

DECK SCREED ELEVATION TABLE

ELEVATION LOCATION	SPAN 1				SPAN 2				SPAN 3				SPAN 4				
	℄ BEARING REAR ABUT.	1/4 SPAN	1/2 SPAN	3/4 SPAN	℄ PIER 1	1/4 SPAN	1/2 SPAN	3/4 SPAN	℄ PIER 2	1/4 SPAN	1/2 SPAN	3/4 SPAN	℄ PIER 3	1/4 SPAN	1/2 SPAN	3/4 SPAN	℄ BEARING FWD ABUT.
LEFT GUTTER FINAL TOP DECK EL.	825.44	825.31	825.17	825.02	824.86	824.61	824.34	824.05	823.73	823.40	823.03	822.65	822.25	821.99	821.73	821.46	821.19
LEFT GUTTER DECK SCREED EL.	825.44	825.33	825.20	825.03	824.86	824.65	824.41	824.08	823.73	823.43	823.66	822.68	822.25	821.99	821.74	821.48	821.19
BEAM A																	
FINAL TOP DECK EL.	825.45	825.32	825.18	825.03	824.87	824.62**	824.35	824.06	823.74	823.40**	823.04	822.66**	822.26	822.00	821.74	821.47	821.19
DECK SCREED EL.	825.45	825.35	825.22	825.05	824.87	824.67**	824.43	824.10	823.74	823.45**	823.68	822.70**	822.26	822.00	821.76	821.49	821.19
BEAM B																	
*EL. AFTER DECK REMOVAL	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
*EL. BEFORE DECK REMOVAL	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
SURVEYED REBOUND	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
ADJUSTED REBOUND Δ	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
FINAL TOP DECK EL.	825.52	825.39	825.25	825.10	824.94	824.68	824.41	824.11	823.80	823.45	823.09	822.71	822.30	822.05	821.78	821.51	821.23
DECK SCREED EL.	825.52				824.94				823.80				822.30				821.23
BEAM C																	
*EL. AFTER DECK REMOVAL	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
*EL. BEFORE DECK REMOVAL	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
SURVEYED REBOUND	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
ADJUSTED REBOUND Δ	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
FINAL TOP DECK EL.	825.61	825.48	825.34	825.19	825.02	824.76	824.48	824.18	823.86	823.52	823.15	822.76	822.35	822.10	821.83	821.56	821.27
DECK SCREED EL.	825.61				825.02				823.86				822.35				821.27
BEAM D																	
*EL. AFTER DECK REMOVAL	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
*EL. BEFORE DECK REMOVAL	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
SURVEYED REBOUND	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
ADJUSTED REBOUND Δ	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
FINAL TOP DECK EL.	825.70	825.56	825.42	825.26	825.10	824.84	824.56	824.25	823.93	823.58	823.21	822.82	822.41	822.15	821.88	821.60	821.32
DECK SCREED EL.	825.70				825.10				823.93				822.41				821.32
BEAM E																	
*EL. AFTER DECK REMOVAL	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
*EL. BEFORE DECK REMOVAL	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
SURVEYED REBOUND	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
ADJUSTED REBOUND Δ	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
FINAL TOP DECK EL.	825.55	825.42	825.27	825.11	824.94	824.68	824.40	824.09	823.76	823.41	823.04	822.64	822.23	821.96	821.69	821.41	821.13
DECK SCREED EL.	825.55				824.94				823.76				822.23				821.13
BEAM F																	
*EL. AFTER DECK REMOVAL	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
*EL. BEFORE DECK REMOVAL	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
SURVEYED REBOUND	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
ADJUSTED REBOUND Δ	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
FINAL TOP DECK EL.	825.41	825.27	825.12	824.96	824.79	824.52	824.23	823.92	823.59	823.24	822.86	822.46	822.04	821.78	821.51	821.23	820.94
DECK SCREED EL.	825.41				824.79				823.59				822.04				820.94
BEAM G																	
FINAL TOP DECK EL.	825.29	825.15	825.00	824.83	824.66	824.39**	824.10	823.79	823.45	823.10**	822.72	822.32**	821.90	821.63	821.36	821.08	820.79
DECK SCREED EL.	825.29	825.18	825.03	824.85	824.66	824.44**	824.18	823.83	823.45	823.14**	822.81	822.36**	821.90	821.63	821.37	821.09	820.79
RIGHT GUTTER FINAL TOP DECK EL.	825.27	825.13	824.98	824.81	824.64	824.37	824.08	823.77	823.43	823.07	822.70	822.30	821.87	821.61	821.33	821.05	820.76
RIGHT GUTTER DECK SCREED EL.	825.27	825.16	825.01	824.83	824.64	824.42	824.16	823.81	823.43	823.07	822.70	822.30	821.87	821.61	821.34	821.06	820.76

* SURVEYED BOTTOM OF BEAM ELEVATION DURING CONSTRUCTION
 ** ELEVATIONS AT FIELD SPLICES FOR BEAM A & G ONLY
 Δ ADJUSTED REBOUND FOR BEAMS B AND F = SURVEYED REBOUND x 0.872
 Δ ADJUSTED REBOUND FOR BEAMS C, D AND E = SURVEYED REBOUND x 0.895
 Δ Δ RATIO OF PROPOSED DEAD LOAD TO EXISTING DEAD LOAD

EXISTING DEAD LOAD : 8 1/2" CONCRETE DECK AND 3" ASPHALT RESURFACING HAVE BEEN ASSUMED IN THE CALCULATIONS.
 PROPOSED DEAD LOAD : 8 1/2" CONCRETE DECK AND 3 1/2" AVERAGE HAUNCH THICKNESS HAVE BEEN ASSUMED IN CALCULATIONS.

ANTICIPATED DECK SLAB DEPTHS (INCHES)

LOCATION	SPAN 1				SPAN 2				SPAN 3				SPAN 4				
	℄ BEARING REAR ABUT.	1/4 SPAN	1/2 SPAN	3/4 SPAN	℄ BEARING PIER 1	1/4 SPAN	1/2 SPAN	3/4 SPAN	℄ BEARING PIER 2	1/4 SPAN	1/2 SPAN	3/4 SPAN	℄ BEARING PIER 3	1/4 SPAN	1/2 SPAN	3/4 SPAN	℄ BEARING FWD ABUT.
BEAM A	10 1/2	10 1/2	10 1/2	10 1/2	10 1/2	10 1/2	10 1/2	10 1/2	10 1/2	10 1/2	10 1/2	10 1/2	10 1/2	10 1/2	10 1/2	10 1/2	10 1/2
BEAM B	12 7/8±	12 1/2±	12±	11 1/2±	11 7/8±	12 1/4±	12 3/8±	12 3/4±	12 1/2±	13±	11 7/8±	12 7/8±	12 3/4±	13 1/4±	13 1/2±	13 1/2±	13 5/8±
BEAM C	12 5/8±	12 3/8±	12 1/2±	12 3/8±	12±	11 5/8±	12 1/8±	12±	12 1/2±	12 5/8±	12 7/8±	12 1/2±	13 1/2±	13 1/8±	13 3/8±	13 1/2±	13 1/2±
BEAM D	12 7/8±	12 7/8±	12 7/8±	12 1/2±	12 1/4±	11 7/8±	12±	12 1/4±	12 1/2±	12 7/8±	13 7/8±	12 7/8±	13 1/4±	13 3/8±	13 1/2±	13 5/8±	13 5/8±
BEAM E	12 3/4±	12 1/2±	12 7/8±	12 5/8±	12 3/8±	11 7/8±	12±	12 1/8±	11 7/8±	12 7/8±	13 1/4±	12 1/4±	13 1/8±	13 1/8±	13 1/2±	13 5/8±	13 5/8±
BEAM F	13±	12 3/4±	12 7/8±	12 3/4±	12 1/2±	12 1/8±	12±	12±	12±	12 1/2±	12 7/8±	12 1/4±	13 3/8±	12 3/4±	13 3/8±	13 3/8±	13 1/8±
BEAM G	10 1/2	10 1/2	10 1/2	10 1/2	10 1/2	10 1/2	10 1/2	10 1/2	10 1/2	10 1/2	10 1/2	10 1/2	10 1/2	10 1/2	10 1/2	10 1/2	10 1/2

DEPTHS SHOWN ARE FROM TOP OF DECK TO TOP OF BEAM FLANGE

SCREED ELEVATIONS:

(FIELD PROCEDURES DURING CONSTRUCTION)

1. SURVEY BOTTOM OF BEAM ELEVATIONS AT THE LOCATIONS SHOWN IN THE TABLE FOR EXISTING BEAMS "E" AND "F" PRIOR TO DECK REMOVAL AND AFTER PHASE 1 DECK REMOVAL.
2. COMPUTE THE AMOUNT OF SURVEYED REBOUND FOR BEAMS "E" AND "F" BY SUBTRACTING THE ELEVATIONS AFTER REMOVAL FROM THE ELEVATIONS BEFORE REMOVAL.
3. COMPUTE ADJUSTED REBOUND FOR BEAM "E" AND "F" BY MULTIPLYING SURVEYED REBOUND BY RATIO OF THE PROPOSED DEAD LOAD TO EXISTING DEAD LOAD.
4. ADD THE AMOUNT OF ADJUSTED REBOUND TO THE FINAL TOP OF DECK ELEVATIONS TO OBTAIN THE DECK SCREED ELEVATIONS.
5. REPEAT STEPS 1, 2, 3 AND 4 FOR EXISTING BEAMS "B", "C" AND "D" PRIOR TO AND AFTER PHASE 2 DECK REMOVAL AND AFTER PHASE 1 DECK REPLACEMENT.
6. SCREED ELEVATIONS SHOWN FOR LEFT & RIGHT GUTTERS AND NEW BEAMS "A" & "G" HAVE BEEN CALCULATED WITH ALLOWANCE FOR DEAD LOAD DEFLECTIONS.

NOTES:

1. DECK SLAB DEPTH: THE DISTANCE SHOWN FROM TOP OF DECK SLAB TO TOP OF STEEL BEAM IS THE THEORETICAL DESIGN DIMENSION INCLUDING THE DESIGN HAUNCH THICKNESS OF 3 1/2 INCHES. THE QUANTITY OF DECK CONCRETE TO BE PAID FOR SHALL BE BASED ON THIS DIMENSION, MINUS THE DESIGN HAUNCH THICKNESS, EVEN THOUGH DEVIATION FROM IT MAY BE NECESSARY BECAUSE THE TOP FLANGE OF THE BEAM MAY NOT HAVE THE EXACT CAMBER OR CONFORMATION REQUIRED TO PLACE IT PARALLEL TO THE FINISHED GRADE.
2. A HAUNCH WIDTH OF 9 INCHES SHALL BE USED FOR COMPUTING QUANTITY OF CONCRETE. HOWEVER, THE HAUNCH WIDTH MAY VARY BETWEEN 6 AND 12 INCHES.
3. DRIP GROOVES SHALL TERMINATE 2"-0" FROM THE FACES OF ABUTMENTS.
4. FOR PHASE CONSTRUCTION DETAILS SEE SHEET **7-24** AND ROADWAY PLANS.
5. COST OF SURVEYING IS CONSIDERED INCIDENTAL TO DECK CONSTRUCTION AND IS INCLUDED WITH ITEM 844, HIGH PERFORMANCE CONCRETE, SUPERSTRUCTURE (DECK) FOR PAYMENT.

DESIGN AGENCY
 THE OSBORN ENGINEERING COMPANY
 688 EUCLID AVENUE
 CLEVELAND, OHIO 44114

DATE
 10/95
 REVIEWED
 CA
 STRUCTURE FILE NUMBER
 4305019

DRAWN
 VM
 DESIGNED
 BK
 CHECKED
 JRS

DECK SCREED ELEVATIONS AND
 ANTICIPATED DECK SLAB DEPTH
 BRIDGE NO. LAK-90-2687
 OVER INTERSTATE I-90

LAK-90-26.87

20/24

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