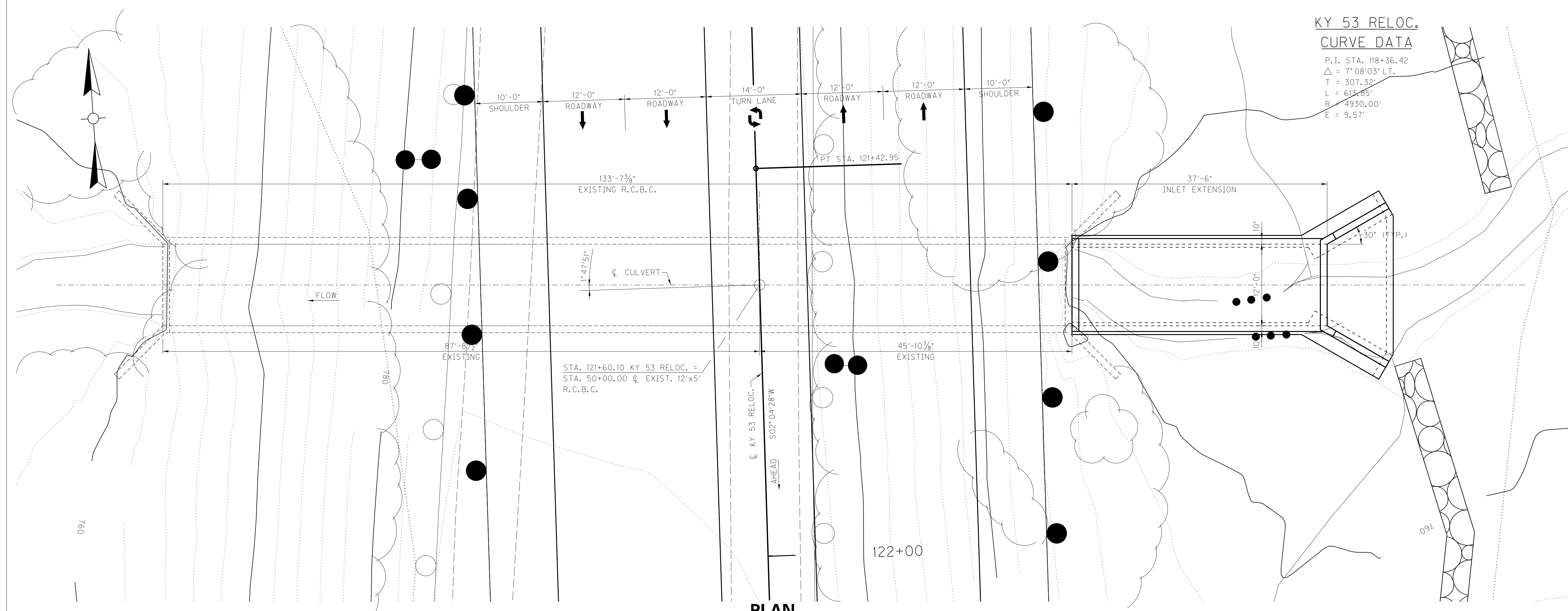




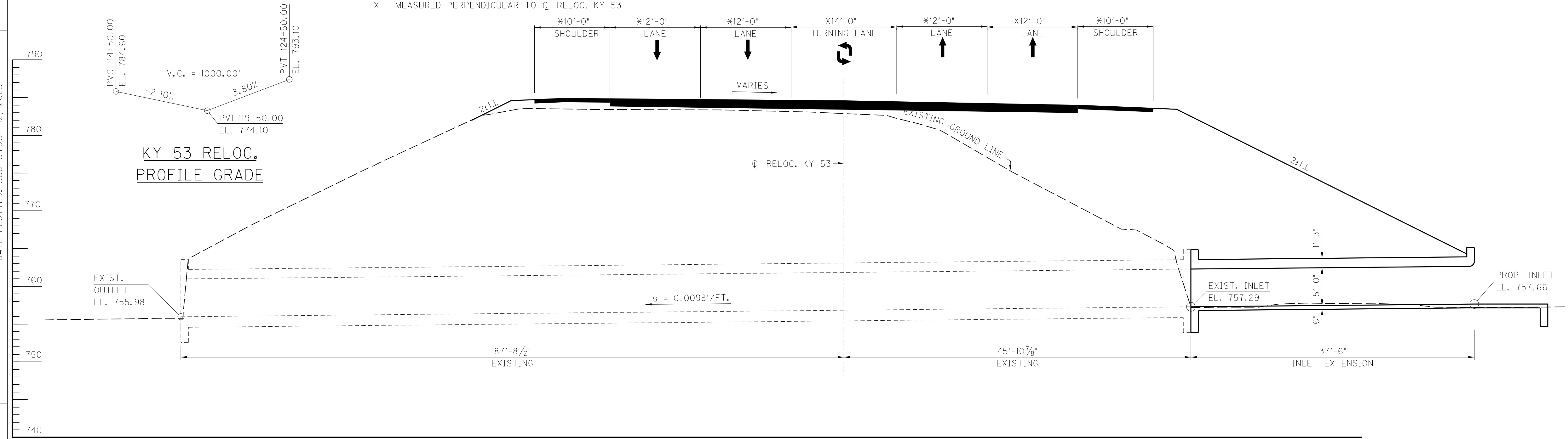
FILE NAME: U:\02107\STRUCTURES - FROM IN DRIVE\CULVERTS\12 X 5 R.C.B.C.\STAGE 2 FINAL\DDN\002-28831\_CULVERT\_LAYOUT.DGN  
 USER: sporter  
 DATE PLOTTED: September 12, 2023  
 E-SHEET NAME: MicroStation v8.11.9.919

**KY 53 RELOC.  
 CURVE DATA**  
 P.I. STA. 118+36.42  
 $\Delta = 7^{\circ}08'03''$  LT.  
 T = 307.32'  
 L = 612.85'  
 R = 4930.00'  
 E = 9.57'



**PLAN**

\* - MEASURED PERPENDICULAR TO  $\phi$  RELOC. KY 53



**KY 53 RELOC.  
 PROFILE GRADE**

**SECTION ALONG  $\phi$  OF CULVERT**

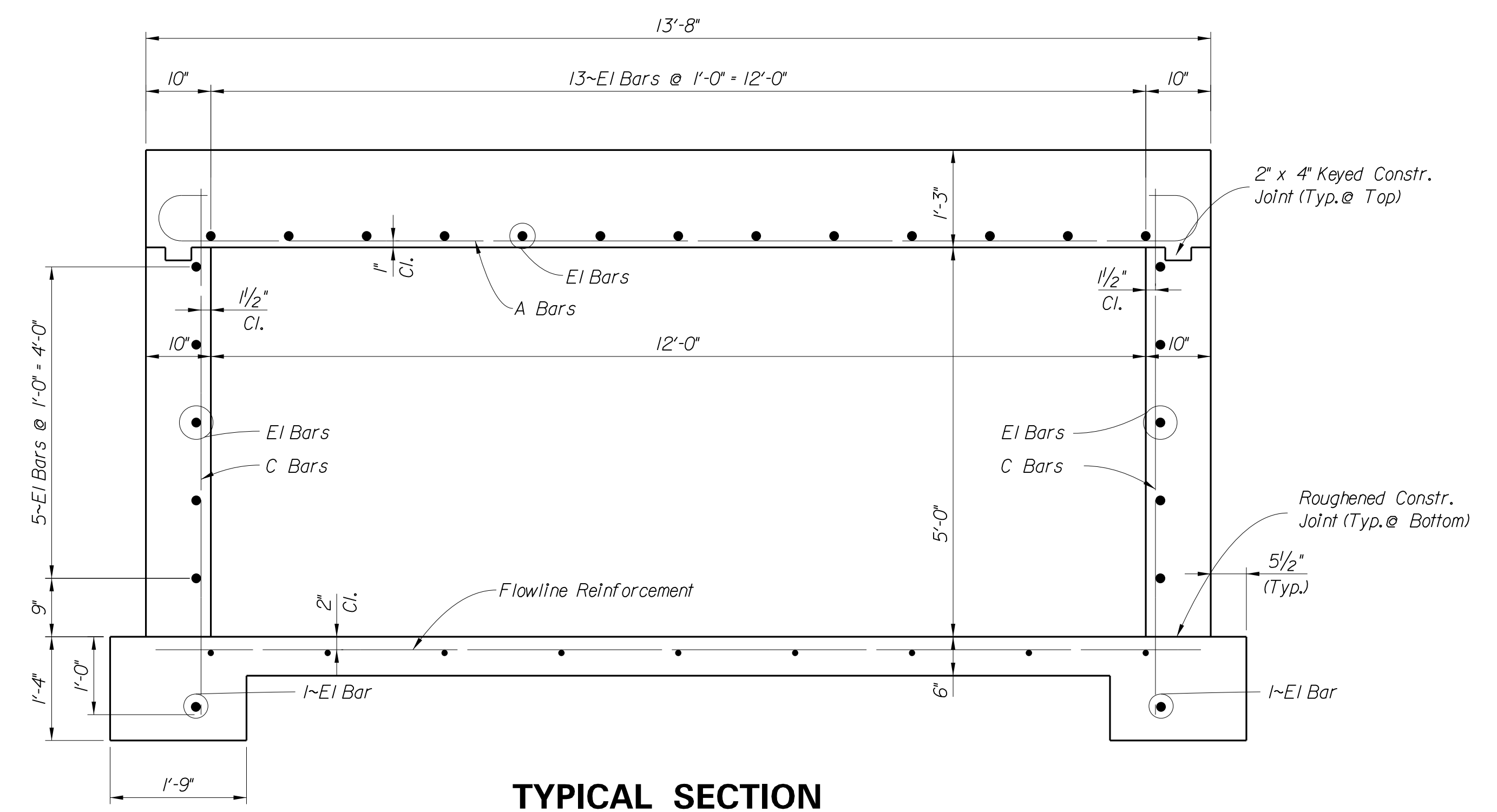
12' x 5' R.C.B.C. EXTENSION  
 UNYIELDING FOUNDATION, 1' 47.5" SKEW RIGHT  
 62'-0" ROADWAY, 72'-0" OUT TO OUT SHOULDERS  
 2:1 FILL SLOPES, 22.24' MAX. FILL HEIGHT  
 KY HL-93 LOADING

ITEM NUMBER  
**5-65.40**

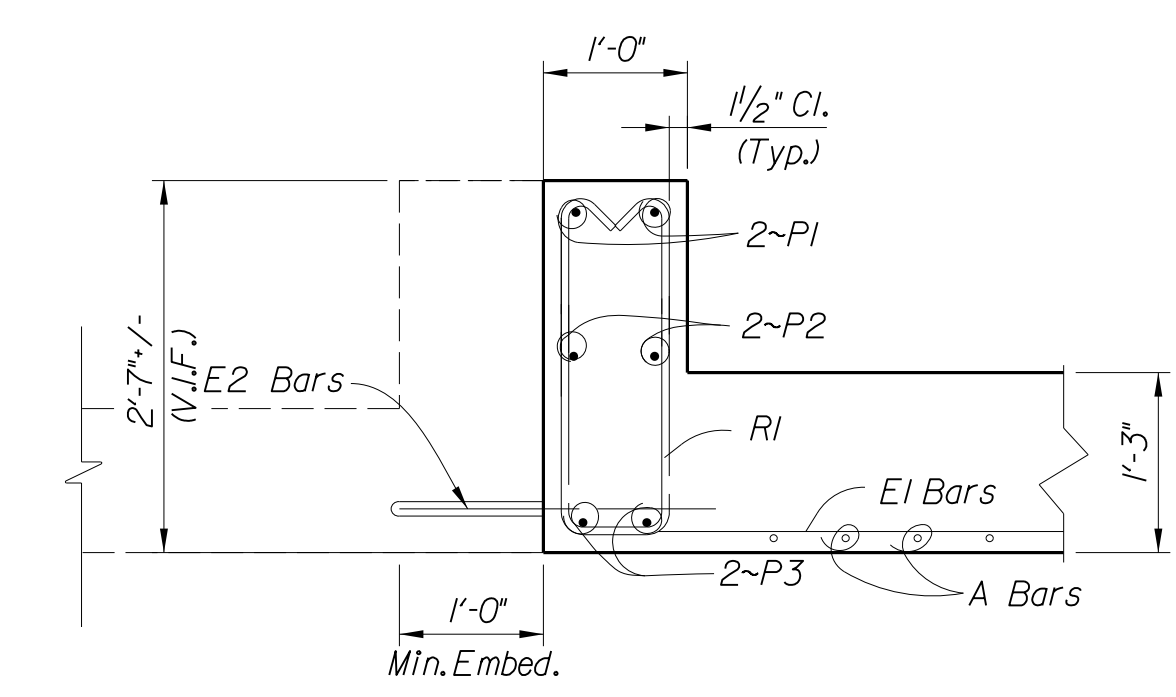
|   |                                   |                      |
|---|-----------------------------------|----------------------|
| REVISION  |                                   | DATE                 |
| DATE: FEB. 2021   | CHECKED BY: C. QUINN              |                      |
| DESIGNED BY: S. PORTER                                    | DETAILED BY: J. LOPEZ             |                      |
| <b>Commonwealth of Kentucky</b><br>DEPARTMENT OF HIGHWAYS |                                   |                      |
| COUNTY<br><b>SHELBY</b>                                   |                                   |                      |
| ROUTE<br>KY 53  | CROSSING<br>CLEAR CREEK TRIBUTARY |                      |
| <b>12' x 5' R.C.B.C. EXTENSION</b>                        |                                   |                      |
| PREPARED BY   |                                   | SHEET NO.<br>S2      |
|   |                                   | DRAWING NO.<br>28831 |



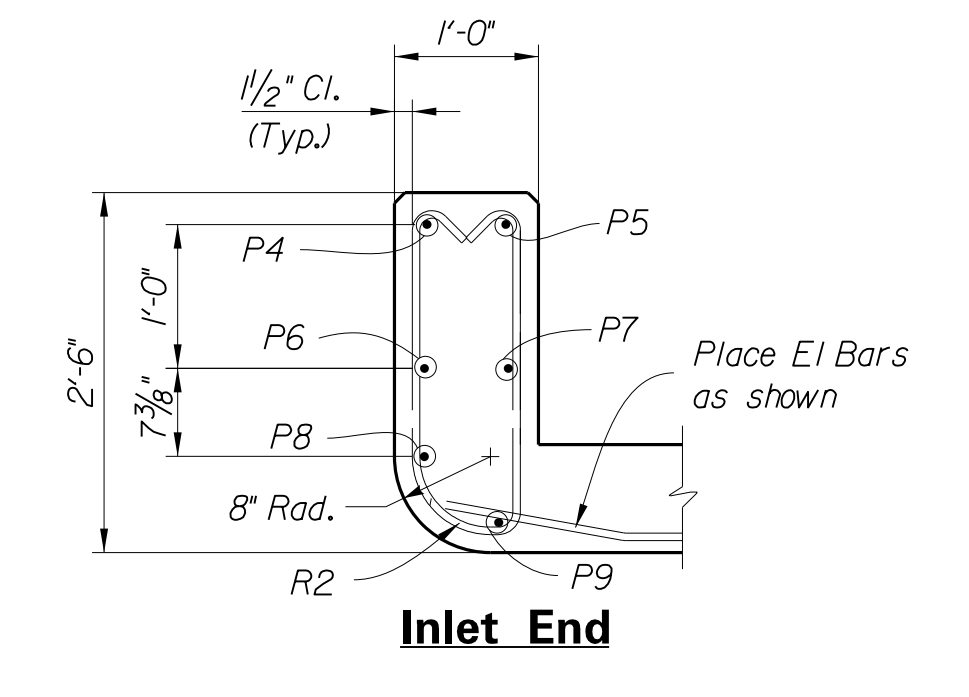
FILE NAME: U:\02107\STRUCTURES - FROM IN DRIVE\CULVERTS\12 X 5 RCB\STAGE 2 FINAL\DOCN\004\_28831\_WINGWALL-&\_BARBILL.DGN  
 USER: sporter  
 DATE PLOTTED: September 12, 2023  
 E-SHEET NAME:  
 MicroStation v8.11.9.919



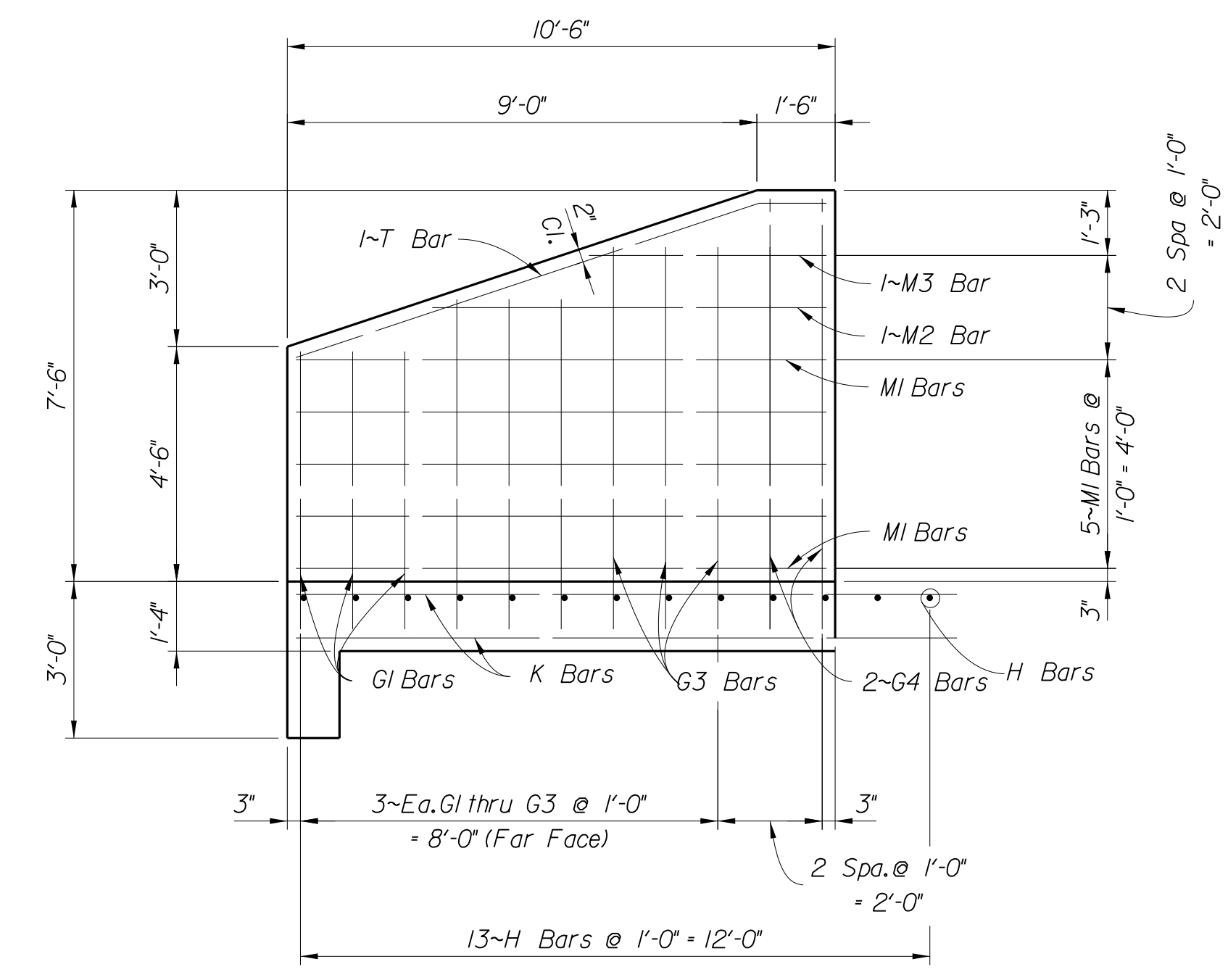
**TYPICAL SECTION**



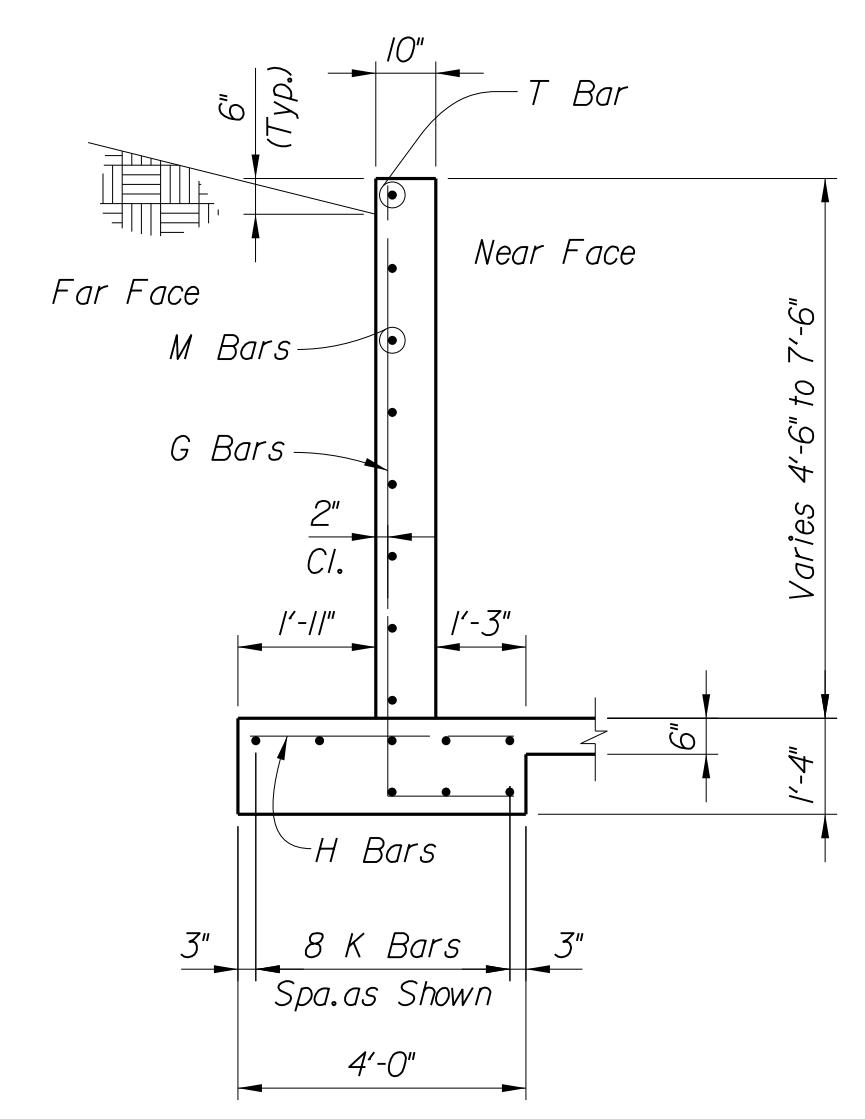
**EDGE BEAM DETAIL**



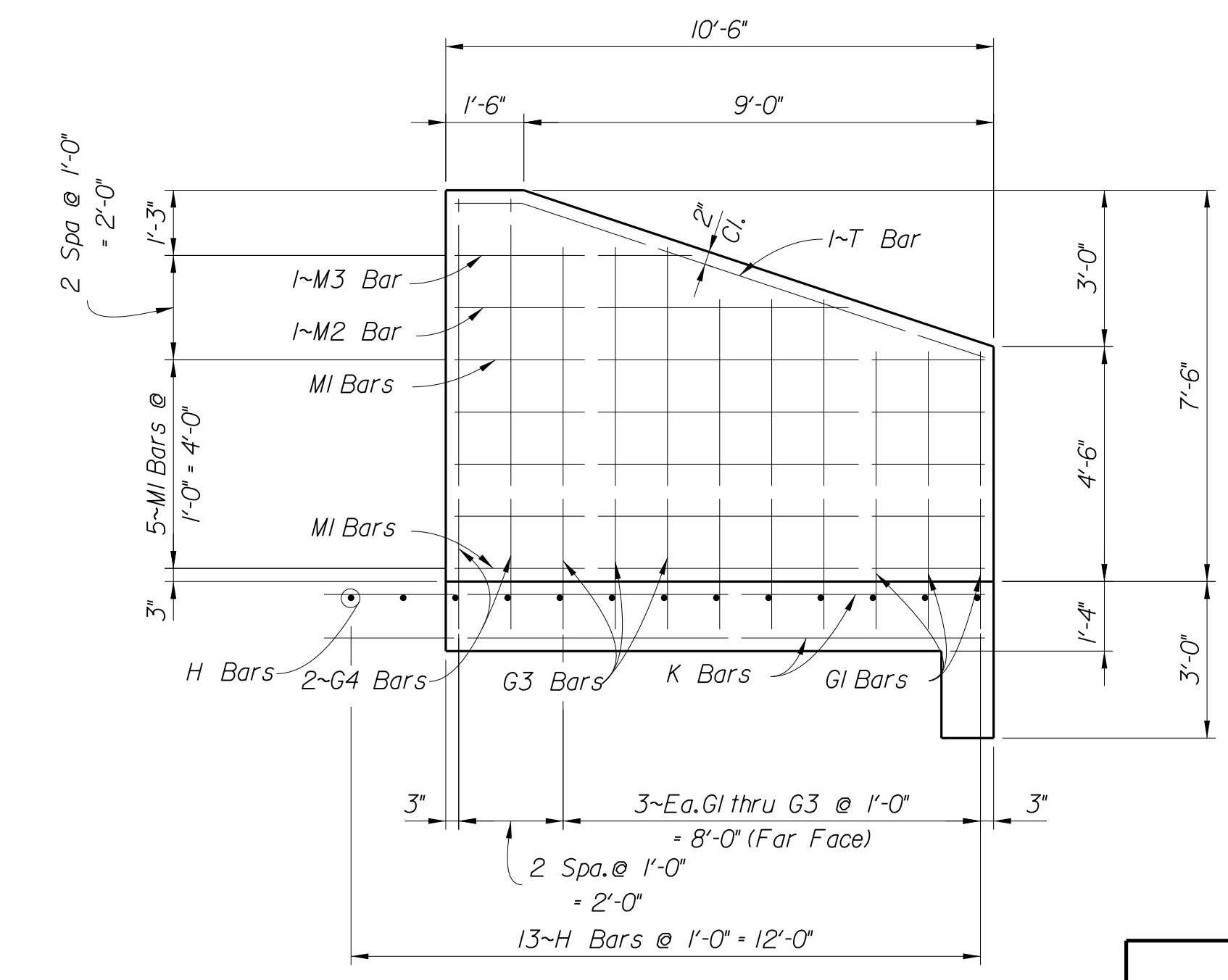
**PARAPET DETAILS  
(normal to parapet)**



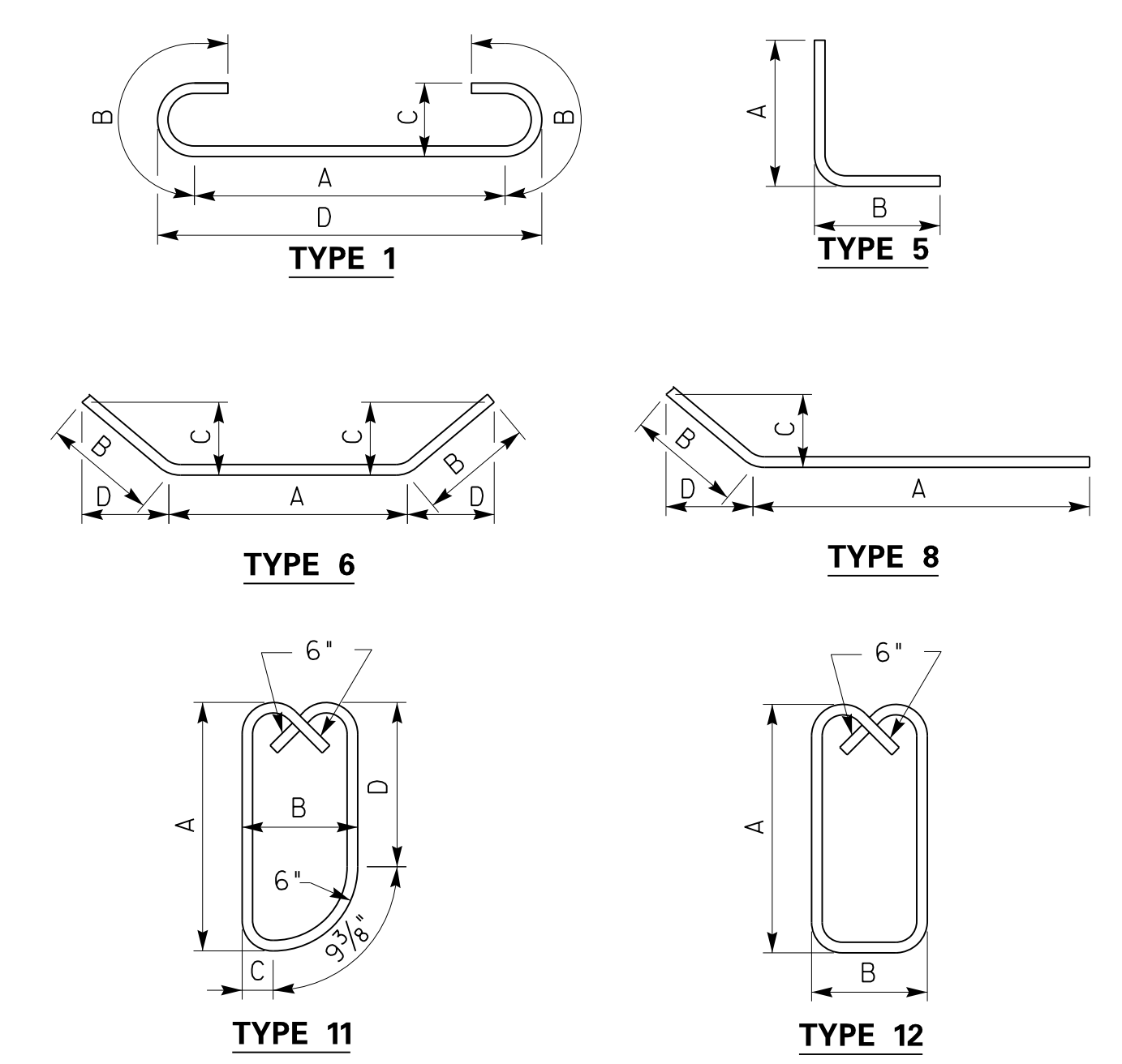
**WINGWALL 1 ELEVATION**



**TYPICAL  
WINGWALL SECTION**



**WINGWALL 2 ELEVATION**



**BAR TYPE**

| BILL OF REINFORCEMENT |      |     |      |        |    |                                     |    |     |    |    |    |    |     |    |      |
|-----------------------|------|-----|------|--------|----|-------------------------------------|----|-----|----|----|----|----|-----|----|------|
| Mark                  | Type | No. | Size | Length |    | Location                            | a  |     |    |    | b  |    |     |    |      |
|                       |      |     |      | ft     | in |                                     | ft | in  | ft | in | ft | in | ft  | in |      |
| A                     | I    | 73  | 9    | 16     | 2  | Top Slab                            | 12 | 4/4 | 1  | 11 | 0  | 11 | 3/4 | 13 | 4    |
| C                     | Str. | 76  | 5    | 7      | 0  | Sidewalls                           |    |     |    |    |    |    |     |    |      |
| E1                    | Str. | 25  | 4    | 37     | 3  | Longitudinal Barrel<br>New/Existing |    |     |    |    |    |    |     |    |      |
| E2                    | Str. | 25  | 4    | 3      | 5  |                                     |    |     |    |    |    |    |     |    |      |
| G1                    | 5    | 6   | 5    | 7      | 1  | Wingwalls                           | 5  | 5   | 1  | 8  |    |    |     |    |      |
| G2                    | 5    | 6   | 5    | 8      | 1  | Wingwalls                           | 6  | 5   | 1  | 8  |    |    |     |    |      |
| G3                    | 5    | 6   | 5    | 8      | 1  | Wingwalls                           | 7  | 5   | 1  | 8  |    |    |     |    |      |
| G4                    | 5    | 4   | 5    | 10     | 1  | Wingwalls                           | 8  | 5   | 1  | 8  |    |    |     |    |      |
| H                     | Str. | 26  | 4    | 3      | 6  | Wing Footings                       |    |     |    |    |    |    |     |    |      |
| K                     | Str. | 16  | 4    | 12     | 6  | Wing Footings                       |    |     |    |    |    |    |     |    |      |
| M1                    | 8    | 10  | 4    | 12     | 8  | Wingwalls                           | 10 | 2   | 2  | 6  | 1  | 3  | 2   | 2  |      |
| M2                    | 8    | 2   | 4    | 10     | 4  | Wingwalls                           | 7  | 10  | 2  | 6  | 1  | 3  | 2   | 2  |      |
| M3                    | 8    | 2   | 4    | 7      | 4  | Wingwalls                           | 4  | 10  | 2  | 6  | 1  | 3  | 2   | 2  |      |
| P1                    | Str. | 2   | 6    | 13     | 4  | Edge Beam                           |    |     |    |    |    |    |     |    |      |
| P2                    | Str. | 2   | 5    | 13     | 4  | Edge Beam                           |    |     |    |    |    |    |     |    |      |
| P3                    | Str. | 2   | 9    | 13     | 4  | Edge Beam                           |    |     |    |    |    |    |     |    |      |
| P4                    | 6    | 1   | 6    | 15     | 8  | Wingwall/Parapet                    | 12 | 2   | 1  | 9  | 1  | 6  | 8   | 0  | 10/2 |
| P5                    | 6    | 1   | 6    | 16     | 11 | Wingwall/Parapet                    | 12 | 7   | 2  | 2  | 1  | 10 | 2   | 1  | 1    |
| P6                    | 6    | 1   | 5    | 15     | 8  | Wingwall/Parapet                    | 12 | 2   | 1  | 9  | 1  | 6  | 8   | 0  | 10/2 |
| P7                    | 6    | 1   | 5    | 16     | 11 | Wingwall/Parapet                    | 12 | 7   | 2  | 2  | 1  | 10 | 2   | 1  | 1    |
| P8                    | 6    | 1   | 9    | 15     | 8  | Wingwall/Parapet                    | 12 | 2   | 1  | 9  | 1  | 6  | 8   | 0  | 10/2 |
| P9                    | 6    | 1   | 9    | 16     | 11 | Wingwall/Parapet                    | 12 | 7   | 2  | 2  | 1  | 10 | 2   | 1  | 1    |
| R1                    | 12   | 13  | 5    | 6      | 3  | Parapet (Edge Beam)                 | 2  | 3   | 0  | 9  |    |    |     |    |      |
| R2                    | 11   | 13  | 5    | 6      | 0  | Parapet (Inlet)                     | 2  | 3   | 0  | 9  | 0  | 2  | 2   | 1  | 8/2  |
| T                     | 8    | 2   | 6    | 11     | 1  | Wingwalls                           | 9  | 4   | 1  | 9  | 0  | 6  | 5/8 | 1  | 7/8  |

ITEM NUMBER  
**5-65.40**

|                                  |                              |              |
|----------------------------------|------------------------------|--------------|
| REVISION                         |                              | DATE         |
| DATE: FEB. 2021                  | CHECKED BY                   |              |
| DESIGNED BY: S. PORTER           | C. QUINN                     |              |
| DETAILED BY: J. LOPEZ            | C. QUINN                     |              |
| <b>Commonwealth of Kentucky</b>  |                              |              |
| <b>DEPARTMENT OF HIGHWAYS</b>    |                              |              |
| COUNTY                           |                              |              |
| <b>SHELBY</b>                    |                              |              |
| ROUTE                            | CROSSING                     |              |
| <b>KY 53</b>                     | <b>CLEAR CREEK TRIBUTARY</b> |              |
| <b>12'x5' R.C.B.C. EXTENSION</b> |                              |              |
| PREPARED BY                      |                              | SHEET NO.    |
|                                  |                              | <b>S4</b>    |
|                                  |                              | DRAWING NO.  |
|                                  |                              | <b>28831</b> |