B-44-126 TYPICAL SECTION – CONCEPT 6

This concept, Figure 12, widens the bridge equally on both sides of the existing structure. The centerline of the new roadway matches the centerline of the existing roadway.

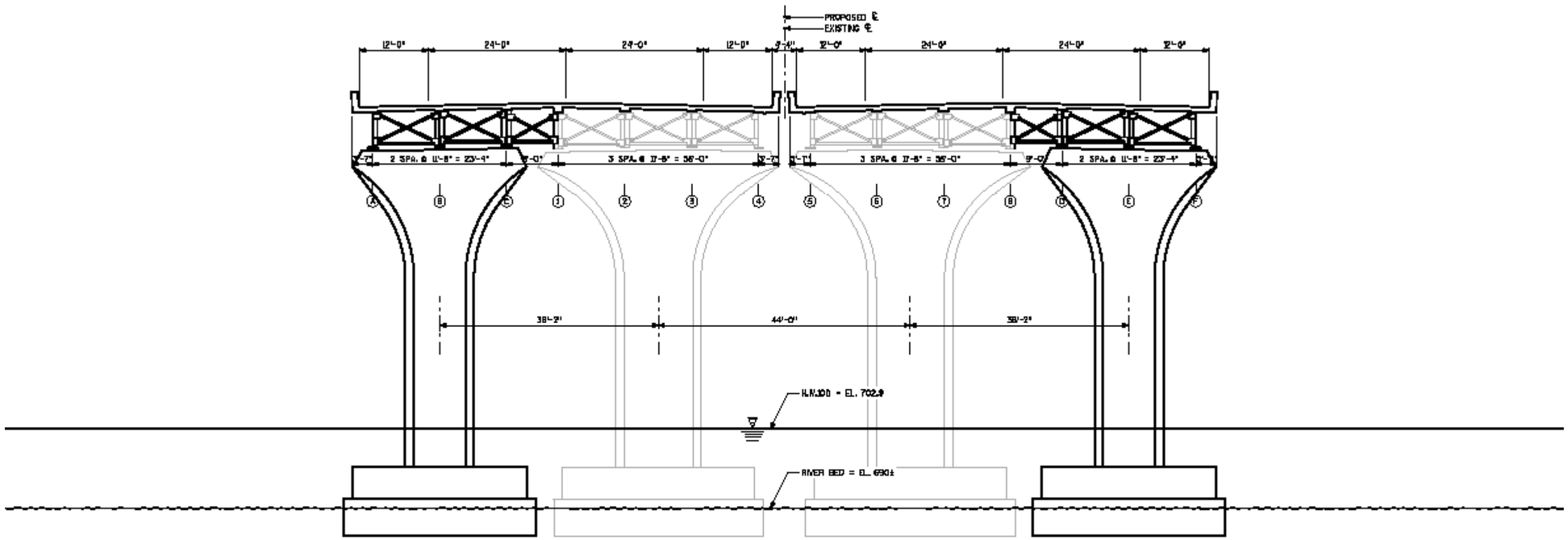
Three new girder lines and a new set of piers are required for the outside traffic lanes in each direction. Existing girders 1 & 8 are retrofitted with cross frames connecting them to the adjacent new lines of girders. The new pier designs will need to adequately control vertical settlement to limit differential settlement between the new girder lines and the existing girder lines.

There is adequate horizontal clearance in span 3 to maintain the 100'-0" wide navigation channel in its current location.

Vertical clearance over the CN tracks and STH 96 will be controlled by the existing girders and will remain unchanged. Horizontal clearance to the CN tracks is reduced to 18'-8". A railroad crash wall is not required for solid single shaft piers per Bridge Manual 13.2.4.

Figure 13 shows the plan view of the roadway connection to B-44-126. Slope intercept lines are also shown in Figure 13 to show approximate impacts. The geometry of the roadway is centered along the existing alignment.

There is existing storm sewer in the northwest and southeast quadrants of B-44-126. For more detailed information the on the existing storm sewer see section “Existing Storm Sewer” on page 24.



B-44-126 TYPICAL SECTION - CONCEPT 6

LOOKING NORTH

Figure 12


HAWTHORNE DR
CRESTVIEW DR
APPROXIMATE RIGHT OF WAY IMPACTS WITH RETAINING WALLS
APPROXIMATE RIGHT OF WAY IMPACTS WITHOUT RETAINING WALLS
LEXINGTON DR
BRIARCLIFF DR
N
FOX RIVER
BAY RIDGE RD
STH 441
MATCHLINE
WELHOUSE DR
FULCER AVE
APPROXIMATE RIGHT OF WAY IMPACTS WITH RETAINING WALLS
TIGHT RIGHT-OF-WAY CONSTRAINTS WITH PROPERTIES CLOSE TO THE RIGHT-OF-WAY
APPROXIMATE RIGHT OF WAY IMPACTS WITHOUT RETAINING WALLS
CONNECT INTO PROPOSED STH 441 MAINLINE TYPICAL SECTION TO THE SOUTH
SUNSET DR
APPROXIMATE EXISTING OUTFALL LOCATION
CONNECT INTO PROPOSED USH 41/STH 441 MAINLINE TYPICAL SECTION TO THE NORTH
ADDRESS IMPACTS TO PROPOSED NORTHLAND AVE RAMP LOCATIONS TO STH 441 NB AND SB
APPROXIMATE RIGHT OF WAY IMPACTS WITHOUT RETAINING WALLS
FOX RIVER
STH 96
CN RAILROAD
APPROXIMATE EXISTING OUTFALL LOCATION
STH 441
MATCHLINE
APPROXIMATE RIGHT OF WAY IMPACTS WITHOUT RETAINING WALLS
FRENCH RD

Figure 13