# APPENDIX G.1: SR 167 EXTENSION, REVISED BASELINE BRIDGE PLANS

**Note:** Revisions to WSDOT baseline designs in the Appendix G.1 plans are shown clouded per the following.

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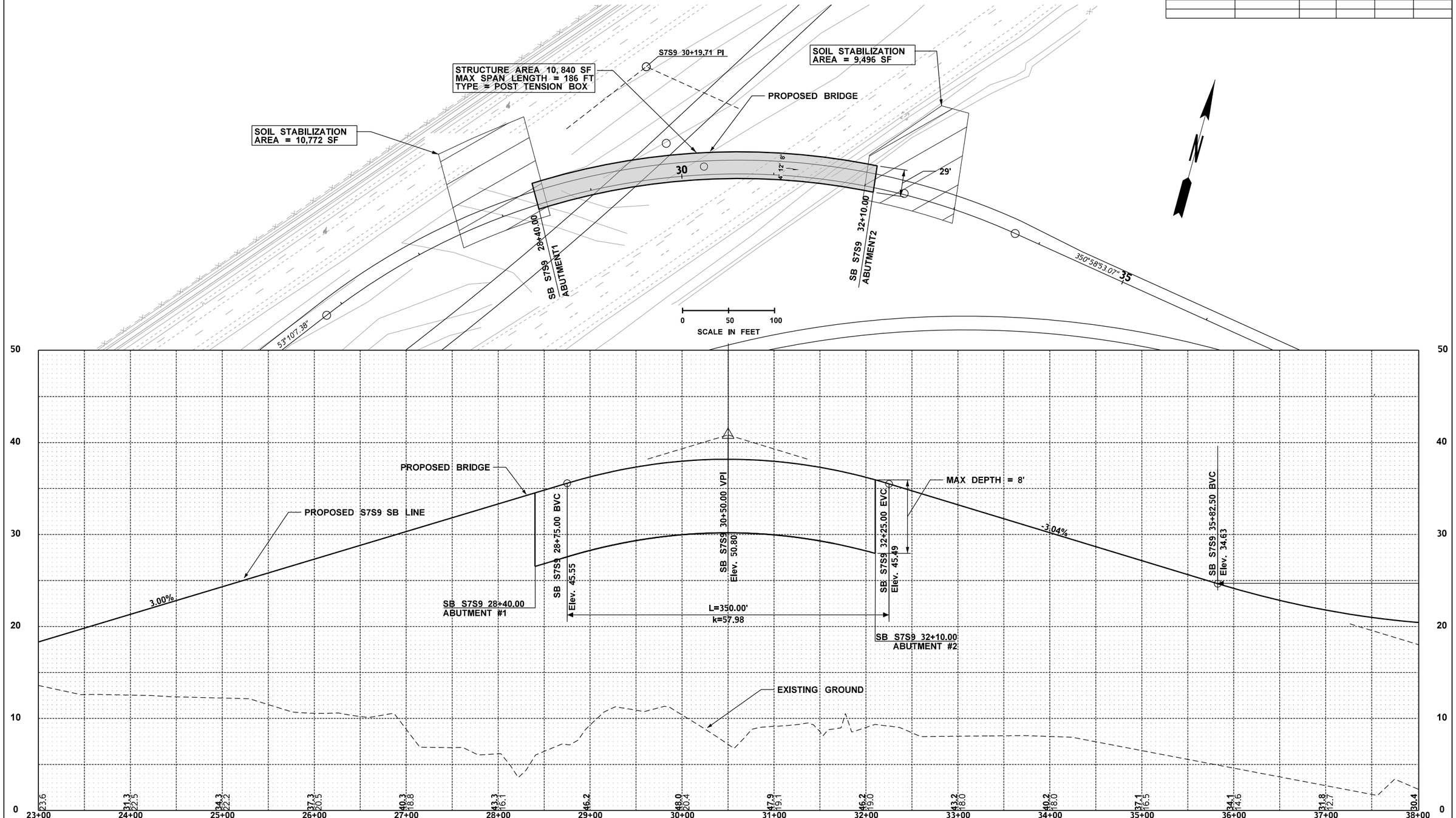
| CURVE DATA | | | | | |
|---|---|---|---|---|---|
| P.I. STATION | DELTA | RADIUS | TANGENT | LENGTH | S |
| S7S9 30+19.71 | 62°11'14.31" | 730.00 | 440.254 | 792.32 | - |
| | | | | | |
| | | | | | |

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| FILE NAME | L2110_Refine_EH_ST_001_167_509.dgn | | | | REGION NO. | STATE | FED.AID PROJ.NO. | |
| TIME | 12:48:27 PM | | | | 3 | WASH | | |
| DATE | 6/27/2013 | | | | JOB NUMBER | | | |
| PLOTTED BY | rgreenlee | | | | | | | |
| DESIGNED BY | | | | | CONTRACT NO. | | LOCATION NO. | |
| ENTERED BY | | | | | | | | |
| CHECKED BY | G. SANCHEZ | | | | | | | |
| PROJ. ENGR. | S. FUCHS | | | | | | | |
| REGIONAL ADM. | K. DAYTON | REVISION | DATE | BY | | | | |

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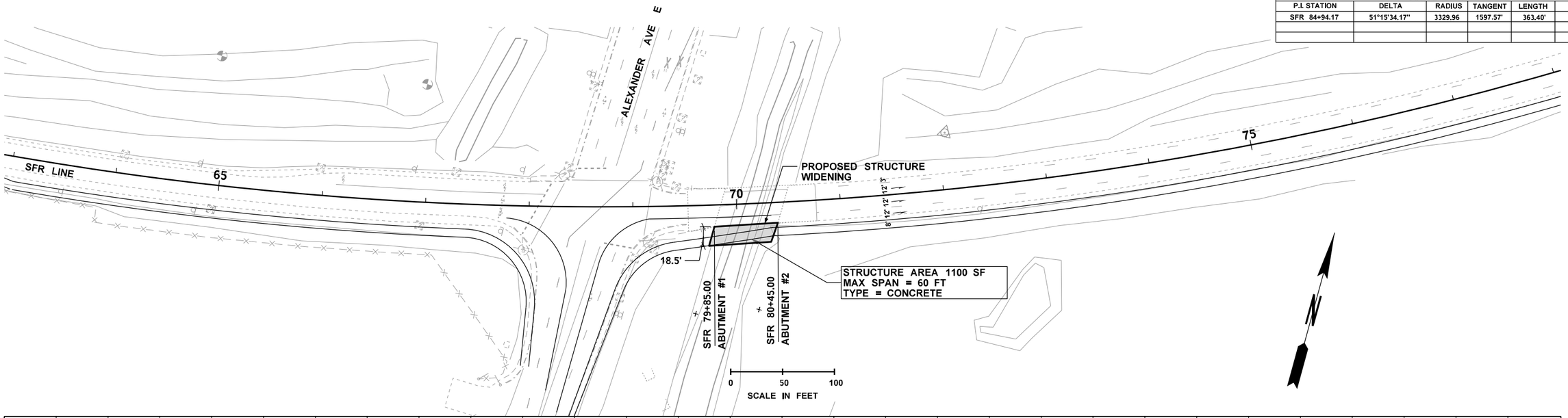
# SR 167 EXTENSION SR 509 TO SR 161
## NEW FREEWAY
## SCHEMATIC BRIDGE STUDY
## BRIDGE PLAN & PROFILE

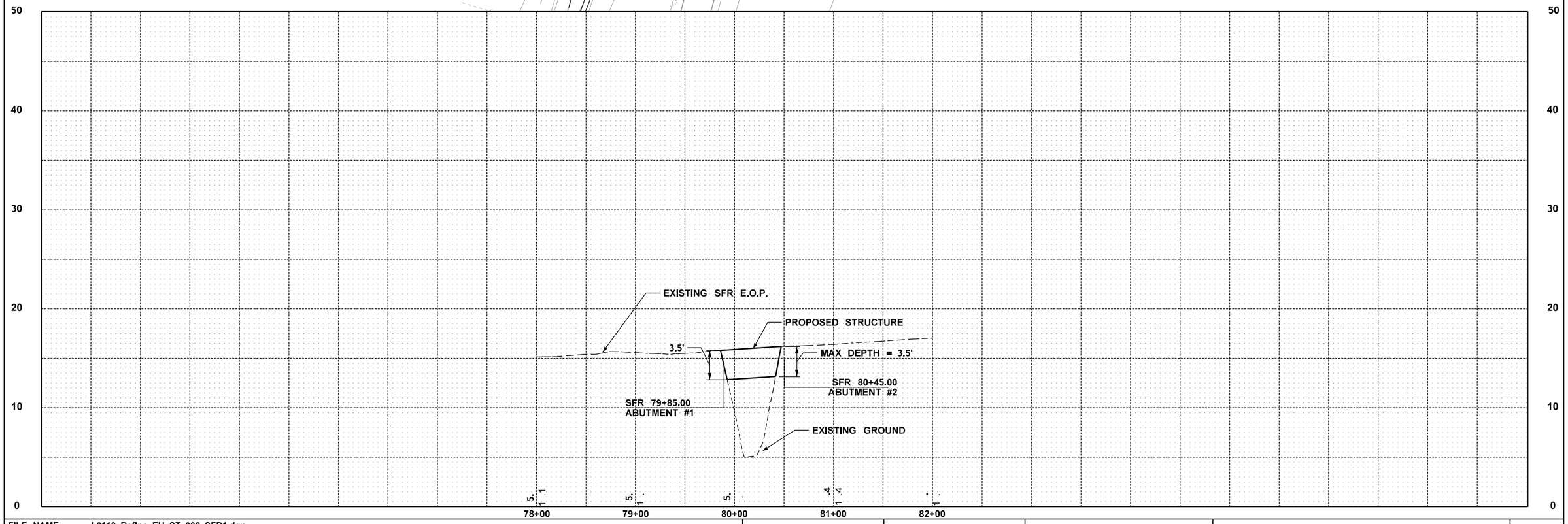
BRIDGE NO. S167/509

ST1

SHEET OF SHEETS

| CURVE DATA | | | | | |
|---|---|---|---|---|---|
| P.I. STATION | DELTA | RADIUS | TANGENT | LENGTH | S |
| SFR 84+94.17 | 51°15'34.17" | 3329.96 | 1597.57' | 363.40' | - |
| | | | | | - |
| | | | | | |

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| TIME | 12:59:20 PM | | | | 3 | WASH | |
| DATE | 6/27/2013 | | | | JOB NUMBER | | |
| PLOTTED BY | rgreenlee | | | | | | |
| DESIGNED BY | | | | | CONTRACT NO. | | LOCATION NO. |
| ENTERED BY | | | | | | | |
| CHECKED BY | G. SANCHEZ | | | | | | |
| PROJ. ENGR. | S. FUCHS | | | | | | |
| REGIONAL ADM. | K. DAYTON | REVISION | DATE | BY | | | |

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Washington State Department of Transportation

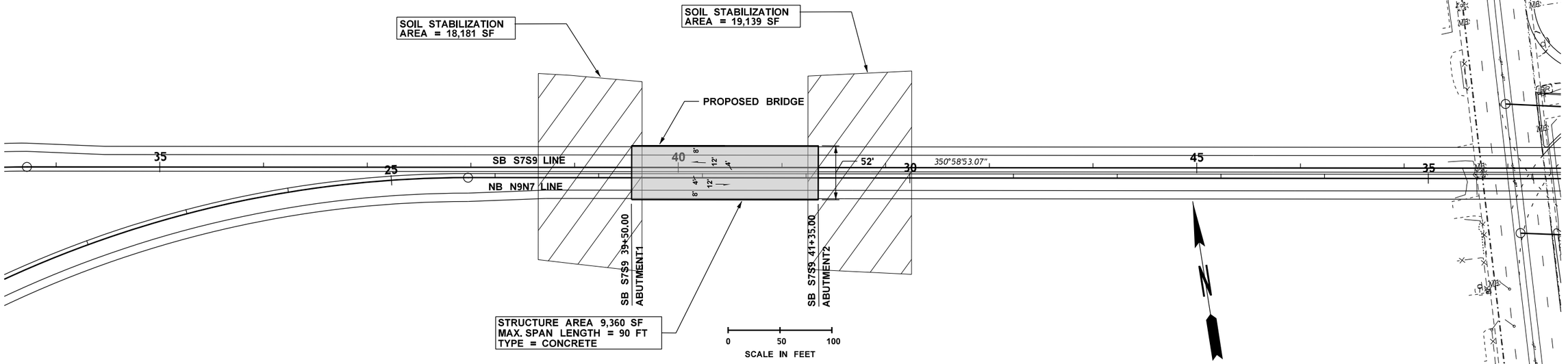
# SR 167 EXTENSION SR 509 TO SR 161
## NEW FREEWAY
## SCHEMATIC BRIDGE STUDY
## BRIDGE PLAN & PROFILE

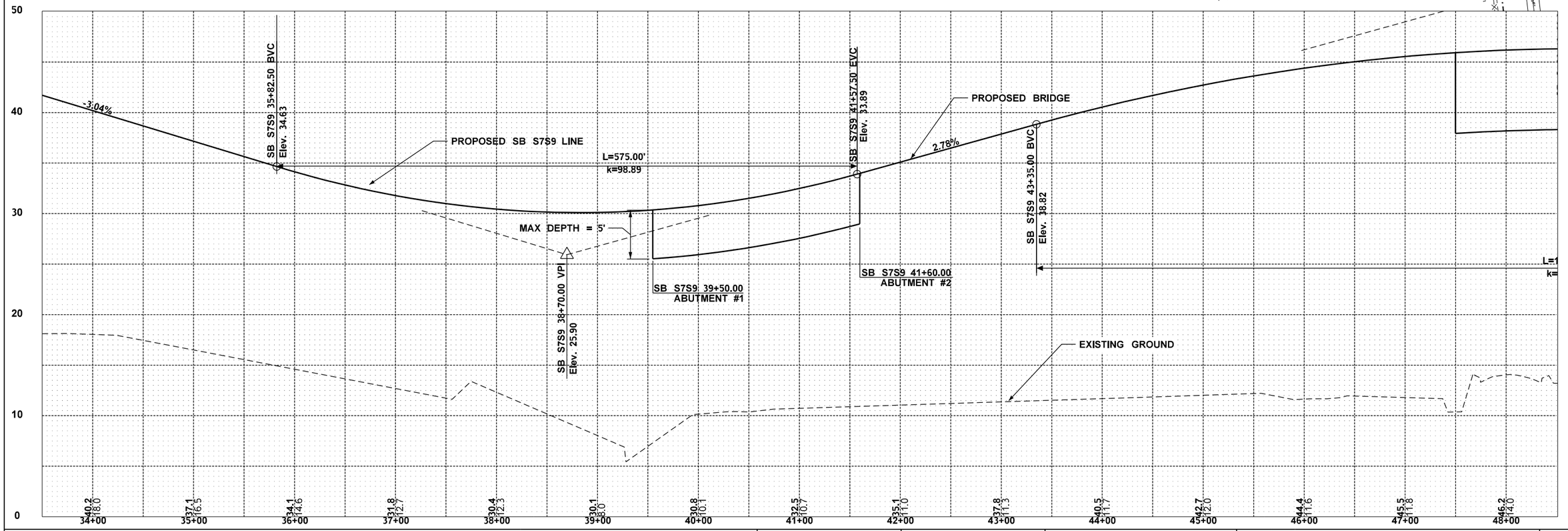
BRIDGE NO. SFR1

ST2

SHEET OF SHEETS

| CURVE DATA | | | | | |
|---|---|---|---|---|---|
| P.I. STATION | DELTA | RADIUS | TANGENT | LENGTH | S |
| N9N7 21+06.59 | 54°54.44.13" Rt. | 1065.00 | 553.3679 | 1020.6957 | - |
| | | | | | |
| | | | | | |




| | | | | | | | |
|---|---|---|---|---|---|---|---|
| FILE NAME | L2110_Refine_EH_ST_003_S167-FIFE_DITCH.dgn | | | | REGION NO. | STATE | FED.AID PROJ.NO. |
| TIME | 12:48:40 PM | | | | 3 | WASH | |
| DATE | 6/27/2013 | | | | JOB NUMBER | | |
| PLOTTED BY | rgreenlee | | | | | | |
| DESIGNED BY | | | | | CONTRACT NO. | | LOCATION NO. |
| ENTERED BY | | | | | | | |
| CHECKED BY | G. SANCHEZ | | | | | | |
| PROJ. ENGR. | S. FUCHS | | | | | | |
| REGIONAL ADM. | K. DAYTON | REVISION | DATE | BY | | | |

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Washington State
Department of Transportation

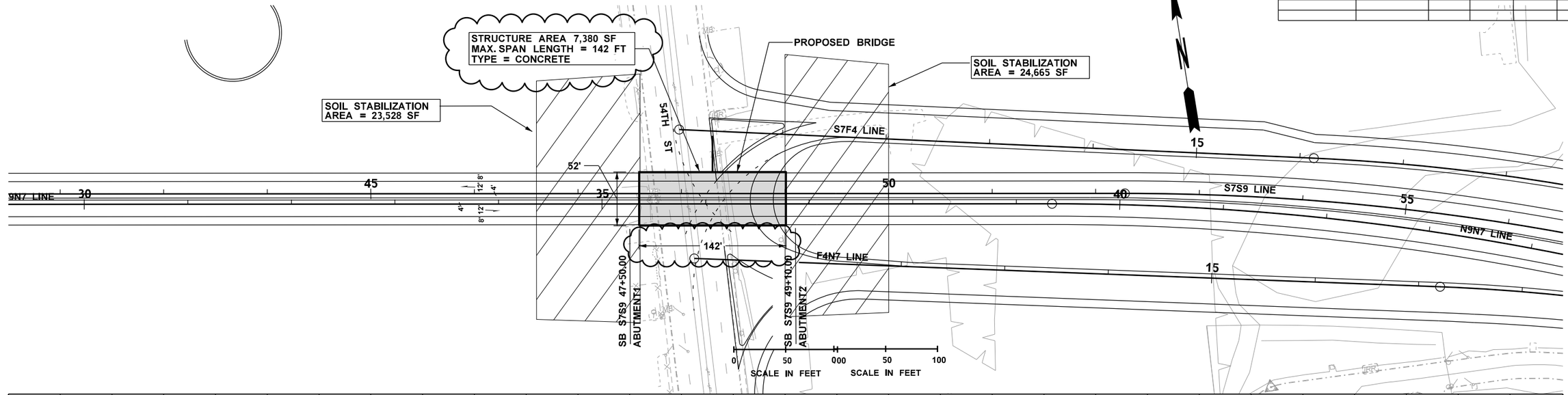
# SR 167 EXTENSION SR 509 TO SR 161
## NEW FREEWAY
## SCHEMATIC BRIDGE STUDY
## BRIDGE PLAN & PROFILE

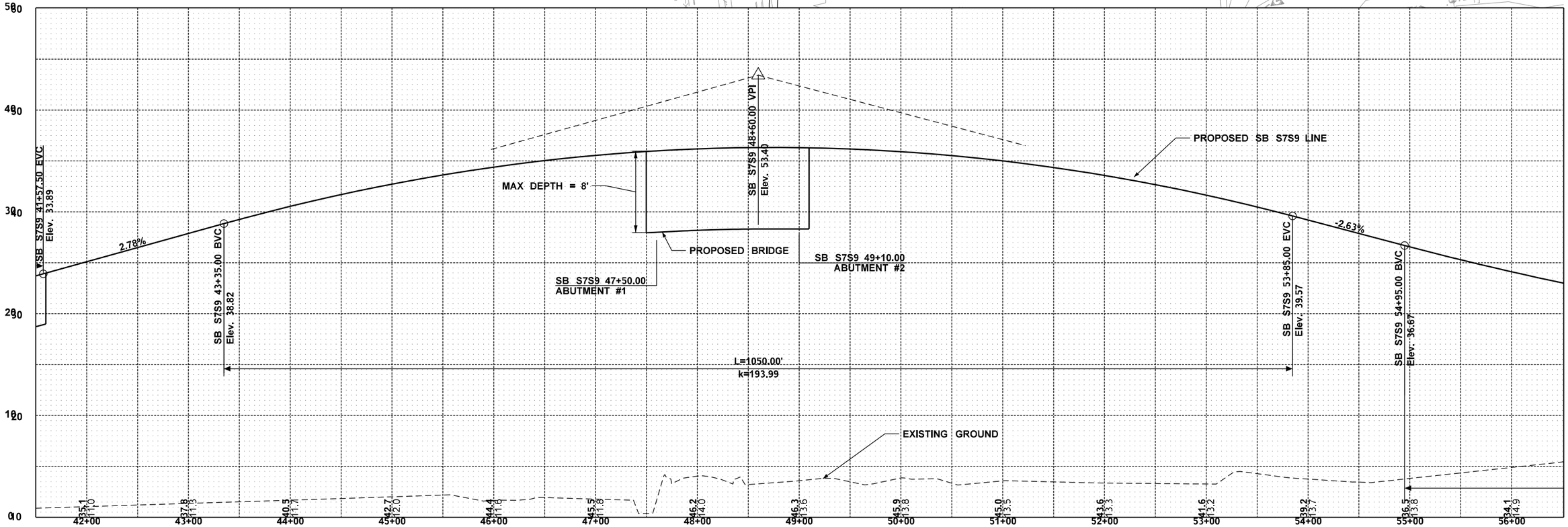
## BRIDGE NO. 167/FIFE DITCH

ST3

SHEET OF SHEETS

| CURVE DATA | | | | | |
|---|---|---|---|---|---|
| P.I. STATION | DELTA | RADIUS | TANGENT | LENGTH | S |
| SB S7S9 57+89.05 | 26°42'17.47" Rt. | 2363.00 | 560.87 | 1101.37 | - |
| | | | | | |
| | | | | | |

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|---|---|---|---|---|---|---|---|
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| TIME | 12:48:46 PM | | | | 3 | WASH | |
| DATE | 6/27/2013 | | | | JOB NUMBER | | |
| PLOTTED BY | rgreenlee | | | | | | |
| DESIGNED BY | | | | | | | |
| ENTERED BY | | | | | | | |
| CHECKED BY | G. SANCHEZ | | | | CONTRACT NO. | | LOCATION NO. |
| PROJ. ENGR. | S. FUCHS | | | | | | |
| REGIONAL ADM. | K. DAYTON | REVISION | DATE | BY | | | |

DATE
P.E. STAMP BOX

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P.E. STAMP BOX

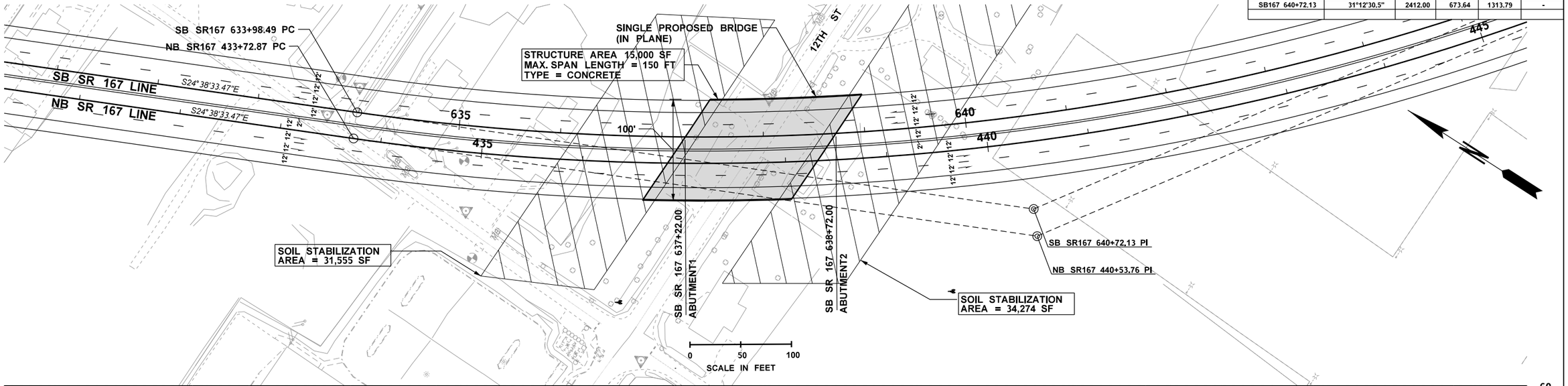
Washington State
Department of Transportation

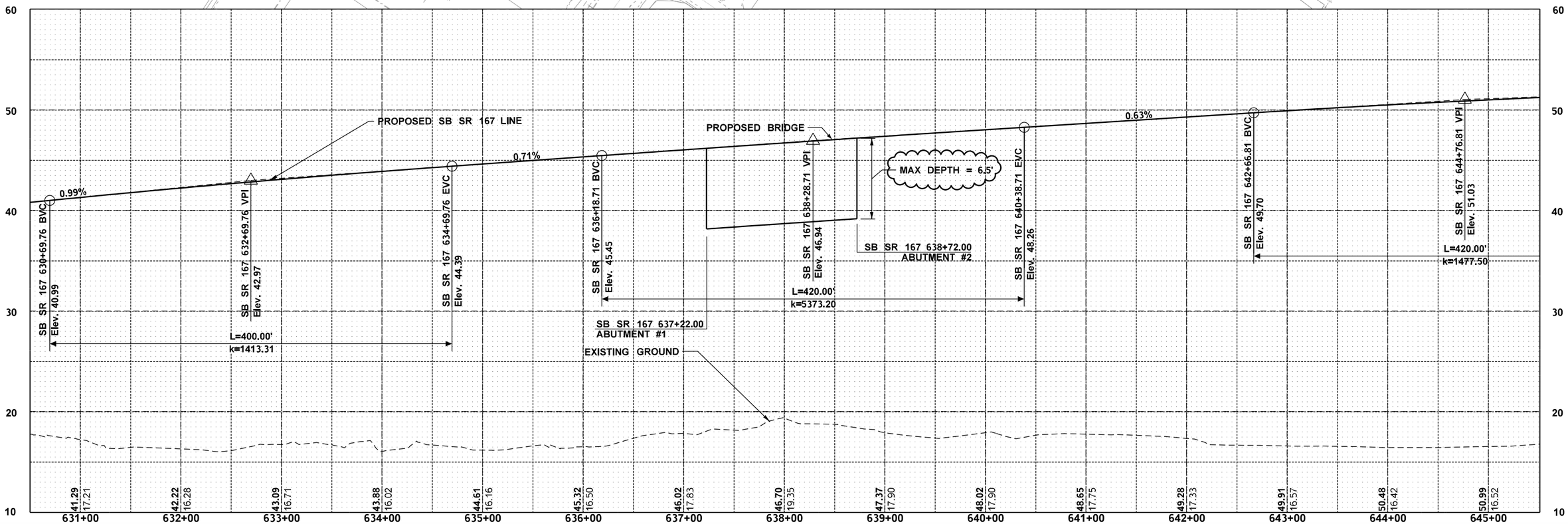
# SR 167 EXTENSION SR 509 TO SR 161
## NEW FREEWAY
## SCHEMATIC BRIDGE STUDY
## BRIDGE PLAN & PROFILE
## BRIDGE NO. 167/54

ST4

SHEET
OF
SHEETS

| CURVE DATA | | | | | |
|---|---|---|---|---|---|
| P.I. STATION | DELTA | RADIUS | TANGENT | LENGTH | S |
| NB167 440+53.76 | 31°12'30.5" | 2438.00 | 680.90 | 1327.96 | - |
| SB167 640+72.13 | 31°12'30.5" | 2412.00 | 673.64 | 1313.79 | - |
| | | | | | |




| | | | | | | | |
|---|---|---|---|---|---|---|---|
| FILE NAME | L2110_Refine_EH_ST_005_167-12.dgn | | | | REGION NO. | STATE | FED.AID PROJ.NO. |
| TIME | 12:48:53 PM | | | | 3 | WASH | |
| DATE | 6/27/2013 | | | | JOB NUMBER | | |
| PLOTTED BY | rgreenlee | | | | | | |
| DESIGNED BY | | | | | CONTRACT NO. | | LOCATION NO. |
| ENTERED BY | | | | | | | |
| CHECKED BY | G. SANCHEZ | | | | | | |
| PROJ. ENGR. | S. FUCHS | | | | | | |
| REGIONAL ADM. | K. DAYTON | REVISION | DATE | BY | | | |

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P.E. STAMP BOX

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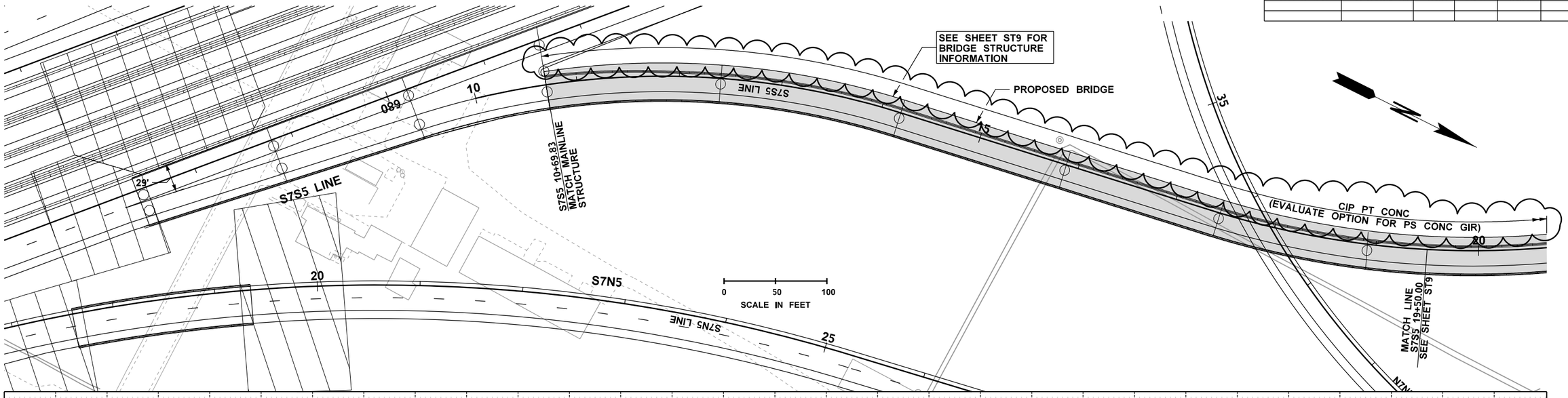
Washington State Department of Transportation

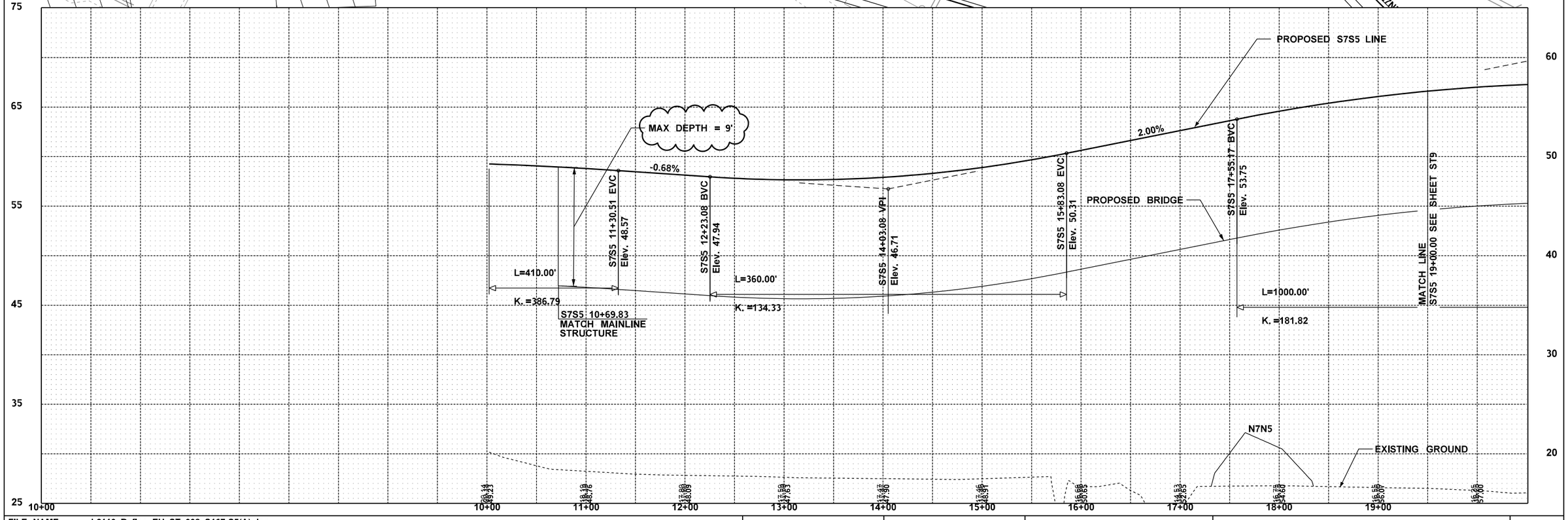
# SR 167 EXTENSION SR 509 TO SR 161
## NEW FREEWAY
## SCHEMATIC BRIDGE STUDY
## BRIDGE PLAN & PROFILE
## BRIDGE NO. 167/12

ST5

SHEET OF SHEETS

| CURVE DATA | | | | | |
|---|---|---|---|---|---|
| P.I. STATION | DELTA | RADIUS | TANGENT | LENGTH | S |
| S7S5 15+46.31 | 35°08'30.12" Rt. | 775.00' | 245.41' | 475.34' | - |
| | | | | | |
| | | | | | |




| | | | | | | | |
|---|---|---|---|---|---|---|---|
| FILE NAME | L2110_Refine_EH_ST_008_S167-S5(A).dgn | | | | REGION NO. | STATE | FED.AID PROJ.NO. |
| TIME | 12:49:00 PM | | | | 3 | WASH | |
| DATE | 6/27/2013 | | | | JOB NUMBER | | |
| PLOTTED BY | rgreenlee | | | | | | |
| DESIGNED BY | | | | | | | |
| ENTERED BY | | | | | | | |
| CHECKED BY | G. SANCHEZ | | | | CONTRACT NO. | | LOCATION NO. |
| PROJ. ENGR. | S. FUCHS | | | | | | |
| REGIONAL ADM. | K. DAYTON | REVISION | DATE | BY | | | |

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# SR 167 EXTENSION SR 509 TO SR 161
## NEW FREEWAY
## SCHEMATIC BRIDGE STUDY
## BRIDGE PLAN & PROFILE
## BRIDGE NO. S167-S5 (A)

ST8

SHEET OF SHEETS

| CURVE DATA | | | | | |
|---|---|---|---|---|---|
| P.I. STATION | DELTA | RADIUS | TANGENT | LENGTH | S |
| S7S5 36+38.50 PI | 122°21'42.01" Lt. | 850.00' | 1544.92 | 1815.27 | - |

SOIL STABILIZATION AREA = 18,819 SF

PROPOSED INTERURBAN TRAIL

HOVS5S7

HOVS7NB

STRUCTURE AREA 11,540 SF
MAX SPAN = 130 FT
TYPE = CONCRETE

NB I-5

SB I-5

PS CONC GIR

S7S5 28+82.79 ABUTMENT2

S5N7 LINE

S7S5 LINE

PROPOSED BRIDGE

(ELEVLUATE OPTION FOR PS CONC GIR)

CIP PT CONC

STRUCTURE AREA 55,730 SF
MAX. SPAN LENGTH = 190 FT
TYPE = CONCRETE

MATCH LINE S7S5 19+50 SEE SHEET ST8

NB S7N5 LINE

0 50 100
SCALE IN FEET

PROPOSED HYLEBOS CREEK RELOCATION

5030

PROPOSED S7S5 LINE

S7S5 22+55.17 VPI
Elev. 63.75'

S7S5 27+55.17 EVC
Elev. 46.25

-3.50%

MAX DEPTH = 9'

PROPOSED BRIDGE

EXISTING GROUND

NB I-5 SB I-5

S7S5 28+82.79
ABUTMENT2

MATCH LINE S7S5 19+50
SEE SHEET ST8

60 50 40 30 20

19+00 20+00 21+00 22+00 23+00 24+00 25+00 26+00 27+00 28+00 29+00 30+00 31+00 32+00 33+00

16.55 56.07 16.25 57.00 15.40 57.38 15.70 57.21 14.92 56.49 15.29 56.22 18.82 53.39 18.61 48.10 16.21 44.69 18.30 41.19 17.29 37.69

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| FILE NAME | L2110_Refine_EH_ST_009_S167-S5(B).dgn | | | | REGION NO. | STATE | FED.AID PROJ.NO. | |
| TIME | 12:49:07 PM | | | | 3 | WASH | | |
| DATE | 6/27/2013 | | | | JOB NUMBER | | | |
| PLOTTED BY | rgreenlee | | | | | | | |
| DESIGNED BY | | | | | | | | |
| ENTERED BY | | | | | | | | |
| CHECKED BY | G. SANCHEZ | | | | CONTRACT NO. | | LOCATION NO. | |
| PROJ. ENGR. | S. FUCHS | | | | | | | |
| REGIONAL ADM. | K. DAYTON | REVISION | DATE | BY | | | | |

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Washington State Department of Transportation

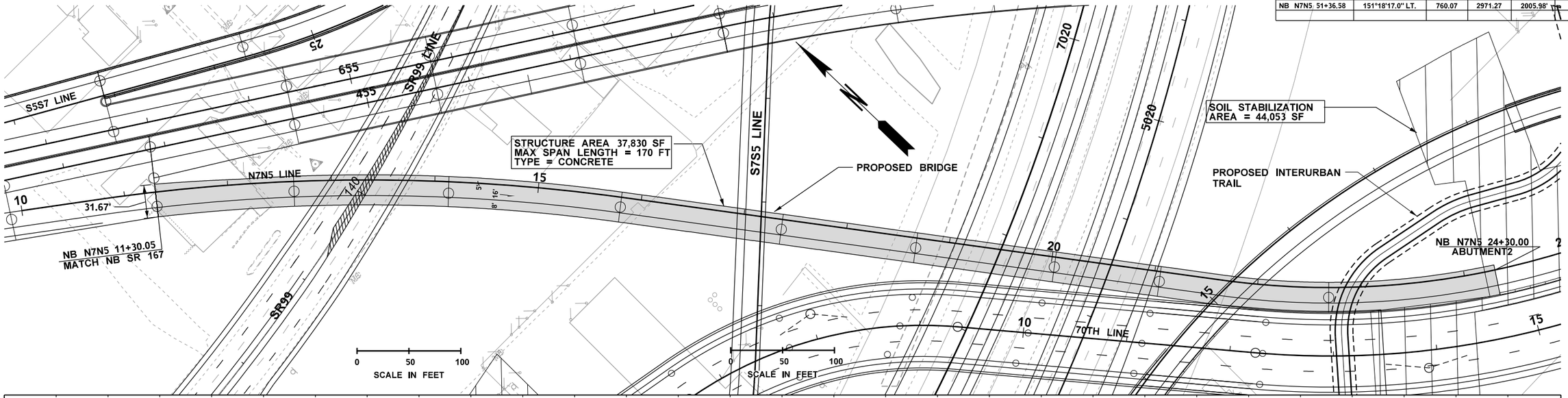
# SR 167 EXTENSION SR 509 TO SR 161
## NEW FREEWAY
## SCHEMATIC BRIDGE STUDY
## BRIDGE PLAN & PROFILE

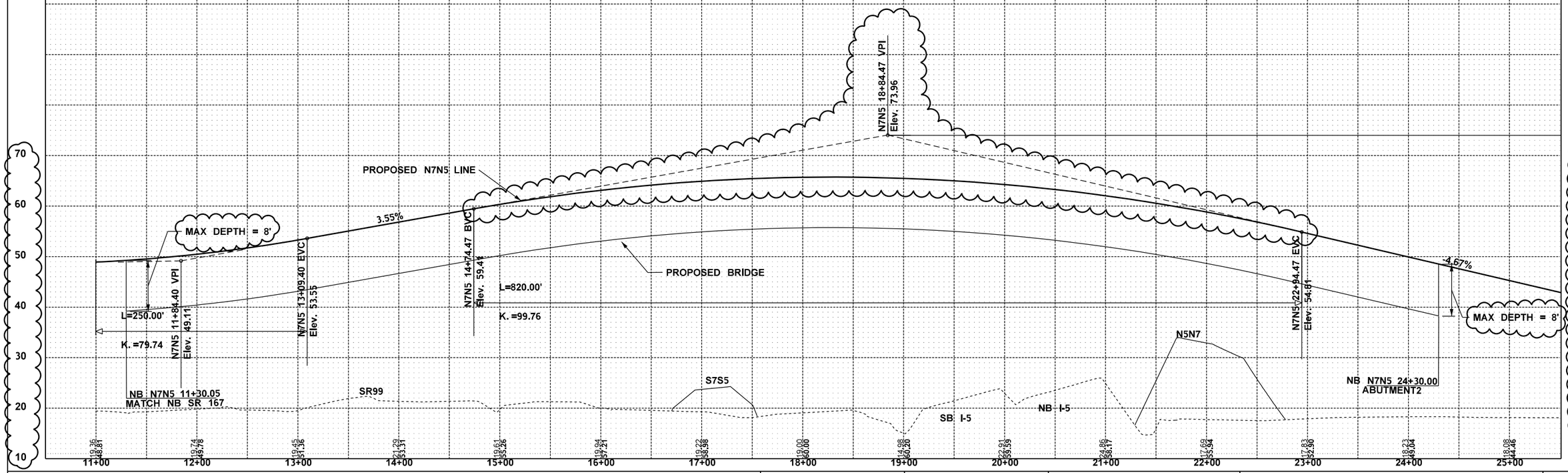
BRIDGE NO. S167-S5 (B)

ST9

SHEET OF SHEETS

| CURVE DATA | | | | | |
|---|---|---|---|---|---|
| P.I. STATION | DELTA | RADIUS | TANGENT | LENGTH | S |
| NB N7N5 13+30.47 | 16°07'33.5" RT. | 1800.00 | 254.99 | 506.61' | - |
| NB N7N5 51+36.58 | 151°18'17.0" LT. | 760.07 | 2971.27 | 2005.98' | - |
| | | | | | |

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| TIME | 12:49:16 PM | | | | 3 | WASH | |
| DATE | 6/27/2013 | | | | JOB NUMBER | | |
| PLOTTED BY | rgreenlee | | | | | | |
| DESIGNED BY | | | | | CONTRACT NO. | | LOCATION NO. |
| ENTERED BY | | | | | | | |
| CHECKED BY | G. SANCHEZ | | | | | | |
| PROJ. ENGR. | S. FUCHS | | | | | | |
| REGIONAL ADM. | K. DAYTON | REVISION | DATE | BY | | | |

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Washington State Department of Transportation

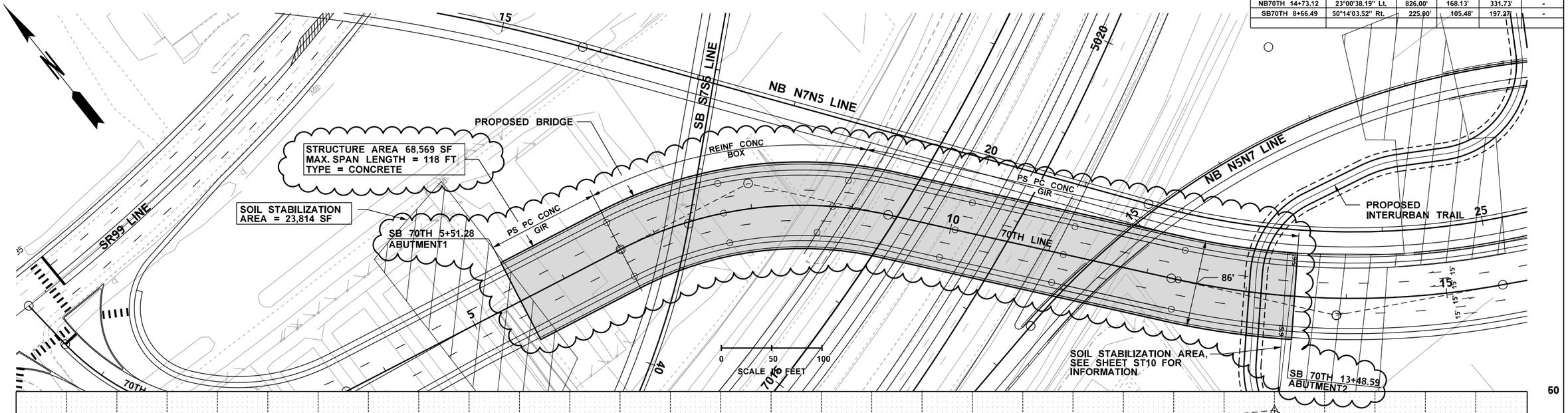
# SR 167 EXTENSION SR 509 TO SR 161
## NEW FREEWAY
## SCHEMATIC BRIDGE STUDY
## BRIDGE PLAN & PROFILE

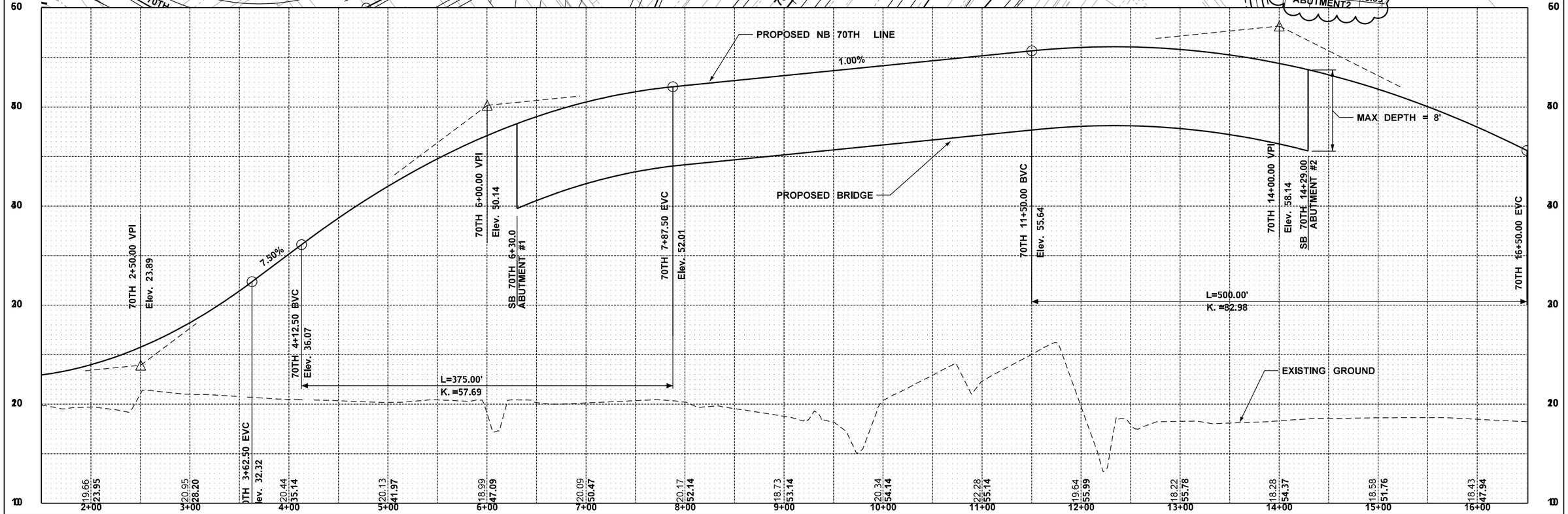
BRIDGE NO. N167-N5

ST10

SHEET OF SHEETS

| CURVE DATA | | | | | |
|---|---|---|---|---|---|
| P.I. STATION | DELTA | RADIUS | TANGENT | LENGTH | S |
| NB70TH 14+73.12 | 23°00'38.19" Lt. | 826.00' | 168.13' | 331.73' | - |
| SB70TH 8+66.49 | 50°14'03.52" Rt. | 225.00' | 105.48' | 197.27 | - |
| | | | | | |

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| DATE | 6/27/2013 | | | | JOB NUMBER | | | |
| PLOTTED BY | rgreenlee | | | | | | | |
| DESIGNED BY | | | | | | | | |
| ENTERED BY | | | | | | | | |
| CHECKED BY | G. SANCHEZ | | | | CONTRACT NO. | | LOCATION NO. | |
| PROJ. ENGR. | S. FUCHS | | | | | | | |
| REGIONAL ADM. | K. DAYTON | REVISION | DATE | BY | | | | |

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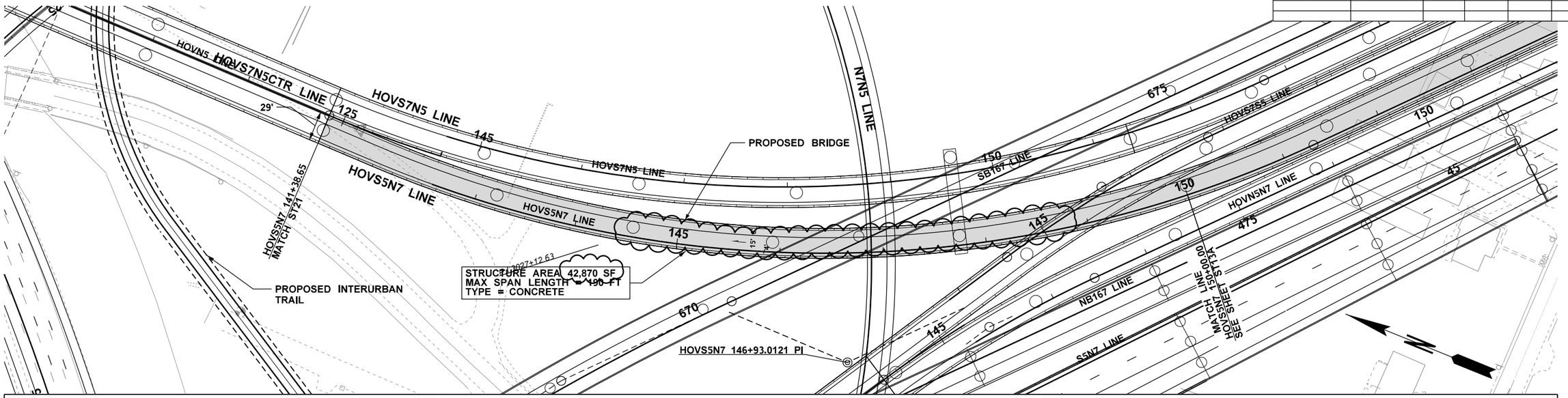
Washington State Department of Transportation

# SR 167 EXTENSION SR 509 TO SR 161
## NEW FREEWAY
## SCHEMATIC BRIDGE STUDY
## BRIDGE PLAN & PROFILE
## BRIDGE NO. 70/5

ST12

SHEET OF SHEETS

| CURVE DATA | | | | | |
|---|---|---|---|---|---|
| P.I. STATION | DELTA | RADIUS | TANGENT | LENGTH | S |
| HOVS5N7 146+93.01 | 48°03'16.29" | 1115.00' | 497.066 | 935.16 | - |
| | | | | | |
| | | | | | |




Note: Vert. Ex. = 2

| | | | | | | | |
|---|---|---|---|---|---|---|---|
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| TIME | 1:06:18 PM | | | | 3 | WASH | |
| DATE | 6/27/2013 | | | | JOB NUMBER | | |
| PLOTTED BY | rgreenlee | | | | | | |
| DESIGNED BY | | | | | | | |
| ENTERED BY | | | | | | | |
| CHECKED BY | G. SANCHEZ | | | | CONTRACT NO. | | LOCATION NO. |
| PROJ. ENGR. | S. FUCHS | | | | | | |
| REGIONAL ADM. | K. DAYTON | REVISION | DATE | BY | | | |

DATE
P.E. STAMP BOX

DATE
P.E. STAMP BOX

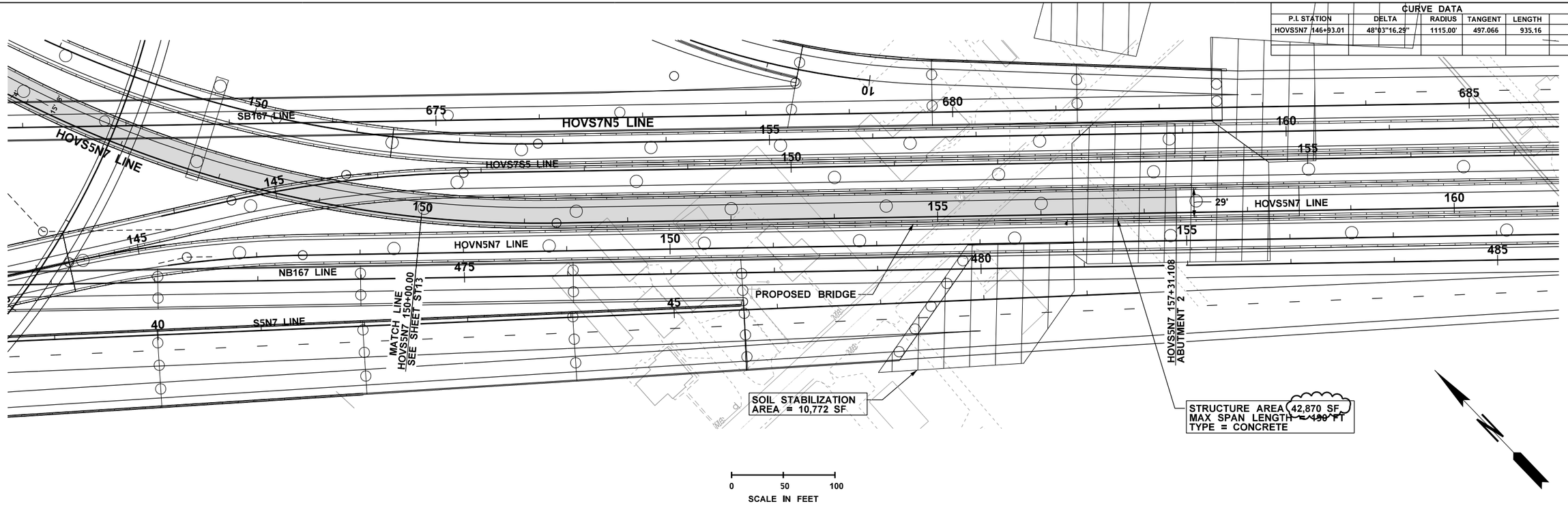
Washington State Department of Transportation

# SR 167 EXTENSION SR 509 TO SR 161
## NEW FREEWAY
## SCHEMATIC BRIDGE STUDY
## BRIDGE PLAN & PROFILE
## BRIDGE NO. S5-N167 (HOV) (A)

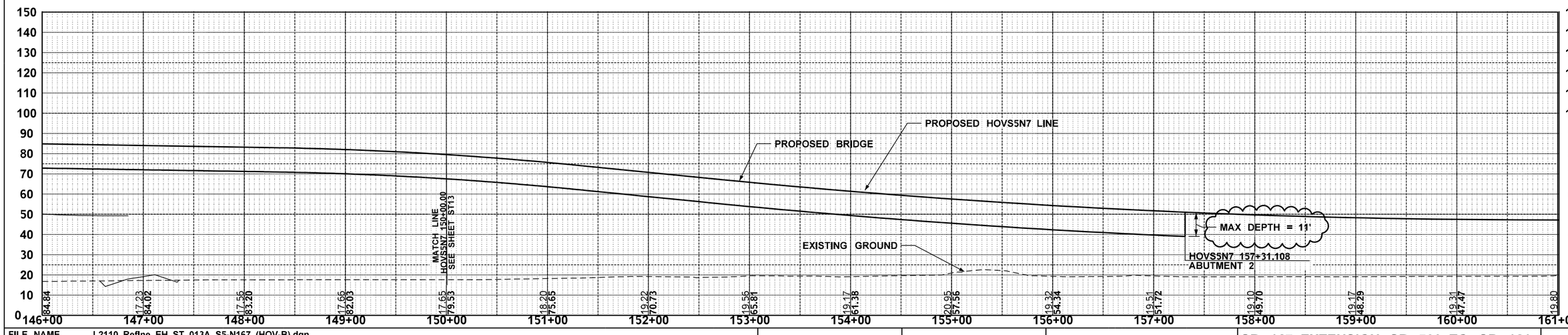
ST13

SHEET OF SHEETS

| CURVE DATA | | | | | |
|---|---|---|---|---|---|
| P.I. STATION | DELTA | RADIUS | TANGENT | LENGTH | S |
| HOVS5N7 146+93.01 | 48°03'16.29" | 1115.00' | 497.066 | 935.16 | - |




Note: Vert. Ex. = 2

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| TIME | 12:49:39 PM | | | | | | | |
| DATE | 6/27/2013 | | | | | | | |
| PLOTTED BY | rgreenlee | | | | | | | |
| DESIGNED BY | | | | | JOB NUMBER | | | |
| ENTERED BY | | | | | | | | |
| CHECKED BY | G. SANCHEZ | | | | CONTRACT NO. | LOCATION NO. | | |
| PROJ. ENGR. | S. FUCHS | | | | | | | |
| REGIONAL ADM. | K. DAYTON | REVISION | DATE | BY | | | | |

DATE
P.E. STAMP BOX

DATE
P.E. STAMP BOX

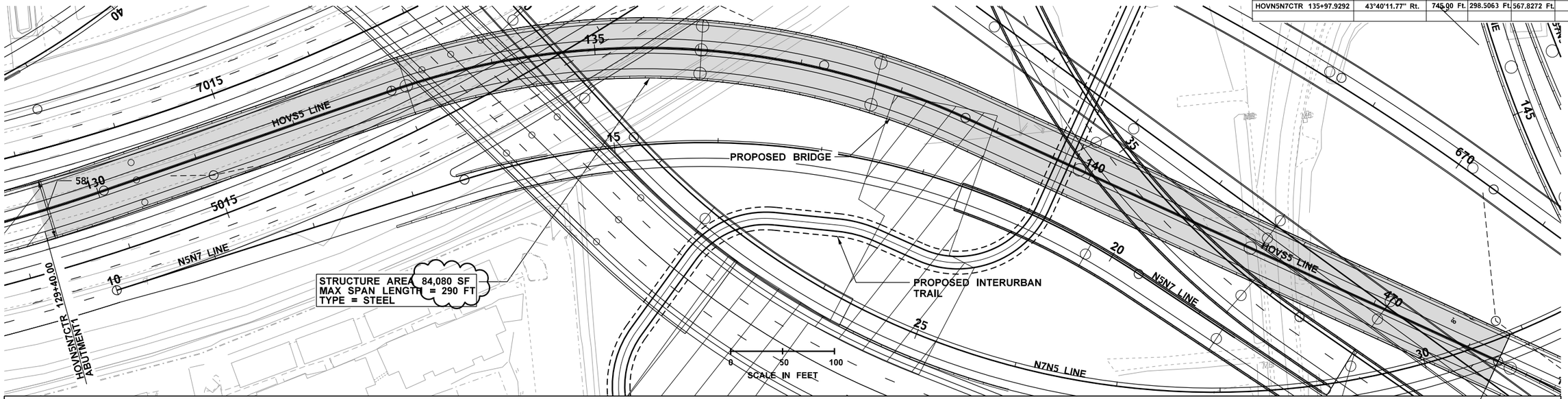
Washington State Department of Transportation

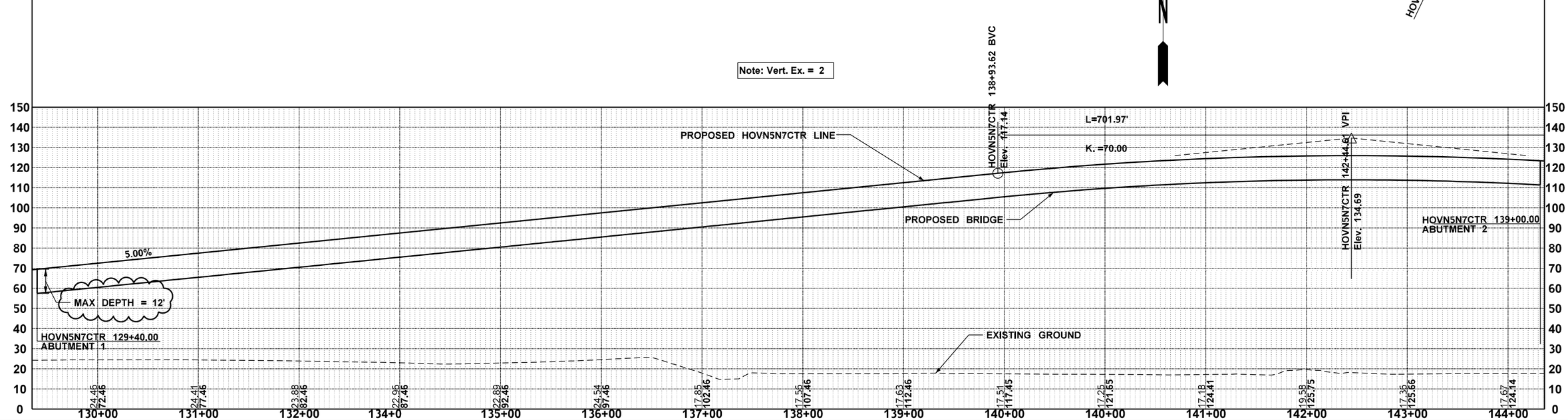
BRIDGE NO. S5-N167 (HOV) (B)

ST13A

SHEET OF SHEETS

| CURVE DATA | | | | | |
|---|---|---|---|---|---|
| P.I. STATION | DELTA | RADIUS | TANGENT | LENGTH | S |
| HOVN5N7CTR 128+40.958 | 11°40'16.23" Lt. | 1624.00 Ft. | 165.9791 Ft. | 330.8095 Ft. | - |
| HOVN5N7CTR 135+97.9292 | 43°40'11.77" Rt. | 745.00 Ft. | 298.5063 Ft. | 567.8272 Ft. | - |
| | | | | | |




| | | | | | | | |
|---|---|---|---|---|---|---|---|
| FILE NAME | L2110_Refine_EH_ST_014_N5-N167(HOVCTR).dgn | | | | REGION NO. | STATE | FED.AID PROJ.NO. |
| TIME | 12:49:48 PM | | | | 3 | WASH | |
| DATE | 6/27/2013 | | | | JOB NUMBER | | |
| PLOTTED BY | rgreenlee | | | | | | |
| DESIGNED BY | | | | | | | |
| ENTERED BY | | | | | | | |
| CHECKED BY | G. SANCHEZ | | | | CONTRACT NO. | | LOCATION NO. |
| PROJ. ENGR. | S. FUCHS | | | | | | |
| REGIONAL ADM. | K. DAYTON | REVISION | DATE | BY | | | |

P.E. STAMP BOX — DATE

P.E. STAMP BOX — DATE

Washington State Department of Transportation

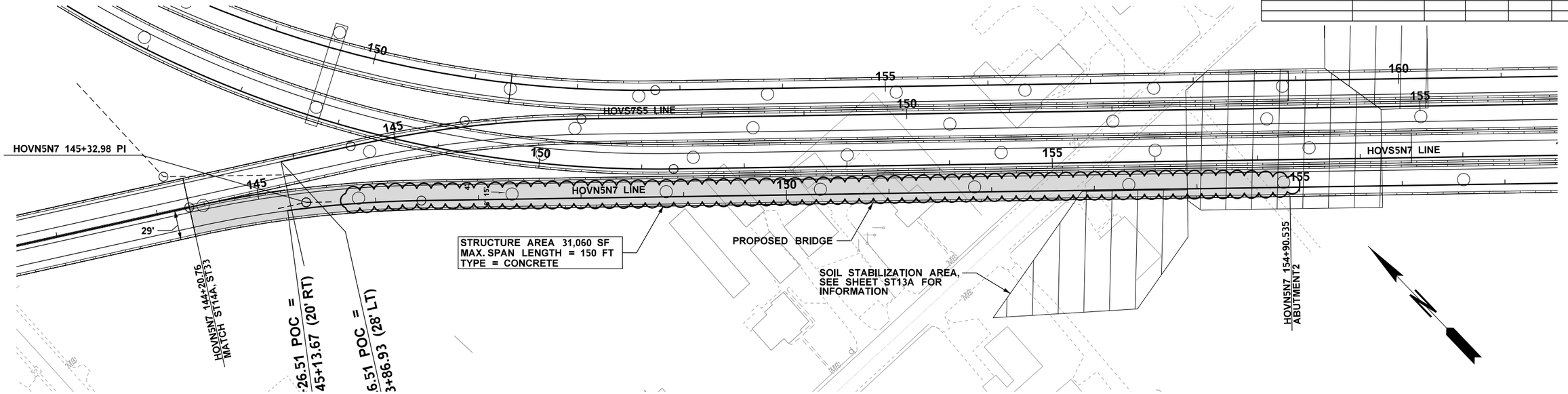
SR 167 EXTENSION SR 509 TO SR 161
NEW FREEWAY
SCHEMATIC BRIDGE STUDY
BRIDGE PLAN & PROFILE

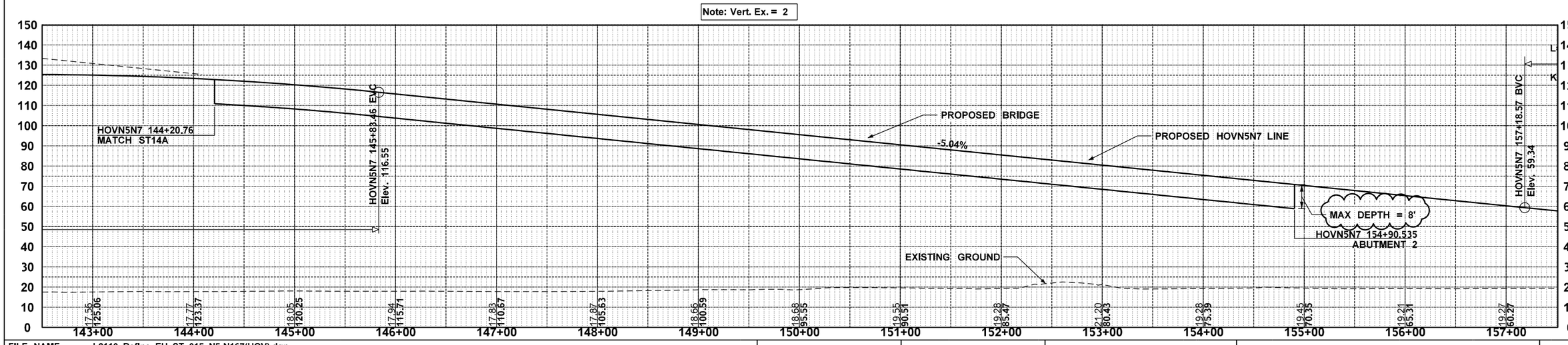
BRIDGE NO. N5-N167 (HOVCTR)

ST14

SHEET OF SHEETS

| CURVE DATA | | | | | |
|---|---|---|---|---|---|
| P.I. STATION | DELTA | RADIUS | TANGENT | LENGTH | S |
| NB HOVN5N7 145+32.98 | 11°38'59.99" | 1100.00 | 112.2188 | 223.66' | - |
| | | | | | |
| | | | | | |




| | | | | | | | |
|---|---|---|---|---|---|---|---|
| FILE NAME | L2110_Refine_EH_ST_015_N5-N167(HOV).dgn | | | | REGION NO. | STATE | FED.AID PROJ.NO. |
| TIME | 1:33:58 PM | | | | 3 | WASH | |
| DATE | 6/27/2013 | | | | JOB NUMBER | | |
| PLOTTED BY | rgreenlee | | | | | | |
| DESIGNED BY | | | | | | | |
| ENTERED BY | | | | | | | |
| CHECKED BY | G. SANCHEZ | | | | CONTRACT NO. | LOCATION NO. | |
| PROJ. ENGR. | S. FUCHS | | | | | | |
| REGIONAL ADM. | K. DAYTON | REVISION | DATE | BY | | | |

P.E. STAMP BOX — DATE

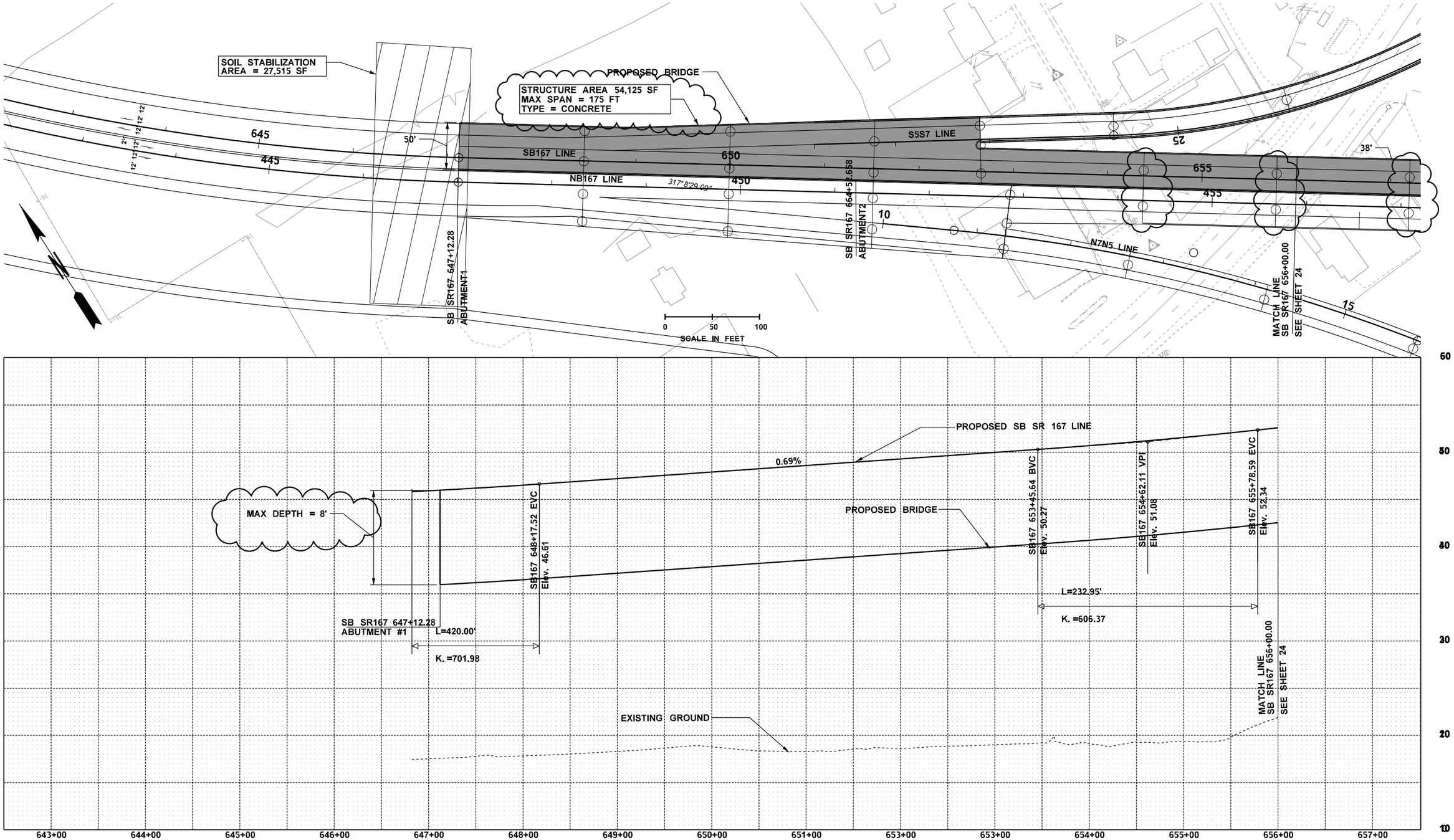
P.E. STAMP BOX — DATE

Washington State Department of Transportation

# SR 167 EXTENSION SR 509 TO SR 161
## NEW FREEWAY
## SCHEMATIC BRIDGE STUDY
## BRIDGE PLAN & PROFILE
## BRIDGE NO. N5-N167(HOV)

ST15

SHEET OF SHEETS




| | | | | | | | |
|---|---|---|---|---|---|---|---|
| FILE NAME | L2110_Refine_EH_ST_016_S167_5 (A).dgn | | | | REGION NO. | STATE | FED.AID PROJ.NO. |
| TIME | 1:34:07 PM | | | | 3 | WASH | |
| DATE | 6/27/2013 | | | | JOB NUMBER | | |
| PLOTTED BY | rgreenlee | | | | | | |
| DESIGNED BY | | | | | CONTRACT NO. | | LOCATION NO. |
| ENTERED BY | | | | | | | |
| CHECKED BY | G. SANCHEZ | | | | | | |
| PROJ. ENGR. | S. FUCHS | | | | | | |
| REGIONAL ADM. | K. DAYTON | REVISION | DATE | BY | | | |

P.E. STAMP BOX — DATE

P.E. STAMP BOX — DATE

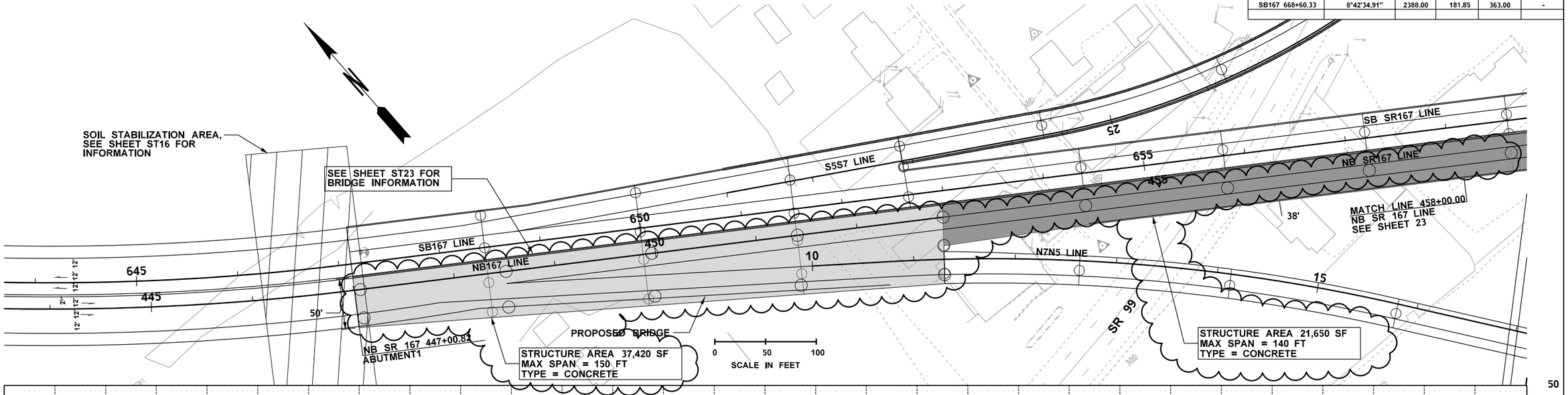
Washington State Department of Transportation

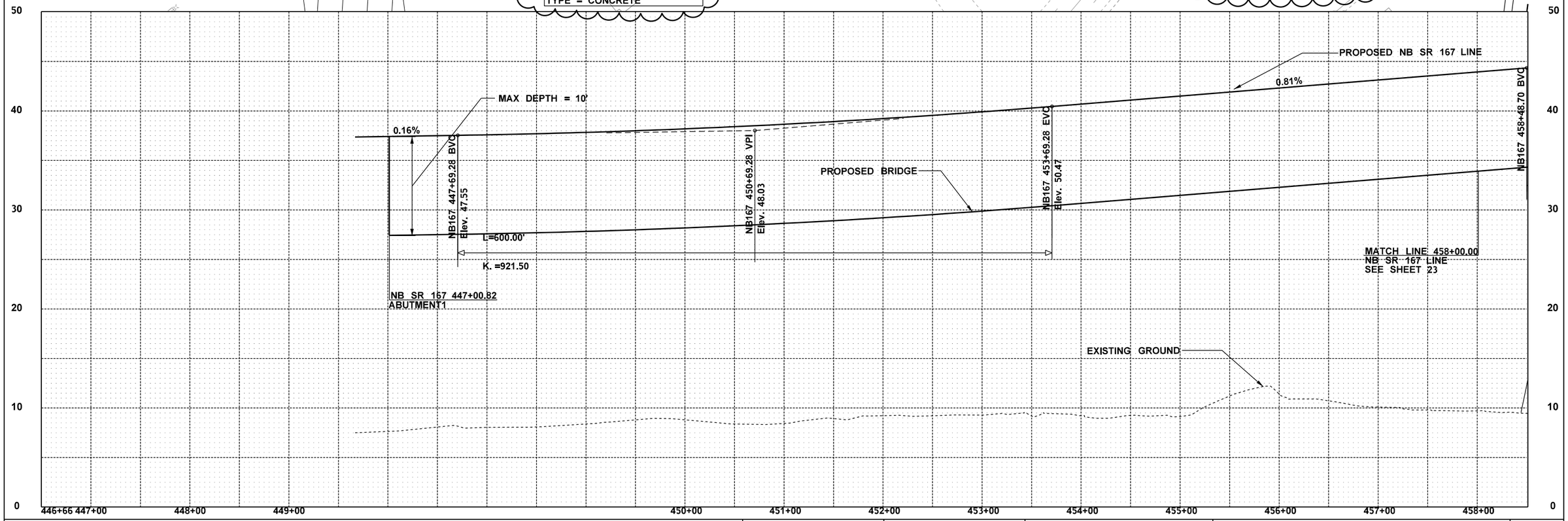
# SR 167 EXTENSION SR 509 TO SR 161
## NEW FREEWAY
## SCHEMATIC BRIDGE STUDY
## BRIDGE PLAN & PROFILE
## BRIDGE NO. S167/5 (A)

ST16

SHEET OF SHEETS

| CURVE DATA | | | | | |
|---|---|---|---|---|---|
| P.I. STATION | DELTA | RADIUS | TANGENT | LENGTH | S |
| NB167 460+14.81 | 8°42'34.91" | 2412.00 | 183.68 | 366.66 | - |
| SB167 668+60.33 | 8°42'34.91" | 2388.00 | 181.85 | 363.00 | - |
| | | | | | |




| | | | | | | | |
|---|---|---|---|---|---|---|---|
| FILE NAME | L2110_Refine_EH_ST_017_N167_5(A).dgn | | | | REGION NO. | STATE | FED.AID PROJ.NO. |
| TIME | 12:50:11 PM | | | | 3 | WASH | |
| DATE | 6/27/2013 | | | | JOB NUMBER | | |
| PLOTTED BY | rgreenlee | | | | | | |
| DESIGNED BY | | | | | CONTRACT NO. | | LOCATION NO. |
| ENTERED BY | | | | | | | |
| CHECKED BY | G. SANCHEZ | | | | | | |
| PROJ. ENGR. | S. FUCHS | | | | | | |
| REGIONAL ADM. | K. DAYTON | REVISION | DATE | BY | | | |

P.E. STAMP BOX — DATE

P.E. STAMP BOX — DATE

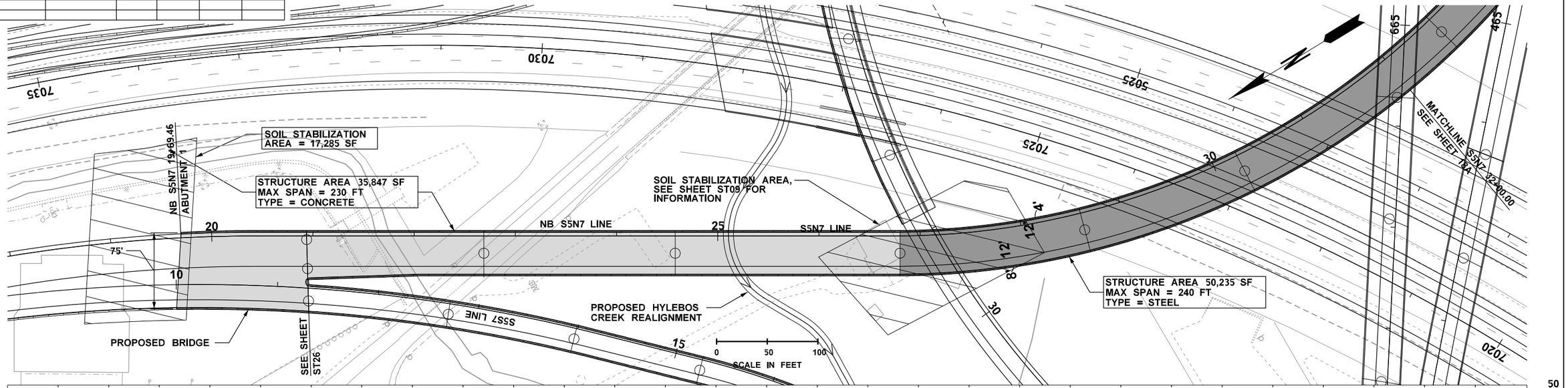
Washington State Department of Transportation

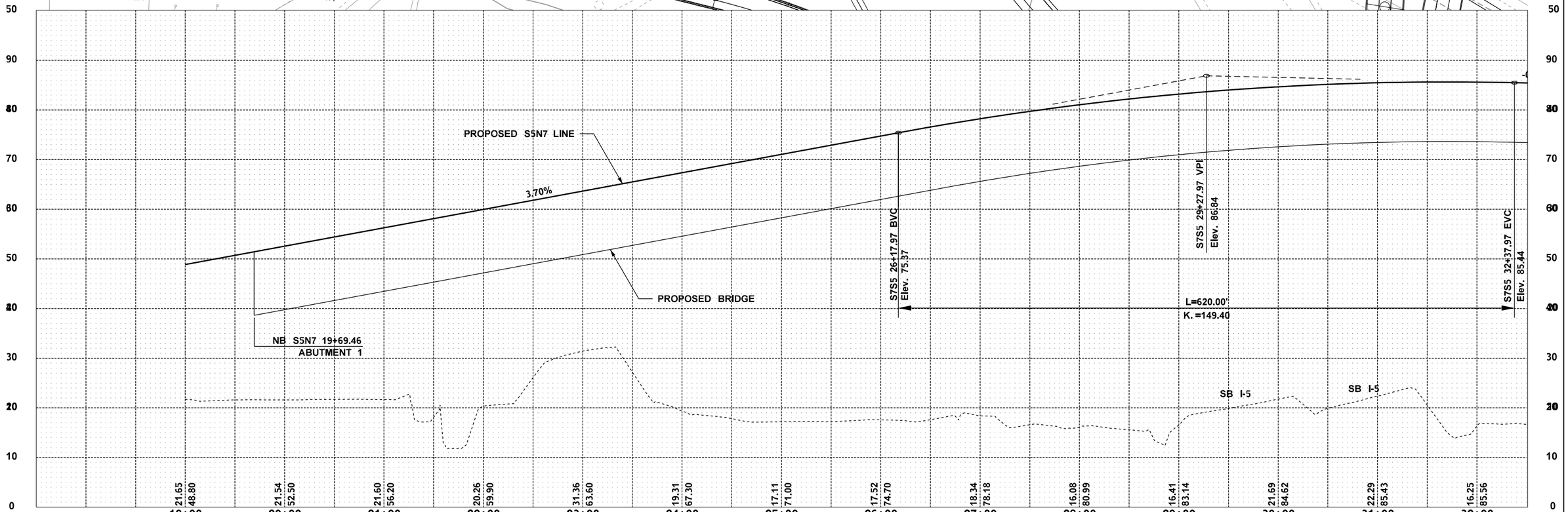
# SR 167 EXTENSION SR 509 TO SR 161
## NEW FREEWAY
## SCHEMATIC BRIDGE STUDY
## BRIDGE PLAN & PROFILE
## BRIDGE NO. N167/5 (A)

ST17

SHEET OF SHEETS

| CURVE DATA | | | | | |
|---|---|---|---|---|---|
| P.I. STATION | DELTA | RADIUS | TANGENT | LENGTH | S |
| NB S5N7 130+56.44 | 79°58'02.33" Lt. | 760.00' | 637.35' | 1060.73' | - |
| | | | | | |
| | | | | | |




| | | | | | | | |
|---|---|---|---|---|---|---|---|
| FILE NAME | L2110_Refine_EH_ST_018_S5N7-1.dgn | | | | REGION NO. | STATE | FED.AID PROJ.NO. |
| TIME | 12:50:18 PM | | | | 3 | WASH | |
| DATE | 6/27/2013 | | | | JOB NUMBER | | |
| PLOTTED BY | rgreenlee | | | | | | |
| DESIGNED BY | | | | | | | |
| ENTERED BY | | | | | | | |
| CHECKED BY | G. SANCHEZ | | | | CONTRACT NO. | | LOCATION NO. |
| PROJ. ENGR. | S. FUCHS | | | | | | |
| REGIONAL ADM. | K. DAYTON | REVISION | DATE | BY | | | |

DATE
P.E. STAMP BOX

DATE
P.E. STAMP BOX

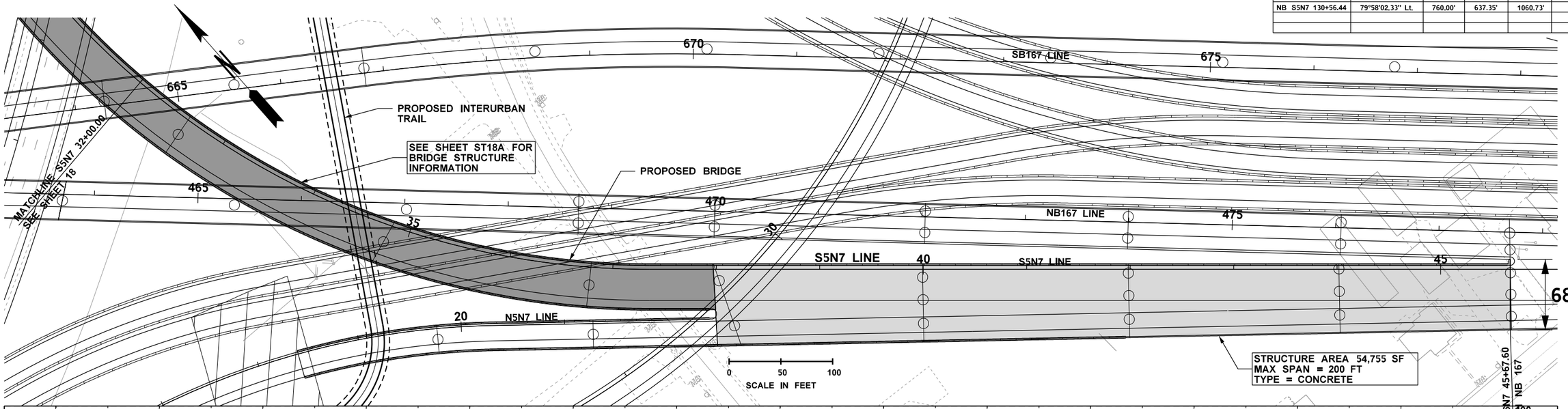
Washington State Department of Transportation

# SR 167 EXTENSION SR 509 TO SR 161
## NEW FREEWAY
## SCHEMATIC BRIDGE STUDY
## BRIDGE PLAN & PROFILE
## BRIDGE NO. S5-N167 (A)

ST18

SHEET OF SHEETS

| CURVE DATA | | | | | |
|---|---|---|---|---|---|
| P.I. STATION | DELTA | RADIUS | TANGENT | LENGTH | S |
| NB S5N7 130+56.44 | 79°58'02.33" Lt. | 760.00' | 637.35' | 1060.73' | - |
| | | | | | |
| | | | | | |




| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| FILE NAME | L2110_Refine_EH_ST_018A_S5N7-2.dgn | | | | REGION NO. | STATE | FED.AID PROJ.NO. | |
| TIME | 12:50:26 PM | | | | 3 | WASH | | |
| DATE | 6/27/2013 | | | | JOB NUMBER | | | |
| PLOTTED BY | rgreenlee | | | | | | | |
| DESIGNED BY | | | | | | | | |
| ENTERED BY | | | | | | | | |
| CHECKED BY | G. SANCHEZ | | | | CONTRACT NO. | | LOCATION NO. | |
| PROJ. ENGR. | S. FUCHS | | | | | | | |
| REGIONAL ADM. | K. DAYTON | REVISION | DATE | BY | | | | |

DATE
P.E. STAMP BOX

DATE
P.E. STAMP BOX

Washington State Department of Transportation

# SR 167 EXTENSION SR 509 TO SR 161
## NEW FREEWAY
## SCHEMATIC BRIDGE STUDY
## BRIDGE PLAN & PROFILE
## BRIDGE NO. S5 S167 (B)

ST18A

SHEET OF SHEETS