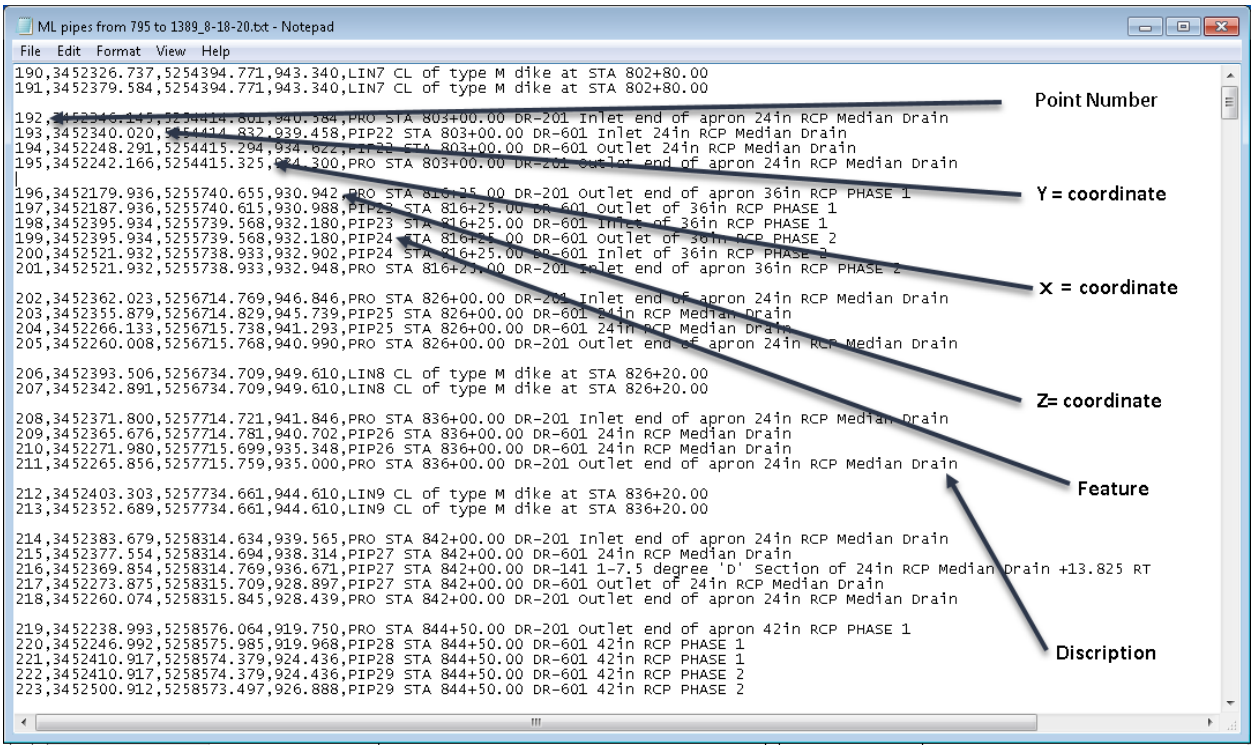
ASCII Graphics Import Input File

Once the invert coordinates of the culverts to be modeled are determined, there are two options to place it. 1st is with Civil AccuDraw; 2nd is with the ASCII graphics.

The format of the ASCII graphics input file will be covered first. In a Notepad file, make a comma delimited format file. This consists of the point number, Y coordinate, X coordinate, Z coordinate, feature and description.

It should look something like this:



The first number is the point number. This number can start as any number but cannot be repeated in the ASCII file. It is a good idea not to repeat it per project either. This number needs to increase as the file grows.

The Second number is the Y coordinate of the invert.

The third number is the X coordinate of the invert.

The fourth number is the Z coordinate of the invert.

The fifth value is the feature. The feature can map or draw many different lines and/or cells. For this process, the feature will be PIP which is the survey feature for pipes. To make each feature unique, add a number to the feature so that the application knows what features points should be connected.

The first feature will be PIP1, the next one will be PIP2 and so on.

The sixth value is the point description of each point. This value is a little different than the previous values because it is not separated from the other values by a comma. A space between it and the feature is used instead. Also, up to 256 characters can be used to describe the point that will be mapped. For this process describe the point by design station, design standard, indicate inlet or outlet, include size and last the type of structure.

This is an example for a 24 inch RCP median drain at station 803+00.00

193,3452340.020,5254414.832,939.458,PIP22 STA 803+00.00 DR-601 Inlet 24in RCP Median Drain

Once all the invert coordinates are recorded in the ASCII graphics import input file, it should look something like this:

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190,3452326.737,5254394.771,943.340,LIN7 CL of type M dike at STA 802+80.00
191,3452379.584,5254394.771,943.340,LIN7 CL of type M dike at STA 802+80.00
192,3452346.145,5254414.801,940.584,PRO STA 803+00.00 DR-201 Inlet end of apron 24in RCP Median Drain
193,3452340.020,5254414.832,939.458,PIP22 STA 803+00.00 DR-601 Inlet 24in RCP Median Drain
194,3452248.291,5254415.294,934.622,PIP22 STA 803+00.00 DR-601 Outlet 24in RCP Median Drain
195,3452242.166,5254415.325,934.300,PRO STA 803+00.00 DR-201 Outlet end of apron 24in RCP Median Drain
196,3452179.936,5255740.655,930.942,PRO STA 816+25.00 DR-201 Outlet end of apron 36in RCP PHASE 1
197,3452187.936,5255740.615,930.988,PIP23 STA 816+25.00 DR-601 Outlet of 36in RCP PHASE 1
198,3452395.934,5255739.568,932.180,PIP23 STA 816+25.00 DR-601 Inlet of 36in RCP PHASE 1
199,3452395.934,5255739.568,932.180,PIP24 STA 816+25.00 DR-601 Outlet of 36in RCP PHASE 2
200,3452521.932,5255738.933,932.902,PIP24 STA 816+25.00 DR-601 Inlet of 36in RCP PHASE 2
201,3452521.932,5255738.933,932.948,PRO STA 816+25.00 DR-201 Inlet end of apron 36in RCP PHASE 2
202,3452362.023,5256714.769,946.846,PRO STA 826+00.00 DR-201 Inlet end of apron 24in RCP Median Drain
203,3452355.879,5256714.829,945.739,PIP25 STA 826+00.00 DR-601 24in RCP Median Drain
204,3452266.133,5256715.738,941.293,PIP25 STA 826+00.00 DR-601 24in RCP Median Drain
205,3452260.008,5256715.768,940.990,PRO STA 826+00.00 DR-201 Outlet end of apron 24in RCP Median Drain
206,3452393.506,5256734.709,949.610,LIN8 CL of type M dike at STA 826+20.00
207,3452342.891,5256734.709,949.610,LIN8 CL of type M dike at STA 826+20.00
208,3452371.800,5257714.721,941.846,PRO STA 836+00.00 DR-201 Inlet end of apron 24in RCP Median Drain
209,3452365.676,5257714.781,940.702,PIP26 STA 836+00.00 DR-601 24in RCP Median Drain
210,3452271.980,5257715.699,935.348,PIP26 STA 836+00.00 DR-601 24in RCP Median Drain
211,3452265.856,5257715.759,935.000,PRO STA 836+00.00 DR-201 Outlet end of apron 24in RCP Median Drain
212,3452403.303,5257734.661,944.610,LIN9 CL of type M dike at STA 836+20.00
213,3452352.689,5257734.661,944.610,LIN9 CL of type M dike at STA 836+20.00
214,3452383.679,5258314.634,939.565,PRO STA 842+00.00 DR-201 Inlet end of apron 24in RCP Median Drain
215,3452377.554,5258314.694,938.314,PIP27 STA 842+00.00 DR-601 24in RCP Median Drain
216,3452369.854,5258314.769,936.671,PIP27 STA 842+00.00 DR-141 1-7.5 degree 'D' Section of 24in RCP Median Drain +13.825 RT
217,3452273.875,5258315.709,928.897,PIP27 STA 842+00.00 DR-601 Outlet of 24in RCP Median Drain
218,3452260.074,5258315.845,928.439,PRO STA 842+00.00 DR-201 Outlet end of apron 24in RCP Median Drain
219,3452238.993,5258576.064,919.750,PRO STA 844+50.00 DR-201 Outlet end of apron 42in RCP PHASE 1
220,3452246.992,5258575.985,919.968,PIP28 STA 844+50.00 DR-601 42in RCP PHASE 1
221,3452410.917,5258574.379,924.436,PIP28 STA 844+50.00 DR-601 42in RCP PHASE 1
222,3452410.917,5258574.379,924.436,PIP29 STA 844+50.00 DR-601 42in RCP PHASE 2
223,3452500.912,5258573.497,926.888,PIP29 STA 844+50.00 DR-601 42in RCP PHASE 2
224,3452508.912,5258573.419,927.106,PRO STA 844+50.00 DR-201 Inlet end of apron 42in RCP PHASE 2
225,3452391.414,5259714.625,923.846,PRO STA 856+00.00 DR-201 Inlet end of apron 24in RCP Median Drain
226,3452385.270,5259714.685,922.924,PIP30 STA 856+00.00 DR-601 Inlet of 24in RCP Median Drain
227,3452307.394,5259715.448,921.465,PIP30 STA 856+00.00 DR-601 Outlet of 24in RCP Median Drain
228,3452301.269,5259715.508,921.350,PRO STA 856+00.00 DR-201 Outlet end of apron 24in RCP Median Drain
229,3452372.283,5259734.565,926.610,LIN10 CL of type M dike at STA 856+20.00
230,3452422.898,5259734.565,926.610,LIN10 CL of type M dike at STA 856+20.00
1000,3452403.131,5261014.573,906.596,PRO STA 869+00.00 DR-201 Inlet of DR-641 end of apron 24in RCP
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Once the input file is complete then it can be loaded in the application file.
CW04_Loading_ASCII Graphics Input File into ORD File.