

# Information for File #2015-01228-BGO

**Applicant:** Pipestone County Highway Department

**Corps Contact:** Benjamin Orne

**Address:** 180 Fifth Street East, Suite 700, St. Paul, Minnesota 55101-1678

**E-Mail:** [benjamin.g.orne@usace.army.mil](mailto:benjamin.g.orne@usace.army.mil)

**Phone:** (651) 290-5280

**Project Location:** Sec. 25 & 36, T. 106N., R. 45W., Sec. 30 & 31, T. 106N., R. 44W., Sec. 1, 12, 13, & 24, T. 105N., R. 45W., and Sec. 6, 7, 18, & 19, T. 105N., R. 44W., Pipestone County, Minnesota.

**Information Complete On:** May 12, 2015

**Posting Expires On:** May 22, 2015

**Authorization Type:** LOP-05-MN

This application is being reviewed in accordance with the practices for documenting Corps jurisdiction under Sections 9 & 10 of the Rivers and Harbor Act of 1899 and Section 404 of the Clean Water Act identified in Regulatory Guidance Letter 07-01. We have made a preliminary determination that the aquatic resources that would be impacted by the proposed project are regulated by the Corps of Engineers under Section 404 of the Clean Water Act. Our jurisdictional review and final jurisdictional determination could result in modifications to the scope of the project's regulated waterbody/wetland impacts and compensatory mitigation requirements identified below.

## Project Description:

The Pipestone County Highway Department proposes to discharge dredged or fill material into 4.04 acres of seasonally flooded (Type 1) wetlands at 20 wetland crossings and 701 linear feet (0.40 acre) of stream at 5 stream crossings. Of which, approximately 1.58 acre of wetland impact will result from permanent fill, 1.57 acre of wetland impacts will result from permanent excavation, and 0.89 acre of wetland impact will result from temporary fill. The work will be conducted in association with the reconstruction of an approximately 5.89-mile segment of County State Aid Highway 16, including the replacement of five existing structures (SP 059-616-032), as follows:

- STA. 20+89 - Remove 1-line of 73-inch RCP arch culvert and replace with 2-lines of 65-inch by 45-inch RCP arch culvert with end sections and riprap protection (Bridge 59K05). This work would result in the discharge of dredged or fill material below the plane of the ordinary high water mark along 104 linear feet (0.05 acre) of an unnamed tributary to Poplar Creek.
- STA. 186+66 - Remove an existing 26-foot timber slab span bridge (Bridge 59504) and replace with 1-line of 16-foot by 8-foot and 1-line of 16-foot by 7-foot concrete box culvert with end sections and riprap protection (Bridge 59K06). This work would result in the discharge of dredged or fill material below the plane of the ordinary high water mark along 220 linear feet (0.14 acre) of an unnamed tributary to Rock River.

- STA. 198+48 - Remove 2-lines of 10-foot by 8-foot concrete box culvert (Bridge 92645) and replace with 2-lines of 12-foot by 10-foot concrete box culvert with end sections and riprap protection (Bridge 59K07). This work would result in the discharge of dredged or fill material below the plane of the ordinary high water mark along 140 linear feet (0.13 acre) of an unnamed tributary to Rock River.
- STA. 198+48 – Remove 1-line of 6-foot by 4-foot concrete box culvert and replace with 1-line of 10-foot by 5-foot concrete box culvert with end sections and riprap protection (Bridge 59K08). This work would result in the discharge of dredged or fill material below the plane of the ordinary high water mark along 151 linear feet (0.03 acre) of an unnamed tributary to Rock River.
- STA. 304+65 - Remove 1-line of 98-inch structural plate arch culvert and replace with 1-line of 12-foot by 6-foot concrete box culvert with end sections and riprap protection (Bridge 59K09). This work would result in the discharge of dredged or fill material below the plane of the ordinary high water mark along 86 linear feet (0.05 acre) of an unnamed tributary to Rock River.

The existing facility does not meet current design standards and has several infrastructure (structurally deficient culverts and bridges and poor pavement) and geometric deficiencies (narrow shoulders and steep inslopes). The proposed improvement work would replace the existing structures and widen the existing road surface to 12-foot-wide paved driving lanes and 5-foot-wide aggregate shoulders. The minimum design standard for shoulders on this roadway is 4 feet wide. However, 5-foot-wide shoulders are being proposed to provide additional width for large agricultural equipment and to accommodate for future pavement overlay.

### **Federally Listed Threatened and Endangered Species**

According to the USFWS Midwest Region website, which was checked on May 12, 2015, the Northern long-eared bat (threatened), Topeka shiner (endangered), Dakota skipper (threatened), Poweshiek skipperling (endangered), and western prairie fringed orchid (threatened) are found in Pipestone County, MN.

### **Historic Properties**

The latest version of the National Register of Historic Places has been consulted and no listed properties (known to be eligible for inclusion, or included in the Register) are located in the project area.

### **State Listed Impaired (Section 303(d)) Waters**

According to the Minnesota Pollution Control Agency's Impaired Waters Viewer, which was checked on May 12, 2015, there are no state listed impaired waters located within 1-mile of the project area.

### **Mitigation**

The applicant proposes to satisfy wetland compensatory mitigation requirements by debiting wetland credits from a Corps-approved, Board of Water and Soil Resources Local Government Roads Wetland Replacement Program mitigation bank.

### **Drawings**

See attached MVP-2015-01228-BGO, Page 1 of 17 through Page 17 of 17.



THIS PLAN WAS ESTABLISHED BY USING NAD83(2011) PIPESTONE COUNTY COORDINATES

PLANS SYMBOLS

- POWER POLE
- TELEPHONE STAND
- FIRE HYDRANT
- WATER VALVE
- FIBER OPTIC LINE MARKER
- DECIDUOUS TREE
- CONIFEROUS TREE
- STUMP
- MAN HOLE
- LIGHT POLE
- SHRUB LINE
- ROCK
- WELL
- FIELD TILE
- SILO
- ELECTRIC POWER BOX
- GAS VALVE
- POST
- MAILBOX
- BENCHMARK
- SECTION OR QUARTER CORNER
- CATCH BASIN
- SILT FENCE
- ELECTRIC FENCE
- WOODEN FENCE
- WIRE FENCE
- RAILROAD TRACKS
- RIGHT-OF-WAY LINE
- SLOPE EASEMENT
- TEMPORARY EASEMENT
- CORPORATE OR CITY LIMITS
- DRAIN TILE
- CULVERT
- RAILROAD CROSSING SIGN
- RAILROAD CROSSING BELL
- ELECTRIC WARNING SIGN
- CROSSING GATE
- IRON PIPE OR ROD

UTILITIES SYMBOLS

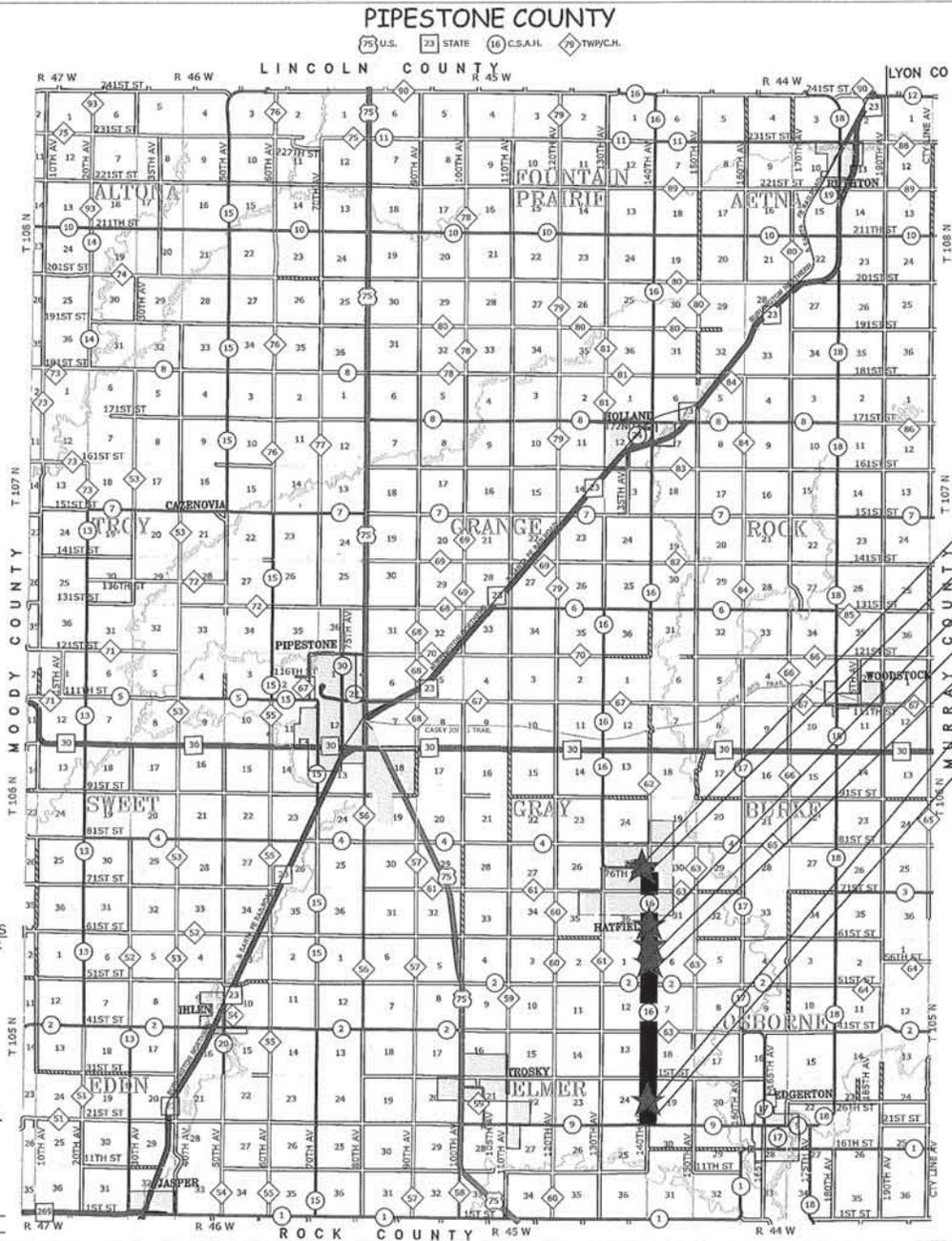
- POWER POLE LINE
- TELEPHONE OR TELEGRAPH POLE LINE
- WATER MAIN
- BURIED TELEPHONE CABLE
- BURIED ELECTRIC CABLE
- BURIED FIBER OPTIC
- AERIAL TELEPHONE CABLE

STOPPING SIGHT DISTANCE  
BASED ON:  
3.5' HEIGHT OF EYE  
2.0' HEIGHT OF OBJECT

FUNCTIONAL CLASS  
MAJOR COLLECTOR  
2 TRAFFIC LANES

DESIGN DESIGNATION

RURAL  
ADT (302) 2017  
ADT (363) 2037  
HCADT (HEAVY COMMERCIAL) <150  
9 TON DESIGN "R" VALUE 130 %S.F.  
EN18 SHOULDER WIDTH 5'  
DESIGN SPEED: 40 MPH  
DESIGN SPEED NOT ACHIEVED AT:  
STA. --- TO STA. --- MPH --  
STA. --- TO STA. --- MPH --



MINN. PROJ. NO. STPX 59 ( )  
MINNESOTA DEPARTMENT OF TRANSPORTATION  
CONSTRUCTION PLAN FOR: SHOULDER WIDENING, CULVERT REPLACEMENT,  
SHOULDER BASE AGG., BIT, WEAR COURSE  
**COUNTY STATE AID HIGHWAY 16**  
BETWEEN C.S.A.H. 9 AND B STREET (HATFIELD)  
FROM: THE NW CORNER OF SEC. 30-105-44  
TO: 2229.74' WEST OF THE EAST QUARTER CORNER OF SEC. 25-106-45  
GOING SOUTH FROM THE CITY OF HATFIELD

GROSS LENGTH 31100.00 FEET 5.890 MILES  
BRIDGES LENGTH 119.00 FEET 0.023 MILES  
EXCEPTIONS LENGTH --- FEET --- MILES  
NET LENGTH 31100.00 FEET 5.890 MILES

INDEX OF SHEETS  
SHEET NO. 1 TITLE SHEET, LAYOUT MAP & INDEX  
SHEET NO. 2 ESTIMATED QUANTITIES  
NO. 3-4 TYPICAL SECTION  
NO. 5 EROSION CONTROL  
NO. 6-8 TABULATIONS  
NO. 9-30 BRIDGE CULVERT DETAILS  
NO. 31-42 PLAN & PROFILE  
NO. 43-40 CROSS SECTIONS

THIS PLAN CONTAINS 60 SHEETS  
**END S.P. 059-616-032**  
STA. 311+00.00  
S.P. 059-616-032 BR. NO. 59K09  
STA. 304+58 TO 304+72  
S.P. 059-616-032 BR. NO. 59K08  
STA. 214+78 TO 214+90  
S.P. 059-616-032 BR. NO. 59K07  
STA. 198+34 TO 198+62  
S.P. 059-616-032 BR. NO. 59K06  
STA. 186+47 TO 186+83  
S.P. 059-616-032 BR. NO. 59K05  
STA. 20+75 TO 21+04  
**BEGIN S.P. 059-616-032**  
STA. 0+00.00  
STA. 0+00 TO STA. 311+00 GRADED UNDER  
S.P. 59-505-04 (1956)

GOVERNING SPECIFICATIONS  
THE 2014 EDITION OF THE MINNESOTA DEPARTMENT OF TRANSPORTATION "STANDARD SPECIFICATIONS FOR CONSTRUCTION" AND THE 2014 EDITION OF THE "MATERIALS LAB SUPPLEMENTAL SPECIFICATIONS FOR CONSTRUCTION" SHALL GOVERN.

ALL APPLICABLE FEDERAL, STATE AND LOCAL LAWS AND ORDINANCES WILL BE COMPLIED WITH, IN THE CONSTRUCTION OF THIS PROJECT.

SIGNATURE: \_\_\_\_\_ PRINTED NAME: DAVID J. HALBERSMA  
DESIGN ENGINEER: I HEREBY CERTIFY THAT THIS PLAN WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.  
DATE: \_\_\_\_\_ LICENSE NUMBER: 19952  
APPROVED: PIPESTONE COUNTY ENGINEER DATE: \_\_\_\_\_  
DISTRICT STATE AID ENG.: REVIEWED FOR COMPLIANCE WITH STATE-AID RULES/POLICY DATE: \_\_\_\_\_  
STATE AID ENGINEER: APPROVED FOR STATE AID FUNDING DATE: \_\_\_\_\_

PIPESTONE COUNTY, MN  
STATE PROJECT NO. 059-616-032 SHEET 1 OF 60 SHEETS

SP 059-616-032

C.S.A.H. 16

PAGE 1 OF 16



- = WETLAND PERMANENT FILL IMPACT
- = WETLAND PERMANENT CUT IMPACT
- = WETLAND TEMPORARY IMPACT
- = STREAM IMPACT
- = WETLAND BOUNDARY

WETLAND A, TYPE 1  
TRIBUTARY TO ROCK RIVER 39' (0.02 ACRE)  
0.03 ACRE FILL  
0.01 ACRE CUT

WETLAND B, TYPE 1  
TRIBUTARY TO ROCK RIVER 47' (0.03 ACRE)  
0.15 ACRE FILL  
0.15 ACRE CUT  
366 SQ. FT. TEMPORARY

SP 059-616-032  
C.S.A.H. 16  
98" ARCH CULVERT  
140TH AV

SP 059-616-032

C.S.A.H. 16

PAGE 2 OF 16



- Red = WETLAND PERMANENT FILL IMPACT
- Yellow = WETLAND PERMANENT CUT IMPACT
- Purple = WETLAND TEMPORARY IMPACT
- Blue = STREAM IMPACT
- Green = WETLAND BOUNDARY

WETLAND C, TYPE 1  
0.07 ACRE FILL  
0.07 ACRE CUT

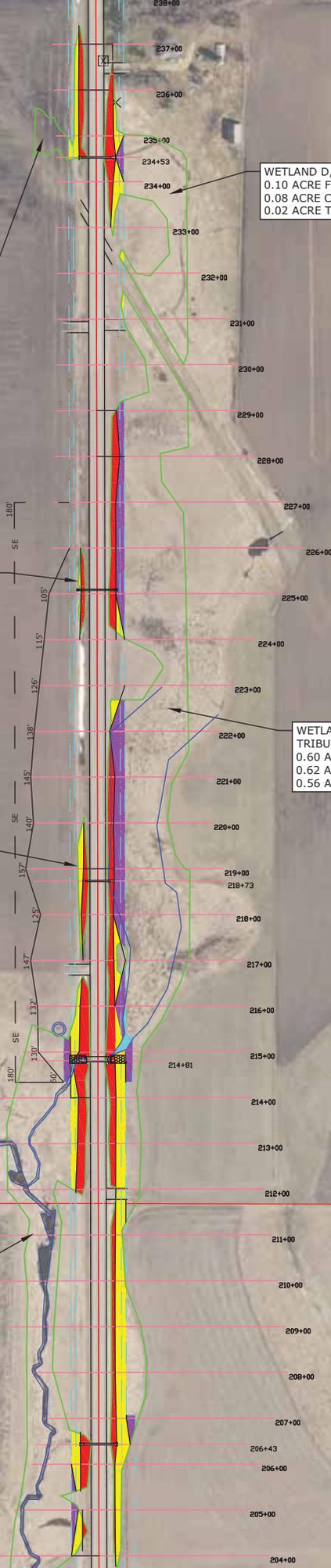
WETLAND D, TYPE 1  
0.10 ACRE FILL  
0.08 ACRE CUT  
0.02 ACRE TEMPORARY

WETLAND F, TYPE 1  
0.03 ACRE FILL  
432 SQ. FT. CUT

WETLAND E, TYPE 1  
TRIBUTARY TO ROCK RIVER 75' (0.02 ACRE)  
0.60 ACRE FILL  
0.62 ACRE CUT  
0.56 ACRE TEMPORARY

WETLAND G, TYPE 1  
0.05 ACRE FILL  
0.05 ACRE CUT

WETLAND H, TYPE 1  
TRIBUTARY TO ROCK RIVER 76' (0.01 ACRE)  
0.27 ACRE FILL  
0.22 ACRE CUT  
0.06 ACRE TEMPORARY



SP 059-616-032  
C.S.A.H. 16  
6' x 4' BOX  
140TH AV



SP 059-616-032  
 C.S.A.H. 16  
 92645  
 140TH AV

WETLAND I, TYPE 1  
 TRIBUTARY TO E. BRANCH ROCK RIVER 80' (0.04 ACRE)  
 0.02 ACRE FILL  
 0.05 ACRE CUT  
 0.06 ACRE TEMPORARY

WETLAND J, TYPE 1  
 TRIBUTARY TO E. BRANCH ROCK RIVER 60' (0.09 ACRE)  
 384 SQ. FT. FILL  
 367 SQ. FT. CUT  
 0.02 ACRE TEMPORARY

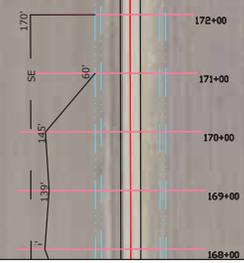
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- = WETLAND TEMPORARY IMPACT
- = STREAM IMPACT
- = WETLAND BOUNDARY

WETLAND K  
 NO IMPACT

WETLAND L, TYPE 1  
 TRIBUTARY TO E. BRANCH ROCK RIVER 160' (0.10 ACRE)  
 0.06 ACRE FILL  
 0.22 ACRE CUT  
 0.09 ACRE TEMPORARY

WETLAND M, TYPE 1  
 TRIBUTARY TO E. BRANCH ROCK RIVER 60' (0.04 ACRE)  
 0.02 ACRE FILL  
 0.01 ACRE CUT  
 0.02 ACRE TEMPORARY

SP 059-616-032  
 C.S.A.H. 16  
 59504  
 140TH AV



SP 059-616-032

C.S.A.H. 16

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- = WETLAND PERMANENT FILL IMPACT
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- = WETLAND BOUNDARY



WETLAND N, TYPE 1  
0.02 ACRE FILL  
407 SQ. FT. CUT  
361 SQ. FT. TEMPORARY

WETLAND O, TYPE 1  
315 SQ. FT. FILL  
334 SQ. FT. TEMPORARY

WETLAND P, TYPE 1  
143 SQ. FT. FILL  
289 SQ. FT. CUT

WETLAND Q, TYPE 1  
351 SQ. FT. FILL  
203 SQ. FT. TEMPORARY

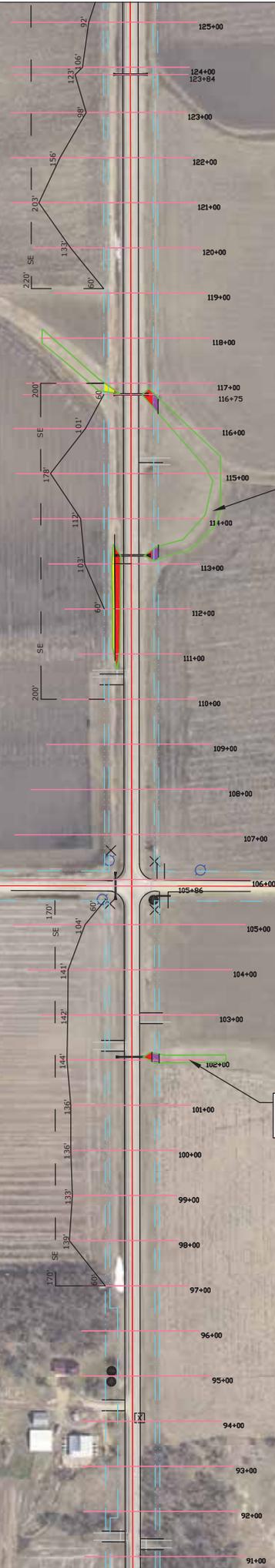
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C.S.A.H. 16

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- █ = WETLAND PERMANENT FILL IMPACT
- █ = WETLAND PERMANENT CUT IMPACT
- █ = WETLAND TEMPORARY IMPACT
- █ = WETLAND BOUNDARY



WETLAND R, TYPE 1  
0.08 ACRE FILL  
0.04 ACRE CUT  
0.02 ACRE TEMPORARY

WETLAND S, TYPE 1  
216 SQ. FT. FILL  
334 SQ. FT. TEMPORARY

SP 059-616-032

C.S.A.H. 16

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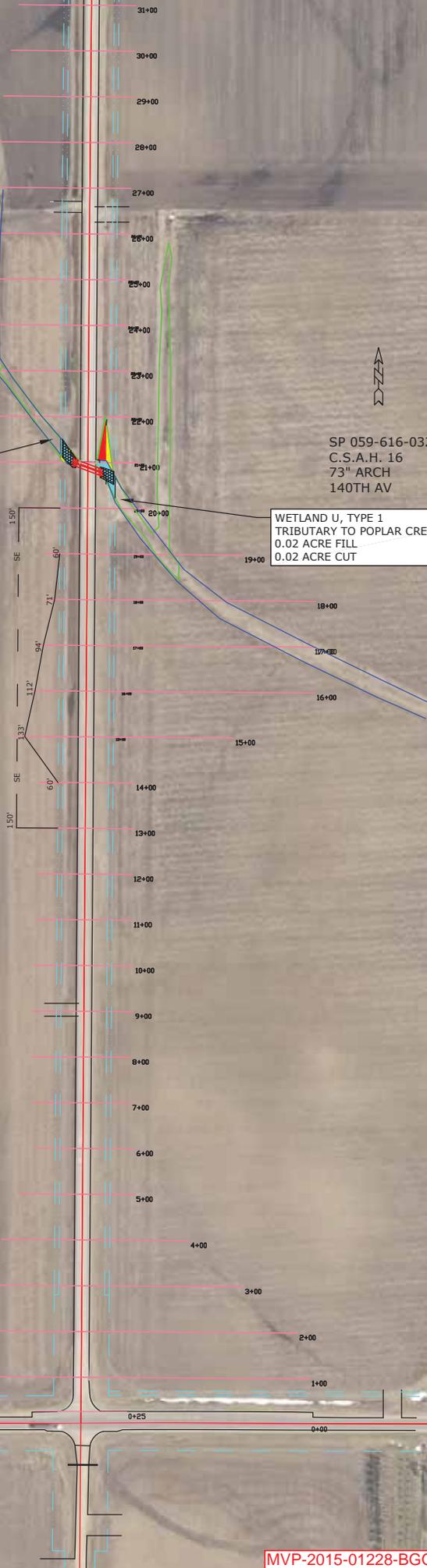


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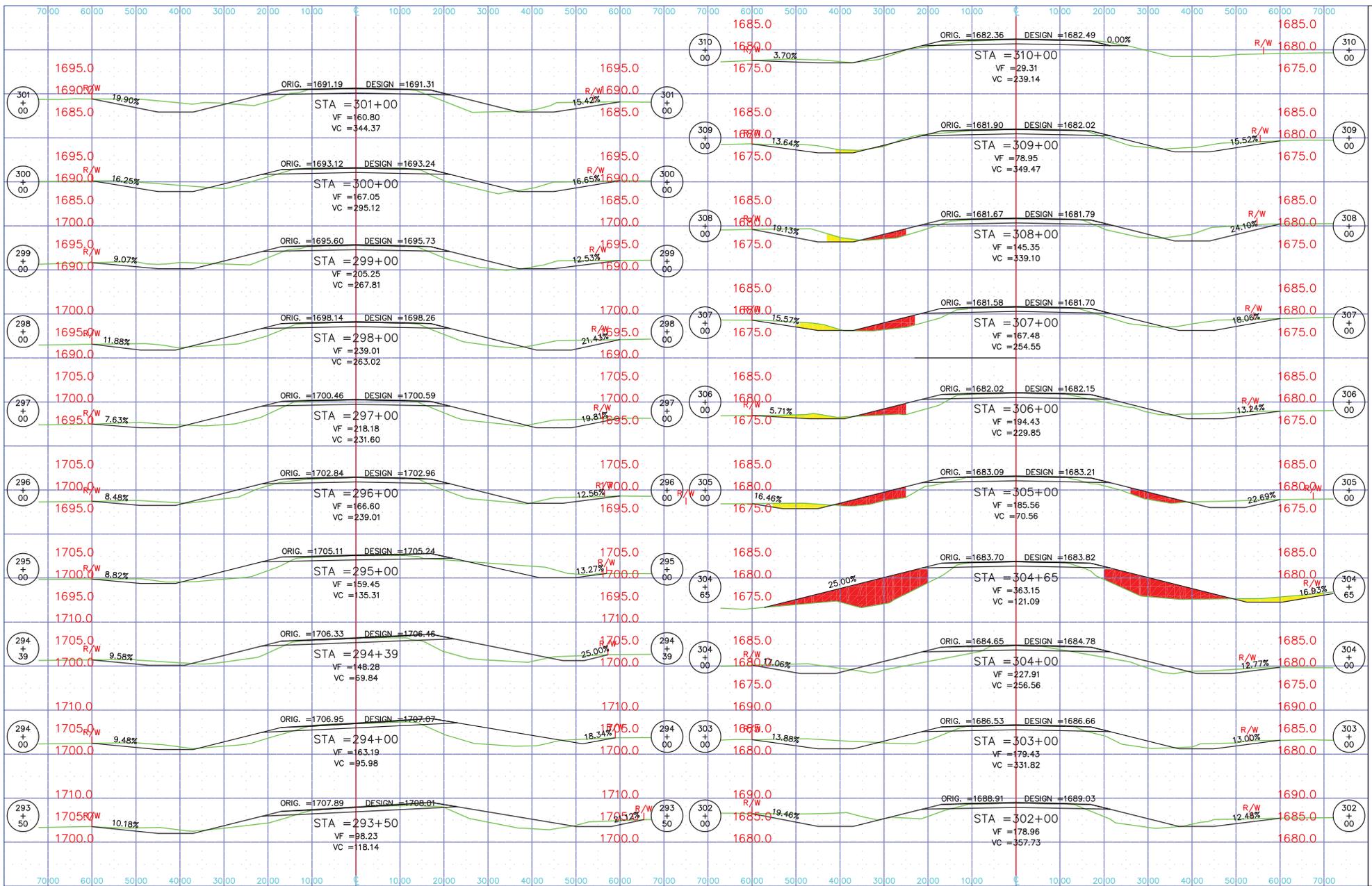
WETLAND T, TYPE 1  
TRIBUTARY TO POPLAR CREEK 42' (0.02 ACRE)  
148 SQ. FT. FILL  
135 SQ. FT. CUT

SP 059-616-032  
C.S.A.H. 16  
73" ARCH  
140TH AV

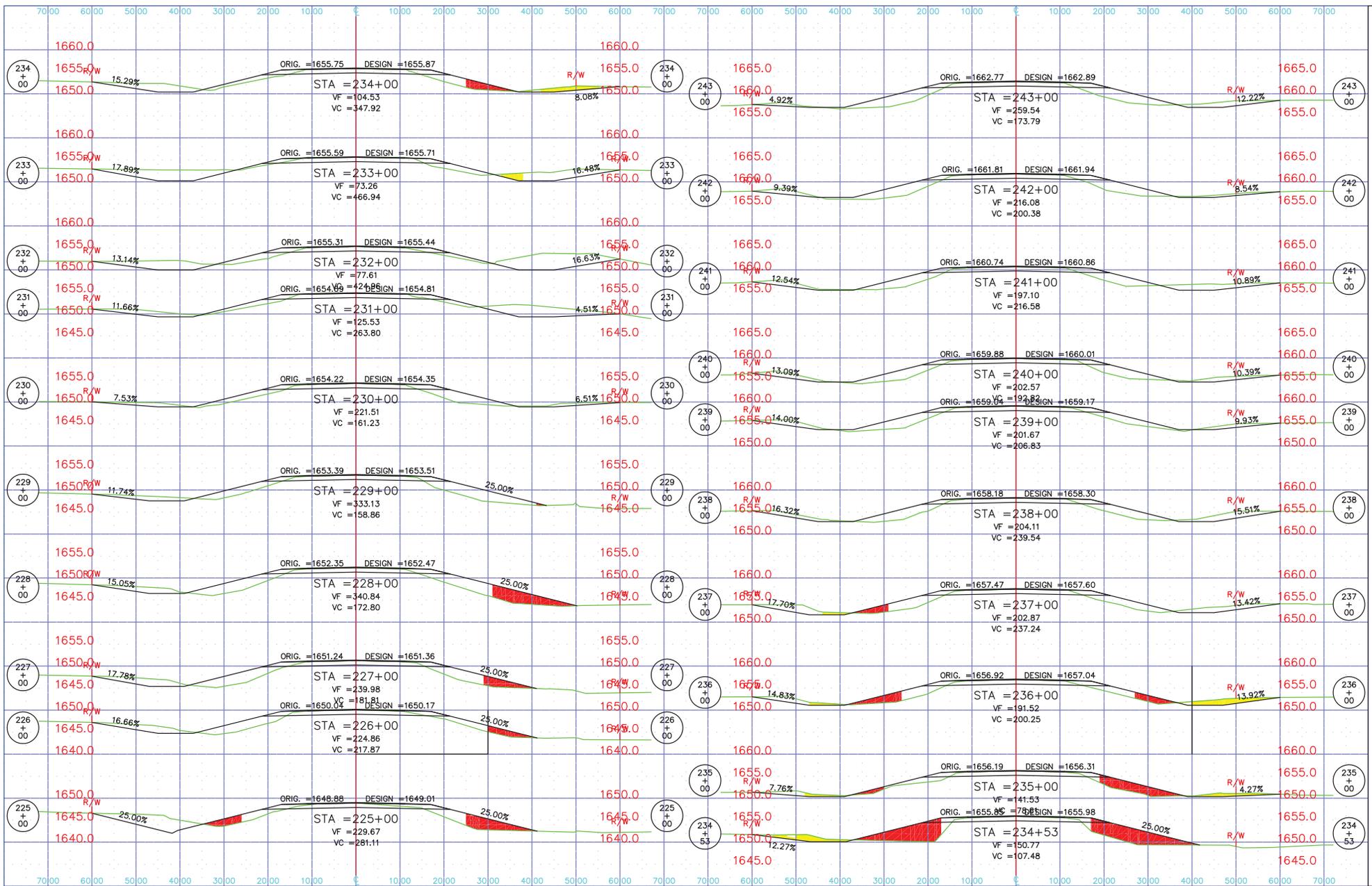
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0.02 ACRE CUT



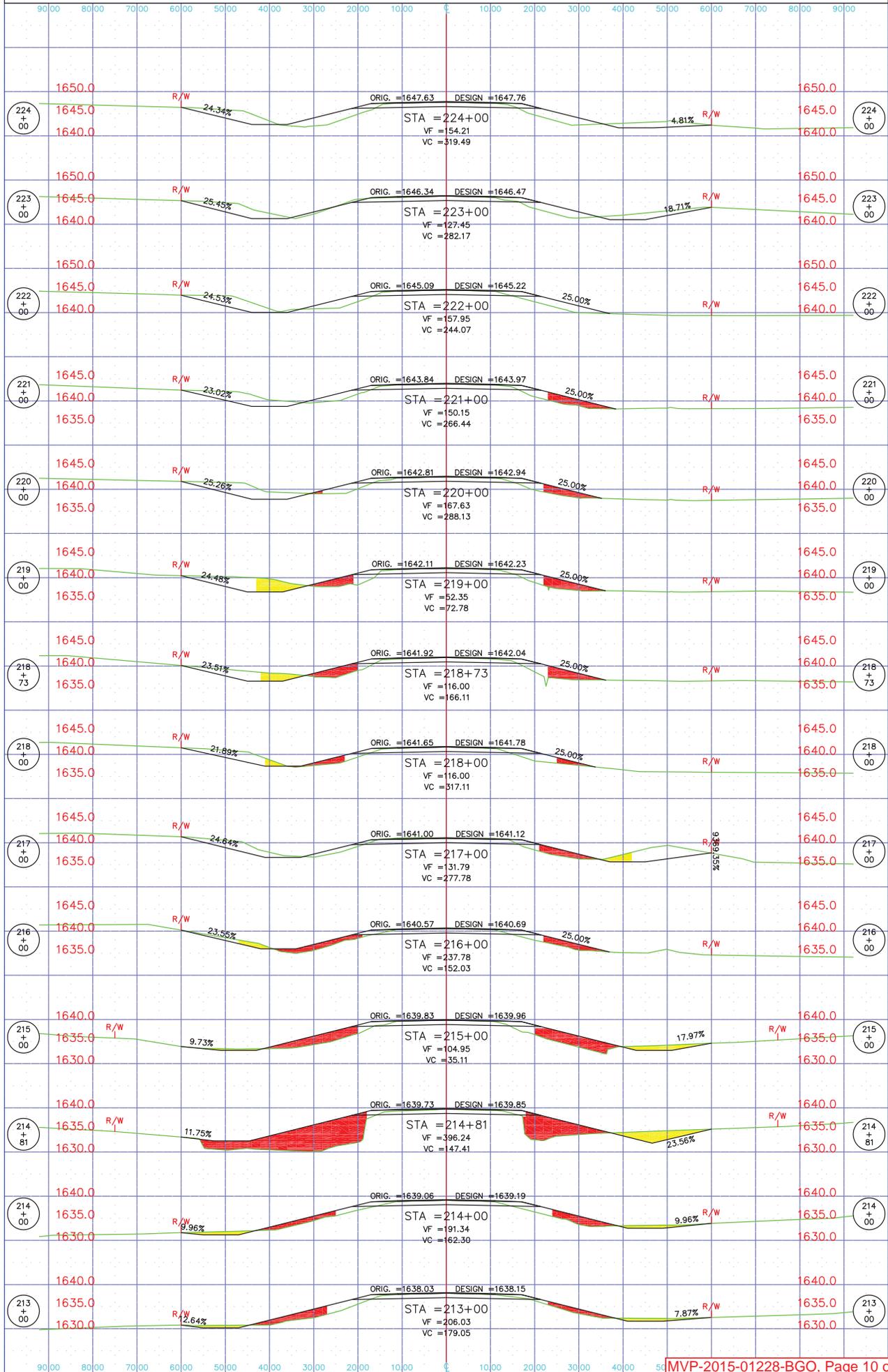
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WETLAND PERMANENT CUT IMPACT  
WETLAND TEMPORARY IMPACT



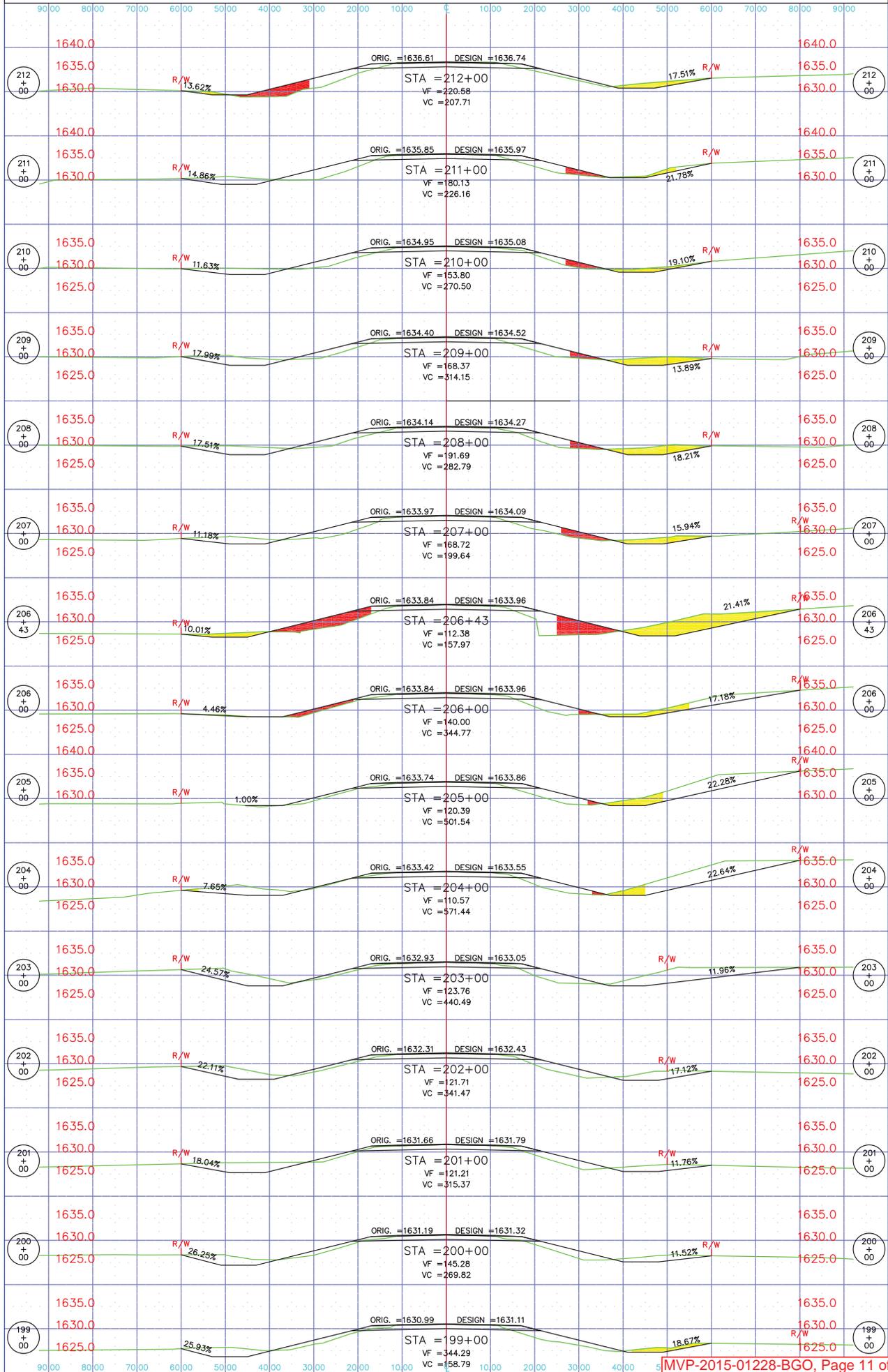
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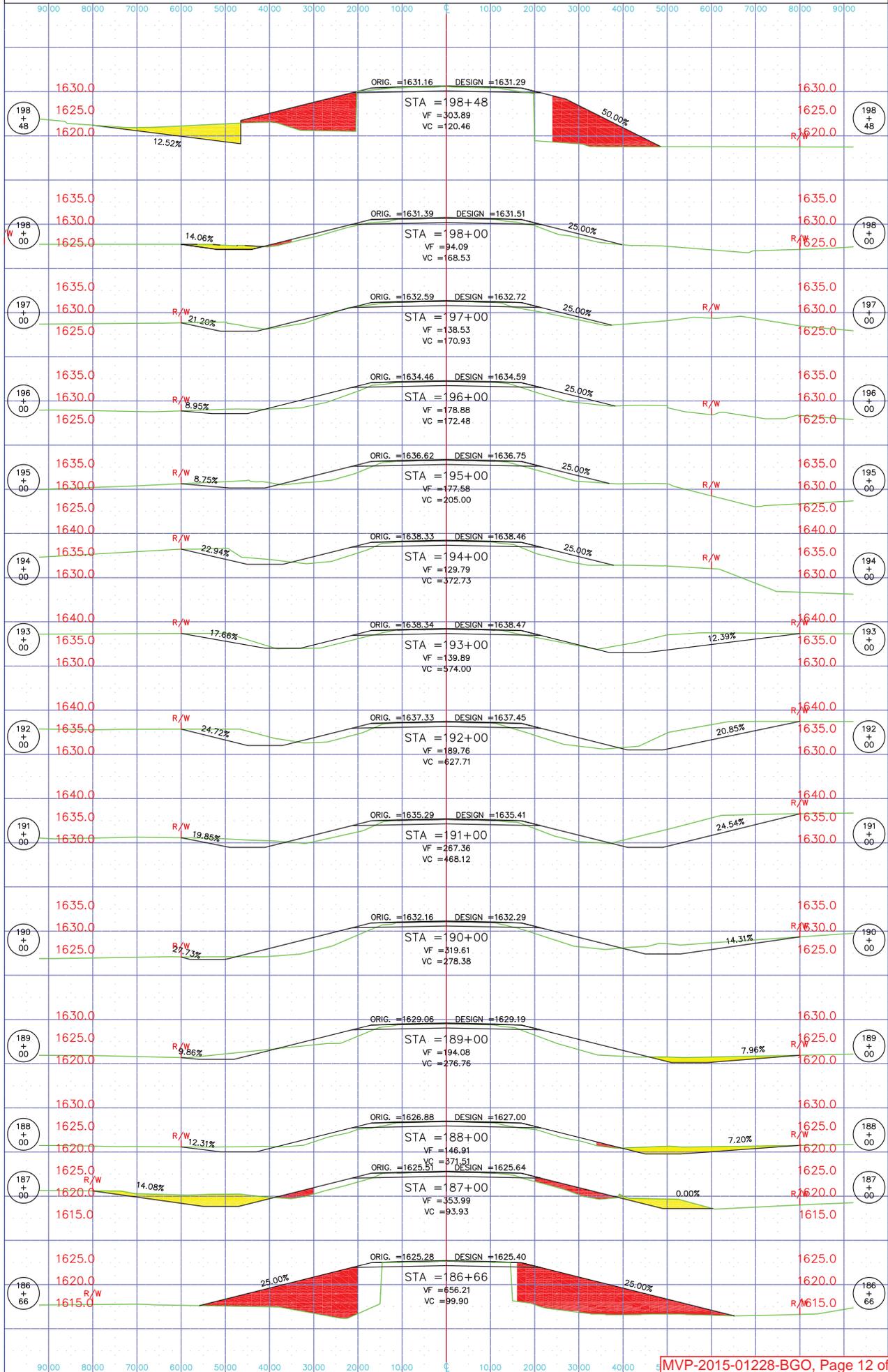
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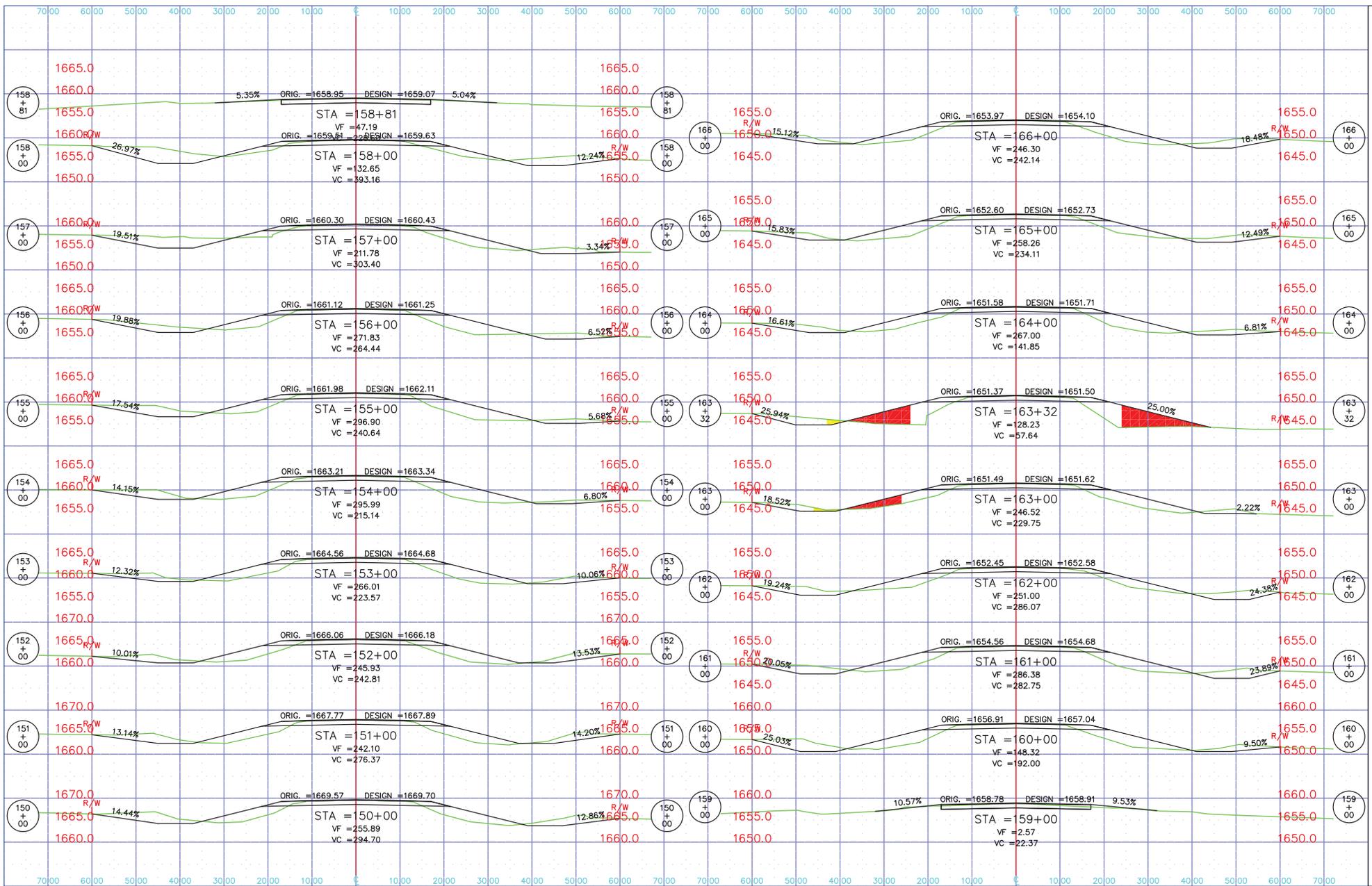
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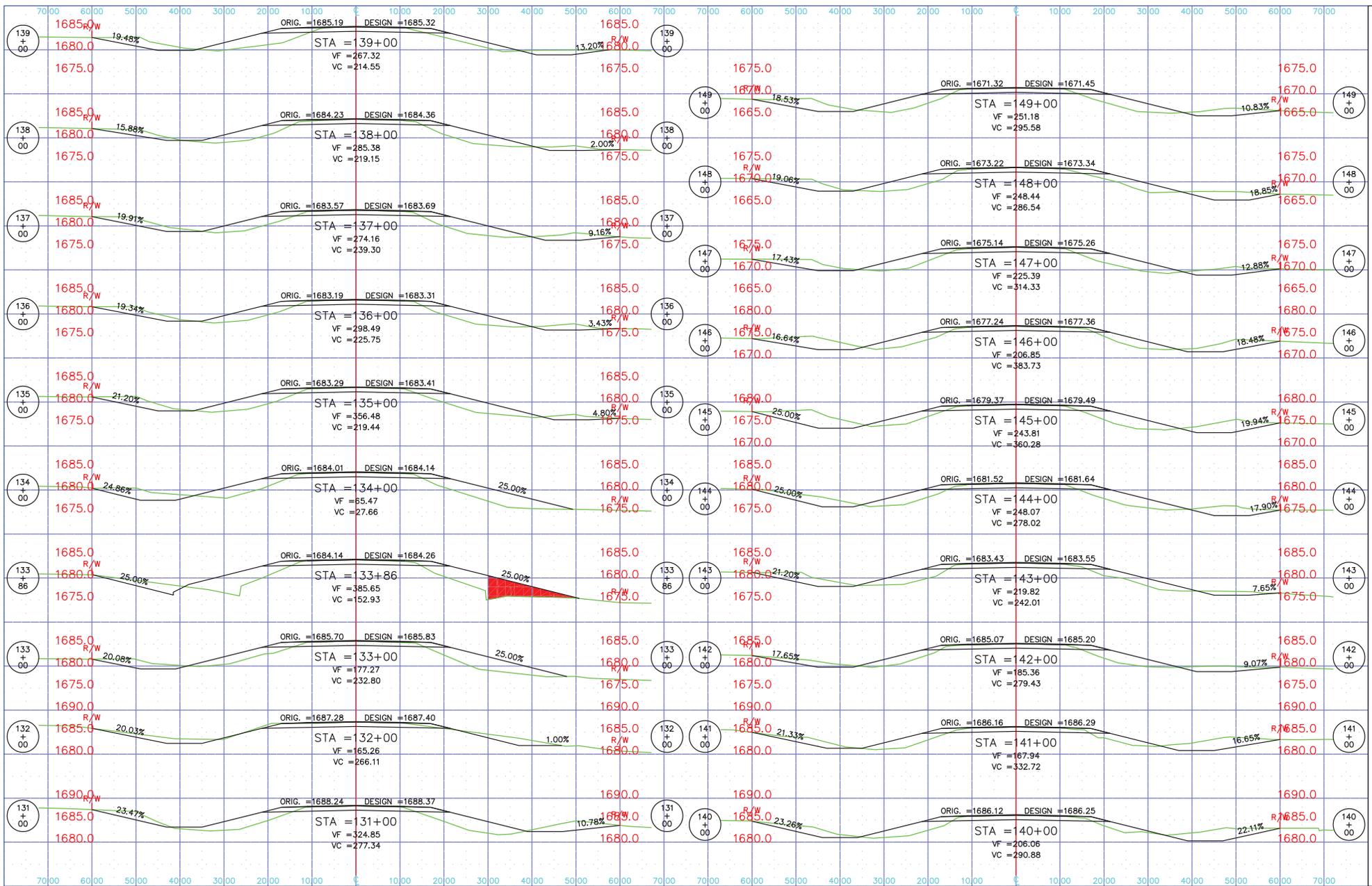
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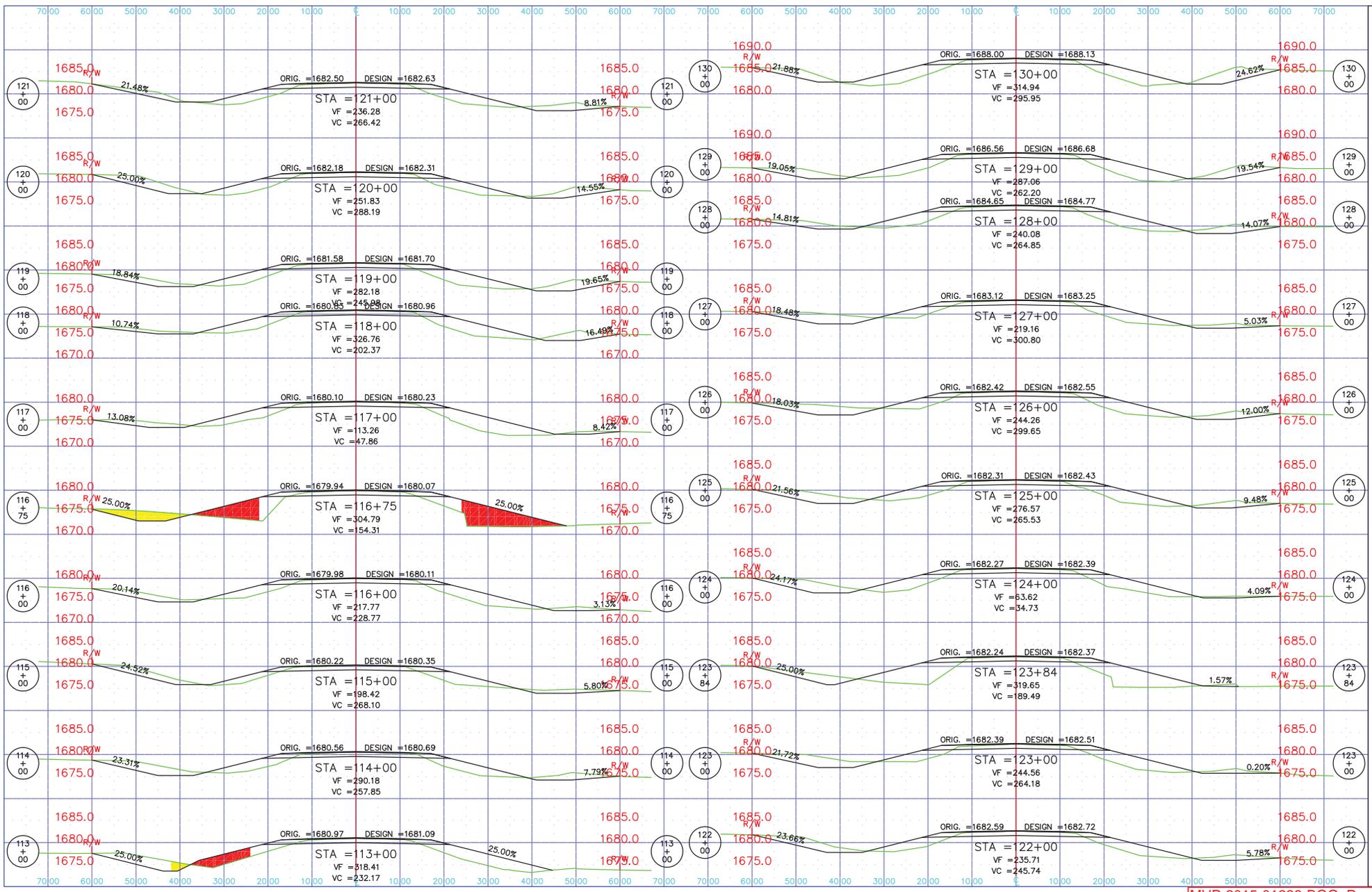
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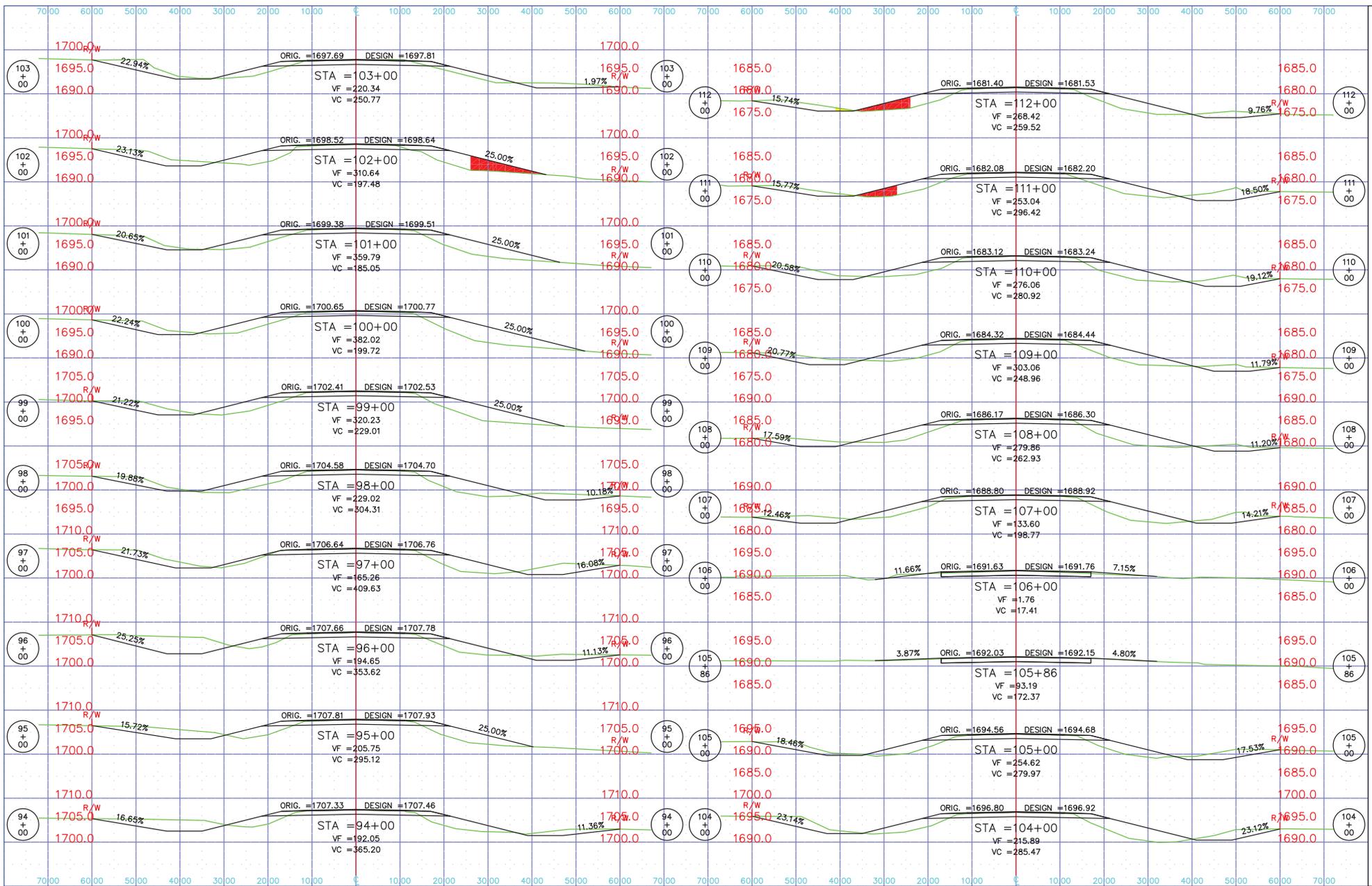
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WETLAND PERMANENT FILL IMPACT  
WETLAND PERMANENT CUT IMPACT  
WETLAND TEMPORARY IMPACT

