# CSX Drainage Outfall Information

## CSX Utility Permits Web Link

The below link has specification requirements, and an application will need to be completed through the web portal once design is complete.

https://www.csx.com/index.cfm/customers/value-added-services/property-real-estate/permitting-utility-wireless-infrastructure-installations-and-rights-of-entry/utility-permits/

## CSX Public Project Information Manual

https://www.csx.com/index.cfm/library/files/about-us/property/public-project-manual/

## Design Information

- CSX does not permit open channel discharge onto its right of way
- The minimum depth for encased crossings is 5.5ft from base of rail to top of casing
- The minimum distance between utilities varies on the project. CSX prefers to have them spaced 10 feet apart but will allow 2x OD of pipe in the design requires it.

## CSX Drainage Contacts

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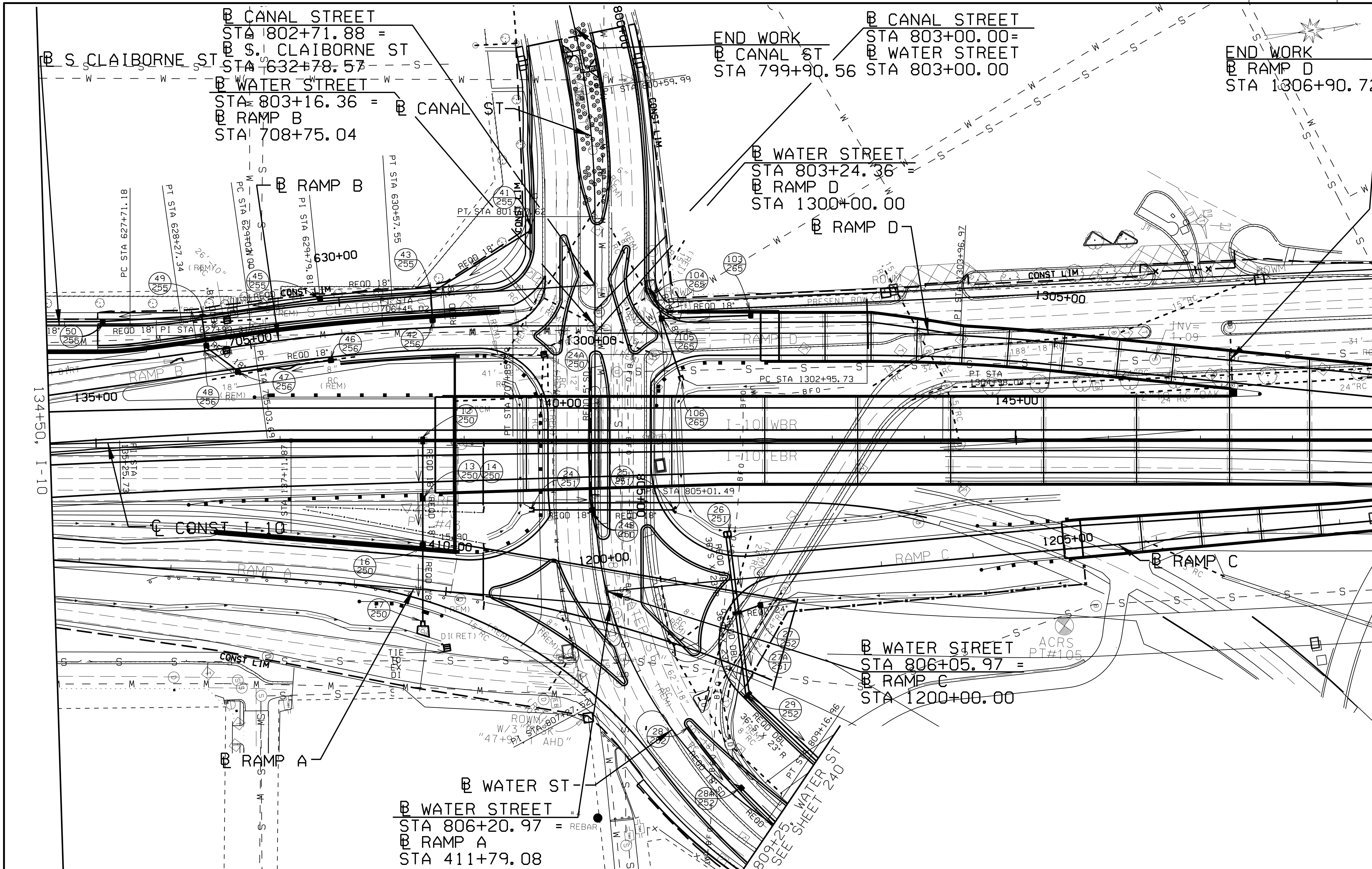
Jacksonville, FL 32202
904.359.3226

# DRAINAGE PLAN SHEET

| REFERENCE PROJECT NO | FISCAL YEAR | SHEET NO |
|---|---|---|
| IM-AL06(900) | 2015 | 238 |




| RESPONSIBLE PE: | SUPERVISOR: | DESIGNER: | PLAN SUBMITTAL | ALABAMA DEPARTMENT OF TRANSPORTATION | HORIZ SCALE (FEET) 50 0 50 | SHEET TITLE | ROUTE |
|---|---|---|---|---|---|---|---|
| DATE: | DATE: | DATE: | | | | DRAINAGE PLAN SHEET | I-10 |

# DRAINAGE PLAN SHEET

| REFERENCE PROJECT NO | FISCAL YEAR | SHEET NO |
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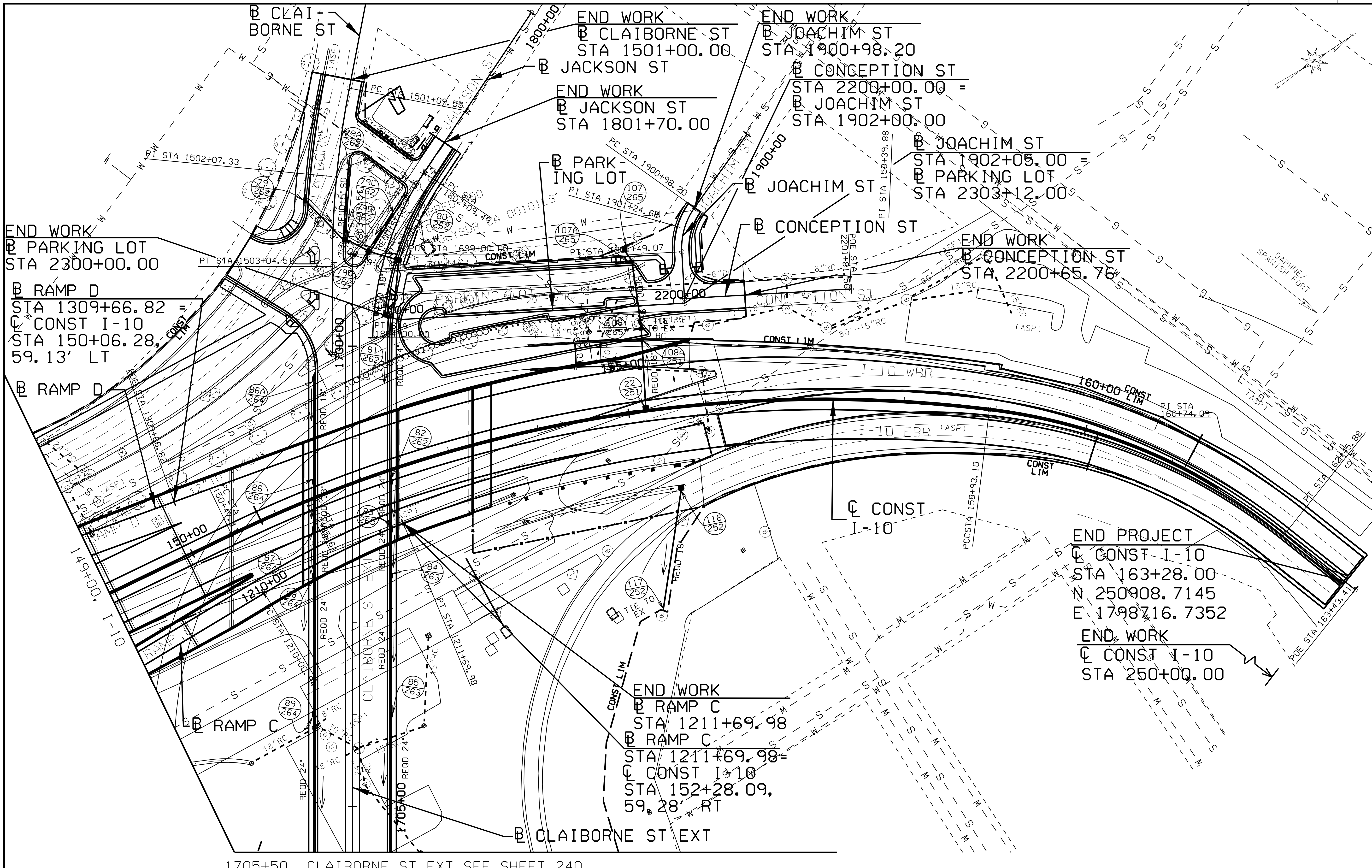


1705+50, CLAIBORNE ST EXT SEE SHEET 240

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| DATE: | DATE: | DATE: | | | | | |

# DRAINAGE PLAN SHEET

| REFERENCE PROJECT NO | FISCAL YEAR | SHEET NO |
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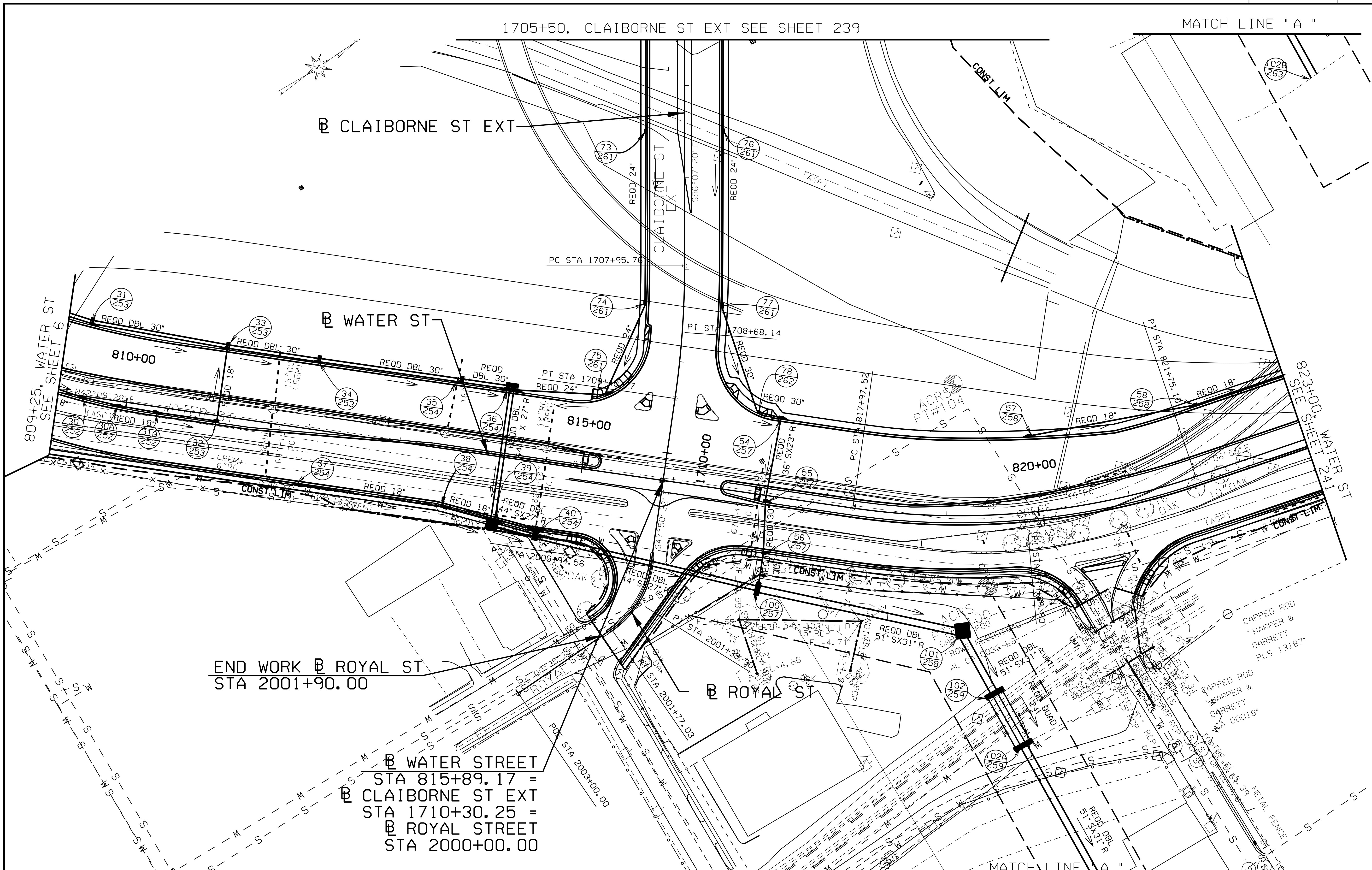


| RESPONSIBLE PE: | SUPERVISOR: | DESIGNER: | PLAN SUBMITTAL |
|---|---|---|---|
| DATE: | DATE: | DATE: | |

ALABAMA DEPARTMENT OF TRANSPORTATION

HORIZ 50 0 50 SCALE (FEET)

| SHEET TITLE | ROUTE |
|---|---|
| DRAINAGE PLAN SHEET | I-10 |

# DRAINAGE SECTIONS

| REFERENCE PROJECT NO | FISCAL YEAR | SHEET NO |
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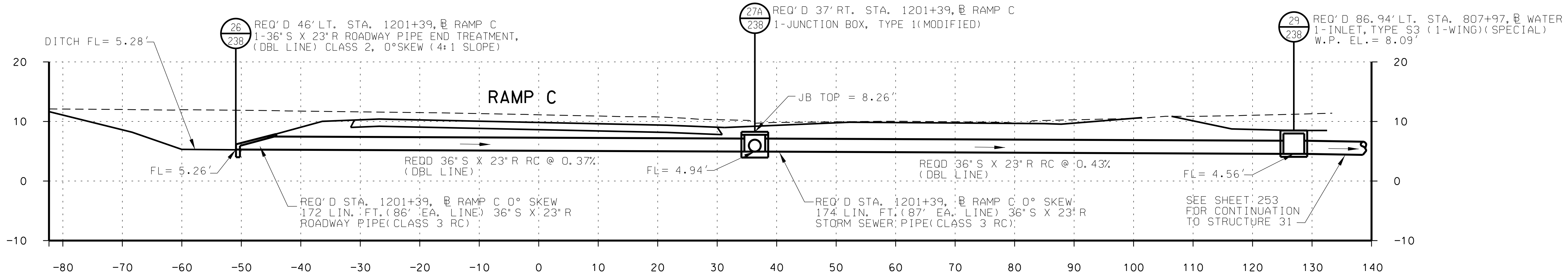
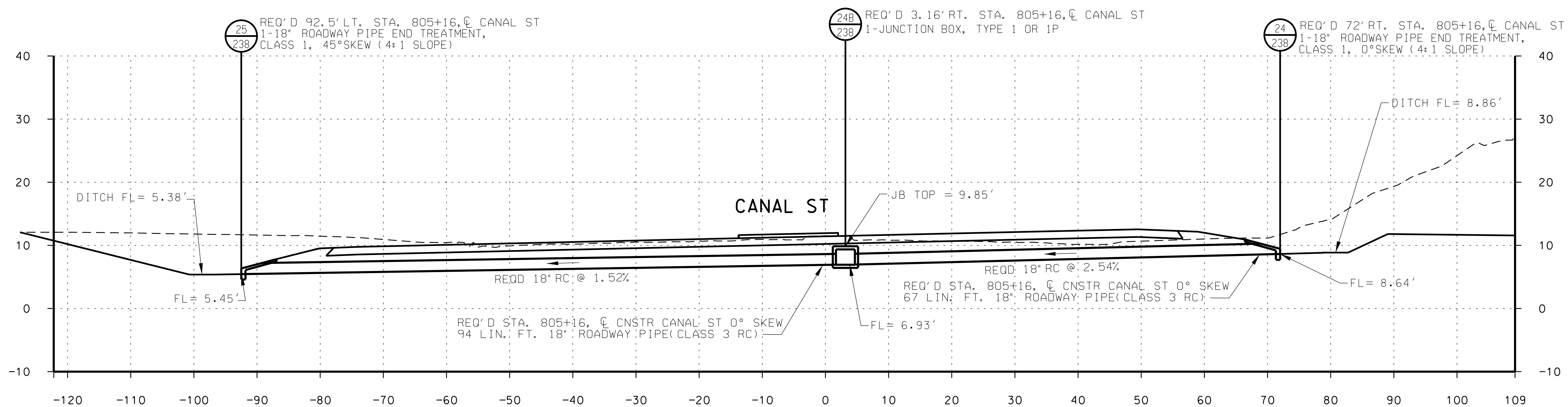
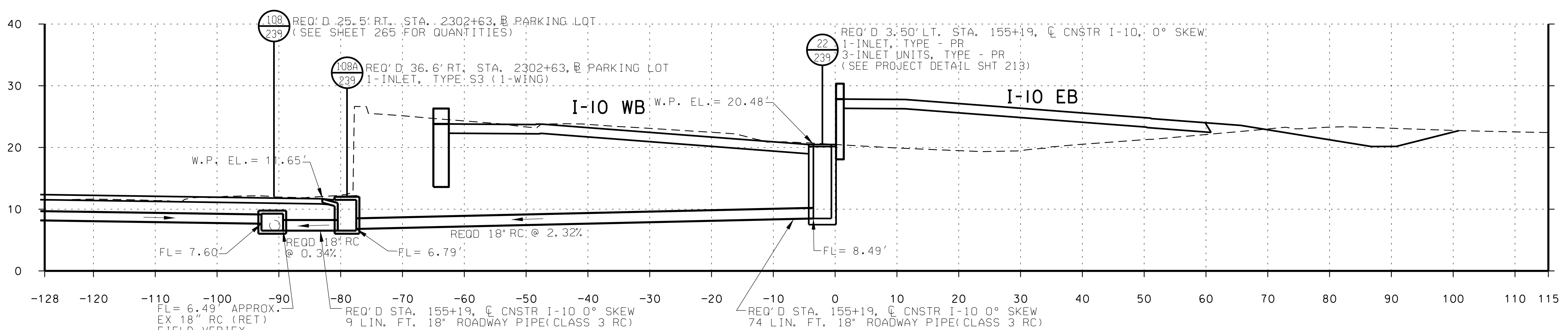



1201+39




805·16




155·19

| RESPONSIBLE PE: | SUPERVISOR: | DESIGNER: | PLAN SUBMITTAL | ALABAMA DEPARTMENT OF TRANSPORTATION | HORIZ 10 0 10 SCALE (FEET) VERT 10 0 10 | SHEET TITLE | ROUTE |
|---|---|---|---|---|---|---|---|
| DATE: | DATE: | DATE: | | | | DRAINAGE SECTIONS | I-10 |

# DRAINAGE SECTIONS

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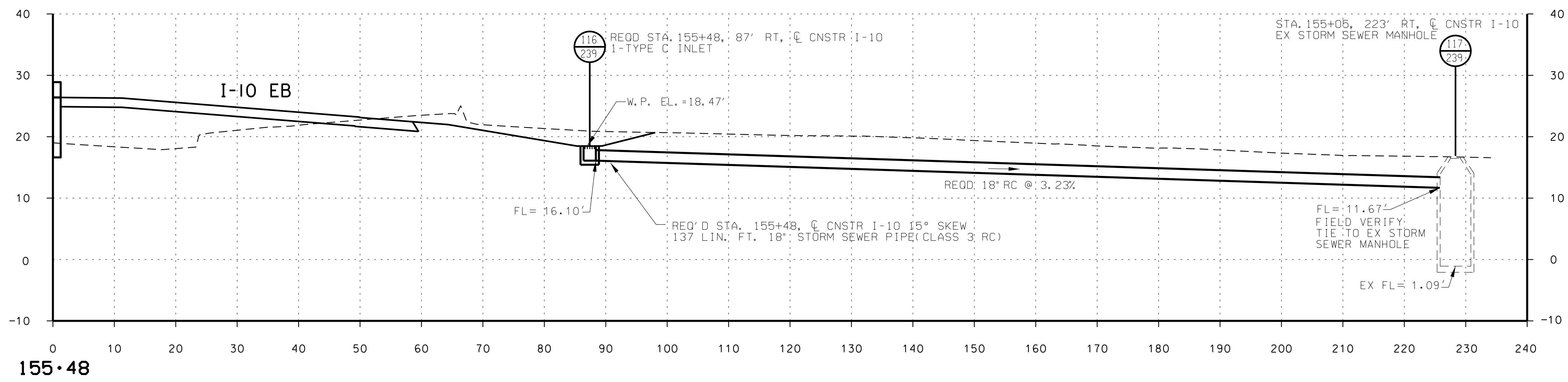


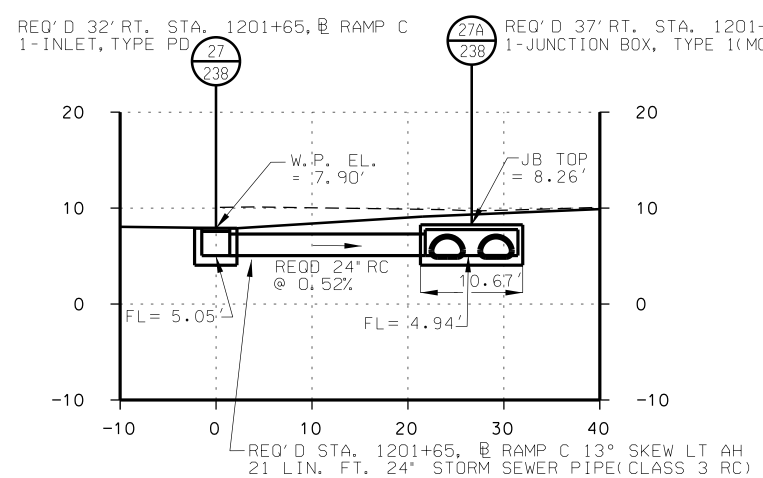


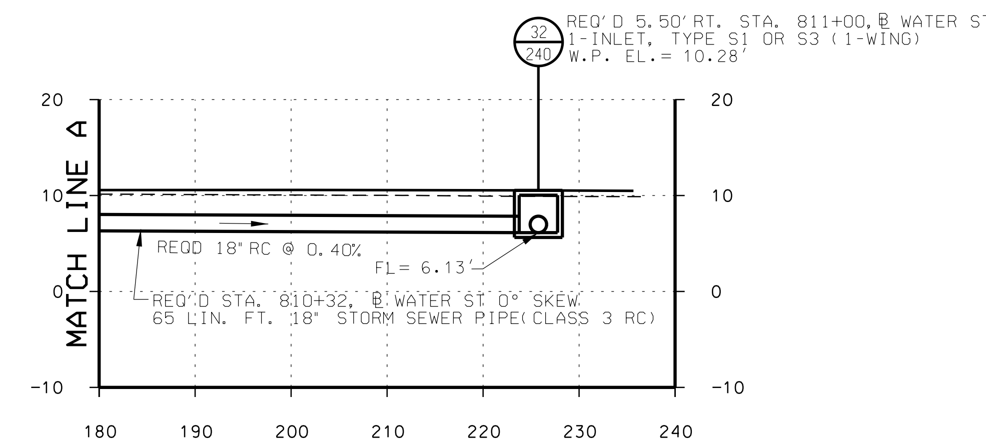


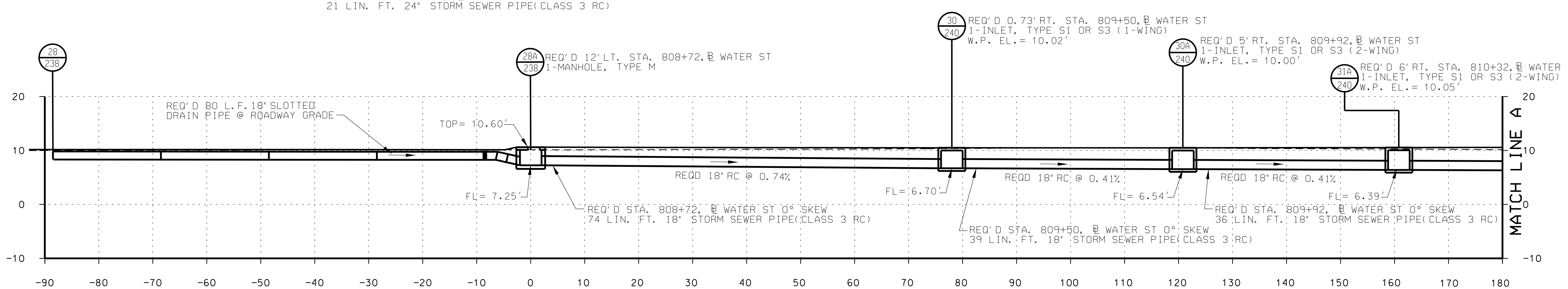


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| DATE: | DATE: | DATE: | | | | | |

# DRAINAGE SECTIONS

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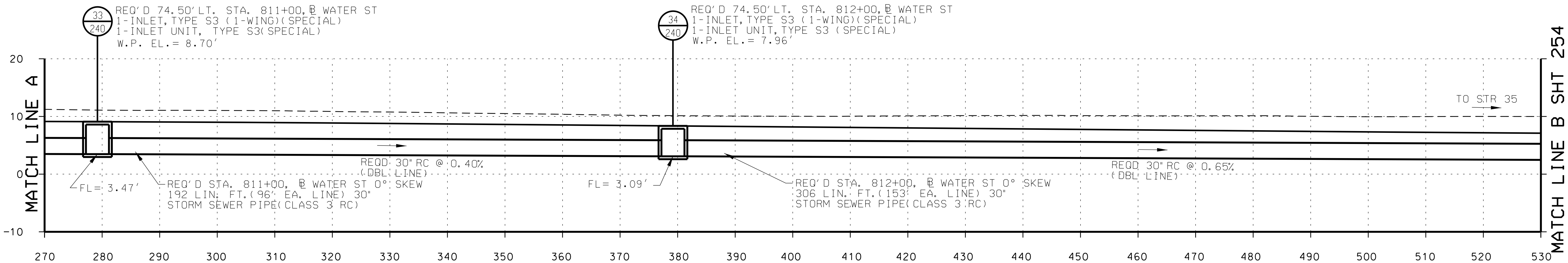
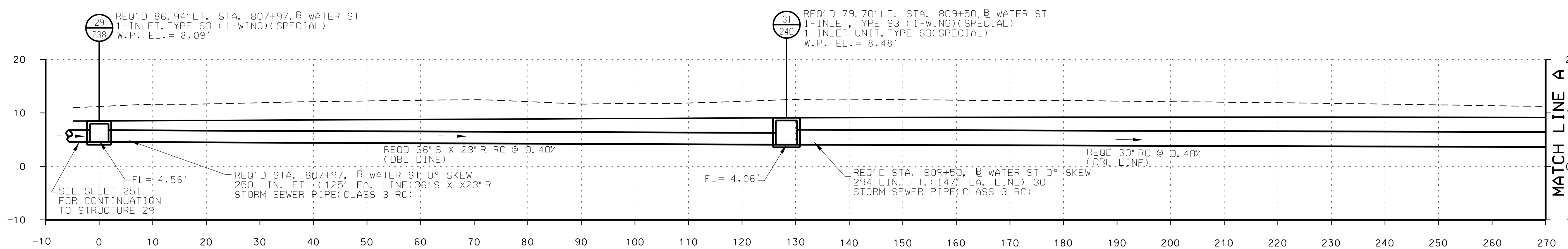
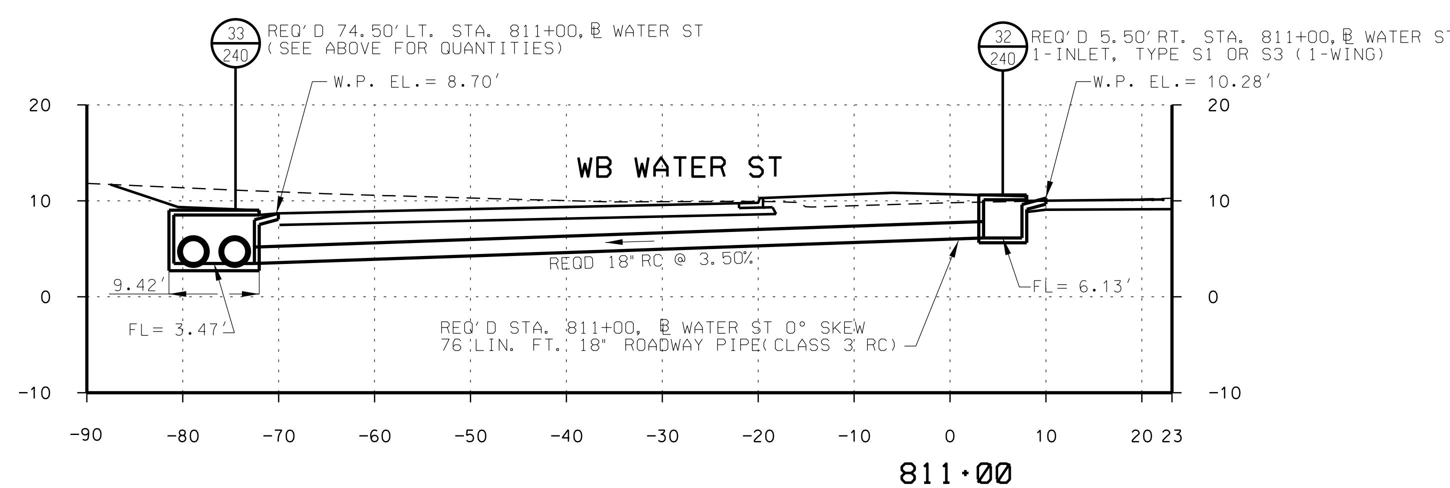


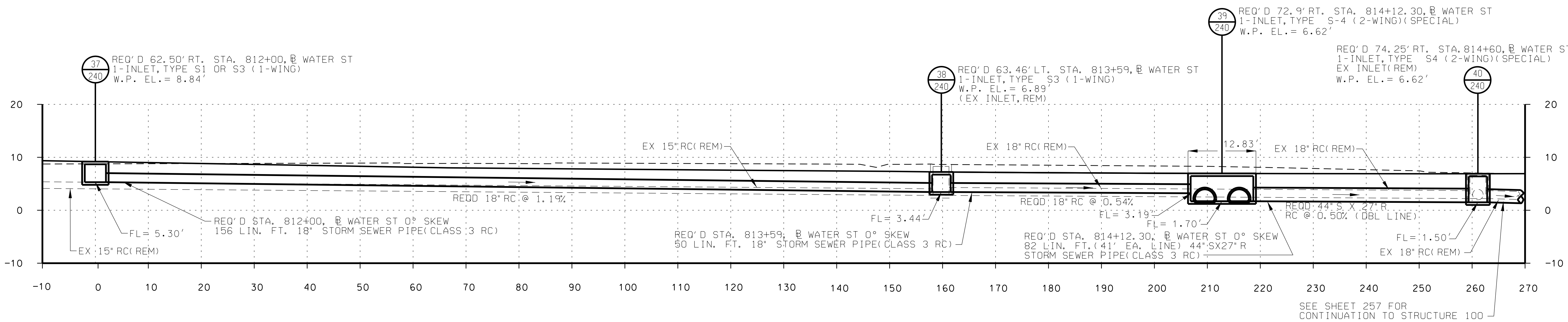

| RESPONSIBLE PE: | SUPERVISOR: | DESIGNER: | PLAN SUBMITTAL |
| --- | --- | --- | --- |
| DATE: | DATE: | DATE: | |

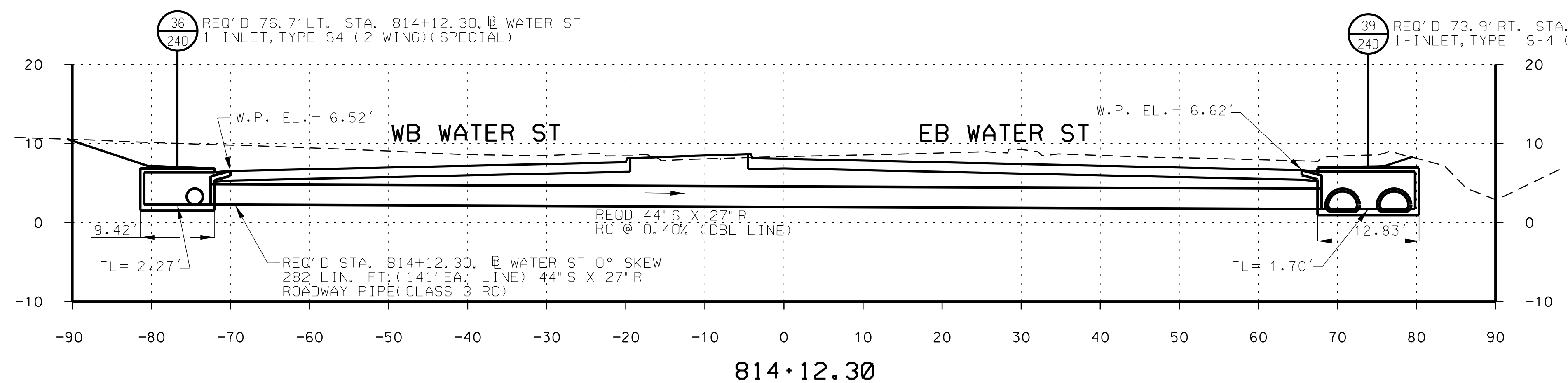
ALABAMA DEPARTMENT OF TRANSPORTATION

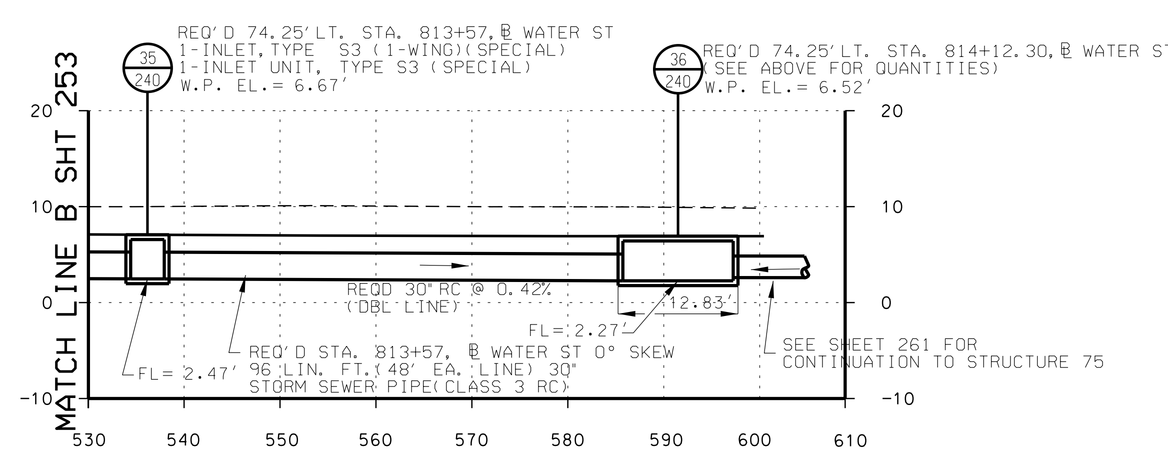
SCALE (FEET): HORIZ 10 0 10; VERT 10 0 10

| SHEET TITLE | ROUTE |
| --- | --- |
| DRAINAGE SECTIONS | I-10 |

# DRAINAGE SECTIONS



# DRAINAGE SECTIONS

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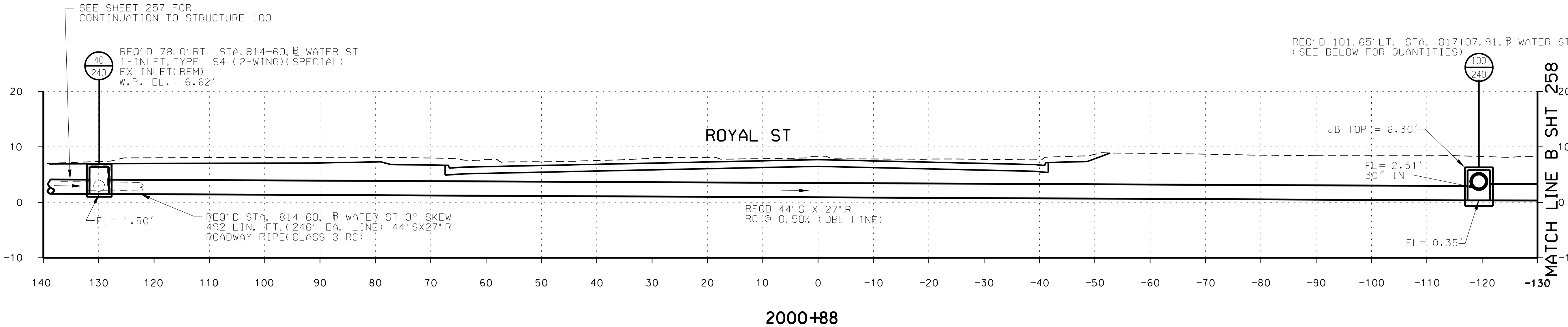


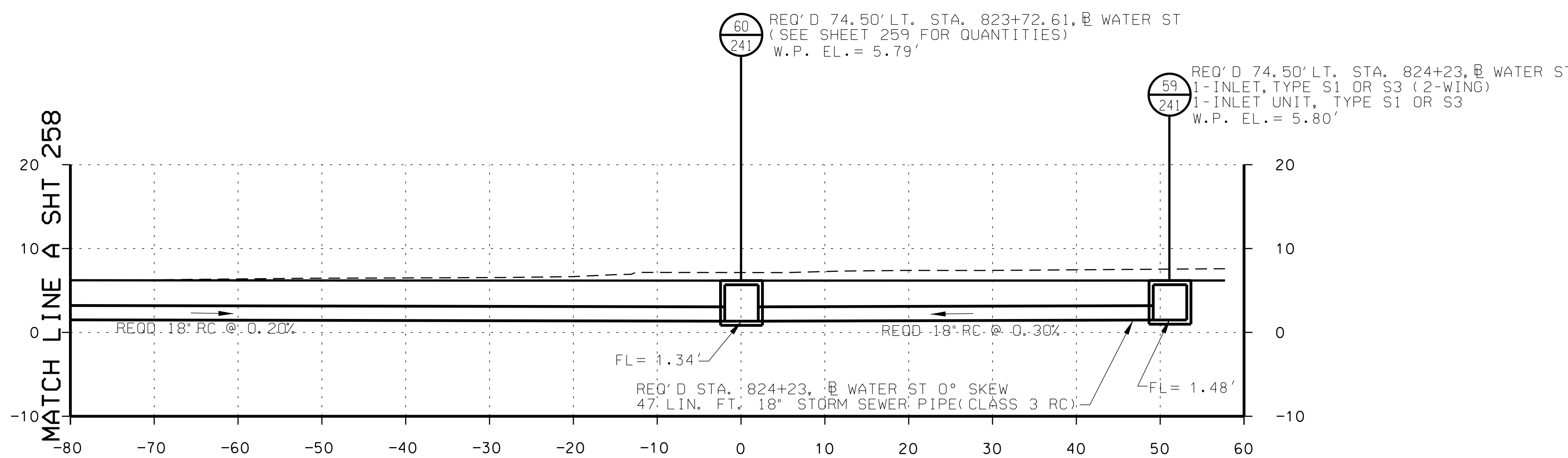


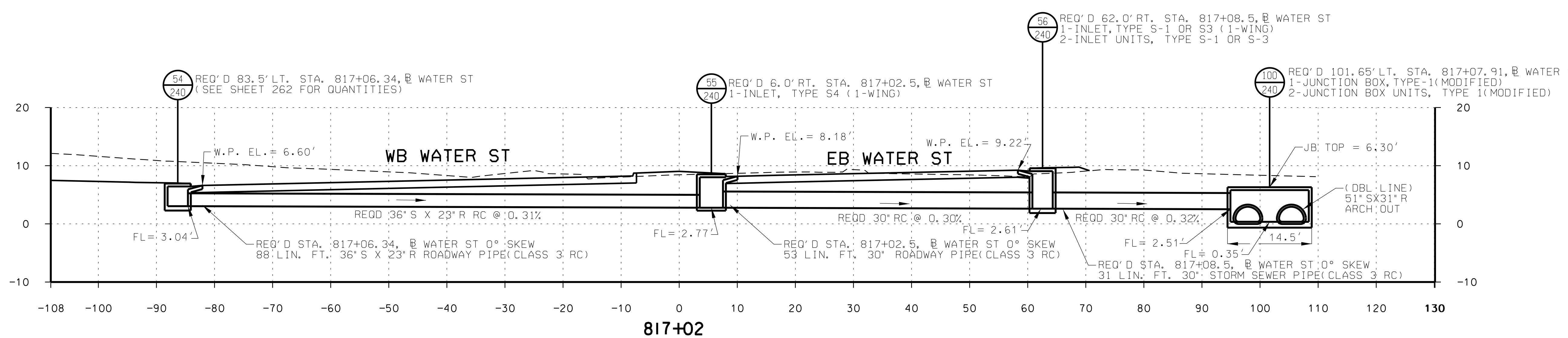


| RESPONSIBLE PE: | SUPERVISOR: | DESIGNER: | PLAN SUBMITTAL | ALABAMA DEPARTMENT OF TRANSPORTATION | SCALE (FEET) HORIZ 10 0 10 / VERT 10 0 10 | SHEET TITLE | ROUTE |
|---|---|---|---|---|---|---|---|
| DATE: | DATE: | DATE: | | | | DRAINAGE SECTIONS | I-10 |

# DRAINAGE SECTIONS

| REFERENCE PROJECT NO | FISCAL YEAR | SHEET NO |
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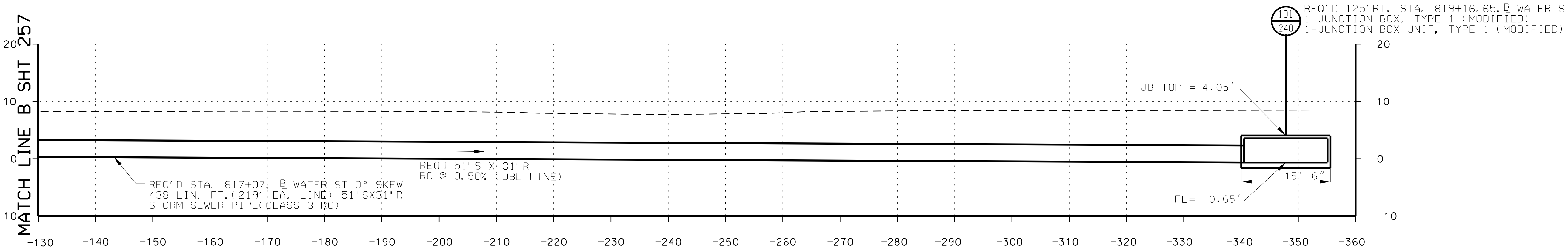


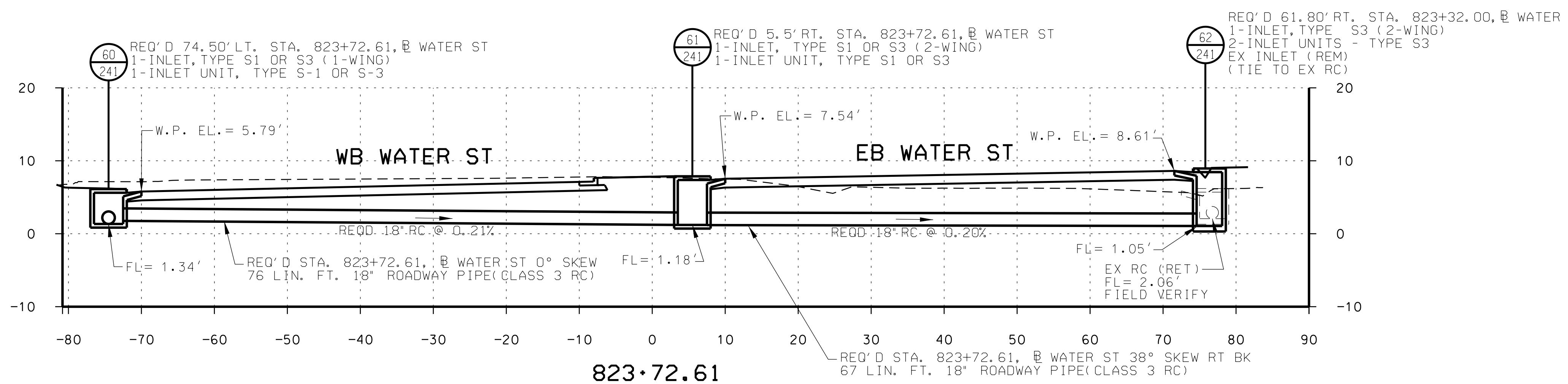


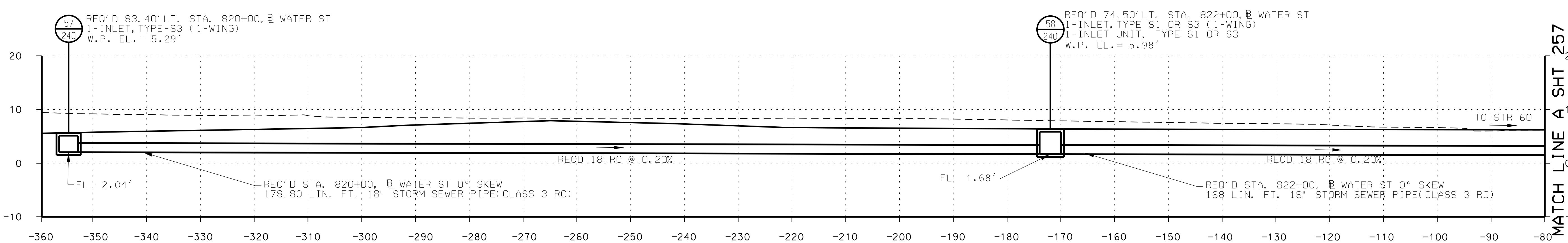


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|---|---|---|---|---|---|---|---|
| DATE: | DATE: | DATE: | | | | DRAINAGE SECTIONS | I-10 |

# DRAINAGE SECTIONS

| REFERENCE PROJECT NO | FISCAL YEAR | SHEET NO |
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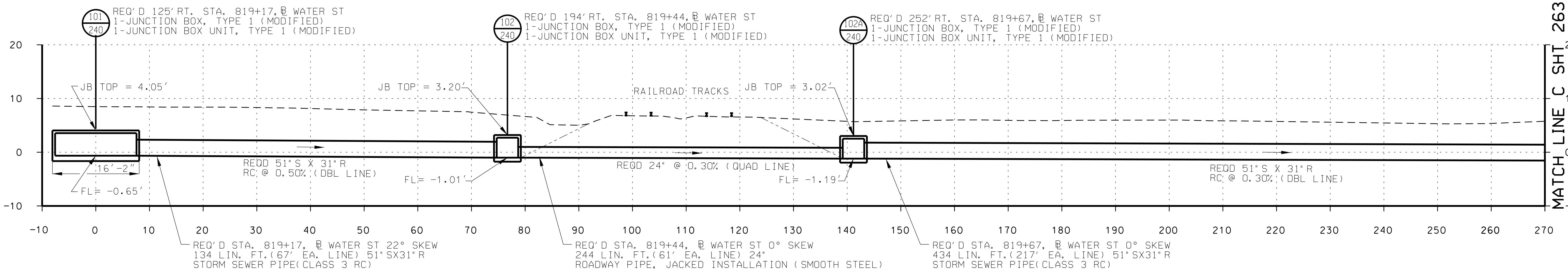


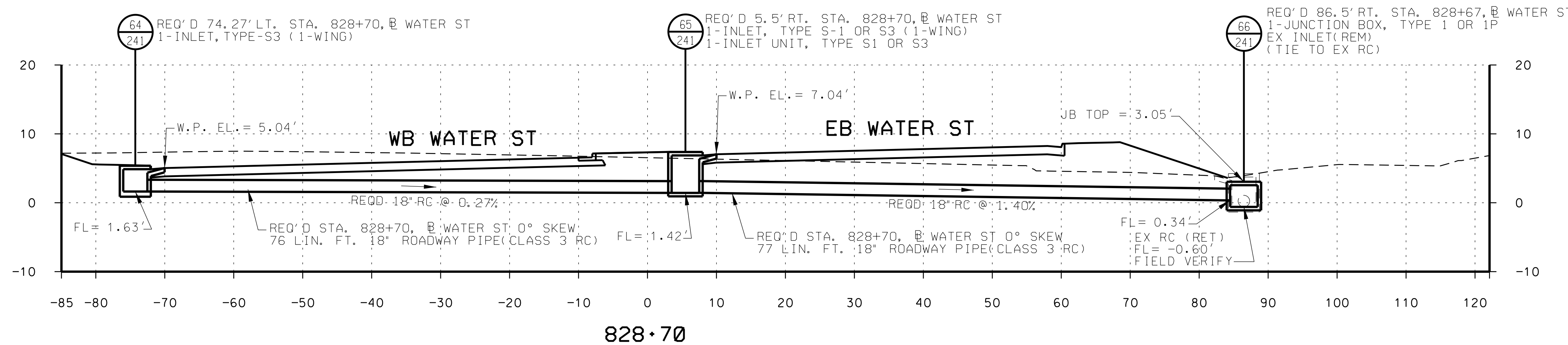


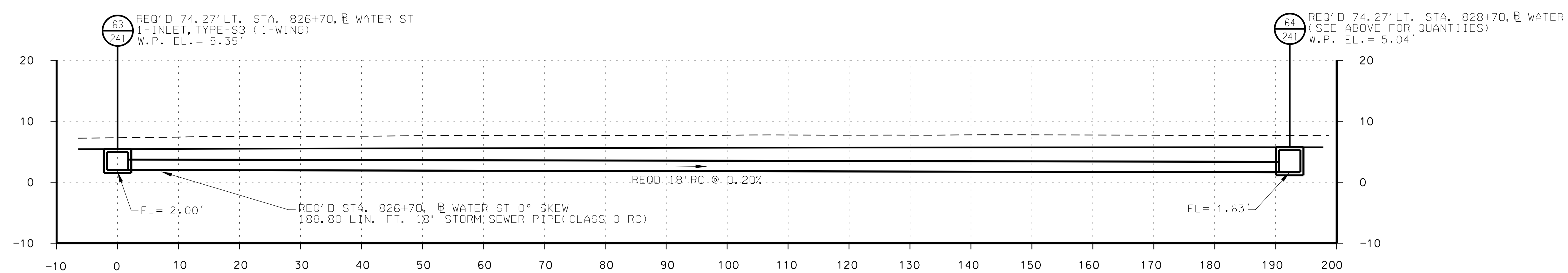


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| DATE: | DATE: | DATE: | | | | DRAINAGE SECTIONS | I-10 |

# DRAINAGE SECTIONS

| REFERENCE PROJECT NO | FISCAL YEAR | SHEET NO |
|---|---|---|
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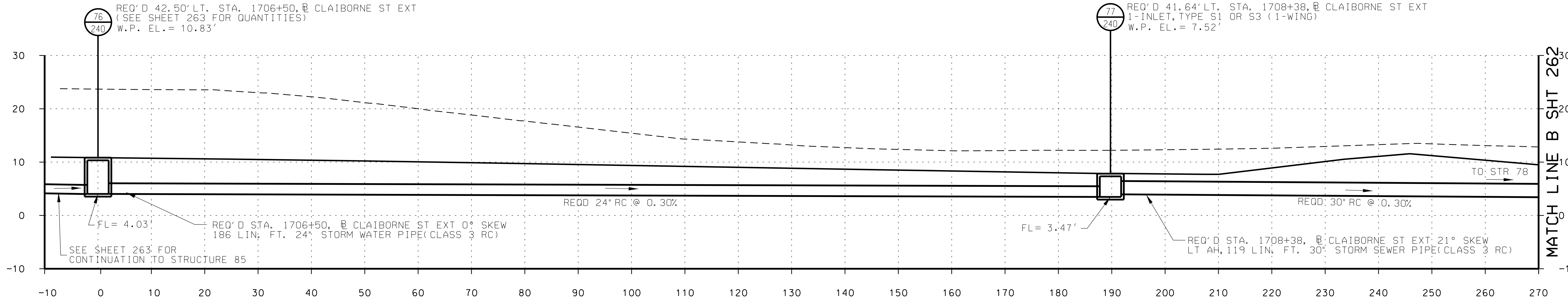


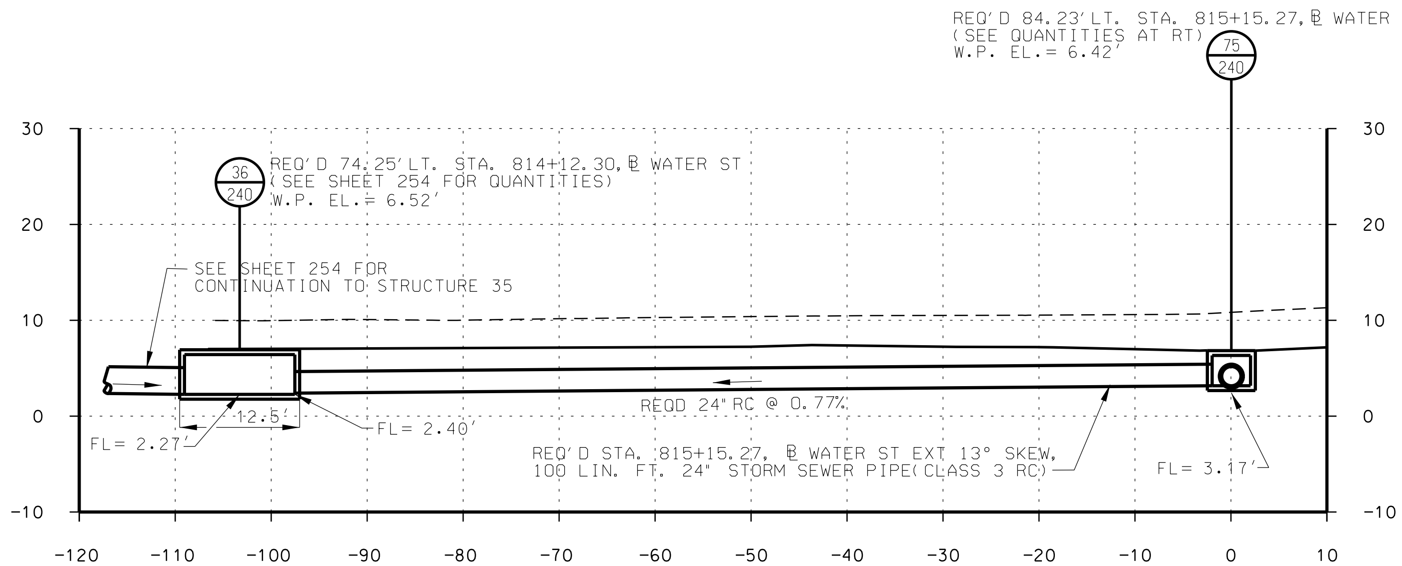


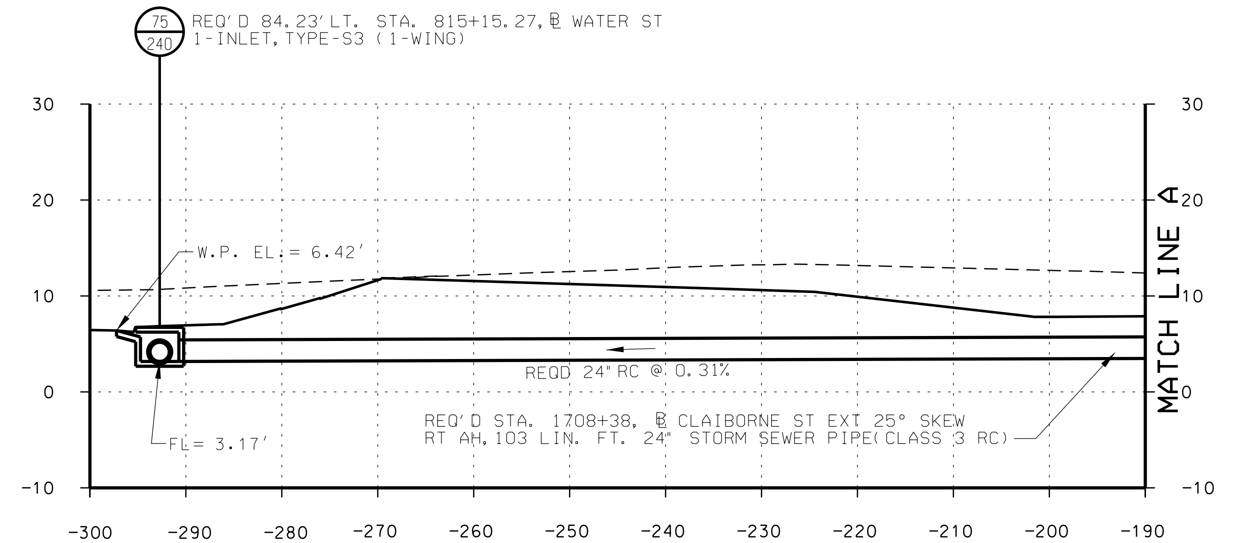


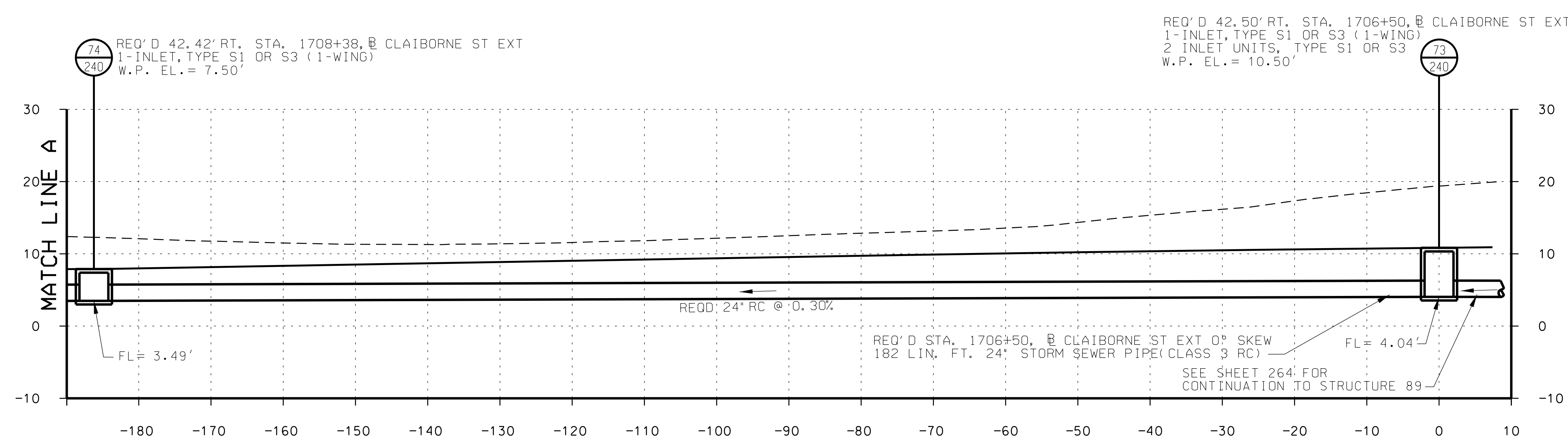


| RESPONSIBLE PE: | SUPERVISOR: | DESIGNER: | PLAN SUBMITTAL | ALABAMA DEPARTMENT OF TRANSPORTATION | HORIZ 10 0 10 SCALE (FEET) VERT 10 0 10 | SHEET TITLE | ROUTE |
|---|---|---|---|---|---|---|---|
| DATE: | DATE: | DATE: | | | | DRAINAGE SECTIONS | I-10 |

# DRAINAGE SECTIONS

| REFERENCE PROJECT NO | FISCAL YEAR | SHEET NO |
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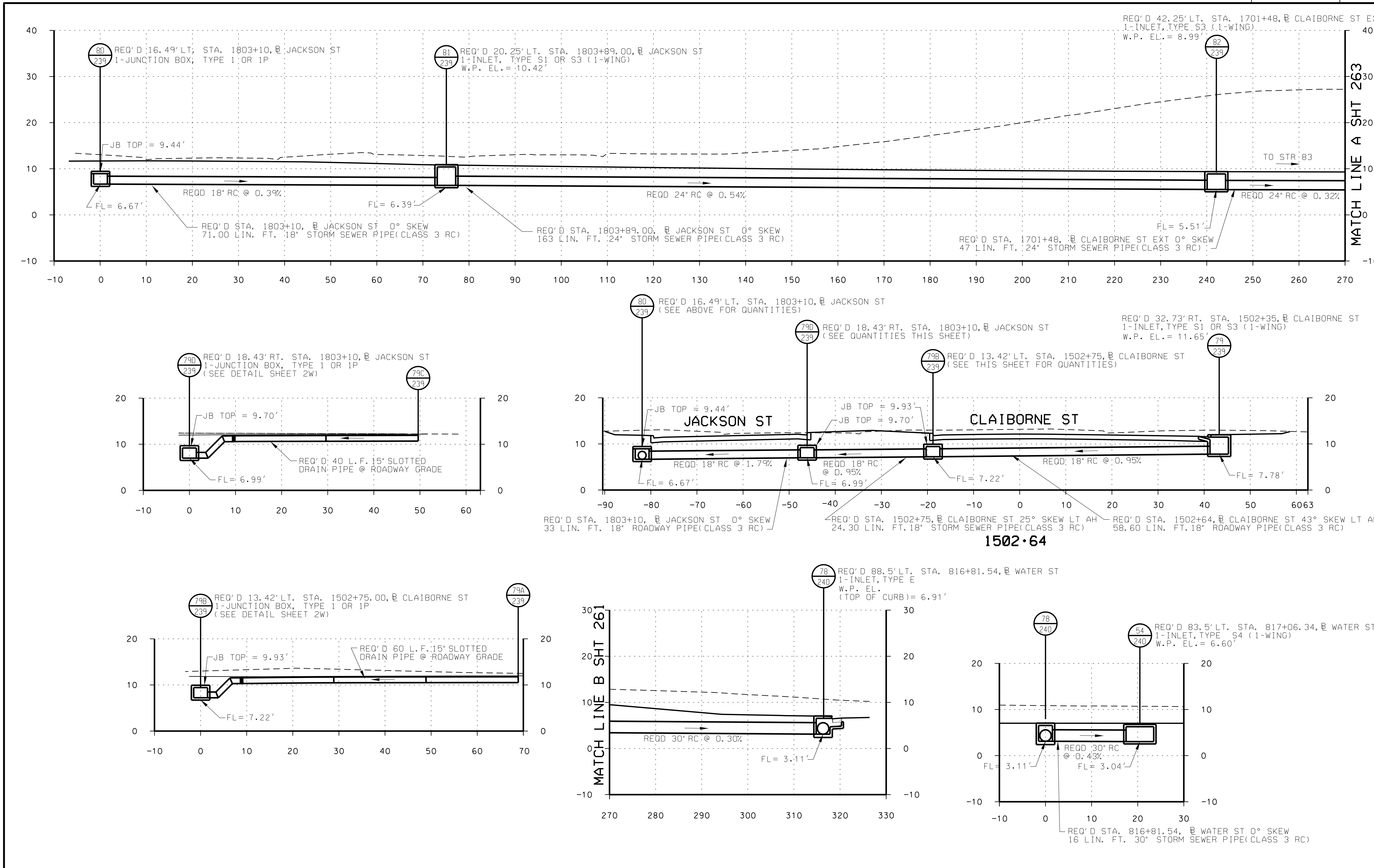


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|---|---|---|---|---|---|---|---|
| DATE: | DATE: | DATE: | | | | DRAINAGE SECTIONS | I-10 |

# DRAINAGE SECTIONS

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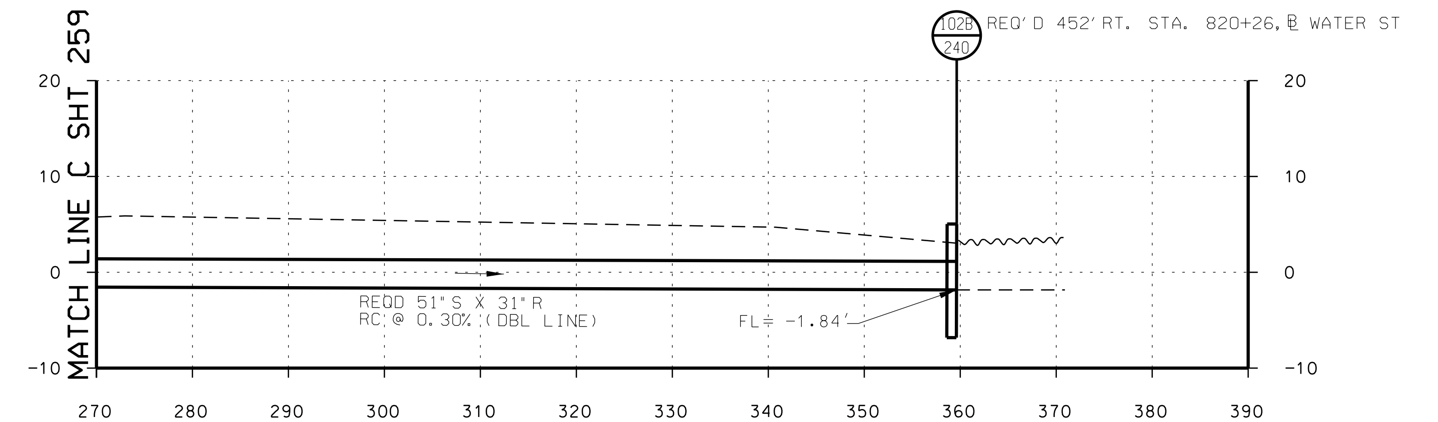


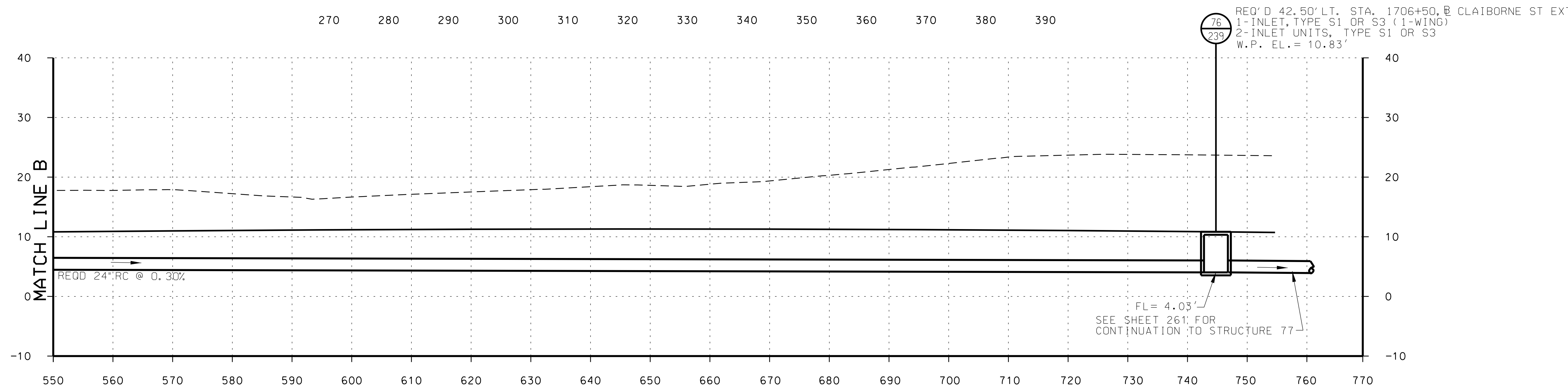


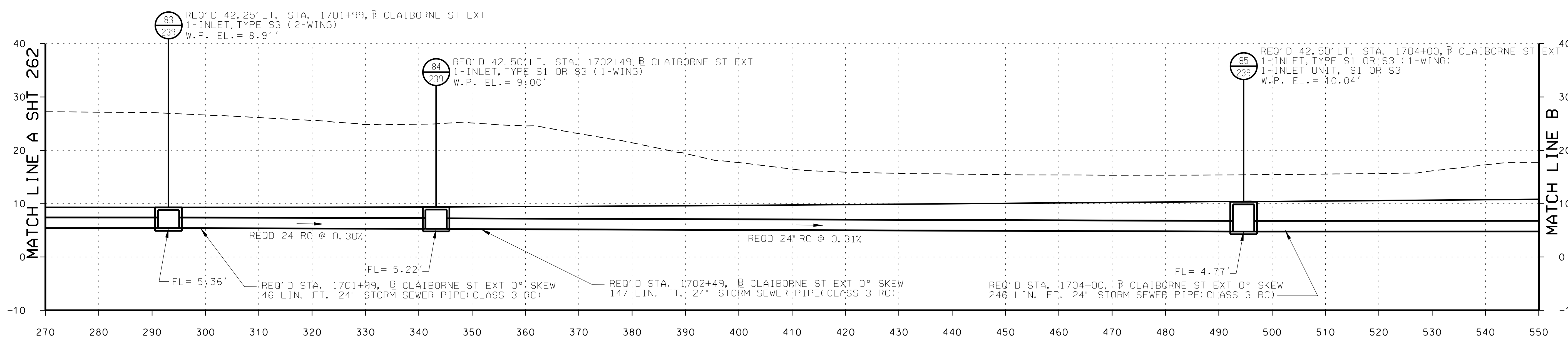


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|---|---|---|---|---|---|---|---|
| DATE: | DATE: | DATE: | | | | DRAINAGE SECTIONS | I-10 |

# DRAINAGE SECTIONS

| REFERENCE PROJECT NO | FISCAL YEAR | SHEET NO |
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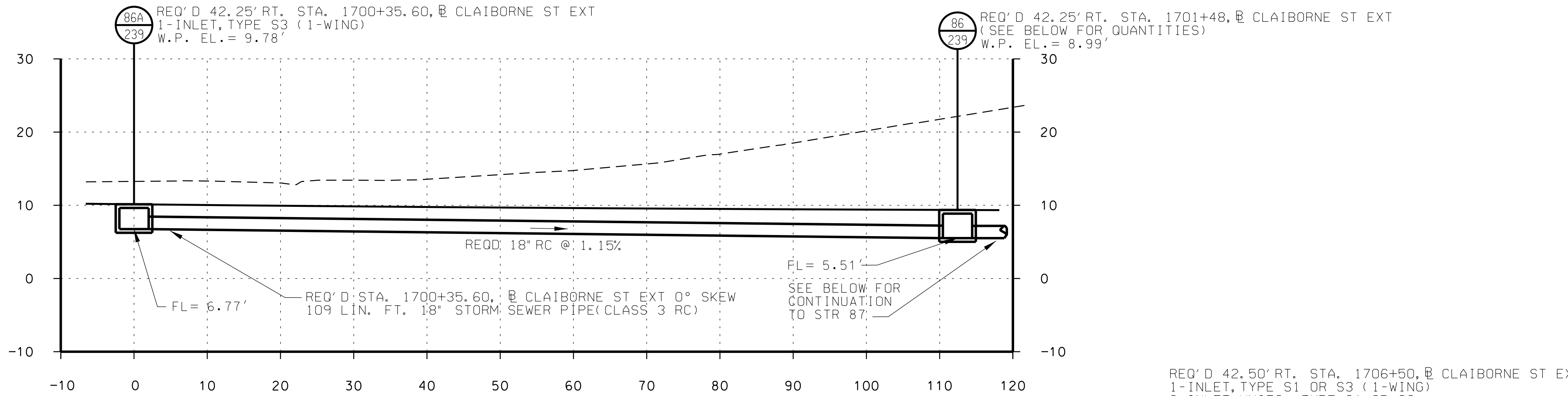


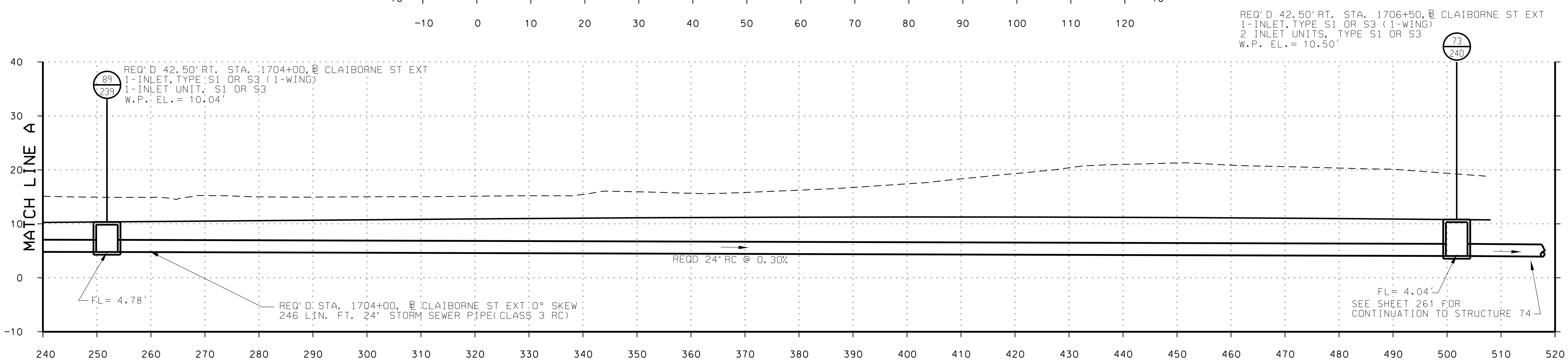


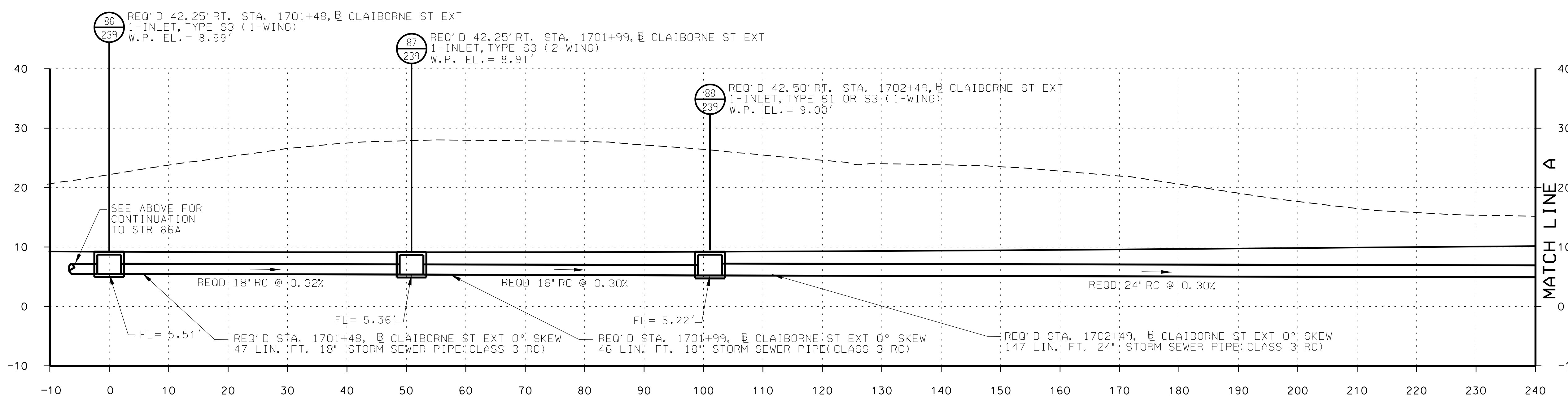


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|---|---|---|---|---|---|---|---|
| DATE: | DATE: | DATE: | | | | DRAINAGE SECTIONS | I-10 |

# PROJECT NO. IM-AL06 (900)

# I-10 TEXAS STREET

## Conduit FlexTable: Combined Pipe/Node Report

| Label | Start Node | Stop Node | Flow (cfs) | Rise (Unified) (ft) | Capacity (Full Flow) (cfs) | Velocity (ft/s) | Invert (Upstream) (ft) | Invert (Downstream) (ft) | Slope (ft/ft) |
|---|---|---|---|---|---|---|---|---|---|
| CO-5 | 26 | 27A | 29.81 | 1.88 | (N/A) | 5.15 | 5.26 | 4.94 | 0.0037 |
| CO-6 | 27A | 29 | 38.31 | 1.88 | (N/A) | 5.78 | 4.94 | 4.56 | 0.0044 |
| CO-7 | 29 | 31 | 40.05 | 1.88 | (N/A) | 5.61 | 4.56 | 4.06 | 0.0040 |
| CO-8 | 31 | 33 | 41.64 | 2.50 | 51.97 | 5.88 | 4.06 | 3.47 | 0.0040 |
| CO-9 | 33 | 34 | 45.24 | 2.50 | 51.61 | 5.93 | 3.47 | 3.09 | 0.0040 |
| CO-11 | 36 | 39 | 65.58 | 2.22 | (N/A) | 6.34 | 2.27 | 1.70 | 0.0040 |
| CO-12 | 39 | 40 | 68.23 | 2.22 | (N/A) | 6.91 | 1.70 | 1.50 | 0.0049 |
| CO-15 | 40 | 100 | 69.50 | 2.22 | (N/A) | 6.80 | 1.50 | 0.35 | 0.0047 |
| CO-16 | 100 | 101 | 88.43 | 2.61 | (N/A) | 7.26 | 0.35 | -0.65 | 0.0046 |
| CO-17 | 34 | 35 | 46.73 | 2.50 | 52.22 | 6.01 | 3.09 | 2.47 | 0.0041 |
| CO-18 | 35 | 36 | 49.14 | 2.50 | 52.95 | 6.12 | 2.47 | 2.27 | 0.0042 |
| CO-20 | 56 | 100 | 18.93 | 3.00 | 37.88 | 5.36 | 2.61 | 2.51 | 0.0032 |
| CO-21 | 27 | 27A | 8.50 | 2.00 | 16.61 | 5.32 | 5.05 | 4.94 | 0.0054 |
| CO-22 | 101 | 102 | 88.43 | 2.61 | (N/A) | 7.73 | -0.65 | -1.01 | 0.0054 |
| CO-23 | 102 | 102A | 88.43 | 2.00 | 49.15 | 7.04 | -1.01 | -1.19 | 0.0030 |
| CO-25 | 102A | 102B | 88.43 | 2.61 | (N/A) | 6.09 | -1.19 | -1.84 | 0.0030 |

Notes

# PROJECT NO. IM-AL06 (900)
# I-10 TEXAS STREET

## ENGINEERING PROFILE VIEW
## NODE 26-102B