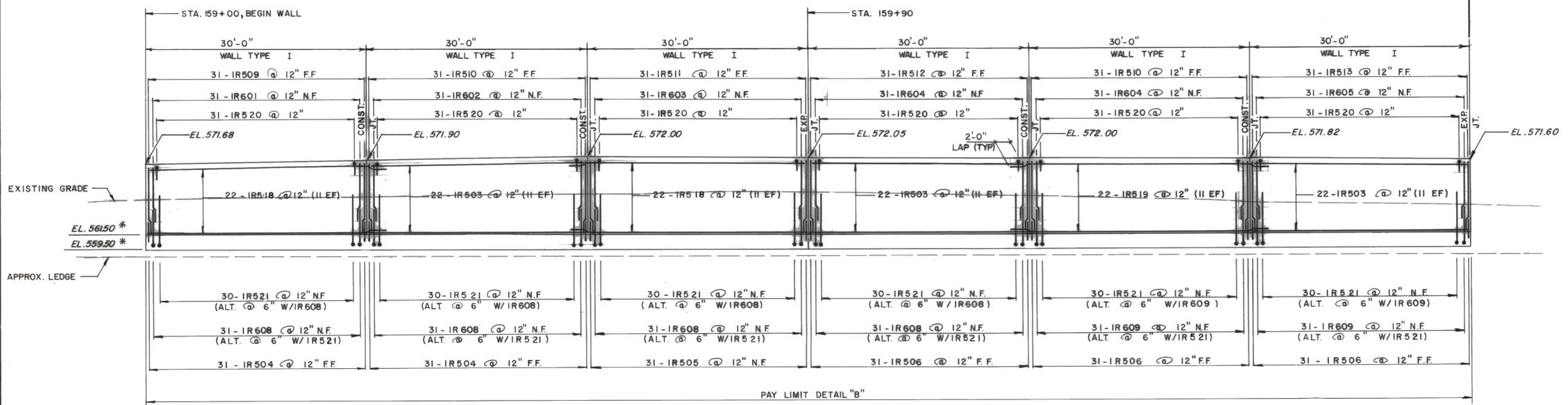


**CURVE DATA**

Δ = 27°-1'-19"  
 D = 3°-00'  
 T = 458.90  
 L = 900.72  
 R = 1909.86

**FOOTING REINFORCING PLAN**  
 SCALE: 1/8" = 1'-0"



**ELEVATION (VIEW FACING SOUTH)**  
 SCALE: 1/8" = 1'-0"

\*ELEVATIONS GIVEN HERE ARE AT THE TOP AND BOTTOM OF FOOTING (TYR)

- NOTES**
- FOR WALL TYPE SECTIONS, SEE SHT. 158
  - FOR PAY LIMIT DETAILS, SEE SHT. 157 & 159
  - FOR EXPANSION AND CONTRACTION JOINT DETAILS, SEE SHT. 154.
  - FOR BORING LOCATIONS & BORING LOGS, SEE SHTS. 168 & 169
  - FOR TYPICAL WEEPHOLE LOCATION, SEE SHT. 158
  - HORIZONTAL DIMENSIONS ON PLAN VIEW ARE GIVEN RADIAL TO RT. 346.
  - HORIZONTAL DIMENSIONS ON ELEVATION VIEW ARE GIVEN ALONG TOP OF WALL AND ARE CONCENTRIC WITH RT. 346
  - N.F. = NEAR FACE  
 F.F. = FAR FACE  
 E.F. = EACH FACE

- CONCRETE RETAINING WALL DESIGN DATA AND NOTES**
- ALL CONSTRUCTION INDICATED ON THESE PLANS SHALL BE IN ACCORDANCE WITH THE STATE OF VERMONT AGENCY OF TRANSPORTATION, STANDARD SPECIFICATIONS FOR CONSTRUCTION DATED 1990, AND ITS LATEST REVISIONS; THE STANDARD SPECIFICATIONS FOR HIGHWAY BRIDGES OF THE AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS DATED 1989 (INCLUDING ALL LATER REVISIONS), AND THE SPECIFICATIONS ACCOMPANYING THESE PLANS. IN CASE OF CONFLICT, THE SPECIAL PROVISIONS OF THE SPECIFICATIONS ACCOMPANYING THESE PLANS SHALL GOVERN.
  - LOADING SHALL BE IN ACCORDANCE WITH THE AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS (1977 EDITION) FOR HS 20-44 LOADING, MODIFIED FOR THE VT. HS-25 AXLE LOAD.
  - DESIGN SPECIFICATION: AASHTO 1989 EDITION WITH LATEST REVISIONS AND THE VERMONT DEPARTMENT OF HIGHWAYS STANDARD SPECIFICATIONS FOR HIGHWAY AND BRIDGE CONSTRUCTION DATED MARCH 1990, WITH LATEST CORRECTIONS AND ADDENDA.
  - DESIGN STRESSES:  
 CONCRETE - CLASS B -  $f'c = 3,500$  PSI,  $f_c = 1,400$  PSI - WALL STEMS AND FOOTINGS.  
 CONCRETE - CLASS C -  $f'c = 3,000$  PSI,  $f_c = 1,200$  PSI - LEVELING COURSE.  
 REINFORCING STEEL - A-615 (GRADE 60),  $f_s = 24,000$  PSI,  $f_y = 20,000$  PSI
  - WORKING POINTS ARE SHOWN AS FOLLOWS:  
 WP-9, WP-10, WP-11, WP-13, AND WP-14: THE INTERSECTION OF THE FRONT FACE OF THE WALL STEM AND A LINE RADIAL TO THE CENTERLINE OF ROUTE 346.  
 WP-12: THE INTERSECTION OF THE FRONT FACE OF THE WALL STEM AND A LINE NORMAL TO THE CENTERLINE OF ROUTE 346.
  - MAXIMUM ALLOWABLE SOIL BEARING PRESSURE IS FOUR (4) KIPS PER SQUARE FOOT.
  - CLASSES OF CONCRETE SHALL BE AS DESCRIBED IN TABLE 501.03A OF SECTION 501 OF THE STATE OF VERMONT AGENCY OF TRANSPORTATION STANDARD SPECIFICATIONS FOR CONSTRUCTION.
  - THE CONTRACTOR SHALL BE RESPONSIBLE FOR PREVENTING CONCRETE STAINS OR DISCOLORATION DURING CONSTRUCTION, UNTIL SUCH TIME AS THE SURFACES ARE APPROVED AND ACCEPTED. ANY CONCRETE STAINS OR DISCOLORATION OCCURRING PRIOR TO ACCEPTANCE OF THE SURFACES SHALL BE REMOVED BY THE CONTRACTOR AT HIS OWN EXPENSE.
  - HORIZONTAL CONSTRUCTION JOINTS OTHER THAN THOSE SHOWN ON THE PLANS WILL NOT BE PERMITTED UNLESS AUTHORIZED BY THE ENGINEER.
  - ALL EXPOSED EDGES AND RE-ENTRANT CORNERS NOT OTHERWISE DETAILED SHALL HAVE A MINIMUM ONE (1) INCH CHAMFER.
  - ALL EXPOSED CONCRETE SURFACES VISIBLE IN ELEVATION SHALL BE FINISHED IN ACCORDANCE WITH SECTION 501.16 OF THE VERMONT AGENCY OF TRANSPORTATION STANDARD SPECIFICATIONS FOR CONSTRUCTION. THIS WORK SHALL ALSO INCLUDE THE EXPOSED INSIDE FACE AND TOP OF THE WALLS.
  - ALL FORMS SHALL BE THE REMOVABLE TYPE THAT WILL PRODUCE THE DIMENSIONS OF THE PLANS.
  - THREE ALTERNATE RETAINING WALL DESIGNS SHALL BE BID: CONCRETE, METAL BIN, AND REINFORCED EARTH.
  - PROPOSED GRADE AT BACK FACE OF WALL IS 6" BELOW THE TOP OF WALL. SEE CONCRETE RETAINING WALL SECTIONS, SHEET 157.
  - POUR CONCRETE WALL STEMS IN ALTERNATING SECTIONS WITH A 72 HOUR MINIMUM BETWEEN ADJACENT POURS.

**STATE OF VERMONT AGENCY OF TRANSPORTATION**

Town Of <b>POWNA</b>	Bridge No.
Highway No. <b>ROUTE 346</b>	Log Sta.
<b>CONCRETE RETAINING WALL</b>	
<b>STA. 159+00 TO STA. 160+80</b>	
Designed By <b>J.S.J.</b>	Drawn By <b>K.M.B.</b>
Checked By	Date
Bridge Design Supervisor	Date
<b>PROJECT POWNAL</b>	<b>PROJECT NO. RSO107 (7)</b>
I.G.C. Info.	
Bridge Sheet No.	Sheet 153 of 319

BRUNING 44-233 64442