	A	FINAL DECK SURFACE ELEVATION	1103.40	1103.49	1103.57	1103.65	1103.71	1103.78	1103.83	1103.85	1103.86	1103.85	1103.81	1103.75	1103.67	1103.61	1103.54	1103.47	1103.39
	B	BOTT. OF BEAM 1 FLANGE ELEV. (BEFORE REMOVAL) *																	
	C	BOTT. OF BEAM 1 FLANGE ELEV. (AFTER REMOVAL) *																	
	D	REBOUND = B-C *																	
	E	WEIGHT OF EXIST. DECK (KIP/FT.)	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88
	F	WEIGHT OF PROP. DECK (KIP/FT.)	0.79	0.79	0.79	0.79	0.79	0.79	0.79	0.79	0.79	0.79	0.79	0.79	0.79	0.79	0.79	0.79	0.79
	G	DECK DEFLECTION = D x (F/E) *																	
	H	DECK THICKNESS (FT)	0.71	0.71	0.71	0.71	0.71	0.71	0.71	0.71	0.71	0.71	0.71	0.71	0.71	0.71	0.71	0.71	0.71
	K	TOP OF HAUNCH ELEVATION = A + G - H *																	
BEAM 2		STATION	20+88.25	21+02.75	21+17.25	21+31.75	21+46.25	21+66.88	21+87.50	22+08.13	22+28.75	22+49.38	22+70.00	22+90.63	23+11.25	23+25.75	23+40.25	23+54.75	23+69.25
	A	FINAL DECK SURFACE ELEVATION	1103.53	1103.62	1103.70	1103.77	1103.83	1103.90	1103.95	1103.98	1103.98	1103.96	1103.93	1103.87	1103.79	1103.72	1103.66	1103.59	1103.51
	B	BOTT. OF BEAM 2 FLANGE ELEV. (BEFORE REMOVAL) *																	
	C	BOTT. OF BEAM 2 FLANGE ELEV. (AFTER REMOVAL) *																	
	D	REBOUND = B-C *																	
	E	WEIGHT OF EXIST. DECK (KIP/FT.)	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
	F	WEIGHT OF PROP. DECK (KIP/FT.)	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82
	G	DECK DEFLECTION = D x (F/E) *																	
	H	DECK THICKNESS (FT)	0.71	0.71	0.71	0.71	0.71	0.71	0.71	0.71	0.71	0.71	0.71	0.71	0.71	0.71	0.71	0.71	0.71
	K	TOP OF HAUNCH ELEVATION = A + G - H *																	
BEAM 3		STATION	20+89.36	21+03.86	21+18.36	21+32.86	21+47.36	21+67.99	21+88.61	22+09.24	22+29.86	22+50.49	22+71.11	22+91.74	23+12.36	23+26.86	23+41.36	23+55.86	23+70.36
	A	FINAL DECK SURFACE ELEVATION	1103.65	1103.74	1103.83	1103.90	1103.96	1104.02	1104.07	1104.10	1104.10	1104.08	1104.04	1103.98	1103.90	1103.84	1103.77	1103.70	1103.62
	B	BOTT. OF BEAM 3 FLANGE ELEV. (BEFORE REMOVAL) *																	
	C	BOTT. OF BEAM 3 FLANGE ELEV. (AFTER REMOVAL) *																	
	D	REBOUND = B-C *																	
	E	WEIGHT OF EXIST. DECK (KIP/FT.)	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
	F	WEIGHT OF PROP. DECK (KIP/FT.)	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82
	G	DECK DEFLECTION = D x (F/E) *																	
	H	DECK THICKNESS (FT)	0.71	0.71	0.71	0.71	0.71	0.71	0.71	0.71	0.71	0.71	0.71	0.71	0.71	0.71	0.71	0.71	0.71
	K	TOP OF HAUNCH ELEVATION = A + G - H *																	
CL CONST. S.R. 72		STATION	20+89.36	21+03.86	21+18.36	21+32.86	21+47.36	21+67.99	21+88.61	22+09.24	22+29.86	22+50.49	22+71.11	22+91.74	23+12.36	23+26.86	23+41.36	23+55.86	23+70.36
	A	FINAL DECK SURFACE ELEVATION	1103.65	1103.74	1103.83	1103.90	1103.96	1104.02	1104.07	1104.10	1104.10	1104.08	1104.04	1103.98	1103.90	1103.84	1103.77	1103.70	1103.62
	G	DECK DEFLECTION = "G" FROM BEAM 3 *																	
	J	SCREED ELEVATION = A + G *																	
BEAM 4		STATION	20+90.48	21+04.98	21+19.48	21+33.98	21+48.48	21+69.10	21+89.73	22+10.35	22+30.98	22+51.60	22+72.23	22+92.85	23+13.48	23+27.98	23+42.48	23+56.98	23+71.48
	A	FINAL DECK SURFACE ELEVATION	1103.54	1103.63	1103.71	1103.78	1103.84	1103.91	1103.95	1103.98	1103.98	1103.96	1103.92	1103.86	1103.78	1103.71	1103.65	1103.58	1103.49
	B	BOTT. OF BEAM 4 FLANGE ELEV. (BEFORE REMOVAL) *																	
	C	BOTT. OF BEAM 4 FLANGE ELEV. (AFTER REMOVAL) *																	
	D	REBOUND = B-C *																	
	E	WEIGHT OF EXIST. DECK (KIP/FT.)	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
	F	WEIGHT OF PROP. DECK (KIP/FT.)	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82
	G	DECK DEFLECTION = D x (F/E) *																	
	H	DECK THICKNESS (FT)	0.71	0.71	0.71	0.71	0.71	0.71	0.71	0.71	0.71	0.71	0.71	0.71	0.71	0.71	0.71	0.71	0.71
	K	TOP OF HAUNCH ELEVATION = A + G - H *																	
BEAM 5		STATION	20+91.59	21+06.09	21+20.59	21+35.09	21+49.59	21+70.21	21+90.84	22+11.46	22+32.09	22+52.71	22+73.34	22+93.96	23+14.59	23+29.09	23+43.59	23+58.09	23+72.59
	A	FINAL DECK SURFACE ELEVATION	1103.43	1103.52	1103.60	1103.67	1103.73	1103.79	1103.83	1103.86	1103.86	1103.84	1103.80	1103.74	1103.65	1103.59	1103.52	1103.45	1103.37
	B	BOTT. OF BEAM 5 FLANGE ELEV. (BEFORE REMOVAL) *																	
	C	BOTT. OF BEAM 5 FLANGE ELEV. (AFTER REMOVAL) *																	
	D	REBOUND = B-C *																	
	E	WEIGHT OF EXIST. DECK (KIP/FT.)	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88
	F	WEIGHT OF PROP. DECK (KIP/FT.)	0.79	0.79	0.79	0.79	0.79	0.79	0.79	0.79	0.79	0.79	0.79	0.79	0.79	0.79	0.79	0.79	0.79
	G	DECK DEFLECTION = D x (F/E) *																	
	H	DECK THICKNESS (FT)	0.71	0.71	0.71	0.71	0.71	0.71	0.71	0.71	0.71	0.71	0.71	0.71	0.71	0.71	0.71	0.71	0.71
	K	TOP OF HAUNCH ELEVATION = A + G - H *																	
RIGHT TOE PARAPET		STATION	20+91.73	21+06.23	21+20.73	21+35.23	21+49.73	21+70.36	21+90.98	22+11.61	22+32.23	22+52.86	22+73.48	22+94.11	23+14.73	23+29.23	23+43.73	23+58.23	23+72.73
	A	FINAL DECK SURFACE ELEVATION	1103.41	1103.50	1103.58	1103.65	1103.71	1103.77	1103.82	1103.84	1103.84	1103.82	1103.78	1103.72	1103.64	1103.57	1103.50	1103.43	1103.35
	G	DECK DEFLECTION = "G" FROM BEAM 5 *																	
	J	SCREED ELEVATION = A + G *																	
RIGHT FASCIA		STATION	20+91.98	21+06.48	21+20.98	21+35.48	21+49.98	21+70.61	21+91.23	22+11.86	22+32.48	22+53.11	22+73.73	22+94.36	23+14.98	23+29.48	23+43.98	23+58.48	23+72.98
	A	FINAL DECK SURFACE ELEVATION	1103.41	1103.50	1103.58	1103.65	1103.71	1103.78	1103.82	1103.84	1103.84	1103.82	1103.78	1103.72	1103.64	1103.57	1103.50	1103.43	1103.35
	G	DECK DEFLECTION = "G" FROM BEAM 5 *																	
	J	SCREED ELEVATION = A + G *																	

DECK ELEVATION PROCEDURE

1. THE CONTRACTOR SHALL ESTABLISH THE SCREED AND TOP OF HAUNCH ELEVATIONS USING THE INFORMATION PROVIDED AND UTILIZING THE PROCEDURE OUTLINED BELOW.

2. THE CONTRACTOR SHALL SURVEY THE BOTTOM OF EACH EXISTING BEAM AT EACH ABUTMENT BEARING, PIER BEARING, AND SPAN QUARTER POINTS. THE SURVEY SHALL BE PERFORMED BEFORE REMOVAL OF THE EXISTING CONCRETE DECK AND PRIOR TO JACKING OF THE BRIDGE. THE SURVEYED ELEVATIONS SHALL BE RECORDED IN THE TABLE UNDER ROW "B" FOR EACH BEAM LINE.

3. AFTER THE CONCRETE DECK IS REMOVED AND BEFORE THE BRIDGE IS JACKED OR RAISED, THE CONTRACTOR SHALL SURVEY THE SAME POINTS AND RECORD THESE ELEVATIONS IN THE TABLE UNDER ROW "C".

4. THE CONTRACTOR SHALL THEN USE THE FORMULAS AND INFORMATION IN THE TABLE TO CALCULATE THE REQUIRED SCREED AND TOP OF HAUNCH ELEVATIONS.

NOTES

1. SEE SHEET 17 23 FOR DECK ELEVATION LOCATION SCHEMATICS.

2. SCREED ELEVATIONS REPRESENT THE THEORETICAL DECK SURFACE LOCATION PRIOR TO DEFLECTIONS CAUSED BY DECK PLACEMENT AND OTHER ANTICIPATED DEAD LOADS.

3. TOP OF HAUNCH ELEVATIONS REPRESENT THE THEORETICAL LOCATION OF THE BOTTOM OF THE DECK ABOVE THE BEAM/GIRDER HAUNCH PRIOR TO DEFLECTIONS CAUSED BY DECK PLACEMENT AND OTHER ANTICIPATED DEAD LOADS.

4. FINAL DECK SURFACE ELEVATIONS SHOWN REPRESENT THE DECK SURFACE LOCATION AFTER ALL ANTICIPATED DEAD LOAD DEFLECTIONS HAVE OCCURRED.

LEGEND

* - ROW TO BE COMPLETED BY CONTRACTOR

DECK ELEVATIONS
BRIDGE NO. GRE-00072-00.290
S.R. 72 OVER I.R. 71

SFN 2901838

DESIGN AGENCY
Palmer ENGINEERING
8350 EAST KEMPER ROAD
SUITE B
CINCINNATI, OH 45249
(513) 469-1600

DESIGNER	CHECKER
TES	AT/VD

REVIEWER BJF 10/10/24

PROJECT ID 112979

SUBSET	TOTAL
18	23

SHEET	TOTAL
P.56	61

GRE-71/72-1.50/0.29

MODEL: Sheet - Copy-1 PAPERSIZE: 34x22 (in.) DATE: 1/27/2025 TIME: 10:25:40 AM USER: scott-w
pw:\\pewinpw04.pewin.private.palmernet.com:Palmer Engineering\Documents\Ohio\ODOT\D8\GRE\112979\400-Engineering\Structures\SFN_2901838\Sheets\112979_SFN2901838_SS002.dgn