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ELEVATIONS AT SPANDREL BENTS															
								ESP. ASSOCIATES, P.A SURVEY DATA		ESTIMATED ELEVATION FOLLOWING SUPERSTRUCTURE REMOVAL		ESTIMATED FINAL IN PLACE ELEVATION		ESTIMATED FINAL COLUMN HEIGHT	
SPANDREL BENT	STATION	ELEV. AT -L.L.T-	ELEV. A	ELEV. B	ELEV. C	ELEV. D	ELEV. E	ELEV. F	ELEV. G	ELEV. F	ELEV. G	ELEV. F	ELEV. G	DIM. H	DIM. I
C1	336+78.74	326.10	322.16	322.39	322.61	322.84	319.16	298.43	298.50	298.43	298.50	298.43	298.50	20'-8 ³ / ₄ "	20'-7 ⁷ / ₈ "
C2	336+95.40	326.05	322.11	322.34	322.56	322.79	319.11	305.68	305.66	305.69	305.67	305.69	305.67	13'-5 ¹ / ₈ "	13'-5 ³ / ₈ "
C3	337+12.07	326.00	322.06	322.29	322.51	322.74	319.06	311.07	311.05	311.10	311.08	311.08	311.05	7'-11 ¹³ / ₁₆ "	8'-0 ¹ / ₁₆ "
C4	337+28.74	325.95	322.01	322.24	322.46	322.69	319.01	314.20	314.19	314.23	314.22	314.20	314.19	4'-9 ³ / ₄ "	4'-9 ⁷ / ₈ "
C5	337+45.40	325.90	321.96	322.19	322.41	322.64	318.96	315.80	315.79	315.83	315.82	315.79	315.78	3'-2 ¹ / ₁₆ "	3'-2 ³ / ₁₆ "
C6	337+62.07	325.85	321.91	322.14	322.36	322.59	318.91	316.49	316.50	316.52	316.53	316.47	316.48	2'-5 ¹ / ₄ "	2'-5 ³ / ₁₆ "
C7	337+78.74	325.80	321.86	322.09	322.31	322.54	318.86	315.78	315.72	315.81	315.75	315.77	315.70	3'-1 ¹ / ₈ "	3'-1 ⁷ / ₈ "
C8	337+95.40	325.75	321.81	322.04	322.26	322.49	318.81	314.16	314.15	314.19	314.18	314.15	314.14	4'-7 ⁷ / ₈ "	4'-8 ¹ / ₁₆ "
C9	338+12.07	325.70	321.76	321.99	322.21	322.44	318.76	310.99	310.98	311.02	311.01	310.99	310.98	7'-9 ¹ / ₄ "	7'-9 ³ / ₈ "
C10	338+28.74	325.65	321.71	321.94	322.16	322.39	318.71	305.65	305.65	305.66	305.66	305.65	305.65	13'-0 ¹¹ / ₁₆ "	13'-0 ¹¹ / ₁₆ "
C11	338+45.40	325.60	321.66	321.89	322.11	322.34	318.66	298.45	298.47	298.45	298.47	298.45	298.47	20'-2 ¹ / ₂ "	20'-2 ⁵ / ₁₆ "
D1	338+88.74	325.47	321.53	321.76	321.98	322.21	318.53	298.39	298.47	298.39	298.47	298.39	298.47	20'-1 ⁵ / ₈ "	20'-0 ¹¹ / ₁₆ "
D2	339+05.41	325.42	321.48	321.71	321.93	322.16	318.48	305.60	305.62	305.61	305.63	305.61	305.63	12'-10 ¹ / ₂ "	12'-10 ¹ / ₄ "
D3	339+22.07	325.37	321.43	321.66	321.88	322.11	318.43	311.01	311.00	311.04	311.03	311.01	311.00	7'-5"	7'-5 ³ / ₁₆ "
D4	339+38.74	325.32	321.38	321.61	321.83	322.06	318.38	314.03	314.04	314.06	314.07	314.03	314.03	4'-4 ¹ / ₄ "	4'-4 ³ / ₁₆ "
D5	339+55.41	325.27	321.33	321.56	321.78	322.01	318.33	315.68	315.73	315.71	315.76	315.68	315.72	2'-7 ⁷ / ₈ "	2'-7 ⁵ / ₁₆ "
D6	339+72.07	325.22	321.28	321.51	321.73	321.96	318.28	316.47	316.52	316.50	316.55	316.46	316.51	1'-9 ⁷ / ₈ "	1'-9 ⁵ / ₁₆ "
D7	339+88.74	325.17	321.23	321.46	321.68	321.91	318.23	315.77	315.78	315.80	315.81	315.76	315.77	2'-5 ¹¹ / ₁₆ "	2'-5 ⁹ / ₁₆ "
D8	340+05.41	325.12	321.18	321.41	321.63	321.86	318.18	314.22	314.22	314.25	314.25	314.20	314.20	3'-11 ³ / ₄ "	3'-11 ³ / ₄ "
D9	340+22.07	325.07	321.13	321.36	321.58	321.81	318.13	311.04	311.01	311.07	311.04	311.03	311.00	7'-1 ³ / ₁₆ "	7'-1 ⁹ / ₁₆ "
D10	340+38.74	325.02	321.08	321.31	321.53	321.76	318.08	305.66	305.67	305.67	305.68	305.66	305.67	12'-5 ¹ / ₁₆ "	12'-5"
D11	340+55.41	324.97	321.03	321.26	321.48	321.71	318.03	298.40	298.47	298.40	298.47	298.40	298.47	19'-7 ⁹ / ₁₆ "	19'-6 ³ / ₄ "
E1	340+98.74	324.84	320.90	321.13	321.35	321.58	317.90	298.54	298.59	298.54	298.59	298.54	298.59	19'-4 ³ / ₈ "	19'-3 ³ / ₄ "
E2	341+15.41	324.79	320.85	321.08	321.30	321.53	317.85	305.71	305.78	305.72	305.79	305.71	305.78	12'-1 ¹¹ / ₁₆ "	12'-0 ⁷ / ₈ "
E3	341+32.07	324.74	320.80	321.03	321.25	321.48	317.80	310.74	311.10	310.77	311.13	310.73	311.09	7'-0 ¹³ / ₁₆ "	6'-8 ¹ / ₂ "
E4	341+48.74	324.69	320.75	320.98	321.20	321.43	317.75	314.17	314.14	314.20	314.17	314.16	314.13	3'-7 ¹ / ₈ "	3'-7 ¹ / ₂ "
E5	341+65.41	324.64	320.70	320.93	321.15	321.38	317.70	315.71	315.70	315.74	315.73	315.70	315.69	2'-0"	2'-0 ¹ / ₈ "
E6	341+82.07	324.59	320.65	320.88	321.10	321.33	317.65	316.44	316.41	316.47	316.44	316.43	316.40	1'-2 ¹¹ / ₁₆ "	1'-3 ¹ / ₁₆ "
E7	341+98.74	324.54	320.60	320.83	321.05	321.28	317.60	315.75	315.73	315.78	315.76	315.75	315.72	1'-10 ¹ / ₄ "	1'-10 ⁹ / ₁₆ "
E8	342+15.41	324.49	320.55	320.78	321.00	321.23	317.55	314.18	314.15	314.21	314.18	314.18	314.15	3'-4 ¹ / ₂ "	3'-4 ⁷ / ₈ "
E9	342+32.07	324.44	320.50	320.73	320.95	321.18	317.50	311.10	311.04	311.13	311.07	311.10	311.04	6'-4 ¹³ / ₁₆ "	6'-5 ¹ / ₂ "
E10	342+48.74	324.39	320.45	320.68	320.90	321.13	317.45	305.71	305.70	305.72	305.71	305.72	305.71	11'-8 ¹³ / ₁₆ "	11'-8 ¹⁵ / ₁₆ "
E11	342+65.41	324.34	320.40	320.63	320.85	321.08	317.40	298.47	298.50	298.47	298.50	298.47	298.50	18'-11 ¹ / ₈ "	18'-10 ¹³ / ₁₆ "
F1	343+08.74	324.21	320.27	320.50	320.72	320.95	317.27	298.44	298.50	298.44	298.50	298.44	298.50	18'-9 ⁵ / ₁₆ "	18'-9 ¹ / ₄ "
F2	343+25.41	324.16	320.22	320.45	320.67	320.90	317.22	305.59	305.62	305.60	305.63	305.59	305.62	11'-7 ⁹ / ₁₆ "	11'-7 ³ / ₁₆ "
F3	343+42.07	324.11	320.17	320.40	320.62	320.85	317.17	310.92	310.93	310.95	310.96	310.92	310.93	6'-3"	6'-2 ¹⁵ / ₁₆ "
F4	343+58.74	324.06	320.12	320.35	320.57	320.80	317.12	314.05	314.11	314.08	314.14	314.05	314.10	3'-0 ¹⁵ / ₁₆ "	3'-0 ³ / ₁₆ "
F5	343+75.41	324.01	320.07	320.30	320.52	320.75	317.07	315.70	315.73	315.73	315.76	315.69	315.72	1'-4 ⁵ / ₈ "	1'-4 ⁵ / ₁₆ "
F6	343+92.07	323.96	320.02	320.25	320.47	320.70	317.02	316.51	316.47	316.54	316.50	316.49	316.45	6 ⁵ / ₁₆ "	6 ¹³ / ₁₆ "
F7	344+08.74	323.91	319.97	320.20	320.42	320.65	316.97	315.81	315.76	315.84	315.79	315.80	315.75	1'-2 ¹ / ₁₆ "	1'-2 ¹¹ / ₁₆ "
F8	344+25.41	323.86	319.92	320.15	320.37	320.60	316.92	314.18	314.16	314.21	314.19	314.18	314.16	2'-8 ¹⁵ / ₁₆ "	2'-9 ³ / ₁₆ "
F9	344+42.07	323.81	319.87	320.10	320.32	320.55	316.87	311.00	310.98	311.03	311.01	311.00	310.98	5'-10 ⁷ / ₁₆ "	5'-10 ¹¹ / ₁₆ "
F10	344+58.74	323.76	319.82	320.05	320.27	320.50	316.82	305.65	305.68	305.66	305.69	305.66	305.69	11'-2"	11'-1 ⁵ / ₈ "
F11	344+75.41	323.71	319.77	320.00	320.22	320.45	316.77	298.48	298.50	298.48	298.50	298.48	298.50	18'-3 ⁷ / ₁₆ "	18'-3 ¹ / ₄ "

NOTES:

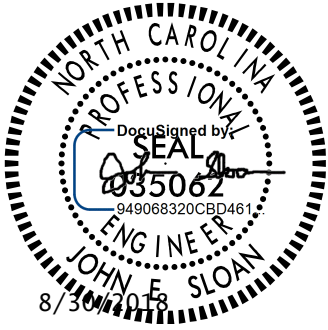
1. CONTRACTOR SHALL EXERCISE GEOMETRIC CONTROL OF THE STRUCTURE BY APPROPRIATELY EVALUATING AND MONITORING THE GEOMETRY THROUGHOUT THE DEMOLITION AND CONSTRUCTION SEQUENCE.
2. SURVEY DATA REQUIRED TO BE SUBMITTED CONSTITUTES THE MINIMUM REQUIREMENT FOR THE EXERCISE OF GEOMETRIC CONTROL OF THE STRUCTURE. CONTRACTOR SHALL TAKE ADDITIONAL SURVEY DATA REQUIRED, IF NECESSARY, TO PROPERLY CONSTRUCT THE STRUCTURE TO THE PROPOSED GEOMETRY.
3. THE ELEVATIONS AND DIMENSIONS SHOWN ON THIS SHEET ARE BASED ON THE LASER SURVEY PERFORMED BY ESP ASSOCIATES DATED 2/16/2017, 3/16/2017, AND 3/22/2017. TEMPERATURE AT THE TIME OF THE SURVEY HAS BEEN ASSUMED TO BE 50 DEGREES FAHRENHEIT.
4. CONTRACTOR SHALL SURVEY THE ELEVATIONS OF THE TOP OF THE SPANDREL BENT PEDESTALS AND THE ARCH RIB EXTRADOS AT THE SPANDREL BENT CONTROL LINE. THIS SURVEY SHALL BE CONDUCTED FOLLOWING THE REMOVAL OF THE EXISTING SUPERSTRUCTURE AND SPANDREL BENTS, BUT PRIOR TO CONSTRUCTING THE PROPOSED SPANDREL COLUMNS. THE DATE OF THE SURVEY AND THE AMBIENT TEMPERATURE DURING THE SURVEY SHALL BE NOTED WITH THE ELEVATIONS. CONTRACTOR SHALL ADJUST THE HEIGHT OF THE SPANDREL COLUMNS BASED ON THE REVISED SURVEY ELEVATIONS, AS DIRECTED BY THE ENGINEER. SURVEY SHALL BE SEALED BY A SURVEYOR LICENSED IN NORTH CAROLINA.
5. AT SPANDREL BENTS 1 THRU 4 AND 8 THRU 11, ELEVATIONS F AND G REFER TO THE TOP OF THE PEDESTAL. AT SPANDREL BENTS 5 THRU 7, ELEVATIONS F AND G REFER TO THE ARCH RIB EXTRADOS AT THE SPANDREL BENT CONTROL LINE.
6. AT SPANDREL BENTS 1-4 AND 8-11, DIMENSIONS H AND I REFER TO THE COLUMN HEIGHT FROM THE TOP OF THE PEDESTAL TO THE SOFFIT OF THE CAP. AT SPANDREL BENTS 5-7, DIMENSIONS H AND I REFER TO THE COLUMN HEIGHT FROM THE ARCH RIB EXTRADOS AT THE SPANDREL BENT CONTROL LINE TO THE SOFFIT OF THE CAP.
7. FOR ADDITIONAL DETAILS REGARDING THE SPANDREL BENT DEMOLITION, SEE SPANDREL BENT DEMOLITION SHEET.
8. FOR ADDITIONAL SURVEY REQUIREMENTS AT THE ARCH RIBS AND SPANDREL BENTS, SEE DEAD LOAD DEFLECTIONS SHEET.

PROJECT NO. B-4974

STANLY/MONTGOMERY COUNTY

STATION: 339+86.39 -L-

SHEET 4 OF 6



DRAWN BY : K.M. DONALD DATE : 05/2018

CHECKED BY : J.E. SLOAN DATE : 05/2018

DESIGNED BY : K.M. DONALD DATE : 05/2018

DESIGN CHECKED BY : J.E. SLOAN DATE : 05/2018

DOCUMENT NOT CONSIDERED
FINAL UNLESS ALL
SIGNATURES COMPLETED

REVISIONS						SHEET NO. S-88
NO.	BY:	DATE:	NO.	BY:	DATE:	
1			3			TOTAL SHEETS 148
2			4			