

# WFL Sample Plan Sheets

## Cross Sections

Revised: October 2022

### CREATING

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Cross sections should be cut at a 25ft even station interval (41+00.00, 41+25.00, 41+50.00, 41+75.00, etc.) unless otherwise noted. Cross sections show complete design information of the 3D model from the subgrade up to proposed surface and cut and fill conditions and limits. It will also be necessary to show a cross section at all culvert locations along the skew of the culvert (< 48 inches).

A vertical exaggeration of 1H:1V is typically used. The cross sections sheets are typically 20 scale, however scales from 1 to 40 are available to use. Select an appropriate scale and orientation so that the proposed design is clearly shown and the annotation is legible. A single scale may not be appropriate throughout an entire project. Multiple scales may be used to acceptably communicate the design.

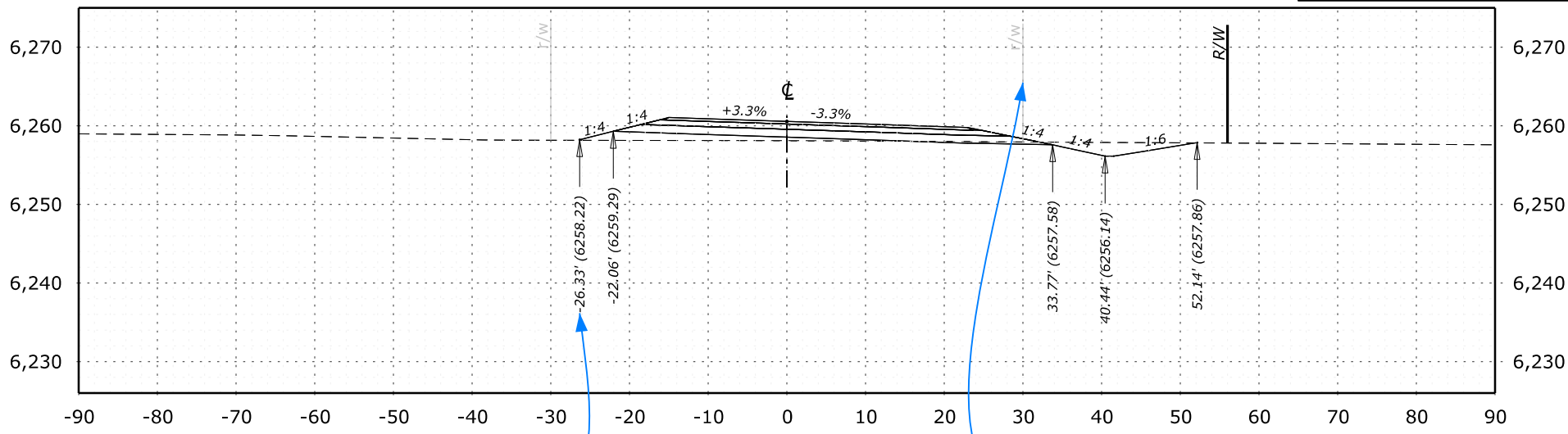
### LABELLING/ANNOTATION

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Key design information including buildings, poles, utilities and other obstacles should be shown or labelled to provide adequate information for design reviews. Separate labelling annotation groups may need to be run to label the appropriate design information (i.e. Utilities and Right of way). Any critical point that is not automatically annotated should be manually annotated (i.e. culvert cross sections).

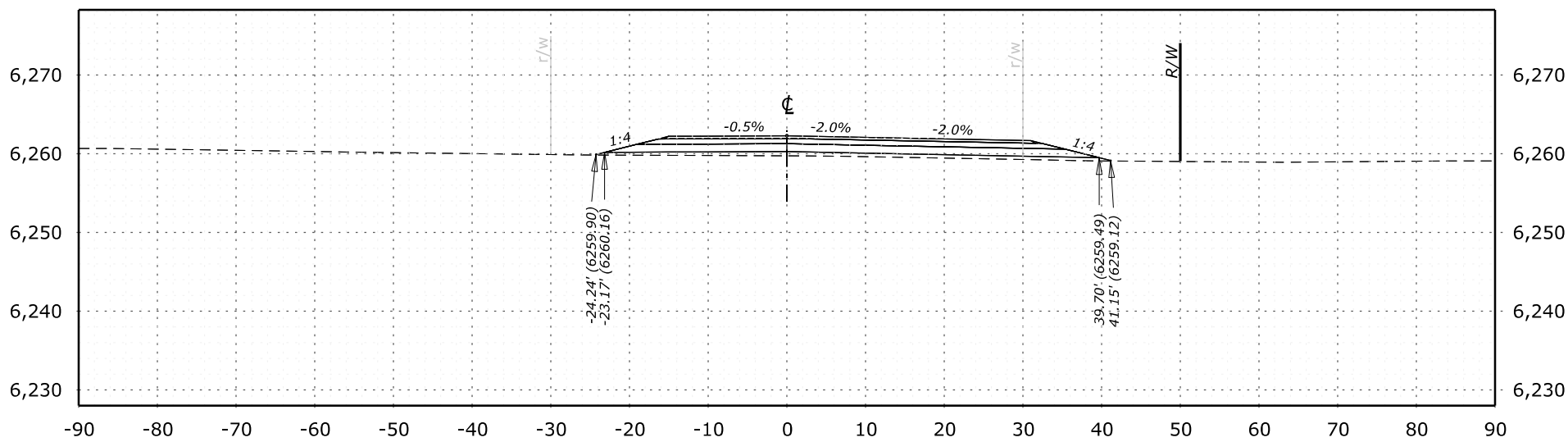
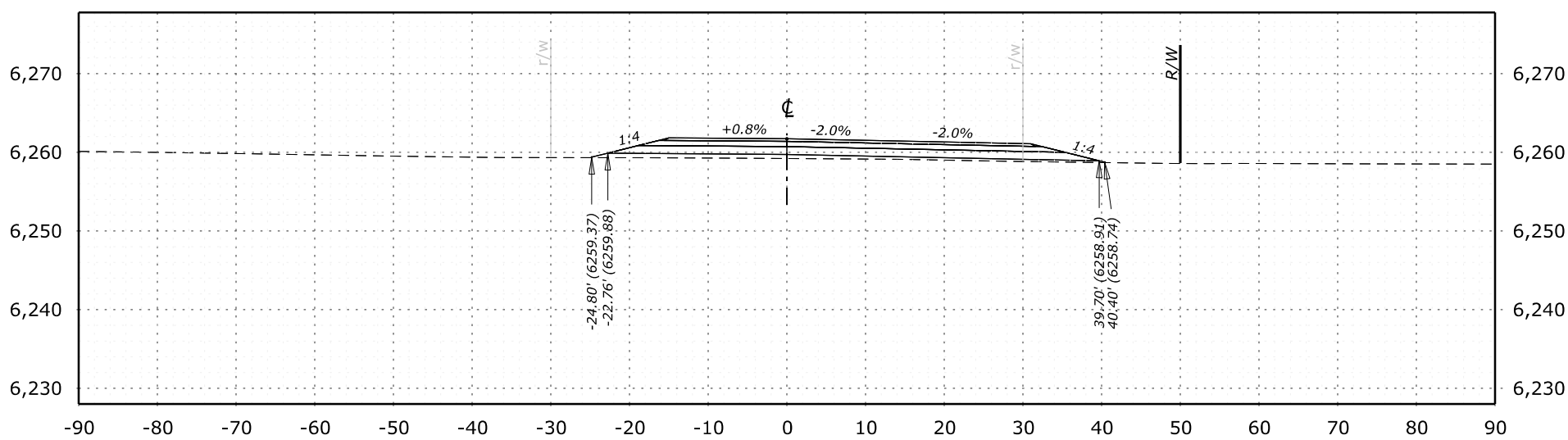
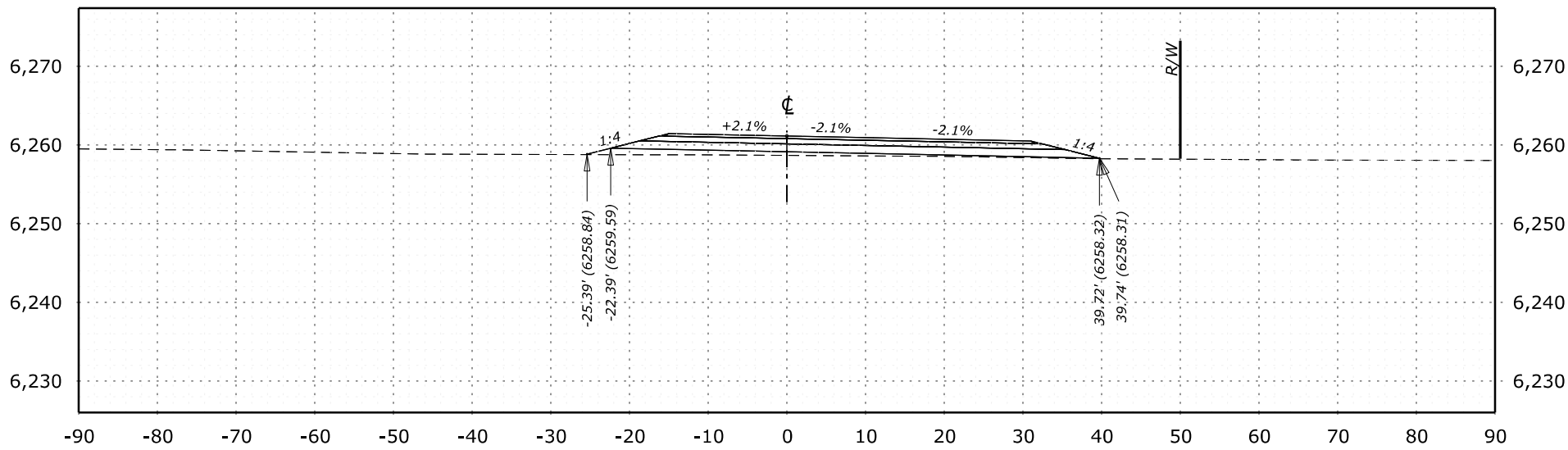
The cross sections are dependent on ORD modeling accuracy. Cross section labeling is depended on corridor template point names and components. Component display errors and labeling errors is often a result of these two variables.

Design information for walls and bridges should not be annotated on the cross sections. All information should be within the design plans.



Annotation Groups  
 Cross Section/Drawing/  
 "XS Grid w/Annotation"

Annotation Groups  
 Cross Section/Drawing/  
 "SU\_XS-Cross Sect Annotation"

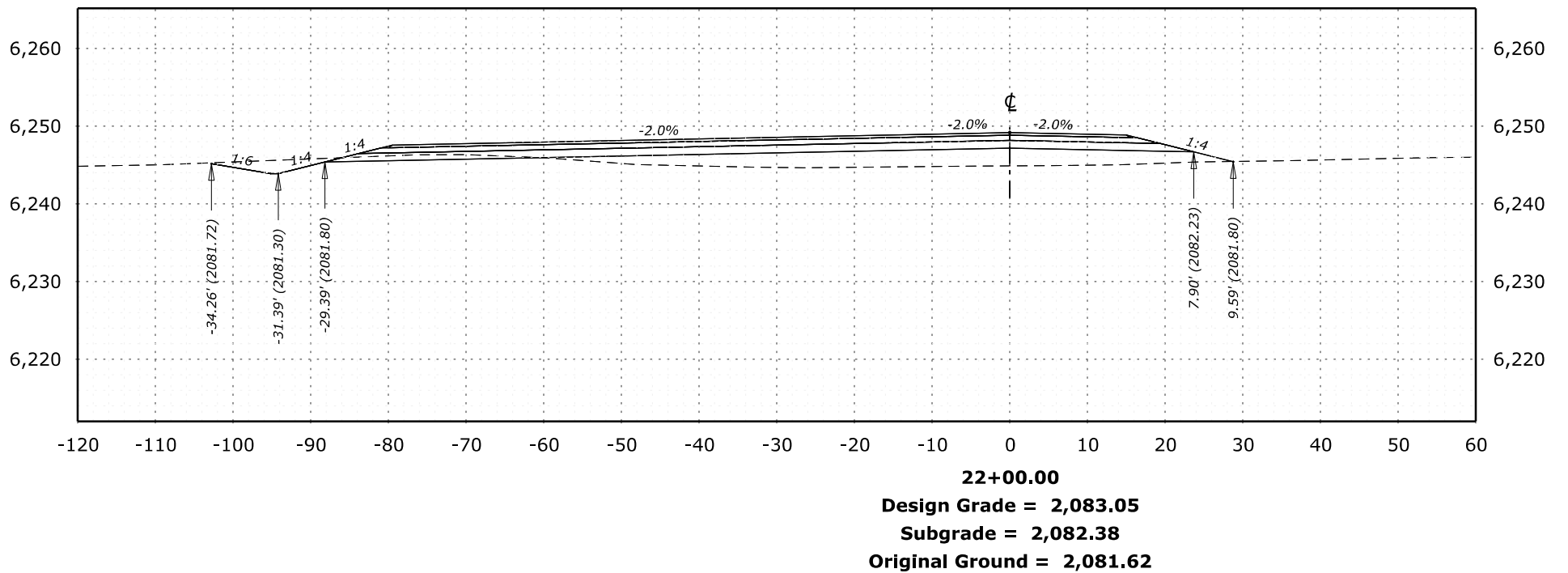
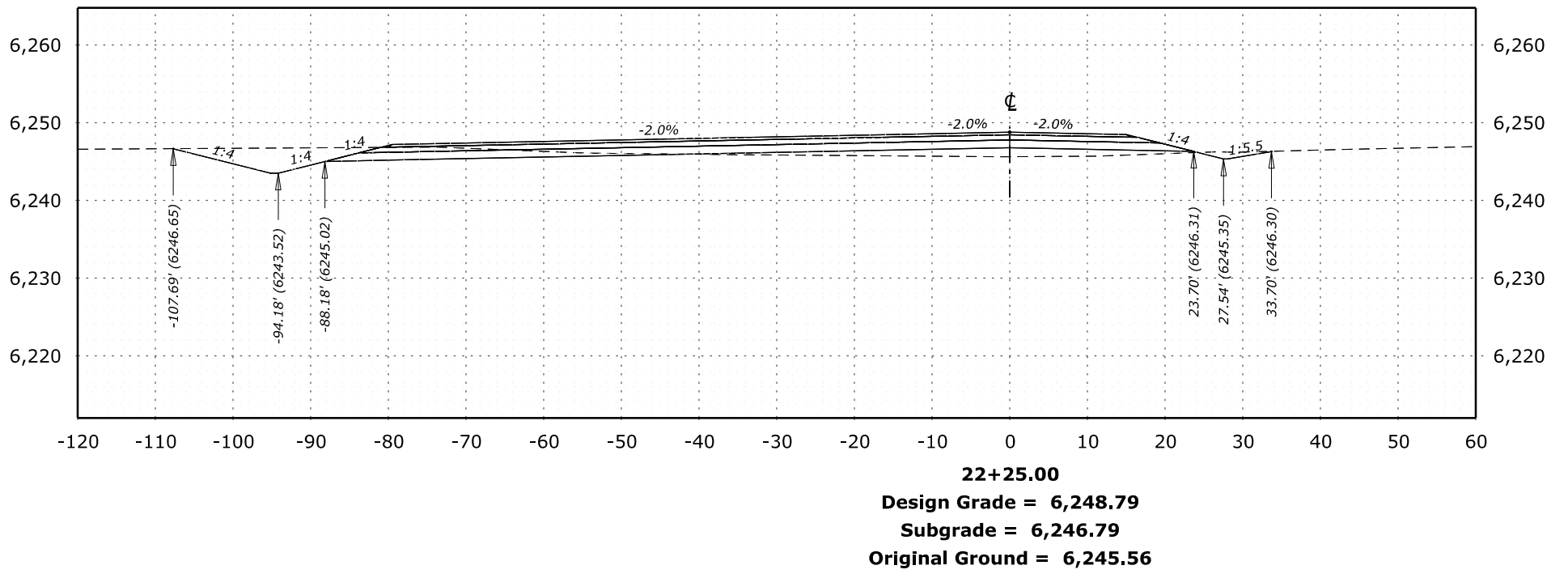
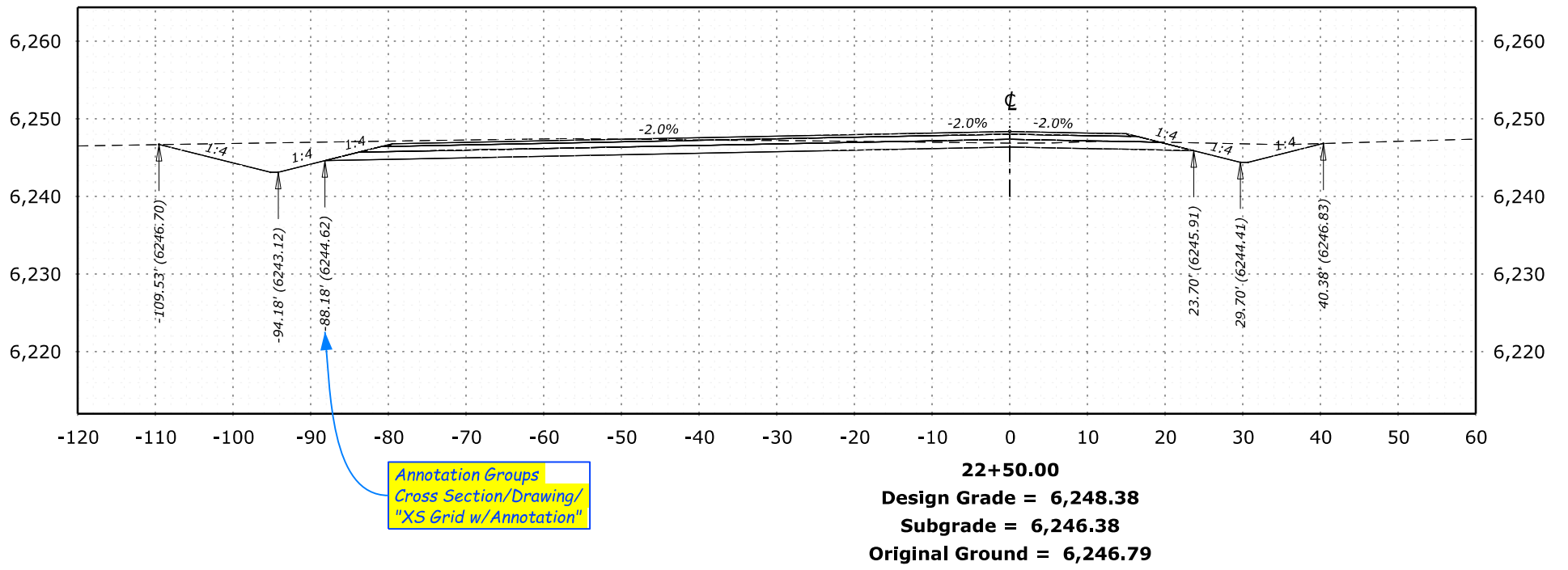


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EXAMPLE 1

"MAIN 01" NORTHEAST ENTRANCE ROAD

PROJECT	SHEET NUMBER
WY NPS YELL 12(2)	XS.2



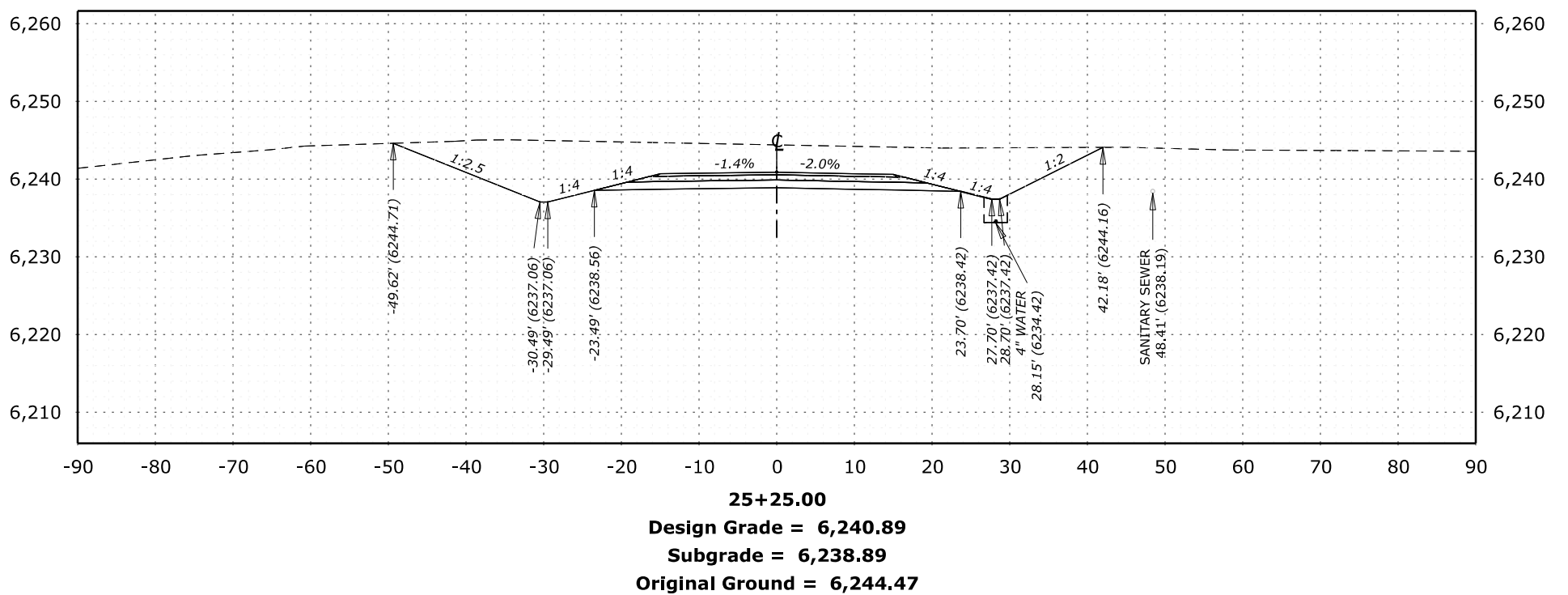
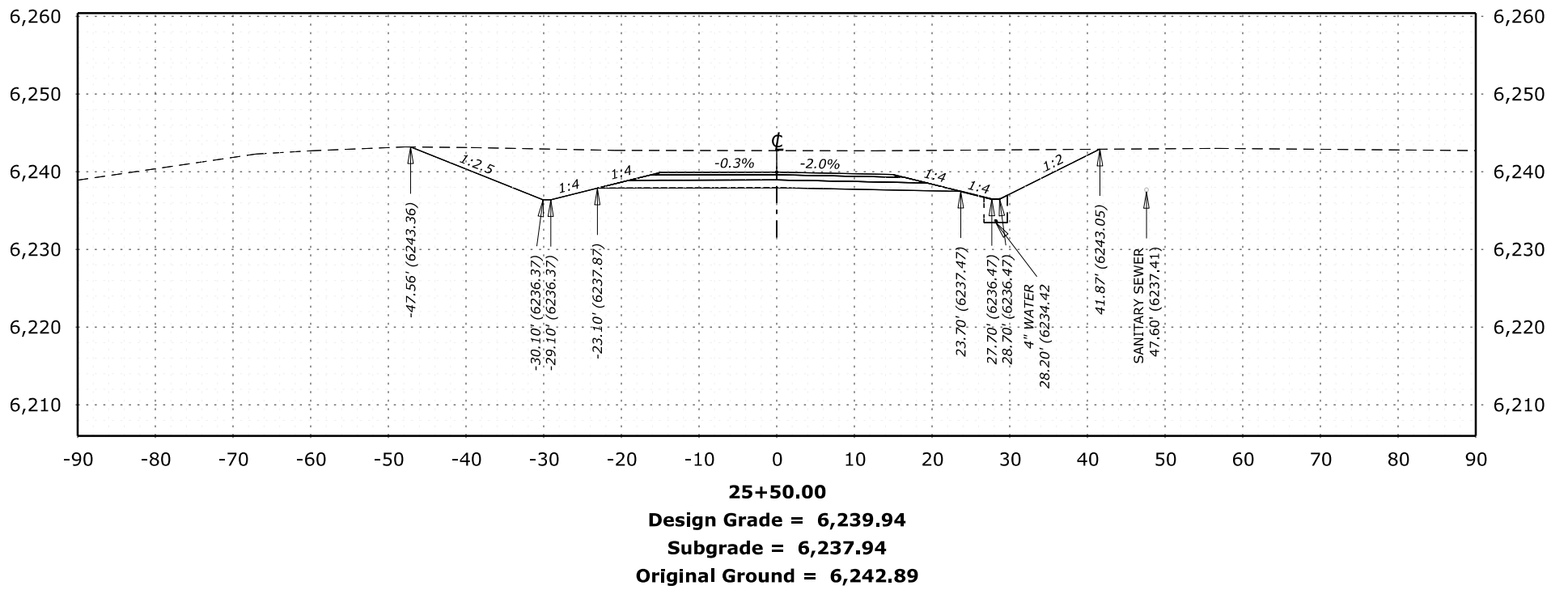
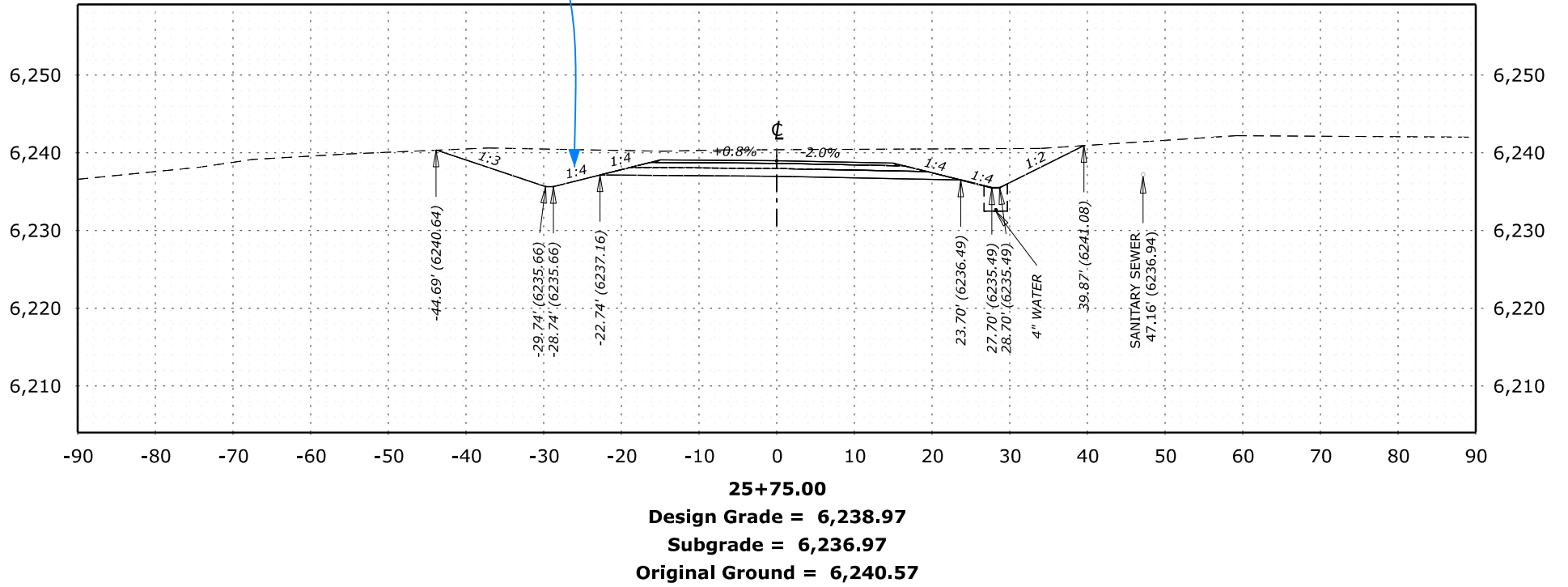
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**"MAIN 01" NORTHEAST ENTRANCE ROAD**

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PROJECT	SHEET NUMBER
WY NPS YELL 12(2)	XS.3

Annotation Groups  
Cross Section/Drawing/  
"XS Grid w/Annotation"

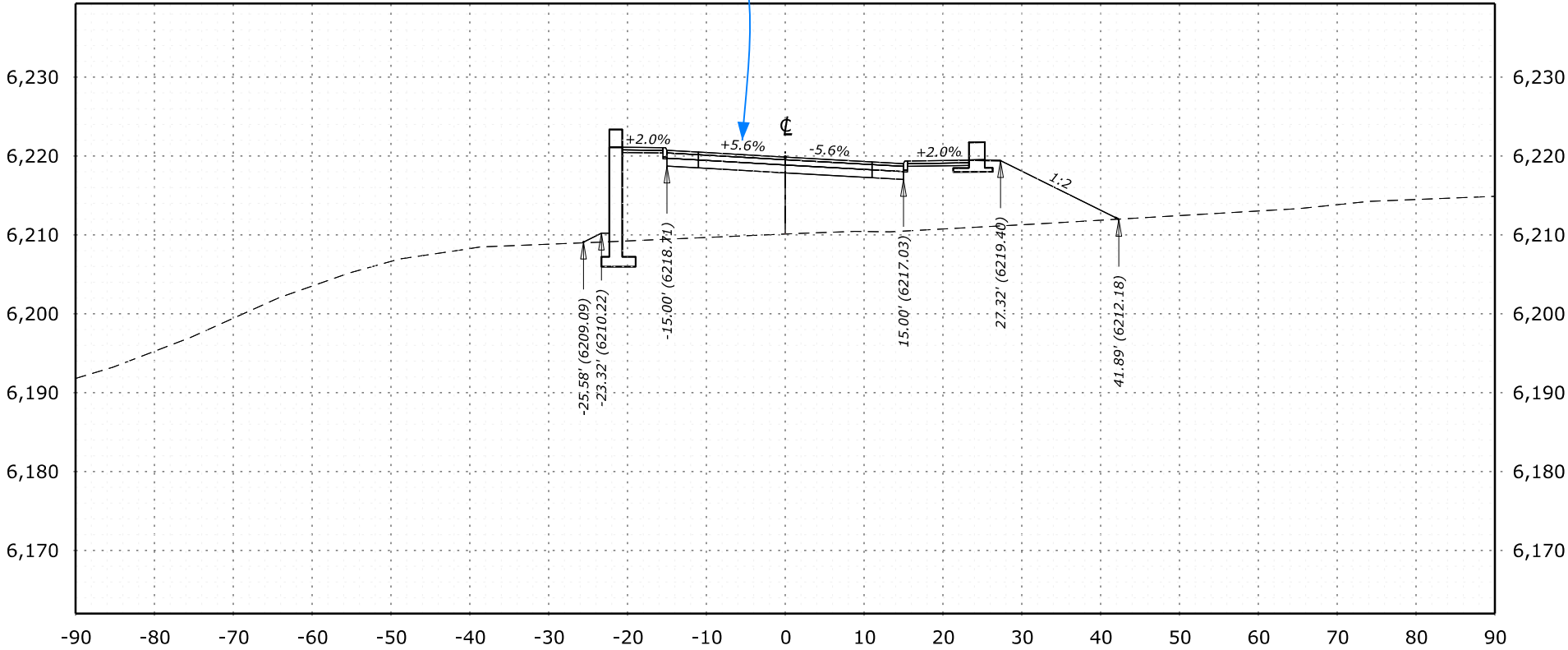


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**"MAIN 01" NORTHEAST ENTRANCE ROAD**

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Annotation Groups  
 Cross Section/Drawing/  
 "XS Grid w/Annotation"

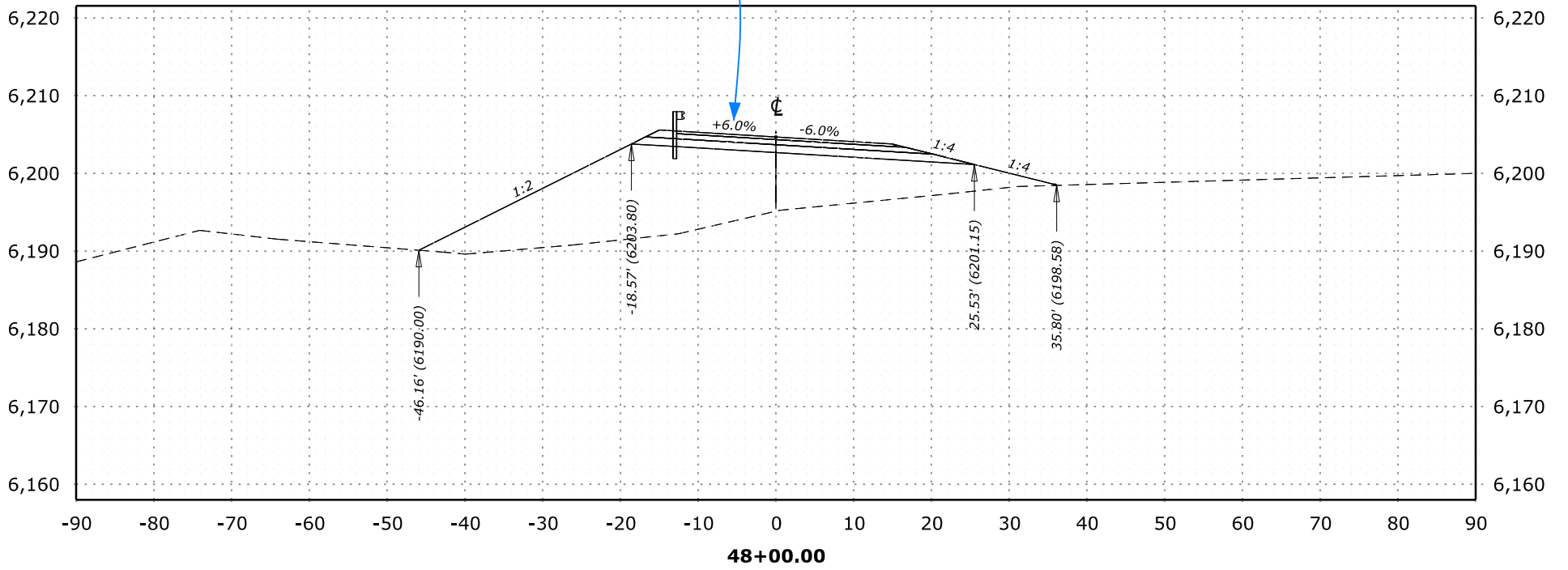


**31+00.00**  
**Design Grade = 6,219.87**  
**Subgrade = 6,217.87**  
**Original Ground = 6,210.20**

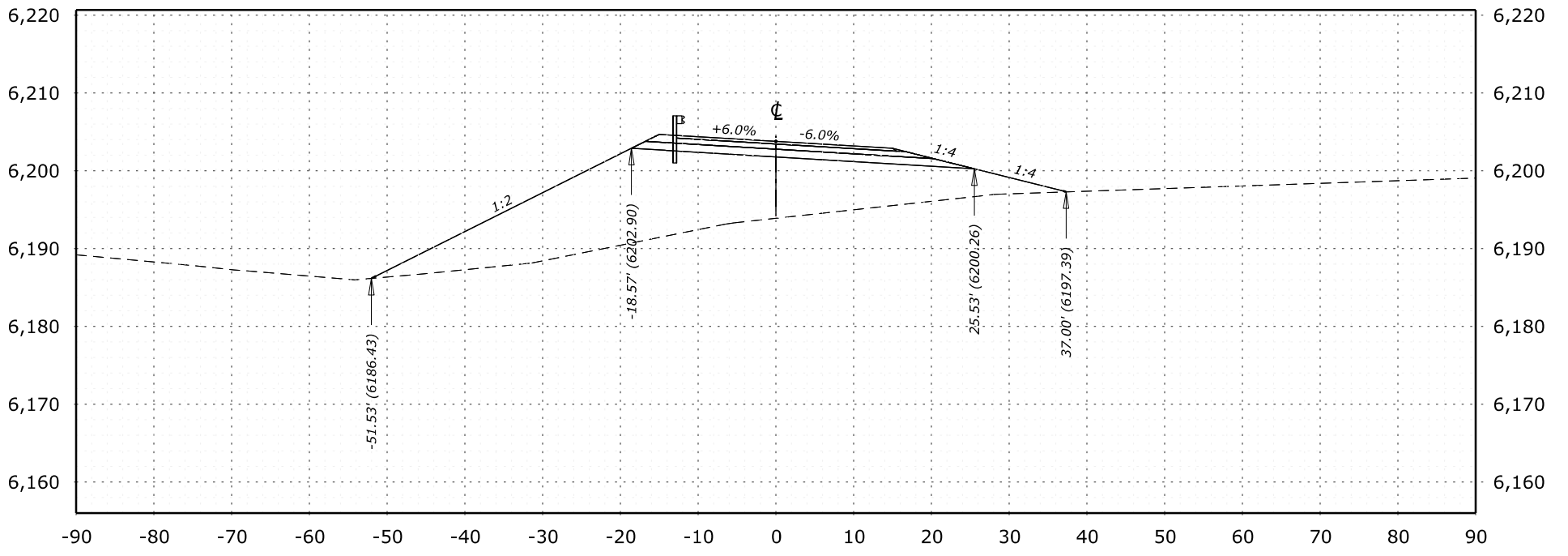
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**"MAIN 01" NORTHEAST ENTRANCE ROAD**

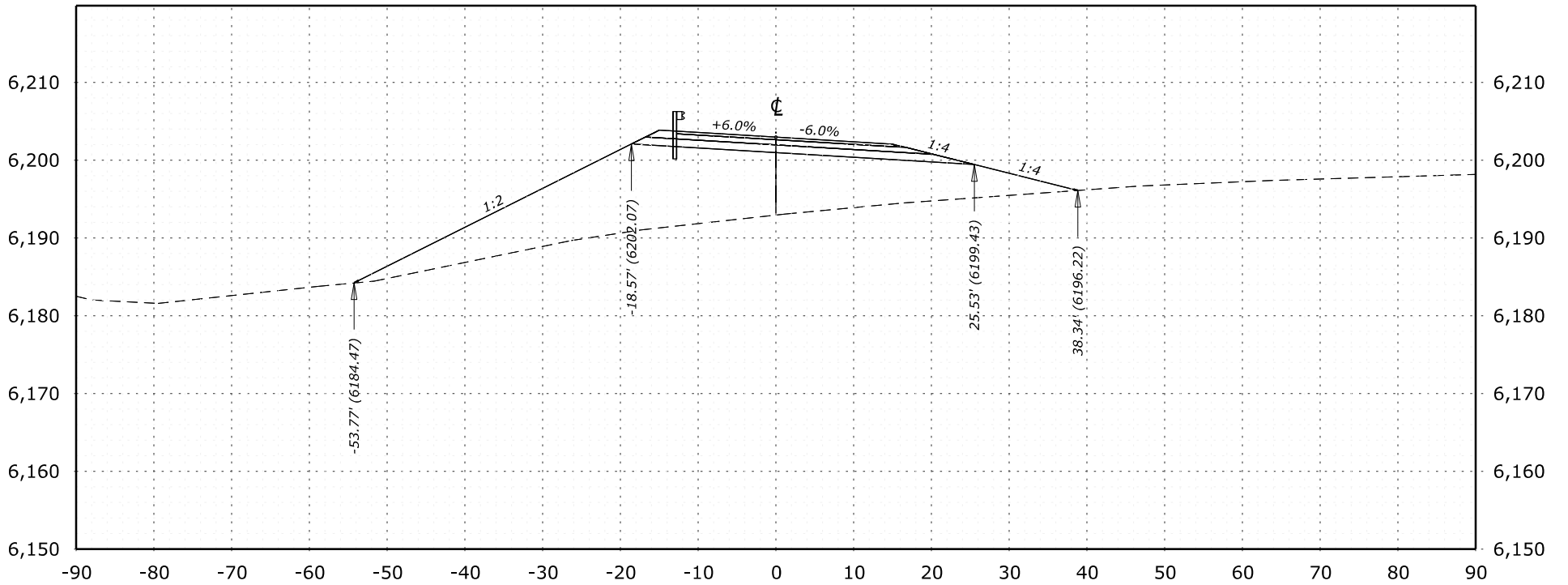
Annotation Groups  
 Cross Section/Drawing/  
 "XS Grid w/Annotation"



**48+00.00**  
**Design Grade = 6,204.68**  
**Subgrade = 6,202.68**  
**Original Ground = 6,195.44**



**47+75.00**  
**Design Grade = 6,203.79**  
**Subgrade = 6,201.79**  
**Original Ground = 6,194.16**

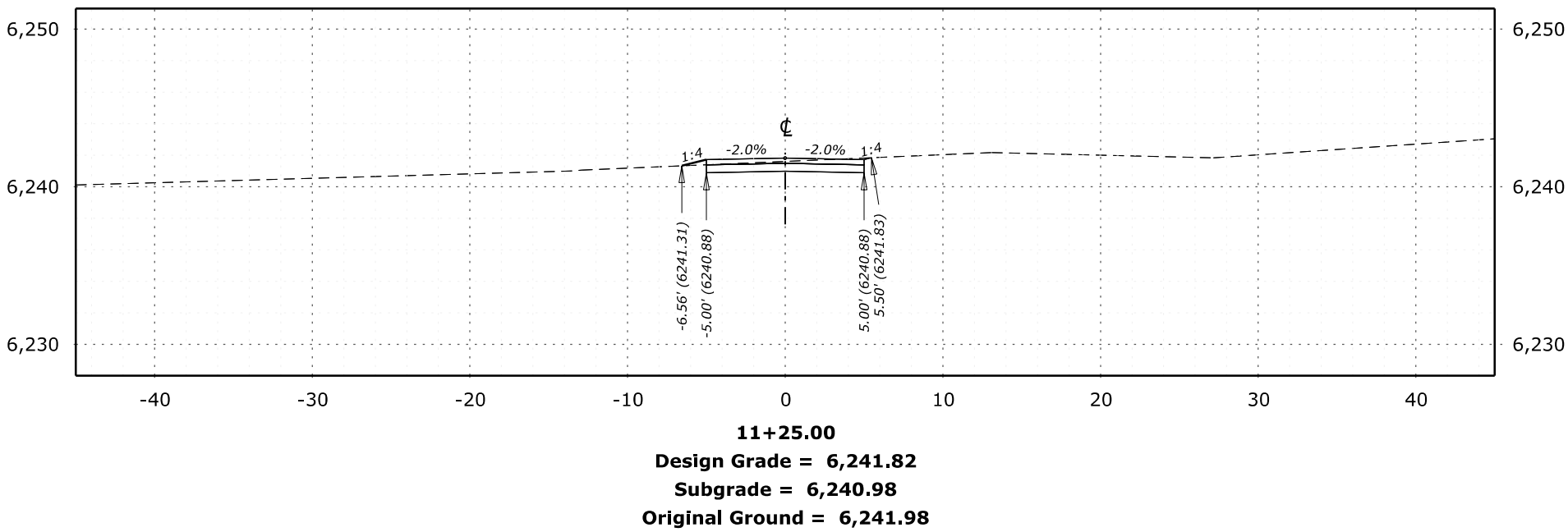
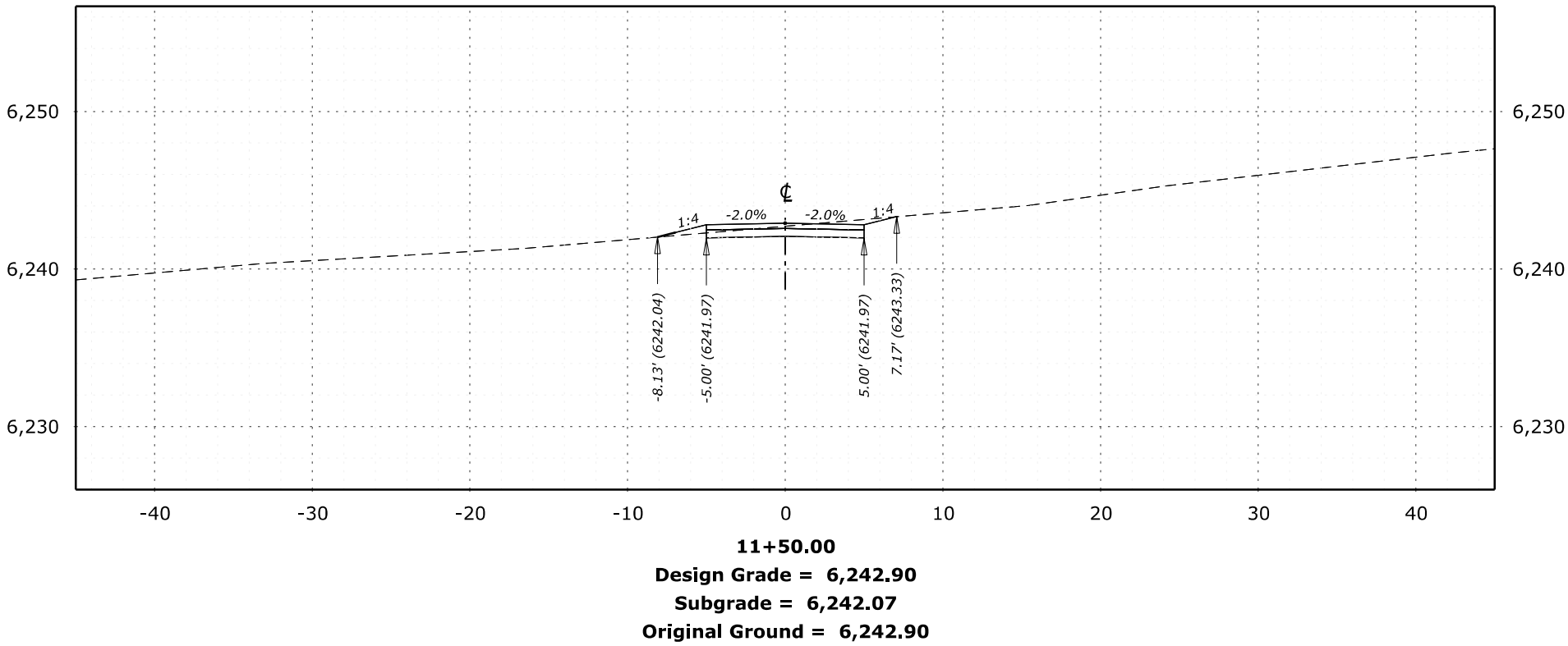
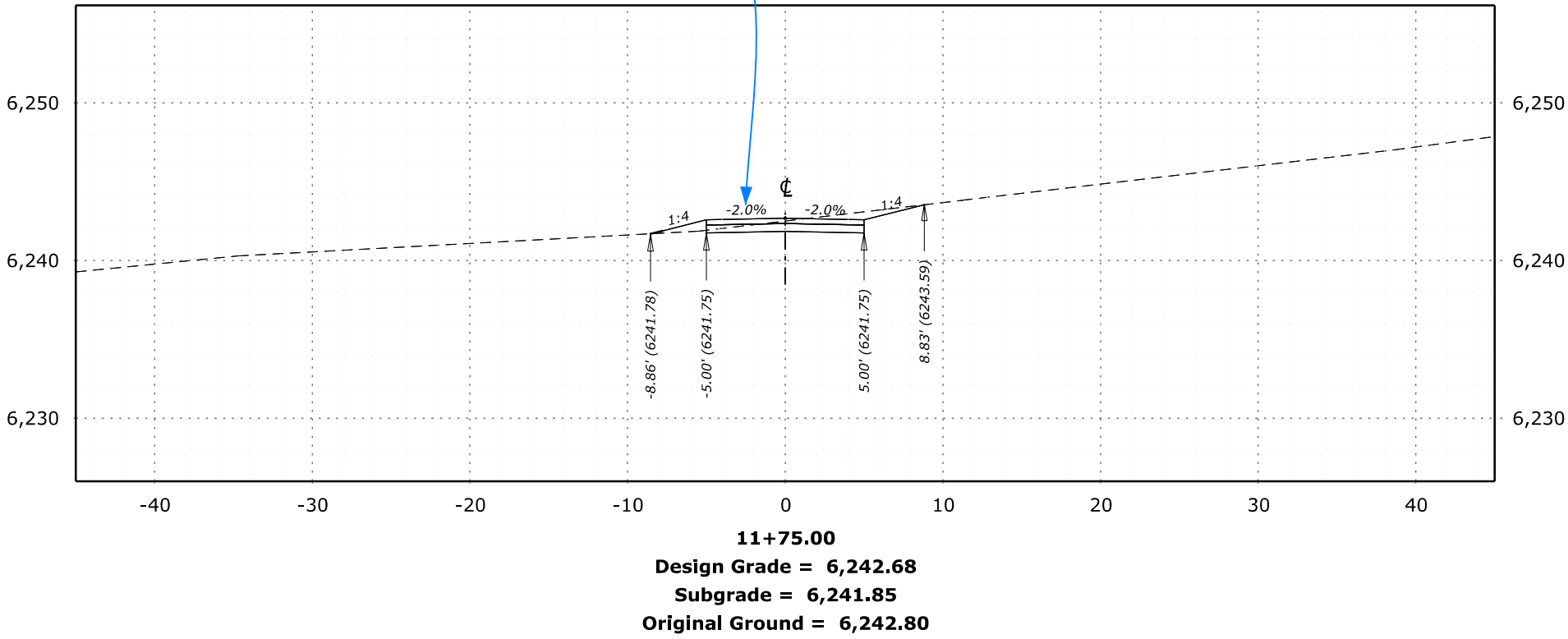


**47+50.00**  
**Design Grade = 6,202.96**  
**Subgrade = 6,200.96**  
**Original Ground = 6,193.16**

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**"MAIN 01" NORTHEAST ENTRANCE ROAD**

Annotation Groups  
Cross Section/Drawing/  
"XS Grid w/Annotation"



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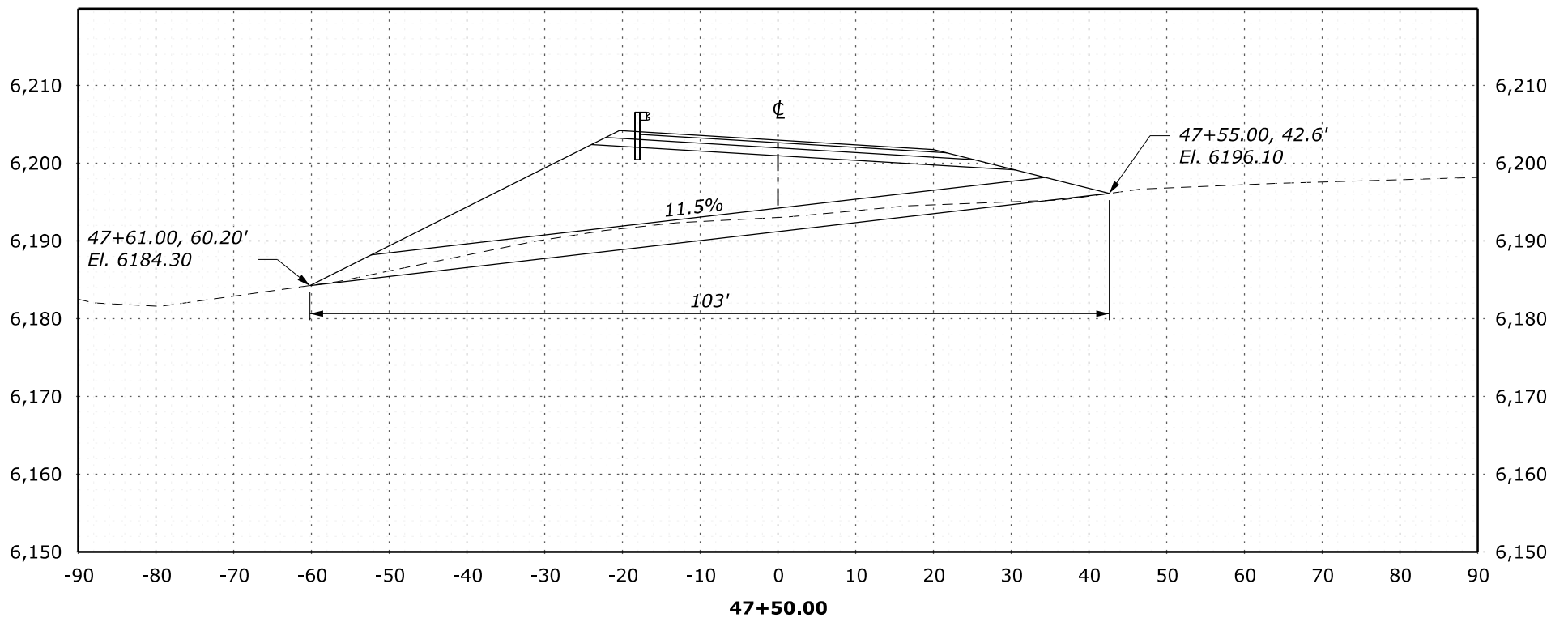
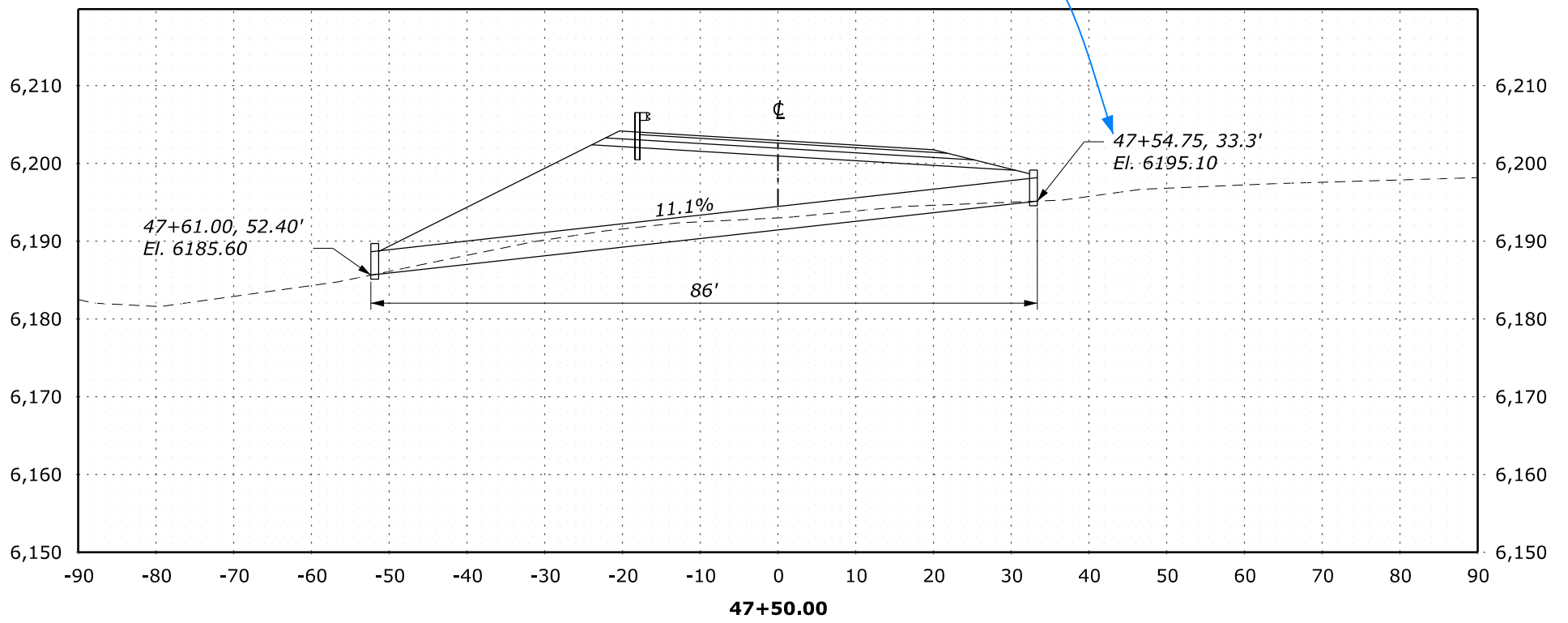
**EXAMPLE 2**

**"PATH 01"**

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PROJECT	SHEET NUMBER
WY NPS YELL 12(2)	XS.7

Note element; Template  
Annotation\General\Plan notes Feet



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EXAMPLE 2

CULVERTS

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