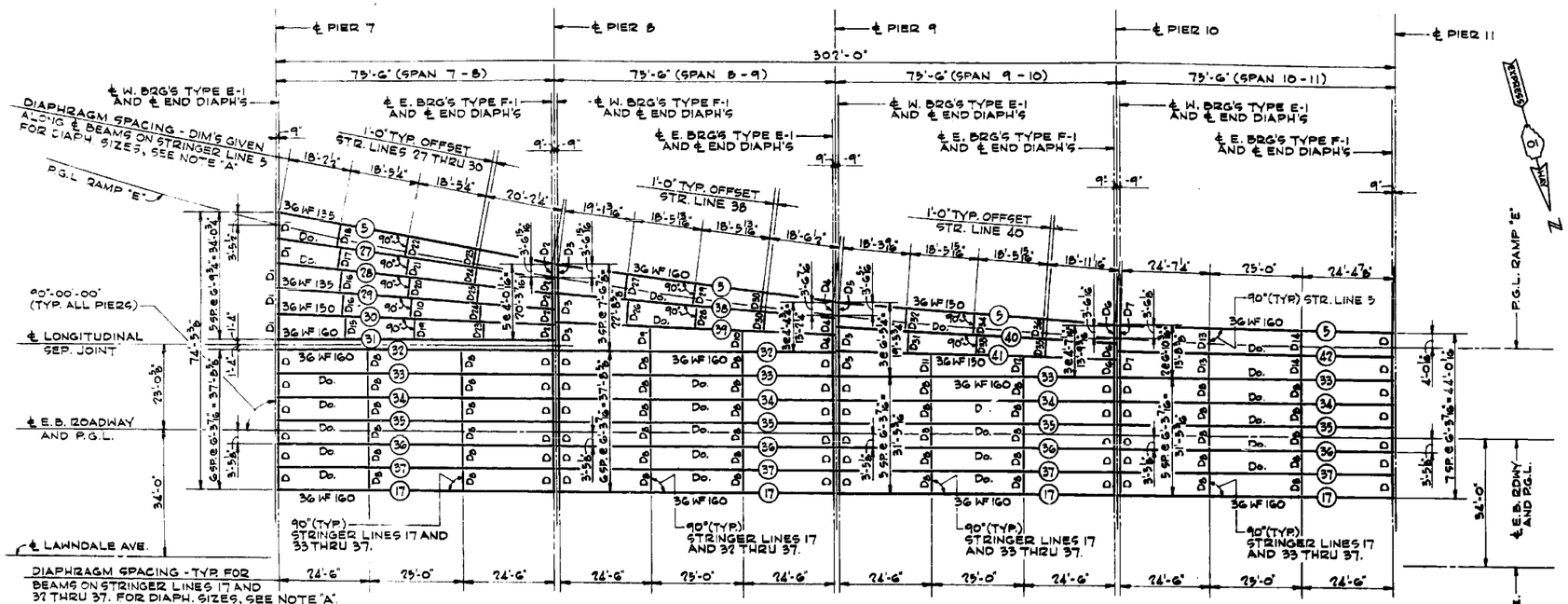


FRAMING PLAN - UNIT "C"

SCALE: 1/16"=1'-0"

TABLE II

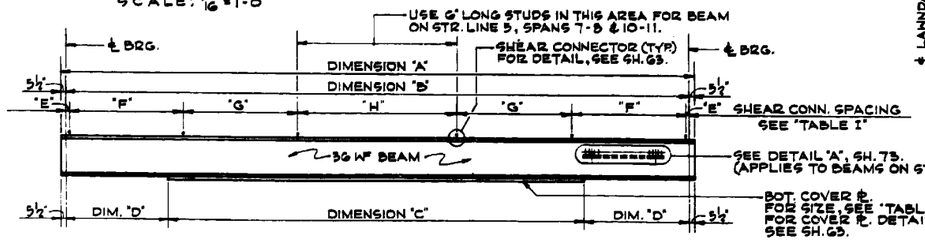
DIAPH.	LENGTH ***	NO. REQ'D
D	6'-3 7/16"	46
D1	6'-9 3/4"	5
D2	4'-0 11/16"	5
D3	7'-6 7/8"	3
D4	4'-4 3/4"	3
D5	6'-5 1/4"	3
D6	4'-7 1/16"	3
D7	6'-10 5/8"	?
D8	6'-3 7/16"	44
D9	6'-6 1/4"	1
D10	5'-5 3/8"	?
D11	5'-4 7/8"	1
D12	5'-2 7/16"	1
D13	6'-7 15/16"	?
D14	6'-5 11/16"	?
D15	6'-1 7/16"	1
D16	6'-1 5/8"	?
D17	6'-1 3/8"	1
D18	6'-1"	1
D19	5'-5 3/16"	1
D20	5'-5 7/16"	1
D21	5'-5 5/16"	1
D22	5'-5"	1
D23	4'-8 15/16"	?
D24	4'-9 3/16"	?
D25	4'-9 1/4"	1
D26	6'-9 1/16"	1
D27	6'-8 7/8"	1
D28	5'-11 9/16"	1
D29	5'-11 1/2"	1
D30	5'-2 1/16"	?
D31	5'-11 3/8"	1
D32	5'-11 11/16"	1
D33	5'-6 1/16"	1
D34	5'-6 3/16"	1
D35	5'-0 9/16"	1
D36	5'-0 11/16"	1

*** LENGTH GIVEN IS ℄ TO ℄ BEAMS ON THE HORIZONTAL.

TABLE I

STRINGER LINE		DIMENSIONS **** "A"	"B"	"C"	"D"	SHEAR CONNECTOR SPACING "E"	"F"	"G"	"H"	COVER PL. SIZE
SPAN 7-8	5	76'-2 1/4"	75'-3 1/4"	51'-0"	12'-1 5/8"	1 5/8"	11@REI'-0"	10@REI'-3"	14@REI'-0"	11 x 5/8
	27	75'-8 15/16"	74'-9 15/16"	51'-0"	11'-10 7/16"	10 7/16"+	11@REI'-0"	10@REI'-3"	13@REI'-0"	11 x 5/8
	28	75'-4 1/2"	74'-5 1/2"	51'-0"	11'-8 3/4"	8 3/4"	11@REI'-0"	10@REI'-3"	13@REI'-0"	11 x 5/8
	29	75'-1 7/16"	74'-2 7/16"	51'-0"	11'-7 3/16"	7 3/16"+	11@REI'-0"	10@REI'-3"	13@REI'-0"	11 x 5/8
	30	74'-11 5/8"	74'-0 5/8"	47'-6"	13'-3 5/16"	6 5/16"	10@REI'-0"	10@REI'-3"	14@REI'-0"	11 x 7/16
	32	74'-11"	74'-0"	52'-0"	11'-0"	3"	24@REI0"	11@REI'-3"	3@REI'-0"	11 x 3/4
	33 THRU 37 31 & 17	74'-11"	74'-0"	49'-0"	12'-6"	0"	24@REI0"	6@REI'-6"	8@REI'-0"	11 x 5/8
SPAN 8-9	5	75'-6 9/16"	74'-7 5/16"	53'-6"	10'-6 5/8"	9 5/8"+	12@REI'-0"	10@REI'-3"	12@REI'-0"	11 x 3/4
	38	75'-7 1/4"	74'-3 1/4"	47'-6"	13'-4 5/8"	7 5/8"	12@REI'-0"	10@REI'-3"	12@REI'-0"	11 x 1/2
	39	74'-11 3/16"	74'-0 3/16"	47'-6"	13'-3 3/8"+	6 3/8"+	12@REI'-0"	10@REI'-3"	12@REI'-0"	11 x 1/2
	32 THRU 37 17	74'-11"	74'-0"	49'-0"	12'-6"	0"	24@REI0"	6@REI'-6"	8@REI'-0"	11 x 5/8
SPAN 9-10	5	75'-1 1/2"	74'-2 1/2"	47'-6"	13'-4 1/4"	7 1/4"	10@REI'-0"	10@REI'-3"	14@REI'-0"	11 x 7/16
	40	75'-0 5/8"	74'-1 5/8"	47'-6"	13'-3 9/16"	6 9/16"	10@REI'-0"	10@REI'-3"	14@REI'-0"	11 x 7/16
	41	74'-11 1/4"	74'-0 1/4"	47'-6"	13'-3 1/8"	6 1/8"	10@REI'-0"	10@REI'-3"	14@REI'-0"	11 x 7/16
	33 THRU 37 17	74'-11"	74'-0"	49'-0"	12'-6"	0"	24@REI0"	6@REI'-6"	8@REI'-0"	11 x 5/8
SPAN 10-11	5	74'-11 5/8"	74'-0 5/8"	51'-0"	11'-6 11/16"	1 11/16"	18@REI0"	12@REI'-3"	7@REI'-0"	11 x 11/16
	42 & 43	74'-11"	74'-0"	51'-0"	11'-6"	0"	18@REI0"	12@REI'-3"	7@REI'-0"	11 x 11/16
	34 THRU 37 17	74'-11"	74'-0"	49'-0"	12'-6"	0"	24@REI0"	6@REI'-6"	8@REI'-0"	11 x 5/8

**** DIMENSIONS GIVEN ALONG ℄ BEAM.



TYPICAL BEAM ELEVATION - NOT TO SCALE

FOR DIMENSIONS NOT SHOWN, SEE "TABLE I"

TOP/WF ELEVATIONS - UNIT "C"

LOCATION STRINGER LINE	PIER 7 ℄ W. BRG.	PIER 8 ℄ E. BRG.
5	622.002	623.553
27	622.498	623.777
28	623.070	624.032
29	623.510	624.286
30	623.653	624.540
31	623.796	624.769
32	623.852	624.804
33	623.984	624.936
34	624.080	625.033
35	624.163	625.096
36	624.138	625.090
37	624.075	625.027
17	623.992	624.944

LOCATION STRINGER LINE	PIER 8 ℄ W. BRG.	PIER 8 ℄ E. BRG.
5	623.585	625.134
38	624.027	625.308
39	624.496	625.502
32	624.689	625.695
33	624.959	625.965
34	625.053	626.059
35	625.116	626.122
36	625.110	626.116
37	625.047	626.053
17	624.964	625.970

LOCATION STRINGER LINE	PIER 9 ℄ W. BRG.	PIER 10 ℄ E. BRG.
5	625.166	626.668
40	625.428	626.796
41	625.709	626.829
33	625.960	627.[illegible]
34	626.095	627.215
35	626.158	627.278
36	626.152	627.272
37	626.089	627.210
17	626.006	627.127

LOCATION STRINGER LINE	PIER 10 ℄ W. BRG.	PIER 11 ℄ E. BRG.
5	626.697	627.886
42	626.845	628.083
33	627.076	628.269
34	627.159	628.348
35	627.221	628.411
36	627.216	628.405
37	627.153	628.342
17	627.070	628.259

NOTE "A":

DIAPHRAGMS D THRU D7 - 12 WF 40
DIAPHRAGMS D8 THRU D36 - 16 WF 36
FOR DIAPHRAGM LENGTHS & NO. REQUIRED, SEE "TABLE II"

NOTES:

FOR GENERAL FRAMING PLAN, SEE SH. 67.
FOR STRUCTURAL STEEL NOTES, SEE SH. 3.
FOR DIAPHRAGM DETAILS, SEE SH. 73 & SH. 74.
FOR TABLE OF MOMENTS, REACTIONS AND PROPERTIES, SEE SH. 70.
FOR DETAILS OF CONDUIT SUPPORT BRACKETS, SEE SH. 81.

BILL OF MATERIAL **

ITEM	UNIT	QUANTITY
FURNISHING AND ERECTING STRUCTURAL STEEL	POUND	569,706*

** INCLUDES ALL STRUCTURAL STEEL IN UNIT "C" EXCEPT BEARINGS AND EXPANSION GUARDS.
* INCLUDES 10,267 LBS. FOR SHEAR CONNECTORS.

DE LEUW, CATHER & CO. ENGINEERS
DESIGNED BY Y.N. HUO
DRAWN BY J.A. CHALIKIS
CHECKED Q. Milunas
IN CHARGE E.S. MARTINS
APPROVED L.N. RIAN

ILLINOIS DIVISION OF HIGHWAYS
SOUTHWEST EXPRESSWAY

LAWNDALE AVE. VIADUCT
FRAMING PLAN & DETAILS
UNIT "C"

SCALE: AS NOTED | DATE 11-25-1963

benesch
engineers · scientists · planners
Alfred Benesch & Company
205 North Michigan Avenue, Suite 2400
Chicago, Illinois 60601
312-565-0450 Job No. 10093

FOR INFORMATION ONLY

FILE NAME =	USER NAME = tjanicke	DESIGNED - FSM	REVISED -
		CHECKED - RMM	REVISED -
0162457_60J16_102_existplan19.dgn	PLOT SCALE =	DRAWN - FSM	REVISED -
	PLOT DATE = 12/20/2013	CHECKED - RMM	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING PLAN INFORMATION (19 OF 26)
STRUCTURE NO. 016-2457
SHEET NO. SDX19 OF SDX26 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
372	2013-038B-R	COOK	821	477
		CONTRACT NO. 60J16		
	ILLINOIS	FED. AID PROJECT		

6/23/2014 2:42:10 PM X:\10000S\10093\Eng_Docs_Phase_II\SN_016_2456_2457_1st_Ave_over_Des_Plaines_River_Valley\Final\2457 Final\0162457_60J16_102_existplan19.dgn