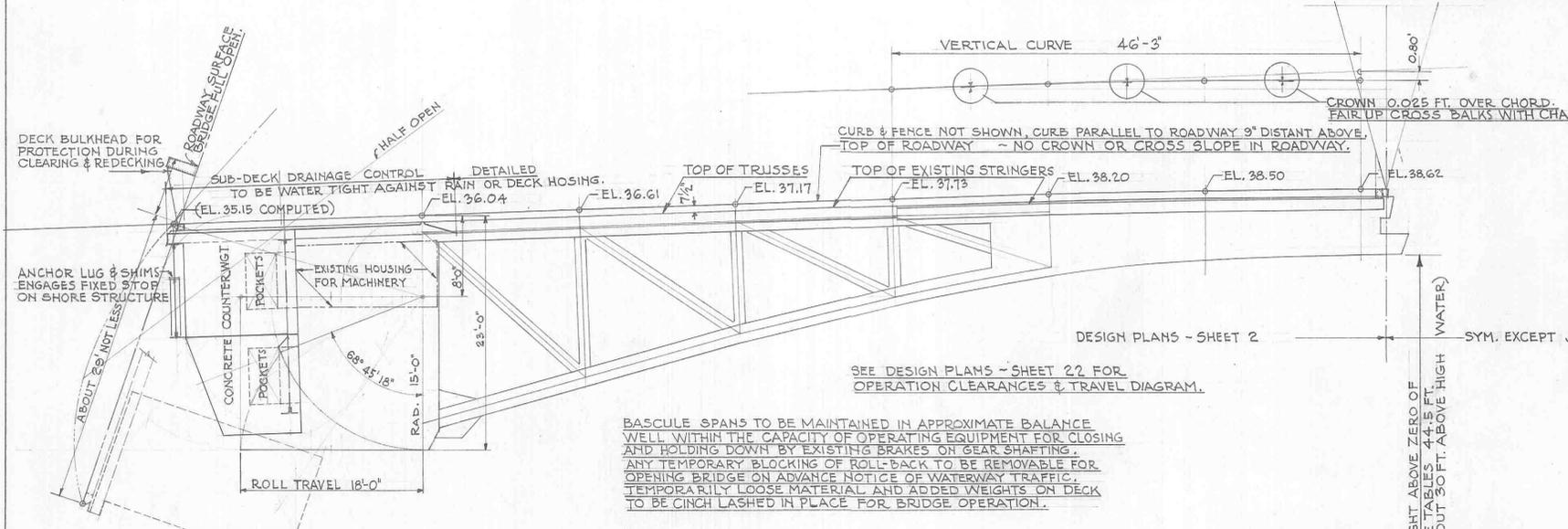
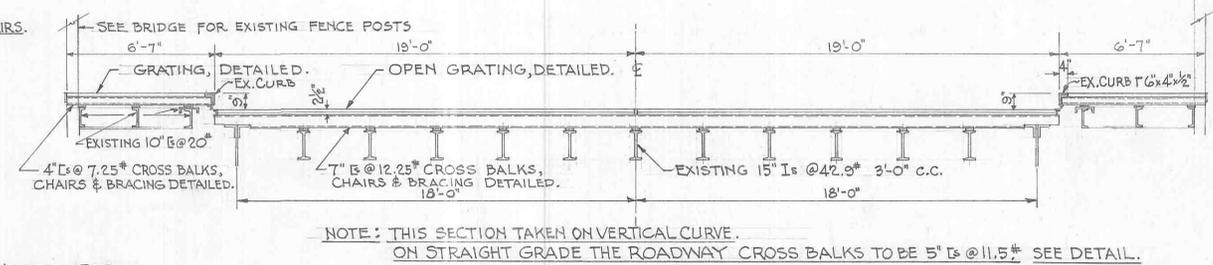


OUTLINE OF STEEL GRATING DECK AND LAYOUT OF GRATING SUPPORT 1/8" = 1'-0"



BASCULE ELEVATION DIAGRAM AND GENERAL CONDITIONS 1/8" = 1'-0"

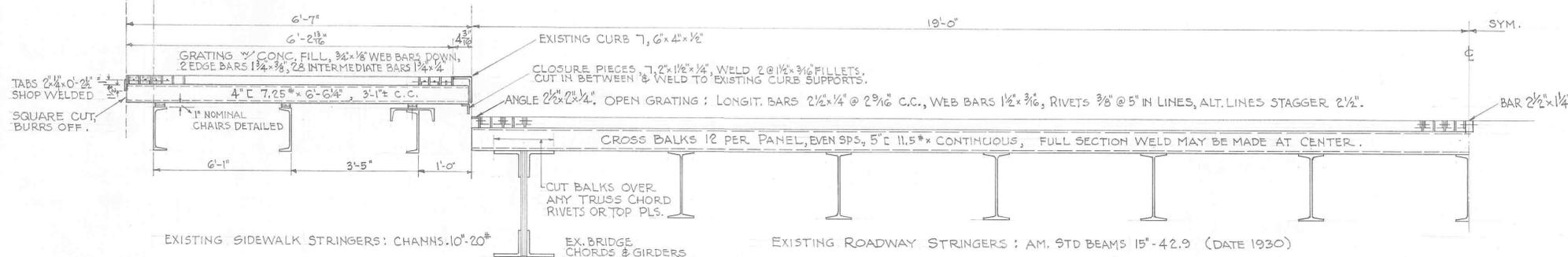


SECTION OF BRIDGE DECK - VIEW SHOREWARD 1/4" = 1'-0"

B. I. No. 749  
 ADOPTED BY THE BOARD OF KING COUNTY COMMISSIONERS  
 SEATTLE, WASHINGTON, March 20, 1950  
 ATTEST: *Ralph Q. ...* COUNTY CLERK  
*Jay ...* CHAIRMAN

KING COUNTY ENGINEERING DEPARTMENT  
 D. L. EVANS, COUNTY ROAD ENGINEER  
 14-TH AVE. SO. BASCULE BR. AT DUWAMISH W. WAY.  
 STEEL GRATING DECK OF BASCULE SPANS.  
 LAYOUT, SUPPORT & GENERAL CONDITIONS.  
 SURVEY No. ... C. R. P. No. ...  
 SHEET 1 OF 9 SHEETS  
 SCALE: HOR. INCH = 100 FT. VERT. INCH = 10 FT.  
 COMMISSIONER'S DISTRICT NO. 2  
 APPROVED BY: *D. L. Evans* COUNTY ROAD ENGINEER

EXISTING DECK TO BE CLEARED AWAY AND NEW DECK CONSTRUCTED WITH BRIDGE CLOSE TO OPERATING BALANCE FOR OPENING.



FOR SIDE WALKS: CURBSIDE BAR CUTS OVER & WELDS AT EX. CURB SUPPORTS.

GRATING BAR WELDS TO BALKS WITH 1/2" x 3/16" FILLETS, AT EACH CONTACT FOR EDGE BARS, AT ALTERNATES STAGGERED FOR INTERMEDIATE BARS. FIT IN & WELD 1/4" x 1/4" TRIM AT EXISTING FENCE POSTS ~ CLEAR OF POSTS 1/4". GRATING RIVETED AT WEB BAR CONTACTS 5" C.C., SPLICED WITH OFFSET LAPS OF MAIN BARS STAGGERED AS IRVING GRATING CO. "STREAMLINED SPLICE". SHOP PAINT ONE COAT OF RUST INHIBITIVE PAINT IN OIL NATURALLY OXIDIZING TO A TOUGH FILM.

CONCRETE FILL OF GRATING TO BE 3000# QUALITY, 3/4" MAX AGGREGATE GRADED FOR DENSE COMPOSITION, WORKED INTO INTERSTICES AND FLOAT FINISHED FLUSH. REINFORCING FOR SHRINKAGE CHECKS TO BE SINGLE NO. 8 GAGE BLACK WIRE IN EACH GRATING SPACE STRETCHED IN TIGHTLY WITH A SHORT TWISTED LOOP EMBEDDED AT ENDS OF RUNS.

BOTTOM OF FILLED WALK TO BE CLEARED OF CONC. FINIS, AND PAINTED ONE COAT OF ASPHALT EMULSION. TOP OF WALK TO BE WATER-PROOFED WITH ONE COAT OF A GOOD VEGETABLE WAX EMULSION PROVEN EFFECTIVE.

BALKS TO HAVE SHOP PAINT AS FOR GRATING. AT ALL WELDS PAINT SHALL BE CLEARED AWAY SO AS NOT TO AFFECT THE METALLURGY OF THE WELD METAL AND ITS CONTACTS. SEE CHAIR AND BRACE DETAIL FOR FASTENING.

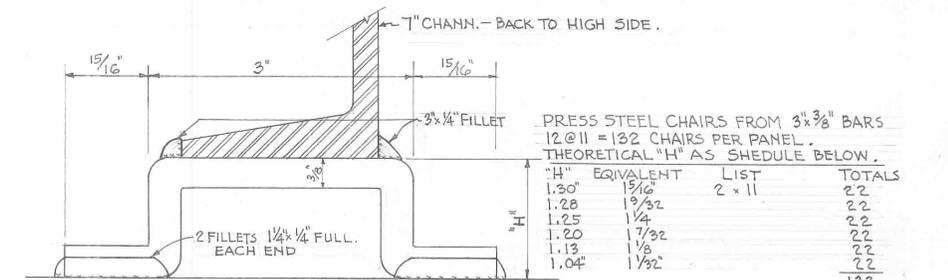
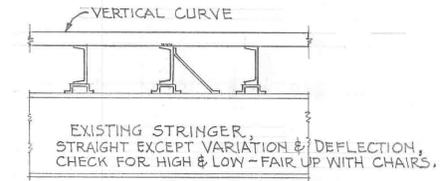
FOR ROADWAY:

GRATING BARS WELD TO BALKS WITH 1/2" x 3/16" FILLETS, AT ALTERNATE CONTACTS FOR EDGE ANGLES. FOR CENTER-LINE BAR STAGGER WELDS TO ALT. SIDES ON ALT. CONTACTS, FOR ALL OTHER BARS WELD EACH 4TH AT EACH BALK, STAGGERING SO THAT ALSO EACH BAR IS WELDED TO EACH 4TH BALK. EXAMINE ALL UNWELDED CONTACTS AT BALKS FOR BEING UP TIGHT AND WELD SUCH AS ARE NOT TIGHT OR SHOW VIBRATION AT CONTACT. SHOP PAINT AS NOTED FOR SIDEWALK.

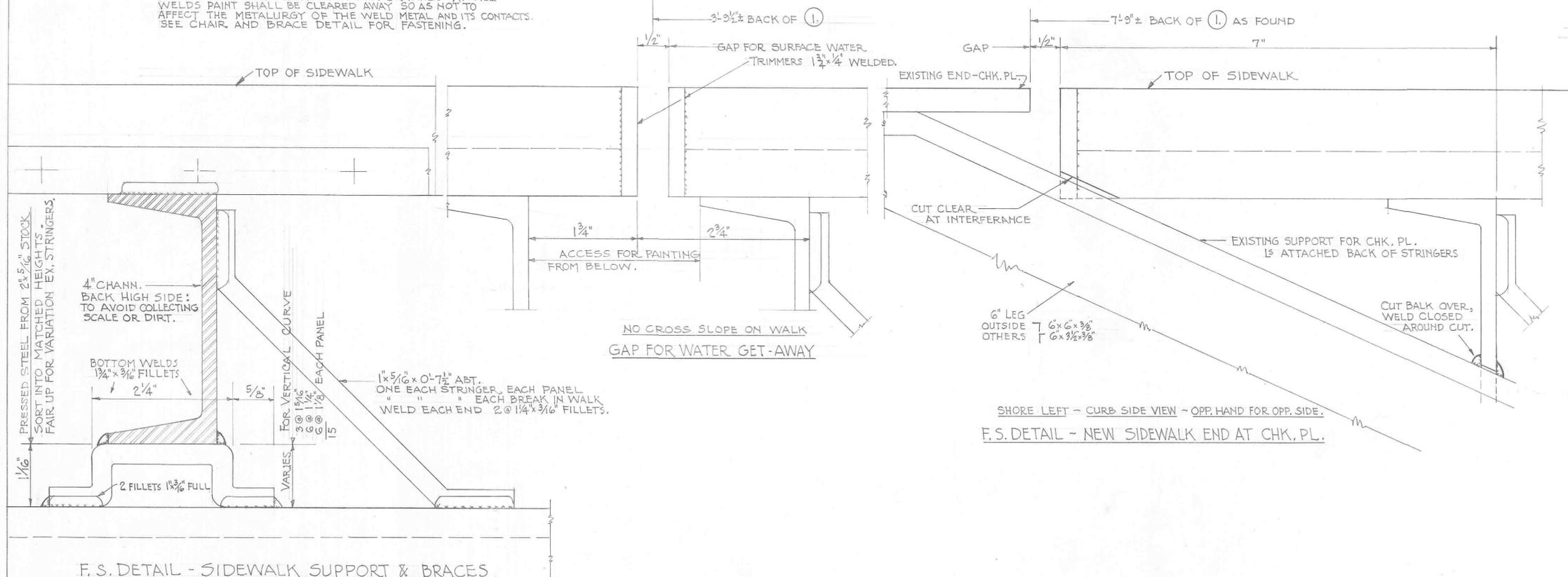
BALKS TO BE WELDED AT EACH STRINGER WITH 2" x 1/4" FILLETS HEEL & TOE, TWO SUCH WELDS AT TRUSSES. KEEP TRUSS WELDS AWAY FROM EDGES AT LEAST TWO INCHES. WELD BRACES AS SHOWN FOR SIDEWALK - 1" x 3/4" x 0'-7 1/2" - FROM EACH SUPPORTING MEMBER NEAR ENDS OF BRIDGE AND SPACED ONCE EACH TWELFTH BALK, EXCEPT THAT FOR VERTICAL CURVE PORTION OF DECK THE DETAIL LENGTH OF BRACE PIECE INCREASES TO SUIT. SHOP PAINT AS NOTED FOR SIDEWALK. CLEAR ALL PAINT FOR WELDS.

SEE CHAIR SCHEDULE AND FASTENING FOR VERTICAL CURVE ~ BALKS 7" C x 12.25"

GENERAL DETAIL OF BASCULE BRIDGE DECK. 3/4" = 1'-0"



SUPPORT AND FASTENING FOR CROSS BALKS ON VERTICAL CURVE - F.S.



ADOPTED BY THE BOARD OF KING COUNTY COMMISSIONERS  
SEATTLE, WASHINGTON, 19\_\_

ATTEST: \_\_\_\_\_ CHAIRMAN  
DEPUTY CLERK

KING COUNTY ENGINEERING DEPARTMENT  
D. L. EVANS, COUNTY ROAD ENGINEER  
14-TH AVE. SO., BASCULE BR., AT DUWAMISH W. WAY.  
STEEL GRATING DECK OF BASCULE SPANS.  
GRATING AND SUPPORT DETAIL.

SURVEY No. \_\_\_\_\_ C. R. P. No. \_\_\_\_\_

SHEET 2 OF 9 SHEETS  
SCALE: HORIZONTAL 1/4" = 1'-0" VERTICAL 1/8" = 1'-0"

COMMISSIONER'S DISTRICT NO. 2

APPROVED BY: \_\_\_\_\_ COUNTY ROAD ENGINEER

D. L. EVANS  
PROFESSIONAL ENGINEER  
STATE OF WASHINGTON  
No. 10705

