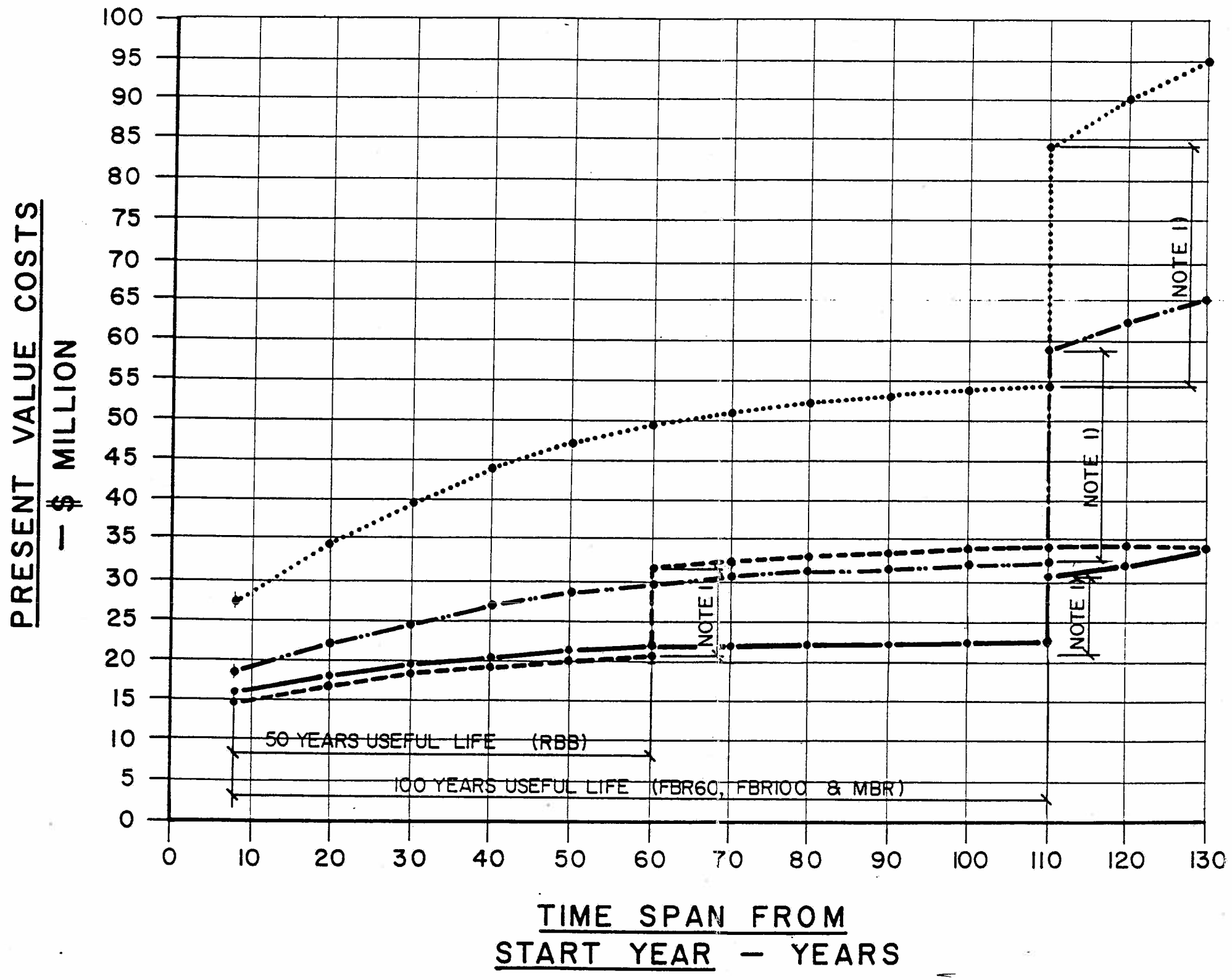



LEGEND

- RBB
- FBR 60
- FBR100
- MBR

NOTE:

1) CAPITAL COST NEW BRIDGE.

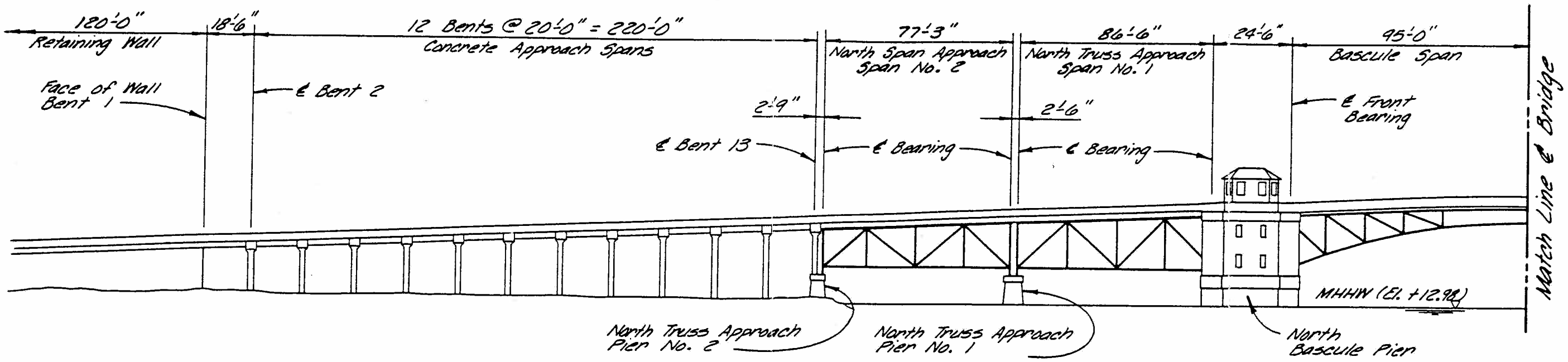
Sverdrup CORPORATION

KING COUNTY DEPT. OF PUBLIC WORKS

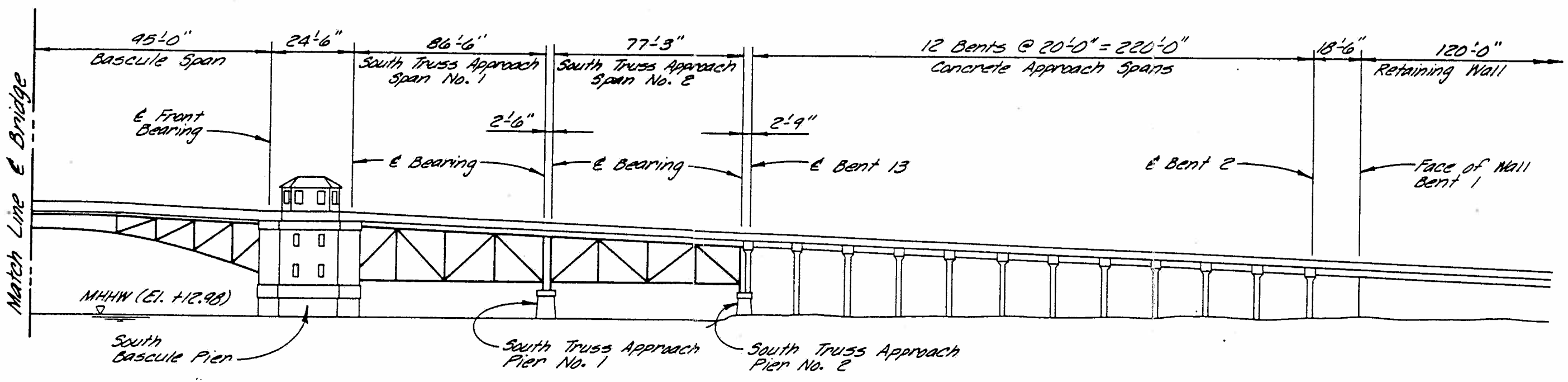
14th/16th AVE SOUTH BRIDGE

LIFE CYCLE PRESENT VALUE COSTS VERSUS TIME SPAN

GRAPH 1



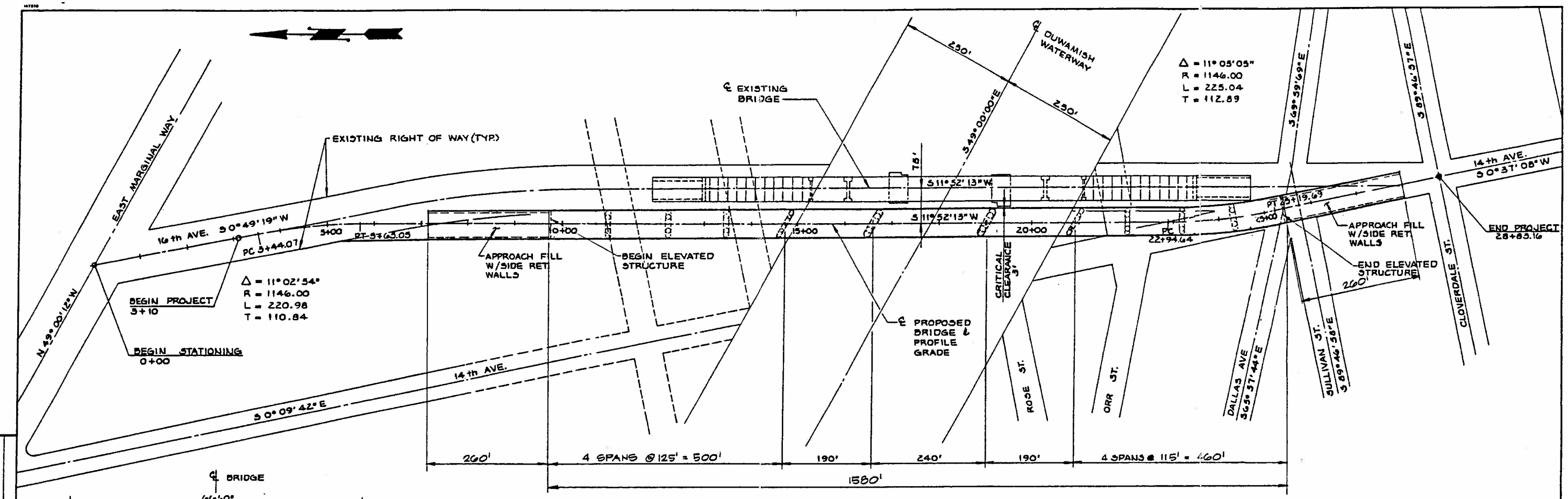

NORTH BRIDGE APPROACH

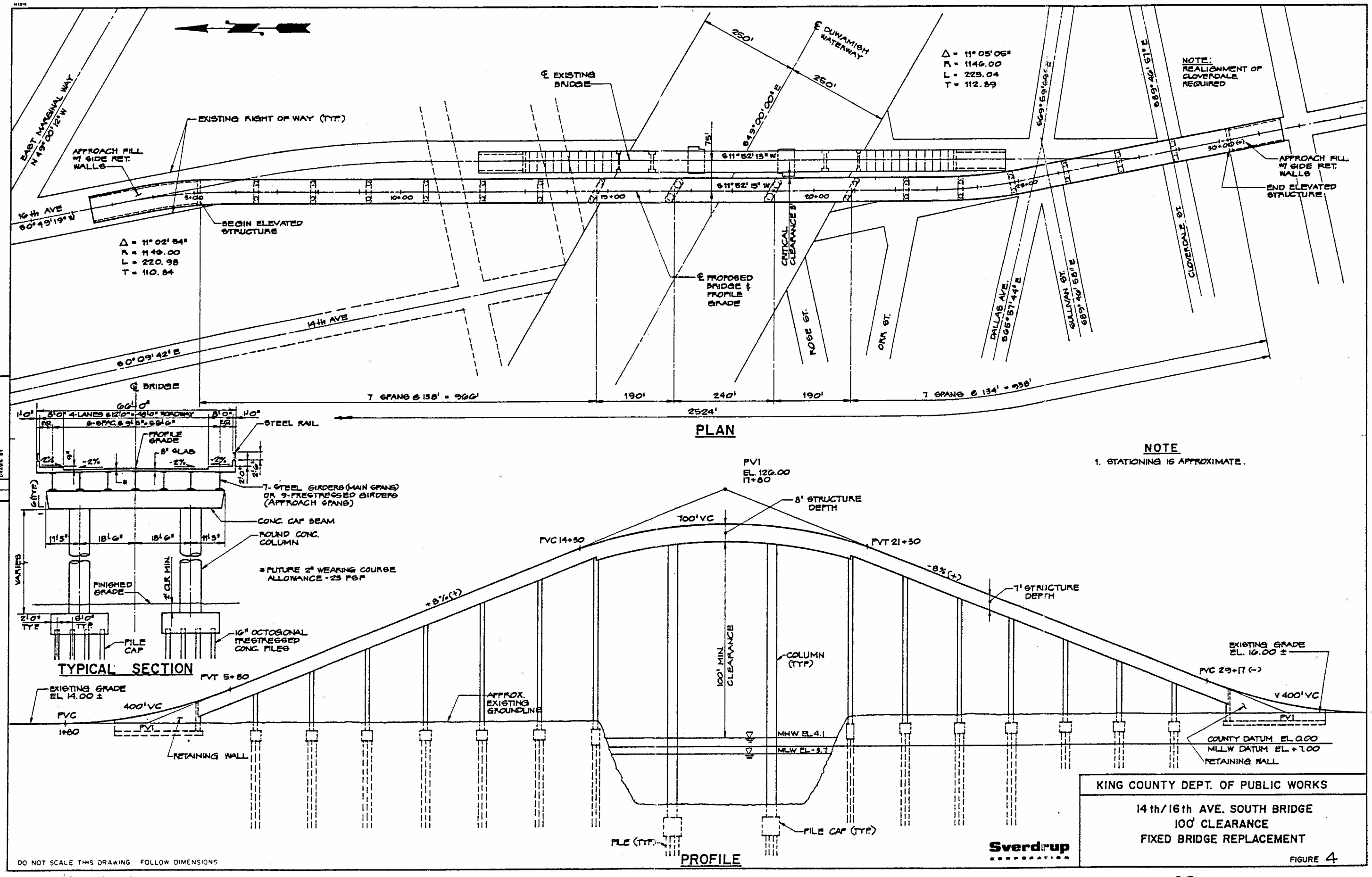



SOUTH BRIDGE APPROACH

EXISTING BRIDGE ELEVATION

FIGURE 2


EAST MARGINAL WAY
N 49° 00' 12" W
16 th AVE. S 0° 49' 19" W
PC 3+44.07
5+00
PT 5+63.05
EXISTING RIGHT OF WAY (TYP.)
BEGIN PROJECT 3+10
BEGIN STATIONING 0+00
Δ = 11° 02' 54"
R = 1146.00
L = 220.98
T = 110.84
APPROACH FILL W/SIDE RET WALLS
BEGIN ELEVATED STRUCTURE
10+00
15+00
20+00
℄ EXISTING BRIDGE
75'
S 11° 52' 13" W
S 49° 00' 00" E
250'
250'
℄ DUWAMISH WATERWAY
CRITICAL CLEARANCE 3'
℄ PROPOSED BRIDGE & PROFILE GRADE
ROSE ST.
ORR ST.
DALLAS AVE
S 69° 37' 44" E
S 69° 59' 49" E
Δ = 11° 05' 05"
R = 1146.00
L = 225.04
T = 112.89
PC 22+94.64
PT 23+19.63
25+00
APPROACH FILL W/SIDE RET WALLS
END ELEVATED STRUCTURE
260'
SULLIVAN ST.
S 69° 46' 58" E
S 69° 46' 37" E
CLOVERDALE ST.
14 th AVE. S 0° 37' 08" W
END PROJECT 28+83.16
14 th AVE.
S 0° 09' 42" E
260'
4 SPANS @ 125' = 500'
190'
240'
190'
4 SPANS @ 115' = 460'
1580'
℄ BRIDGE
66'-0"
1'-0"
8'-0" 4 LANES @ 12'-0" = 48'-0" ROADWAY
8'-0"
1'-0"
SIDEWALK
SIDEWALK
5'-3"
6 SPA. @ 9'-3" = 55'-6"
5'-3"
STEEL RAIL
PROFILE GRADE
8" SLAB
-2%
-2%
-2%
-2%
8"
2'-0"
2'-6"
7-STEEL GIRDERS (MAIN SPANS) OR 9-PRESTRESSED GIRDERS (APPROACH SPANS)
6" (TYP.)
CONC. CAP BEAM
ROUND CONC. COLUMN
11'-3"
18'-6"
18'-6"
11'-3"
VARIES
2' CLR. MIN.
FINISHED GRADE
2'-0" TYP.
5'-0" TYP.
PILE CAP
16" OCTAGONAL PRESTRESSED CONC. PILES
* FUTURE 2" WEARING COURSE ALLOWANCE - 25 PSF
TYPICAL SECTION
PLAN
PVI EL. 87.00
17+80
+8%
-8%
8' STRUCTURE DEPTH
700' VC
PVC 14+30
PVT 21+30
7' STRUCTURE DEPTH
7' STRUCTURE DEPTH
PVT 10+65
PVC 24+70
EXISTING GRADE EL. 14.00 ±
400' VC
400' VC
EXISTING GRADE EL. 16.00 ±
PVC 6+65
PVI
PVT 28+70
PVI
APPROX. EXISTING GROUNDLINE
60' MIN. CLEARANCE
COLUMN (TYP.)
MHW EL. 4.1
MLW EL. -3.7
COUNTY DATUM EL 0.00
(MLLW DATUM EL. +7.00)
RETAINING WALL
RETAINING WALL
PILE CAP (TYP.)
PILE (TYP.)
PROFILE
NOTES
1. STATIONING IS APPROXIMATE.
DO NOT SCALE THIS DRAWING FOLLOW DIMENSIONS
Sverdrup
Sverdrup Corporation
KING COUNTY DEPT. OF PUBLIC WORKS
14 th/16th AVE. SOUTH BRIDGE
60' CLEARANCE
FIXED BRIDGE REPLACEMENT
FIGURE 3

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