

# MASSACHUSETTS DEPARTMENT OF TRANSPORTATION HIGHWAY DIVISION

## MASSDOT PROJECT DEVELOPMENT & DESIGN GUIDE CHAPTER 18, VOL II: HIGHWAY CONSTRUCTION PLANS STYLE SAMPLES

JUNE 2026

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### General Notes

1. This sample plan set is provided for illustrative purposes only and is not intended to represent standard design practices or requirements for all MassDOT Highway Division projects. The design elements and project details shown herein may not reflect current or typical MassDOT design standards in all cases.
2. The primary purpose of VOL II: II: HIGHWAY CONSTRUCTION PLANS STYLE SAMPLES is to demonstrate standardized graphical presentation and to provide guidance on the formatting, organization, and drafting methods used in the preparation of MassDOT Highway Construction Plans. Users shall refer to the latest applicable MassDOT design manuals, standards, and project-specific requirements for actual design guidance.
3. The style sample plans demonstrate the applicable graphical and CAD standards required for MassDOT Highway Construction Plan submissions. Graphical standards (shown as red keynotes) refer to the drafted style of the plan and how the project information is conveyed. CAD standards (shown as blue keynotes) refer to the means and methods of drawing preparation using the MassDOT CAD Standards.
4. The samples and guidance provided within the sample plan set are intended to facilitate project drawing development, quality, and consistency. The sample plan set shall be used as a primary reference for the review of Highway Construction Plan submissions.
5. The information found within the graphical and CAD standards keynotes is intended to serve as a summary only. Users shall be directed to the most detailed information within the MassDOT PDDG or CAD Standards documentation.

### KEYNOTES LEGEND

- # GRAPHICAL STANDARDS KEYNOTE
- # CAD STANDARDS KEYNOTE

MADOT-D.STB PLOT STYLE TABLE

Plot Style	Color	Lineweight	Sample
Normal	(Object)	(Object)	_____
BORDER	Black	0.002	_____
BR 50%	Black	0.006	_____
BR 100%	Black	0.01	_____
BR 150%	Black	0.015	_____
BR 175%	Black	0.021	_____
BR 200%	Black	0.024	_____
BR XREF	Black	(Object)	_____
COLOR OBJECT	(Object)	(Object)	_____
ENVR EXIST	Grayscale	0.0138	_____
ENVR PROP	Black	0.015	_____
ENVR TEXT	Grayscale	0.0138	_____
GE-DETAILS	Black	(Object)	_____
Greyscale	Grayscale	(Object)	_____
OB TEXT 100%	Black	0.008	_____
OB TEXT 150%	Black	0.015	_____
ROW 100%	Black	0.008	_____
ROW 200%	Black	0.024	_____
ROW TEXT	Black	0.008	_____
SOLID 25%	Grayscale	0.015	_____
SOLID 50%	Grayscale	0.015	_____
SOLID 75%	Grayscale	0.015	_____
SOLID 90%	Black	(Object)	_____
SOLID 100%	Black	0.015	_____
SOLID 125%	Black	0.0197	_____
SOLID 200%	Black	0.024	_____
SOLID 300%	Black	0.0315	_____
SURVEY 80%	Grayscale	0.0138	_____
SURVEY 100%	Grayscale	0.0138	_____
SURVEY 125%	Grayscale	0.0138	_____
SURVEY 150%	Grayscale	0.0138	_____
UTILITY EXIST	Grayscale	0.01	_____
UTILITY PROP	Black	0.015	_____
WIPEOUT	(Object)	(Object)	_____

**NOTES**

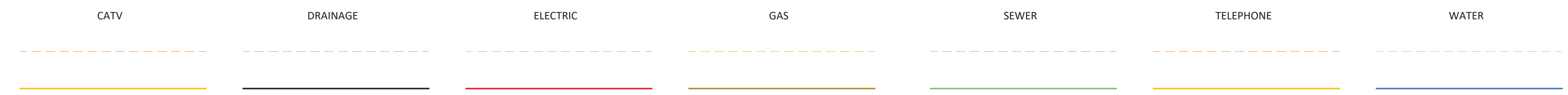
1. The MADOT-D.stb plot style table shall be used to plot all sheets within the Highway Construction Plans excluding Drainage and Utility Plans.
2. Use the MassDOT-Design-36x24-PDF page setup for plotting to PDF using this plot style with a standard MassDOT border.
3. Refer to sheet 1.6 for a list of drawings to be plotted with this page setup/plot style.

MADOT-U.STB PLOT STYLE TABLE

Plot Style	Color	Lineweight	Sample
Normal	(Object)	(Object)	
BORDER	Black	0.002	
BR 50%	Black	0.006	
BR 100%	Black	0.01	
BR 150%	Black	0.015	
BR 175%	Black	0.0209	
BR 200%	Black	0.024	
BR XREF	Black	(Object)	
COLOR OBJECT	(Object)	(Object)	
ENVR EXIST	Grayscale	0.024	
ENVR PROP	Black	0.024	
ENVR TEXT	Grayscale	0.0138	
GE-DETAILS	Black	(Object)	
Greyscale	Grayscale	(Object)	
OB TEXT 100%	Black	0.008	
OB TEXT 150%	Black	0.015	
ROW 100%	Purple	0.008	
ROW 200%	Purple	0.024	
ROW TEXT	Black	0.008	
SOLID 25%	Grayscale	0.015	
SOLID 50%	Grayscale	0.015	
SOLID 75%	Grayscale	0.015	
SOLID 90%	Grayscale	0.015	
SOLID 100%	Black	0.015	
SOLID 125%	Black	0.0197	
SOLID 200%	Black	0.024	
SOLID 300%	Black	0.0315	
SURVEY 80%	Grayscale	0.0051	
SURVEY 100%	Grayscale	0.0051	
SURVEY 125%	Grayscale	0.0138	
SURVEY 150%	Grayscale	0.0051	
UTILITY EXIST	(Object)	0.0051	
UTILITY PROP	(Object)	0.0197	
WIPEOUT	(Object)	(Object)	

**NOTES**

1. The MADOT-U.stb plot style table shall be used to plot all Drainage and Utility Plans within the Highway Construction Plans.
2. Use the MassDOT-Utility-36x24-PDF page setup for plotting to PDF using this plot style with a standard MassDOT border.
3. Refer to sheet 1.6 for a list of drawings to be plotted with this page setup/plot style.



HIGHWAY DESIGN SYMBOLS

SOURCE DWG PATH: ...MASSDOTMASSDOT\_CAD\_STATE\_KITIC3D 2026\BLOCKS\HWYDESIGN\_SYMBOLS.DWG

Detail Features

Table listing detail features with columns for Block Name, Description, Layer, Size, and Orientation. Includes items like Ornamental Planter, Fountain, Post, Concrete Post, Granite Post, Barrier, Mailbox, and Trash Can.

Geotechnical

Table listing geotechnical symbols with columns for Block Name, Description, Layer, Size, and Orientation. Includes Monitor Well, Bore Hole, and Test Pit.

Monumentation

Table listing monumentation symbols with columns for Block Name, Description, Layer, Size, and Orientation. Includes Stone Bound, GUY Wire, Mass Highway Bound, County Bound, and City Bound.

Traffic

Table listing traffic symbols with columns for Block Name, Description, Layer, Size, and Orientation. Includes Control Cabinet, Pull Box, Light Pole, Double Light, Pedestrian Signal, Pedestrian Signal Head, Railroad Signal, Signal, and Post Signs.

Drainage

Table listing drainage symbols with columns for Block Name, Description, Layer, Size, and Orientation. Includes Inlet Grate, Catch Basin, Curb Inlet, Double Catch Basin, Eccentric Catch Basin, Drop Inlet, Drain Manhole, and Drain Manhole Cover.

Gas

Table listing gas symbols with columns for Block Name, Description, Layer, Size, and Orientation. Includes Gas Gate Valve, Railroad Signal, Gas Manhole, and Gas Manhole Cover.

Electric

Table listing electric symbols with columns for Block Name, Description, Layer, Size, and Orientation. Includes GUY Pole, GUY Wire, Electric Manhole, Electric Manhole Cover, Trolley Pole, Utility Pole, and Utility Pole with Fire Box/Light.

Dynamic Annotation Blocks

Diagram showing dynamic annotation blocks for 'LAKESHORE AVENUE (ROUTE 112)'. Includes symbols for spanning area labels, section lane arrows, and street titles with detailed placement instructions.

SYMBOL NOTES:

- Each block symbol is labeled with the following display attributes: 1. Each symbol shown is named to match the corresponding block in the MassDOT CAD State Kit Block Tool Palettes. 2. The symbol's block name and layer is shown for each block. 3. Size units given in feet (ft) correspond to actual model dimensions sizes and will have differing sizes based on the scale of the drawing view. 4. Civil 3D Point Styles require source block definitions that are non-annotative. 5. Horizontal symbol orientation indicates the symbol is to stay in a horizontal orientation on all drawing views so text within a symbol or other identifying features of the symbol icon remain easily readable. 6. An angular value given indicates the symbol is to maintain that symbol orientation on all sheet views similarly to Horizontal but at the angle indicated. 7. Aligned indicates that the symbol is to be aligned to some element in the model, such as signs to the direction of a roadway or catch basins to a curb line.

Sewer

Table listing sewer symbols with columns for Block Name, Description, Layer, Size, and Orientation. Includes Sewer Manhole and Sewer Manhole Cover.

Telephone/Communication

Table listing telephone/communication symbols with columns for Block Name, Description, Layer, Size, and Orientation. Includes Cable Manhole, Cable Manhole Cover, Telephone Manhole, and Telephone Manhole Cover.

Water Systems

Table listing water system symbols with columns for Block Name, Description, Layer, Size, and Orientation. Includes Hydrant, Water Manhole, and Water Gate Valve.

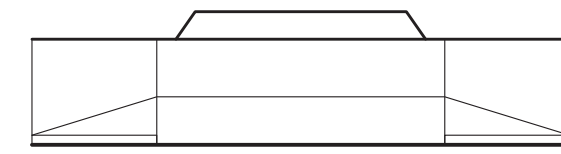
# CURB RAMP & DRIVEWAY LAYOUT BLOCKS

SOURCE DWG PATH:  
...MASSDOT\MASSDOT\_CAD\_STATE\_KIT\3D\BLOCKS\HWY\DESIGN\_PCR\_DRIVEWAY.DWG

PEDESTRIAN CURB RAMP & DRIVEWAY-SIDEWALK CROSSING LAYOUT BLOCKS.DWG Plotted on 4-Nov-2021 4:11 PM

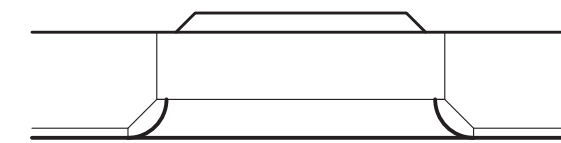
## Driveways

**Sidewalk Through Driveways Without Curb Returns: Const. Std. Det. # 701.1.1**

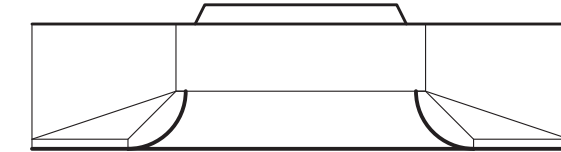


Block Name: HD-DWY-WLK  
Layer: PR-HD-WALK

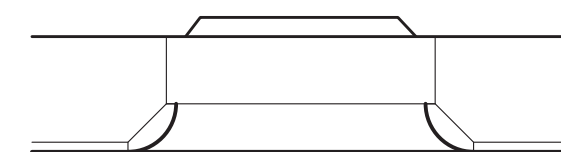
**Sidewalk Through Driveways With Curb Returns: Const. Std. Det. # 701.1.2**



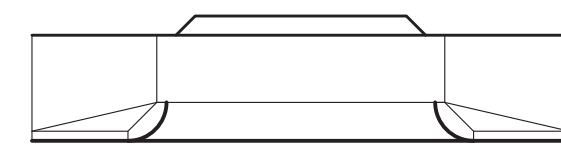
Block Name: HD-DWY-WLK-CR-TYPE-A  
Layer: PR-HD-WALK  
Add Flares? No Transition Flares



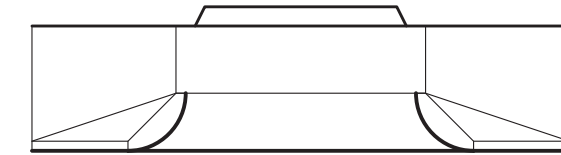
Block Name: HD-DWY-WLK-CR-TYPE-B  
Layer: PR-HD-WALK  
Add Flares? Add Transition Flares



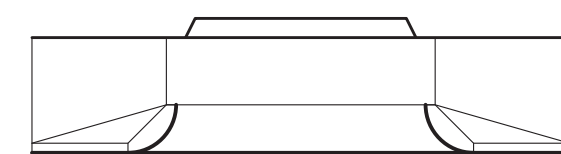
Block Name: HD-DWY-WLK-CR-TYPE-C  
Layer: PR-HD-WALK  
Add Flares? No Transition Flares



Block Name: HD-DWY-WLK-CR-TYPE-A  
Layer: PR-HD-WALK  
Add Flares? Add Transition Flares

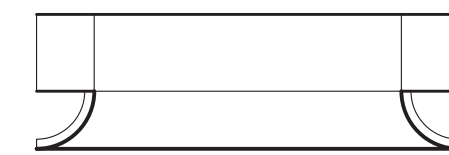


Block Name: HD-DWY-WLK-CR-TYPE-B  
Layer: PR-HD-WALK  
Add Flares? Add Transition Flares



Block Name: HD-DWY-WLK-CR-TYPE-C  
Layer: PR-HD-WALK  
Add Flares? Add Transition Flares

**Residential Driveways: Const. Std. Det. # 701.1.3**



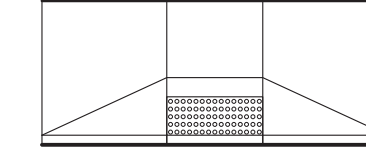
Block Name: HD-DWY-WLK-RES  
Layer: PR-HD-WALK

## NOTES

1. Pedestrian Curb Ramp (PCR) and Driveway-Sidewalk Crossing (DWY) layout blocks are dynamic blocks intended to facilitate drafting of PCR's (for straight segments of curb only) and DWY's.
2. Each layout block has dynamic block grips that adjust block to the geometry of the connecting sidewalk, walk, or path.
3. Each block can be named with a block attribute, annotated with a label, and the dimension parameters of each inserted block can be tracked for use in the PCR and DWY detail tables on the project PCR AND DWY DETAILS sheets.

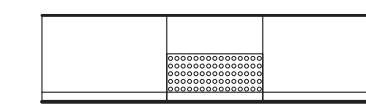
## Pedestrian Curb Ramps

**Pedestrian Curb Ramp Less Than 12'-4" Sidewalk (Perpendicular Ramp): Const. Std. Det. # 701.2.3**



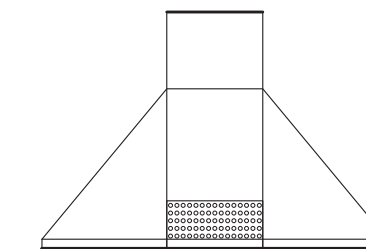
Block Name: HD-PCR-DWP  
Layer: PR-HD-WALK-DWP  
Block Name: HD-PCR  
Layer: PR-HD-WALK

**Pedestrian Curb Ramp in Constrained Condition with Detectable Warning Panel (Parallel Ramp): Const. Std. Det. # 701.2.2**



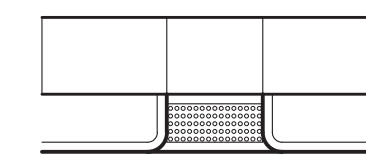
Block Name: HD-PCR-NARROW  
Layer: PR-HD-WALK

**Pedestrian Curb Ramps Greater Than 12'-4" Sidewalk (Perpendicular Ramp): Const. Std. Det. # 701.2.4**



Block Name: HD-PCR-WIDE  
Layer: PR-HD-WALK

**Pedestrian Curb Ramp with Width Less Than 12'-4": Const. Std. Det. # 701.2.7**



Block Name: HD-PCR-LSTRIP  
Layer: PR-HD-WALK

## NOTES:

1. Pedestrian Curb Ramp (PCR) and Driveway-Sidewalk Crossing (DWY) layout blocks are dynamic blocks intended to facilitate drafting of PCR's (for straight segments of curb only) and DWY's.
2. Each layout block has dynamic block grips that adjust block to the geometry of the connecting sidewalk, walk, or path.
3. Each block can be named with a block attribute, annotated with a label, and the dimension parameters of each inserted block can be tracked for use in the PCR and DWY detail tables on the project PCR AND DWY DETAILS sheets.



**DESIGN FLARED END SECTION SYMBOLS**

SOURCE DWG PATH:  
.../MASSDOT/MASSDOT\_CAD\_STATE\_KIT/C3D 2026/BLOCKS/HWYDESIGN\_FES.DWG

**2D RCP Flared End Sections**

**BLOCK NAME:** HD-FES-RCP  
**BLOCK DESCRIPTION:** RCP (DYNAMIC)  
Reinforced Concrete Pipe flared end section dynamic symbol block for all pipe sizes. Choose pipe size from dynamic block grip.

**SOURCE BLOCKS**  
The following blocks are within the above dynamic block.

**BLOCK NAME:** HD-FES-RCP-##-PIPE  
## = Pipe diameter in inches













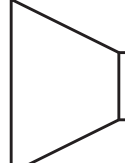
 SIZE: 12" RCP	 SIZE: 36" RCP
 SIZE: 15" RCP	 SIZE: 42" RCP
 SIZE: 18" RCP	 SIZE: 48" RCP
 SIZE: 21" RCP	 SIZE: 54" RCP
 SIZE: 24" RCP	 SIZE: 60" RCP
 SIZE: 30" RCP	 SIZE: 72" RCP

**2D CMP or CPP Flared End Sections**

**BLOCK NAME:** HD-FES-CMP-CPP  
**BLOCK DESCRIPTION:** CMP/ CPP (DYNAMIC)  
Corrugated Metal or Corrugated Plastic Pipe flared end section dynamic symbol block for all pipe sizes. Choose pipe size from dynamic block grip.

**SOURCE BLOCKS**  
The following blocks are within the above dynamic block.

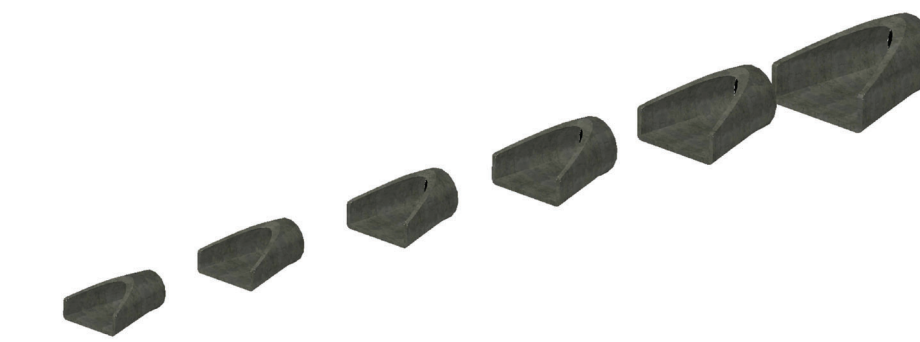
**BLOCK NAME:** HD-FES-##-PIPE  
## = Pipe diameter in inches

 SIZE: 12" CMP/ CPP	 SIZE: 36" CMP/ CPP
 SIZE: 15" CMP/ CPP	 SIZE: 42" CMP/ CPP
 SIZE: 18" CMP/ CPP	 SIZE: 48" CMP/ CPP
 SIZE: 21" CMP/ CPP	 SIZE: 54" CMP/ CPP
 SIZE: 24" CMP/ CPP	 SIZE: 60" CMP/ CPP
 SIZE: 30" CMP/ CPP	 SIZE: 72" CMP/ CPP
	 SIZE: 84" CMP/ CPP










**3D Flared End Sections: 24"-84"**

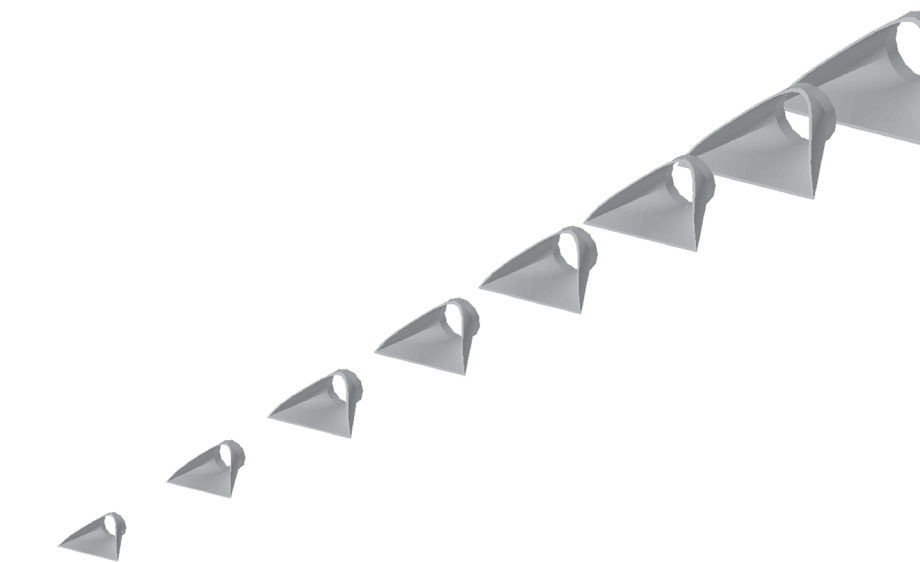
**BLOCK NAME:** HD-FES-RCP-##-PIPE-3D  
## = Pipe diameter in inches

**RCP**         



**BLOCK NAME:** HD-FES-##-PIPE-3D  
## = Pipe diameter in inches

**CMP or CPP**         



**PIPE FLARED END SECTION SYMBOLS NOTES**

1. All pipe flared end section symbol blocks are sized to exact model dimensions as found in MassDOT Construction Standard Details E 206.8.0 and 206.9.0.
2. When using the MassDOT CAD State Kit Block Tool Palettes the pipe flared end section block symbols will be inserted on layer PR-UT-DRAIN-STRC and the user will be prompted to set the rotation to match the pipe orientation.

**DESIGN HEADWALL SYMBOLS**


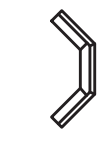

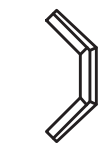

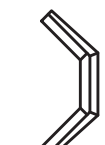

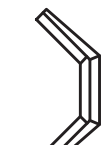

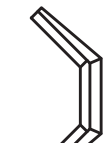

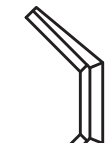


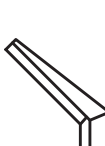
SOURCE DWG PATH:  
...MASSDOT\MASSDOT\_CAD\_STATE\_KIT\C3D 2026\BLOCKS\HWYDESIGN\_HW.DWG

**2:1 Backslope Headwalls**

**BLOCK NAME:** HD-HW  
**PIPE DIAMETER:** DYNAMIC  
Headwall dynamic symbol block for all pipes daylighting to slopes 1.5:1 or greater. Choose pipe size and headwall type from dynamic block grip.

**SOURCE BLOCKS**  
The following blocks are within the above dynamic block.

**BLOCK NAME:** HD-HW-##-PIPE  
## = Pipe diameter in inches


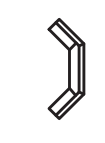

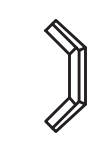

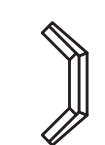

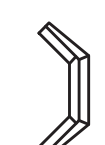

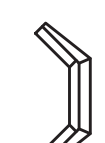

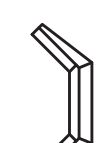

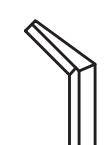
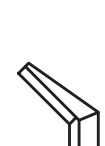
	PIPE DIAMETER: 8"		PIPE DIAMETER: 30"
	PIPE DIAMETER: 10"		PIPE DIAMETER: 36"
	PIPE DIAMETER: 12"		PIPE DIAMETER: 42"
	DIAMETER: 15"		PIPE DIAMETER: 48"
	DIAMETER: 18"		PIPE DIAMETER: 54"
	PIPE DIAMETER: 21"		PIPE DIAMETER: 60"
	PIPE DIAMETER: 24"		PIPE DIAMETER: 72"
			PIPE DIAMETER: 84"

**1.5:1 Backslope Headwalls**

**BLOCK NAME:** HD-HW-STEEP  
**PIPE DIAMETER:** DYNAMIC  
Headwall dynamic symbol block for all pipes daylighting to slopes 1.5:1 or greater. Choose pipe size and headwall type from dynamic block grip.

**SOURCE BLOCKS**  
The following blocks are within the above dynamic block.

**BLOCK NAME:** HD-HW-STEEP-##-PIPE  
## = Pipe diameter in inches






















	PIPE DIAMETER: 8"		PIPE DIAMETER: 30"
	PIPE DIAMETER: 10"		PIPE DIAMETER: 36"
	PIPE DIAMETER: 12"		PIPE DIAMETER: 42"
	DIAMETER: 15"		PIPE DIAMETER: 48"
	DIAMETER: 18"		PIPE DIAMETER: 54"
	PIPE DIAMETER: 21"		PIPE DIAMETER: 60"
	PIPE DIAMETER: 24"		PIPE DIAMETER: 72"
			PIPE DIAMETER: 84"

**Combination Headwalls**

**PARENT DYNAMIC BLOCK**  
**BLOCK NAME:** HD-HW-COMB  
**PIPE SIZE:** DYNAMIC  
Headwall dynamic symbol block for all pipe size combinations. Choose pipe size combination design from dynamic block grip.

**SOURCE BLOCKS**  
The following blocks are within the above dynamic block.

**BLOCK NAME:** HD-HW-COMB-DES##  
## = Design Number

	DESIGN 1 PIPE SIZE: 12"x12"		DESIGN 11 PIPE SIZE: 15"x30"
	DESIGN 2 PIPE SIZE: 12"x15"		DESIGN 12 PIPE SIZE: 18"x18"
	DESIGN 3 PIPE SIZE: 12"x18"		DESIGN 13 PIPE SIZE: 18"x21"
	DESIGN 4 PIPE SIZE: 12"x21"		DESIGN 14 PIPE SIZE: 18"x24"
	DESIGN 5 PIPE SIZE: 12"x24"		DESIGN 15 PIPE SIZE: 18"x30"
	DESIGN 6 PIPE SIZE: 12"x30"		DESIGN 16 PIPE SIZE: 21"x21"
	DESIGN 7 PIPE SIZE: 15"x15"		DESIGN 17 PIPE SIZE: 21"x24"
	DESIGN 8 PIPE SIZE: 15"x18"		DESIGN 18 PIPE SIZE: 21"x30"
	DESIGN 9 PIPE SIZE: 15"x21"		DESIGN 19 PIPE SIZE: 24"x24"
	DESIGN 10 PIPE SIZE: 15"x24"		DESIGN 20 PIPE SIZE: 24"x30"
			DESIGN 21 PIPE SIZE: 30"x30"

**HEADWALL SYMBOLS NOTES**


- All headwall symbol blocks are sized to exact model dimensions as found in MassDOT Construction Standard Details E 206.5.0 AND 206.6.0.
- When using the MassDOT CAD State Kit Block Tool Palettes the headwall block symbols will be inserted on layer PR-UT-DRAIN-STRC and the user will be prompted to set the rotation to match the pipe orientation.


**LANDSCAPE SYMBOLS**


SOURCE DWG PATH:  
 ....\MASSDOT\MASSDOT\_CAD\_STATE\_KIT\C3D 2026\BLOCKS\LANDSCAPE\_SYMBOLS.DWG


PEDESTRIAN CURB RAMP & DRIVEWAY-SIDEWALK CROSSING LAYOUT BLOCKS.DWG Plotted on 4-Nov-2024 4:11 PM


**Trees**


- 


BLOCK NAME: LD-TREE01  
 DESCRIPTION: TREE 1: DECIDUOUS 1  
 LAYER: PR-LD-TREE  
 SIZE: 8 FT, 10 FT, 15 FT, 20 FT, 30 FT, 40 FT  
 ORIENTATION: HORIZONTAL
- 


BLOCK NAME: LD-TREE02  
 DESCRIPTION: TREE 2: DECIDUOUS 2  
 LAYER: PR-LD-TREE  
 SIZE: 8 FT, 10 FT, 15 FT, 20 FT, 30 FT, 40 FT  
 ORIENTATION: HORIZONTAL
- 


BLOCK NAME: LD-TREE03  
 DESCRIPTION: TREE 3: DECIDUOUS 3  
 LAYER: PR-LD-TREE  
 SIZE: 8 FT, 10 FT, 15 FT, 20 FT, 30 FT, 40 FT  
 ORIENTATION: HORIZONTAL
- 

BLOCK NAME: LD-TREE04  
 DESCRIPTION: TREE 4: DECIDUOUS 4  
 LAYER: PR-LD-TREE  
 SIZE: 8 FT, 10 FT, 15 FT, 20 FT, 30 FT, 40 FT  
 ORIENTATION: HORIZONTAL
- 

BLOCK NAME: LD-TREE05  
 DESCRIPTION: TREE 5: DECIDUOUS 5  
 LAYER: PR-LD-TREE  
 SIZE: 8 FT, 10 FT, 15 FT, 20 FT, 30 FT, 40 FT  
 ORIENTATION: HORIZONTAL
- 


BLOCK NAME: LD-TREE06  
 DESCRIPTION: TREE 6: DECIDUOUS 6  
 LAYER: PR-LD-TREE  
 SIZE: 8 FT, 10 FT, 15 FT, 20 FT, 30 FT, 40 FT  
 ORIENTATION: HORIZONTAL
- 


BLOCK NAME: PR-LD-TREE  
 DESCRIPTION: TREE 7: EVERGREEN 1  
 LAYER: PR-LD-TREE  
 SIZE: 8 FT, 10 FT, 15 FT, 20 FT, 30 FT, 40 FT  
 ORIENTATION: HORIZONTAL
- 


BLOCK NAME: LD-TREE08  
 DESCRIPTION: TREE 8: EVERGREEN 2  
 LAYER: PR-LD-TREE  
 SIZE: 8 FT, 10 FT, 15 FT, 20 FT, 30 FT, 40 FT  
 ORIENTATION: HORIZONTAL
- 


BLOCK NAME: LD-TREE09  
 DESCRIPTION: TREE 9: EVERGREEN 3  
 LAYER: PR-LD-TREE  
 SIZE: 8 FT, 10 FT, 15 FT, 20 FT, 30 FT, 40 FT  
 ORIENTATION: HORIZONTAL


**Shrubs**


- 


BLOCK NAME: LD-SHRB01  
 DESCRIPTION: SHRUB 1: DECIDUOUS 1  
 LAYER: PR-LD-SHRUB  
 SIZE: 2 FT, 3 FT, 4 FT, 5 FT, 6 FT, 8 FT  
 ORIENTATION: HORIZONTAL
- 


BLOCK NAME: LD-SHRB02  
 DESCRIPTION: SHRUB 2: DECIDUOUS 2  
 LAYER: PR-LD-SHRUB  
 SIZE: 2 FT, 3 FT, 4 FT, 5 FT, 6 FT, 8 FT  
 ORIENTATION: HORIZONTAL
- 


BLOCK NAME: LD-SHRB03  
 DESCRIPTION: SHRUB 3: DECIDUOUS 3  
 LAYER: PR-LD-SHRUB  
 SIZE: 2 FT, 3 FT, 4 FT, 5 FT, 6 FT, 8 FT  
 ORIENTATION: HORIZONTAL
- 

BLOCK NAME: LD-SHRB04  
 DESCRIPTION: SHRUB 4: DECIDUOUS 4  
 LAYER: PR-LD-SHRUB  
 SIZE: 2 FT, 3 FT, 4 FT, 5 FT, 6 FT, 8 FT  
 ORIENTATION: HORIZONTAL
- 

BLOCK NAME: LD-SHRB05  
 DESCRIPTION: SHRUB 5: DECIDUOUS 5  
 LAYER: PR-LD-SHRUB  
 SIZE: 2 FT, 3 FT, 4 FT, 5 FT, 6 FT, 8 FT  
 ORIENTATION: HORIZONTAL
- 


BLOCK NAME: LD-SHRB06  
 DESCRIPTION: SHRUB 6: DECIDUOUS 6  
 LAYER: PR-LD-SHRUB  
 SIZE: 2 FT, 3 FT, 4 FT, 5 FT, 6 FT, 8 FT  
 ORIENTATION: HORIZONTAL
- 


BLOCK NAME: LD-SHRB07  
 DESCRIPTION: SHRUB 7: EVERGREEN 1  
 LAYER: PR-LD-SHRUB  
 SIZE: 2 FT, 3 FT, 4 FT, 5 FT, 6 FT, 8 FT  
 ORIENTATION: HORIZONTAL
- 


BLOCK NAME: LD-SHRB08  
 DESCRIPTION: SHRUB 8: EVERGREEN 2  
 LAYER: PR-LD-SHRUB  
 SIZE: 2 FT, 3 FT, 4 FT, 5 FT, 6 FT, 8 FT  
 ORIENTATION: HORIZONTAL
- 


BLOCK NAME: LD-SHRB09  
 DESCRIPTION: SHRUB 9: EVERGREEN 3  
 LAYER: PR-LD-SHRUB  
 SIZE: 2 FT, 3 FT, 4 FT, 5 FT, 6 FT, 8 FT  
 ORIENTATION: HORIZONTAL


**Perennials**


- 

BLOCK NAME: LD-PERNO1  
 DESCRIPTION: PERENNIAL 1  
 LAYER: PR-LD-PERNNL  
 SIZE: 2 FT, 3 FT, 4 FT, 6 FT  
 ORIENTATION: HORIZONTAL
- 

BLOCK NAME: LD-PERNO2  
 DESCRIPTION: PERENNIAL 2  
 LAYER: PR-LD-PERNNL  
 SIZE: 2 FT, 3 FT, 4 FT, 6 FT  
 ORIENTATION: HORIZONTAL
- 


BLOCK NAME: LD-PERNO3  
 DESCRIPTION: PERENNIAL 3  
 LAYER: PR-LD-PERNNL  
 SIZE: 2 FT, 3 FT, 4 FT, 6 FT  
 ORIENTATION: HORIZONTAL
- 


BLOCK NAME: LD-PERNO4  
 DESCRIPTION: PERENNIAL 4  
 LAYER: PR-LD-PERNNL  
 SIZE: 2 FT, 3 FT, 4 FT, 6 FT  
 ORIENTATION: HORIZONTAL
- 


BLOCK NAME: LD-PERNO5  
 DESCRIPTION: PERENNIAL 5  
 LAYER: PR-LD-PERNNL  
 SIZE: 2 FT, 3 FT, 4 FT, 6 FT  
 ORIENTATION: HORIZONTAL
- 


BLOCK NAME: LD-PERNO6  
 DESCRIPTION: PERENNIAL 6  
 LAYER: PR-LD-PERNNL  
 SIZE: 2 FT, 3 FT, 4 FT, 6 FT  
 ORIENTATION: HORIZONTAL


**Ornamental Grasses**


- 

BLOCK NAME: LD-PERNO1  
 DESCRIPTION: ORNAMENTAL GRASS 1  
 LAYER: PR-LD-ORNGRASS  
 SIZE: 2 FT, 3 FT, 4 FT, 6 FT  
 ORIENTATION: HORIZONTAL
- 

BLOCK NAME: LD-PERNO2  
 DESCRIPTION: ORNAMENTAL GRASS 2  
 LAYER: PR-LD-ORNGRASS  
 SIZE: 2 FT, 3 FT, 4 FT, 6 FT  
 ORIENTATION: HORIZONTAL
- 

BLOCK NAME: LD-PERNO3  
 DESCRIPTION: ORNAMENTAL GRASS 3  
 LAYER: PR-LD-ORNGRASS  
 SIZE: 2 FT, 3 FT, 4 FT, 6 FT  
 ORIENTATION: HORIZONTAL
- 

BLOCK NAME: LD-PERNO4  
 DESCRIPTION: ORNAMENTAL GRASS 4  
 LAYER: PR-LD-ORNGRASS  
 SIZE: 2 FT, 3 FT, 4 FT, 6 FT  
 ORIENTATION: HORIZONTAL
- 

BLOCK NAME: LD-PERNO5  
 DESCRIPTION: ORNAMENTAL GRASS 5  
 LAYER: PR-LD-ORNGRASS  
 SIZE: 2 FT, 3 FT, 4 FT, 6 FT  
 ORIENTATION: HORIZONTAL
- 

BLOCK NAME: LD-PERNO6  
 DESCRIPTION: ORNAMENTAL GRASS 6  
 LAYER: PR-LD-ORNGRASS  
 SIZE: 2 FT, 3 FT, 4 FT, 6 FT  
 ORIENTATION: HORIZONTAL

**SYMBOL NOTES:**

Each block symbol is labeled with the following attributes:

1. Symbols are dynamic, when inserting these symbols into a project drawing use a scale 1. Then use the symbol drop down grip to assign diameter.
2. Each symbol shown is named to match the corresponding block in the MassDOT CAD State Kit Block Tool Palettes.
3. The symbol's block name and layer is shown for each block. When using the MassDOT CAD State Kit Block Tool Palette the block will be inserted on the specified layer.
4. Size units given in feet (ft) correspond to actual model dimensions sizes and will have differing sizes based on the scale of the drawing view.
5. Horizontal symbol orientation indicates the symbol is to stay in a horizontal orientation on all drawing views so text within a symbol or other identifying features of the symbol icon remain easily readable.
6. Trees are shown at their 8 ft dia size, shrubs, perennials, and ornamental grasses are shown at their 6 ft dia size for clarity.

**SURVEY SYMBOLS**

SOURCE DWG PATH:  
...\\MASSDOT\MASSDOT\_CAD\_STATE\_KIT\C3D 2026\BLOCKS\SURVEY\_SYMBOLS.DWG

**Monumentation**

- BLOCK NAME: SV-DH  
DESCRIPTION: DRILL HOLE  
LAYER: EX-SV-MONU  
SIZE: 0.1 IN  
ORIENTATION: HORIZONTAL
- BLOCK NAME: SV-EPLP  
DESCRIPTION: ESCUTCHEON PIN LEAD PLUG  
LAYER: EX-SV-MONU  
SIZE: 0.1 IN  
ORIENTATION: HORIZONTAL
- BLOCK NAME: SV-IP  
DESCRIPTION: IRON PIPE  
LAYER: EX-SV-MONU  
SIZE: 0.1 IN  
ORIENTATION: HORIZONTAL
- BLOCK NAME: SV-MHB  
DESCRIPTION: MASSACHUSETTS HIGHWAY BOUND  
LAYER: EX-SV-MONU  
SIZE: 0.1 IN  
ORIENTATION: ALIGNED
- BLOCK NAME: SV-MON  
DESCRIPTION: MONUMENT  
LAYER: EX-SV-MONU  
SIZE: 0.1 IN  
ORIENTATION: ALIGNED
- BLOCK NAME: SV-SBD  
DESCRIPTION: TOWN LINE ROAD STONE  
LAYER: EX-SV-MONU  
SIZE: 0.1 IN  
ORIENTATION: ALIGNED
- BLOCK NAME: SV-TBD  
DESCRIPTION: TOWN BOUND  
LAYER: EX-SV-MONU  
SIZE: 2'  
ORIENTATION: HORIZONTAL
- ◆ BLOCK NAME: SV-BM  
DESCRIPTION: BENCHMARK  
LAYER: EX-SV-BMRK  
SIZE: 0.1 IN  
ORIENTATION: HORIZONTAL

**Survey Control**

- ◆ BLOCK NAME: SV-BM  
DESCRIPTION: BENCHMARK  
LAYER: EX-SV-BMRK  
SIZE: 0.1 IN  
ORIENTATION: HORIZONTAL

**Natural Features**

- BLOCK NAME: SV-BUSH  
DESCRIPTION: BUSH  
LAYER: EX-SV-VEGE  
SIZE: 2 FT  
ORIENTATION: HORIZONTAL
- BLOCK NAME: SV-FL  
DESCRIPTION: STREAM-RIVER FLOWLINE  
LAYER: EX-SV-WETL  
SIZE: 0.1 IN  
ORIENTATION: ALIGNED
- BLOCK NAME: SV-STU  
DESCRIPTION: STUMP  
LAYER: EX-SV-VEGE  
SIZE: 2 FT  
ORIENTATION: HORIZONTAL
- ▲ BLOCK NAME: SV-SWP  
DESCRIPTION: BENCHMARK  
LAYER: EX-SV-WETL  
SIZE: 0.1 IN  
ORIENTATION: HORIZONTAL
- BLOCK NAME: SV-TREE  
DESCRIPTION: TREE (10" AND LARGER)  
LAYER: EX-SV-VEGE  
SIZE: 2 FT  
ORIENTATION: HORIZONTAL
- BLOCK NAME: SV-VGWF  
DESCRIPTION: WETLAND FLAG  
LAYER: EX-SV-WETL  
SIZE: 2 FT  
ORIENTATION: HORIZONTAL

**Detail Features**

- BLOCK NAME: SV-FPL  
DESCRIPTION: FLAG POLE  
LAYER: EX-SV-DETL  
SIZE: 0.1 IN  
ORIENTATION: HORIZONTAL
- BLOCK NAME: SV-GATE  
DESCRIPTION: FENCE - GATEPOST  
LAYER: EX-SV-FNCE-OTHR  
SIZE: 0.1 IN  
ORIENTATION: HORIZONTAL
- BLOCK NAME: SV-GFP  
DESCRIPTION: GAS PUMP  
LAYER: EX-SV-DETL  
SIZE: 2 FT  
ORIENTATION: ALIGNED
- ▭ BLOCK NAME: SV-MBX  
DESCRIPTION: MAILBOX  
LAYER: EX-SV-DETL  
SIZE: 2 FT  
ORIENTATION: ALIGNED
- BLOCK NAME: SV-OC  
DESCRIPTION: OIL CAP  
LAYER: EX-SV-DETL  
SIZE: 0.1 IN  
ORIENTATION: HORIZONTAL
- BLOCK NAME: SV-PILCIR  
DESCRIPTION: CIRCULAR PILE  
LAYER: EX-SV-DETL  
SIZE: 2 FT  
ORIENTATION: HORIZONTAL
- BLOCK NAME: SV-PILSQR  
DESCRIPTION: SQUARE PILE  
LAYER: EX-SV-DETL  
SIZE: 2 FT  
ORIENTATION: ALIGNED
- BLOCK NAME: SV-POSTCIR  
DESCRIPTION: CIRCULAR POST  
LAYER: EX-SV-DETL  
SIZE: 2 FT  
ORIENTATION: HORIZONTAL
- BLOCK NAME: SV-POSTSQR  
DESCRIPTION: SQUARE POST  
LAYER: EX-SV-DETL  
SIZE: 2 FT  
ORIENTATION: ALIGNED

**Traffic**

- BLOCK NAME: SV-MTR  
DESCRIPTION: PARKING METER  
LAYER: EX-SV-TR-FEAT  
SIZE: 2 FT  
ORIENTATION: HORIZONTAL
- ⊠ BLOCK NAME: SV-RRSG  
DESCRIPTION: RAILROAD SIGNAL  
LAYER: EX-SV-RRTR  
SIZE: 0.1 IN  
ORIENTATION: ALIGNED
- ⊠ BLOCK NAME: SV-TFCC  
DESCRIPTION: TRAFFIC SIGNAL CONTROLLER CABINET  
LAYER: EX-SV-TR-FEAT  
SIZE: 2 FT  
ORIENTATION: ALIGNED
- ♿ BLOCK NAME: SV-TFHS  
DESCRIPTION: HCP SYMBOL  
LAYER: EX-SV-PM-SOLID  
SIZE: 2 FT  
ORIENTATION: ALIGNED
- ⊕ BLOCK NAME: SV-TFS  
DESCRIPTION: TRAFFIC SIGNAL - POST MOUNTED  
LAYER: EX-SV-TR-FEAT  
SIZE: 0.1 IN  
ORIENTATION: HORIZONTAL
- ⊕ BLOCK NAME: SV-TFS1  
DESCRIPTION: SIGN  
LAYER: EX-SV-TR-FEAT  
SIZE: 2 FT  
ORIENTATION: ALIGNED
- ⊕ BLOCK NAME: SV-TFS2  
DESCRIPTION: SMALL SIGN - DOUBLE POST  
LAYER: EX-SV-TR-FEAT  
SIZE: 2 FT  
ORIENTATION: ALIGNED
- ⊕ BLOCK NAME: SV-TPD  
DESCRIPTION: TRAFFIC SIGNAL PEDESTRIAN  
LAYER: EX-SV-TR-FEAT  
SIZE: 0.1 IN  
ORIENTATION: ALIGNED

**Geotechnical**

- ◆ BLOCK NAME: SV-BHL  
DESCRIPTION: BORING HOLE  
LAYER: EX-GT-FEAT  
SIZE: 0.1 IN  
ORIENTATION: HORIZONTAL
- ⊕ BLOCK NAME: SV-MWL  
DESCRIPTION: MONITORING WELL  
LAYER: EX-GT-FEAT  
SIZE: 0.1 IN  
ORIENTATION: HORIZONTAL
- BLOCK NAME: SV-TEP  
DESCRIPTION: TEST PIT  
LAYER: EX-GT-FEAT  
SIZE: 0.1 IN  
ORIENTATION: HORIZONTAL

**Line Label Symbols**

- ℓ BLOCK NAME: SV-PL  
DESCRIPTION: PROPERTY LINE  
LAYER: EX-SV-LN-PROP  
SIZE: 0.1 IN  
ORIENTATION: ALIGNED
- Z BLOCK NAME: SV-Z  
DESCRIPTION: Z-LINE  
LAYER: EX-SV-LN-PROP-COMMON  
SIZE: 0.1 IN  
ORIENTATION: ALIGNED

**Drainage**

- BLOCK NAME: SV-CB  
DESCRIPTION: CATCH BASIN  
LAYER: EX-UT-DRAIN-STRC  
SIZE: 2 FT  
ORIENTATION: ALIGNED
- BLOCK NAME: SV-CB-BCE  
DESCRIPTION: CATCH BASIN - BACK CENTER EDGE  
LAYER: EX-UT-DRAIN-STRC  
SIZE: 2 FT  
ORIENTATION: ALIGNED
- BLOCK NAME: SV-CBDB  
DESCRIPTION: CB, DOUBLE  
LAYER: EX-UT-DRAIN-STRC  
SIZE: 2 FT  
ORIENTATION: ALIGNED
- BLOCK NAME: SV-CBDF  
DESCRIPTION: CATCH BASIN - D FRAME  
LAYER: EX-UT-DRAIN-STRC  
SIZE: 2 FT  
ORIENTATION: ALIGNED
- BLOCK NAME: SV-CBR  
DESCRIPTION: CATCH BASIN - ROUND  
LAYER: EX-UT-DRAIN-STRC  
SIZE: 2 FT  
ORIENTATION: ALIGNED
- BLOCK NAME: SV-CBCI  
DESCRIPTION: CB CURB INLET, GUTTER INLET  
LAYER: EX-UT-DRAIN-STRC  
SIZE: 2 FT  
ORIENTATION: ALIGNED
- BLOCK NAME: SV-DI-SQ  
DESCRIPTION: DROP INLET, SQUARE  
LAYER: EX-UT-DRAIN-STRC  
SIZE: 2 FT  
ORIENTATION: ALIGNED
- ▷ BLOCK NAME: SV-FES  
DESCRIPTION: FLARED END SECTIONS  
LAYER: EX-UT-DRAIN-STRC  
SIZE: 2 FT  
ORIENTATION: ALIGNED  
Dynamic block with FES width, pipe diameter, and length grips
- ⊕ BLOCK NAME: SV-MHD  
DESCRIPTION: DRAIN MANHOLE  
LAYER: EX-UT-DRAIN-STRC  
SIZE: 2 FT  
ORIENTATION: HORIZONTAL

**Miscellaneous Utility**

- ⊕ BLOCK NAME: SV-MHC  
DESCRIPTION: CATV MANHOLE  
LAYER: EX-UT-CATV-STRC  
SIZE: 2 FT  
ORIENTATION: HORIZONTAL
- ⊕ BLOCK NAME: SV-MHO  
DESCRIPTION: MANHOLE - MISC  
LAYER: EX-UT-OTHR-STRC  
SIZE: 2 FT  
ORIENTATION: HORIZONTAL
- ⊕ BLOCK NAME: SV-MHS  
DESCRIPTION: SEWER MANHOLE  
LAYER: EX-UT-SEWER-STRC  
SIZE: 2 FT  
ORIENTATION: HORIZONTAL
- ⊕ BLOCK NAME: SV-MHST  
DESCRIPTION: STEAM MANHOLE  
LAYER: EX-UT-STEAM-STRC  
SIZE: 2 FT  
ORIENTATION: HORIZONTAL
- } BLOCK NAME: SV-PIPE\_END  
DESCRIPTION: PIPE TO UNKNOWN END OR CONT.  
LAYER: VARIES  
SIZE: VARIES ACCORDING TO UTIL LINE SIZE  
ORIENTATION: ALIGNED  
Set the utility line end symbol to either Unknown End or Continuation
- BLOCK NAME: SV-VP  
DESCRIPTION: VENT PIPE  
LAYER: EX-UT-OTHR-STRC  
SIZE: 2 FT  
ORIENTATION: HORIZONTAL

**Electric**

- ⊕ BLOCK NAME: SV-EMT  
DESCRIPTION: ELECTRIC METER  
LAYER: EX-UT-ELEC-STRC  
SIZE: 0.1 IN  
ORIENTATION: ALIGNED
- ← BLOCK NAME: SV-GWA  
DESCRIPTION: GUY WIRE ANCHOR  
LAYER: EX-UT-ELEC-STRC  
SIZE: 0.1 IN  
ORIENTATION: ALIGNED
- ⊕ BLOCK NAME: SV-LPDL  
DESCRIPTION: LIGHT POLE DOUBLE LIGHT  
LAYER: EX-UT-ELEC-STRC  
SIZE: 0.1 IN  
ORIENTATION: ALIGNED
- ☀ BLOCK NAME: SV-LPL  
DESCRIPTION: LIGHT POLE SINGLE LIGHT  
LAYER: EX-UT-ELEC-STRC  
SIZE: 0.1 IN  
ORIENTATION: ALIGNED
- ⊕ BLOCK NAME: SV-MHE  
DESCRIPTION: ELECTRIC MANHOLE  
LAYER: EX-UT-ELEC-STRC  
SIZE: 2 FT  
ORIENTATION: ALIGNED
- BLOCK NAME: SV-PBX  
DESCRIPTION: ELECTRIC HAND HOLE  
LAYER: EX-UT-ELEC-STRC  
SIZE: 2 FT  
ORIENTATION: ALIGNED
- BLOCK NAME: SV-TPL  
DESCRIPTION: TROLLEY POLE  
LAYER: EX-UT-ELEC-STRC  
SIZE: 0.1 IN  
ORIENTATION: ALIGNED
- BLOCK NAME: SV-TRNP  
DESCRIPTION: CROSS COUNTRY TRANSMISSION POLE  
LAYER: EX-UT-ELEC-STRC  
SIZE: 0.1 IN  
ORIENTATION: ALIGNED

**Gas**

- BLOCK NAME: SV-GGT  
DESCRIPTION: GAS GATE  
LAYER: EX-UT-GAS-STRC  
SIZE: 0.1 IN  
ORIENTATION: HORIZONTAL
- ⊕ BLOCK NAME: SV-MHG  
DESCRIPTION: GAS MANHOLE  
LAYER: EX-UT-GAS-STRC  
SIZE: 2 FT  
ORIENTATION: HORIZONTAL

**SYMBOL NOTES:**

Each block symbol is labeled with the following attributes:


1. Each symbol shown is named to match the corresponding block in the MassDOT CAD State Kit Block Tool Palettes.
2. The symbol's block name and layer is shown for each block. When using the MassDOT CAD State Kit Block Tool Palette the block will be inserted on the specified layer.
3. Size units given in feet (ft) correspond to actual model dimensions sizes and will have differing sizes based on the scale of the drawing view. Block size unit given in inches (in) corresponds to Annotative Scaling-enabled symbols that maintains a static size on plan sheets regardless of drawing scale.
4. Civil 3D Point Styles require source block definitions that are non-annotative. Any annotative symbol that is used in a point style has a matching non-annotative block definition suffixed "-NA" embedded in the Civil 3D templates. These -NA block definitions are not provided in the Massdot block symbol DWG's.
5. Horizontal symbol orientation indicates the symbol is to stay in a horizontal orientation on all drawing views so text within a symbol or other identifying features of the symbol icon remain easily readable.
6. An angular value given indicates the symbol is to maintain that symbol orientation on all sheet views similarly to Horizontal but at the angle indicated.
7. Aligned indicates that the symbol is to be aligned to some element in the model, such as signs to the direction of a roadway or catch basins to a curb line. When using the MassDOT CAD State Kit Block Tool Palette the block will be inserted and then the user will be prompted for the rotation angle.
8. These sheets are solely intended to depict plotted symbols, and any associated text required with these (e.g., sewer elevations) should be as represented in Volume III.

**CROSS SECTION DETAIL SYMBOLS**

SOURCE DWG PATH:  
...MASSDOT\MASSDOT\_CAD\_STATE\_KIT\C3D\2026\BLOCKS\HWYDESIGN\_XS.DWG


Plotted on 4-Nov-2024 4:11 PM  
CROSS SECTION DETAIL SYMBOLS.DWG

**Section Detail Point Symbols**




SYMBOL NAME: Existing Tree  
SYMBOL DESCRIPTION: Tree symbol in section view.

BLOCK NAME: HD-XS-TREE  
LAYER: PR-HD-XSECT-EX  
BLOCK TYPE: Symbol  
DYNAMIC: No  
SPACE: Model  
ANNOTATIVE: Yes  
ROTATION REF: View  
COMMENTS: Can be inserted as a block in a section view or tree point objects can be projected into cross section views using a projection style.




SYMBOL NAME: Existing Well - Cesspool  
SYMBOL DESCRIPTION: Well or septic system components symbol in section view.

BLOCK NAME: HD-XS-WELL-CESS  
LAYER: PR-HD-XSECT-EX  
BLOCK TYPE: Symbol  
DYNAMIC: No  
SPACE: Model  
ANNOTATIVE: Yes  
ROTATION REF: View  
COMMENTS: Can be inserted as a block in a section view or well/septic point objects can be projected into cross section views using a projection style.



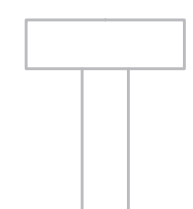
SYMBOL NAME: Existing Pole  
SYMBOL DESCRIPTION: Pole symbol in section view.

BLOCK NAME: HD-XS-POLE  
LAYER: PR-HD-XSECT-EX  
BLOCK TYPE: Symbol  
DYNAMIC: No  
SPACE: Model  
ANNOTATIVE: Yes  
ROTATION REF: View  
COMMENTS: Can be inserted as a block in a section view or utility pole point objects can be projected into cross section views using a projection style.



SYMBOL NAME: Existing Hydrant  
SYMBOL DESCRIPTION: Hydrant symbol in section view.

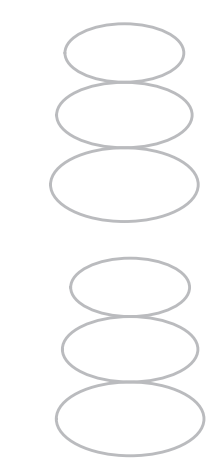
BLOCK NAME: HD-XS-HYD  
LAYER: PR-HD-XSECT-EX  
BLOCK TYPE: Symbol  
DYNAMIC: No  
SPACE: Model  
ANNOTATIVE: Yes  
ROTATION REF: View  
COMMENTS: Can be inserted as a block in a section view or hydrant point objects can be projected into cross section views using a projection style.



SYMBOL NAME: Existing Mailbox  
SYMBOL DESCRIPTION: Mailbox symbol in section view.


BLOCK NAME: HD-XS-MAILBOX  
LAYER: PR-HD-XSECT-EX  
BLOCK TYPE: Symbol  
DYNAMIC: No  
SPACE: Model  
ANNOTATIVE: Yes  
ROTATION REF: View  
COMMENTS: Can be inserted as a block in a section view or mailbox objects can be projected into cross section views using a projection style.

**Section Detail Crossing Line Symbols**



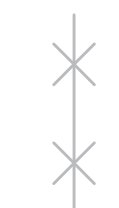
SYMBOL NAME: Existing Balanced Wall  
SYMBOL DESCRIPTION: Balanced wall symbol in section view.

BLOCK NAME: HD-XS-BAL-WALL-TOP (Top), HD-XS-BAL-WALL-BOT (Bot.)  
LAYER: PR-HD-XSECT-EX  
BLOCK TYPE: Symbol  
DYNAMIC: No  
SPACE: Model  
ANNOTATIVE: Yes  
ROTATION REF: View  
COMMENTS: Can be inserted as a block in a section view or balanced wall can be projected into cross section views using a projection style. Two symbols provided, one for inserting along the top of wall elevation reference point and one for the bottom of wall elevation reference point.



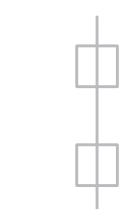
SYMBOL NAME: Existing Retaining Wall  
SYMBOL DESCRIPTION: Retaining wall symbol in section view.

BLOCK NAME: HD-XS-RET-WALL-R (Top), HD-XS-RET-WALL-L (Bot.)  
LAYER: PR-HD-XSECT-EX  
BLOCK TYPE: Symbol  
DYNAMIC: No  
SPACE: Model  
ANNOTATIVE: Yes  
ROTATION REF: View  
COMMENTS: Can be inserted as a block in a section view or retaining wall can be projected into cross section views using a projection style.



SYMBOL NAME: Existing Post & Rail Fence  
SYMBOL DESCRIPTION: Post & rail fence symbol in section view.

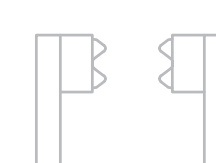
BLOCK NAME: HD-XS-FENCE  
LAYER: PR-HD-XSECT-EX  
BLOCK TYPE: Symbol  
DYNAMIC: No  
SPACE: Model  
ANNOTATIVE: Yes  
ROTATION REF: View  
COMMENTS: Can be inserted as a block in a section view or post & rail fence can be projected into cross section views using a projection style.



SYMBOL NAME: Existing Wood & Rail Fence  
SYMBOL DESCRIPTION: Wood & rail fence symbol in section view.

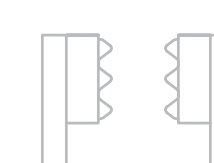
BLOCK NAME: HD-XS-FENCE-WRL  
LAYER: PR-HD-XSECT-EX  
BLOCK TYPE: Symbol  
DYNAMIC: No  
SPACE: Model  
ANNOTATIVE: Yes  
ROTATION REF: View  
COMMENTS: Can be inserted as a block in a section view or post & rail fence can be projected into cross section views using a projection style.

**Steel Post Highway Guard**



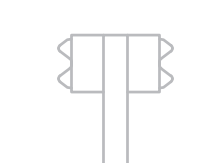
SYMBOL NAME: Existing Single-Face Guardrail, W-Beam, Steel Post, Left/Right  
SYMBOL DESCRIPTION: Single-Face Guardrail, W-Beam panel, steel post, insertion side based on roadway side.

BLOCK NAME: HD-XS-GR-WB-SP-SF-L/HD-XS-GR-WB-SP-SF-R  
LAYER: EX-SV-GRDL-STBM  
BLOCK TYPE: Symbol  
DYNAMIC: No  
SPACE: Model  
ANNOTATIVE: Yes  
ROTATION REF: View  
COMMENTS: Can be inserted as a block in a section view or guardrail can be projected into cross section views using a projection style.



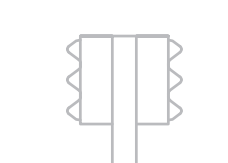
SYMBOL NAME: Existing Single-Face Guardrail, Thrie-Beam, Steel Post, Left/Right  
SYMBOL DESCRIPTION: Single-Face Guardrail, Thrie-Beam panel, steel post, insertion side based on roadway side.

BLOCK NAME: HD-XS-GR-TB-SP-SF-L/HD-XS-GR-TB-SP-SF-R  
LAYER: EX-SV-GRDL-STBM  
BLOCK TYPE: Symbol  
DYNAMIC: No  
SPACE: Model  
ANNOTATIVE: Yes  
ROTATION REF: View  
COMMENTS: Can be inserted as a block in a section view or guardrail can be projected into cross section views using a projection style.



SYMBOL NAME: Existing Double-Face Guardrail, W-Beam, Steel Post  
SYMBOL DESCRIPTION: Double-Face Guardrail, W-Beam panel, steel post.

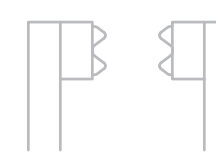
BLOCK NAME: HD-XS-GR-WB-SP-DF  
LAYER: EX-SV-GRDL-STBM  
BLOCK TYPE: Symbol  
DYNAMIC: No  
SPACE: Model  
ANNOTATIVE: Yes  
ROTATION REF: View  
COMMENTS: Can be inserted as a block in a section view or guardrail can be projected into cross section views using a projection style.



SYMBOL NAME: Existing Double-Face Guardrail, Thrie-Beam, Steel Post  
SYMBOL DESCRIPTION: Double-Face Guardrail, Thrie-Beam panel, steel post.

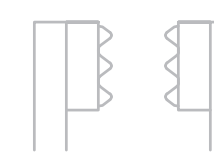
BLOCK NAME: HD-XS-GR-TB-SP-DF  
LAYER: EX-SV-GRDL-STBM  
BLOCK TYPE: Symbol  
DYNAMIC: No  
SPACE: Model  
ANNOTATIVE: Yes  
ROTATION REF: View  
COMMENTS: Can be inserted as a block in a section view or guardrail can be projected into cross section views using a projection style.

**Wood Post Highway Guard**




SYMBOL NAME: Existing Single-Face Guardrail, W-Beam, Wood Post, Left/Right  
SYMBOL DESCRIPTION: Single-Face Guardrail, W-Beam panel, wood Post, insertion side based on roadway side.

BLOCK NAME: HD-XS-GR-WB-SP-SF-L/HD-XS-GR-WB-SP-SF-R  
LAYER: EX-SV-GRDL-WOOD  
BLOCK TYPE: Symbol  
DYNAMIC: No  
SPACE: Model  
ANNOTATIVE: Yes  
ROTATION REF: View  
COMMENTS: Can be inserted as a block in a section view or guardrail can be projected into cross section views using a projection style.




SYMBOL NAME: Existing Single-Face Guardrail, Thrie-Beam, Wood Post, Left/Right  
SYMBOL DESCRIPTION: Single-Face Guardrail, Thrie-Beam panel, wood Post, insertion side based on roadway side.

BLOCK NAME: HD-XS-GR-TB-WP-SF-L/HD-XS-GR-TB-WP-SF-R  
LAYER: EX-SV-GRDL-WOOD  
BLOCK TYPE: Symbol  
DYNAMIC: No  
SPACE: Model  
ANNOTATIVE: Yes  
ROTATION REF: View  
COMMENTS: Can be inserted as a block in a section view or guardrail can be projected into cross section views using a projection style.



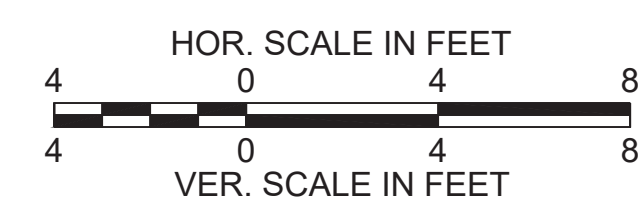
SYMBOL NAME: Existing Double-Face Guardrail, W-Beam, Wood Post  
SYMBOL DESCRIPTION: Double-Face Guardrail, W-Beam panel, wood post.

BLOCK NAME: HD-XS-GR-WB-WP-DF  
LAYER: EX-SV-GRDL-WOOD  
BLOCK TYPE: Symbol  
DYNAMIC: No  
SPACE: Model  
ANNOTATIVE: Yes  
ROTATION REF: View  
COMMENTS: Can be inserted as a block in a section view or guardrail can be projected into cross section views using a projection style.



SYMBOL NAME: Existing Double-Face Guardrail, Thrie-Beam, Wood Post  
SYMBOL DESCRIPTION: Double-Face Guardrail, Thrie-Beam panel, wood post.

BLOCK NAME: HD-XS-GR-TB-WP-DF  
LAYER: EX-SV-GRDL-WOOD  
BLOCK TYPE: Symbol  
DYNAMIC: No  
SPACE: Model  
ANNOTATIVE: Yes  
ROTATION REF: View  
COMMENTS: Can be inserted as a block in a section view or guardrail can be projected into cross section views using a projection style.



HIGHWAY CONSTRUCTION PLAN SUPPORTING CIVIL 3D STYLES

2:20 HIGHWAY CONSTRUCTION PLAN SUPPORTING CIVIL 3D STYLES.DWG Plotted on: 2-Dec-2025 10:36 AM

**POINT STYLES**

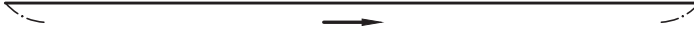
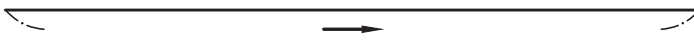

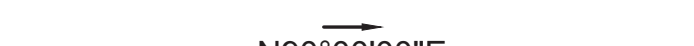
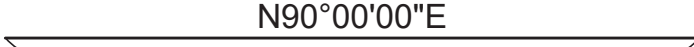
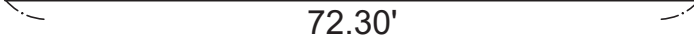

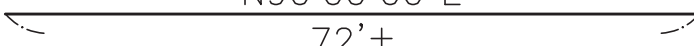
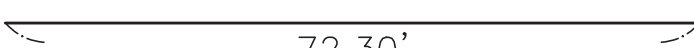


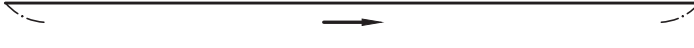


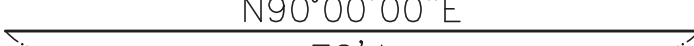


**STANDARD SIZE POINT STYLES**

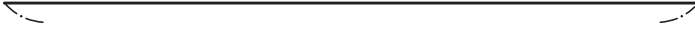


<p>249 X 12.34 RAW DESCRIPTION</p>	<p>POINT STYLE: <u>MassDOT Standard</u> LABEL STYLE: <u>MassDOT_PR_STANDARD</u></p>
<p>X RAW DESCRIPTION</p>	<p>POINT STYLE: <u>MassDOT Standard</u> LABEL STYLE: <u>MassDOT_PR_DESC</u></p>
<p>X 12.34</p>	<p>POINT STYLE: <u>MassDOT Standard</u> LABEL STYLE: <u>MassDOT_PR_ELEV</u></p>
<p>X 12.34 RAW DESCRIPTION</p>	<p>POINT STYLE: <u>MassDOT Standard</u> LABEL STYLE: <u>MassDOT_PR_ELEV_DESC</u></p>
<p>X 265</p>	<p>POINT STYLE: <u>MassDOT Standard</u> LABEL STYLE: <u>MassDOT_PR_PT#</u></p>
<p>X 269 RAW DESCRIPTION</p>	<p>POINT STYLE: <u>MassDOT Standard</u> LABEL STYLE: <u>MassDOT_PR_PT#_DESC</u></p>
<p>273 X 12.34</p>	<p>POINT STYLE: <u>MassDOT Standard</u> LABEL STYLE: <u>MassDOT_PR_PT#_ELEV</u></p>

**REDUCED SIZE POINT STYLES**

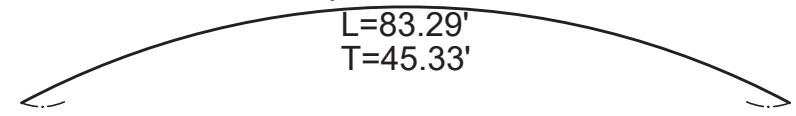
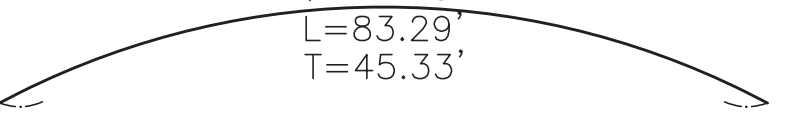
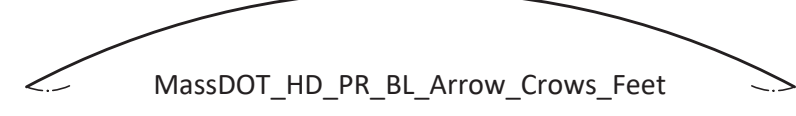

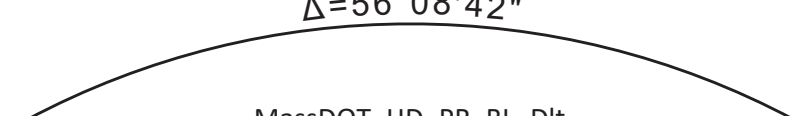
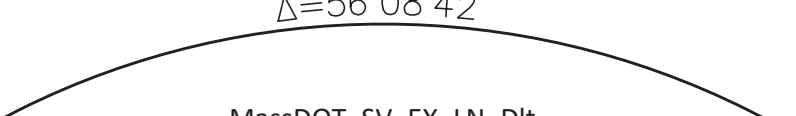
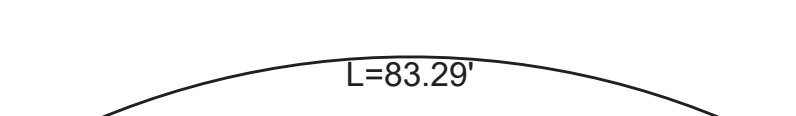
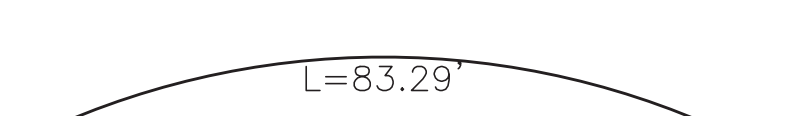
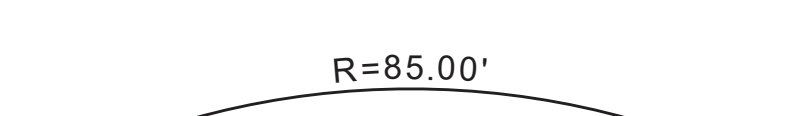
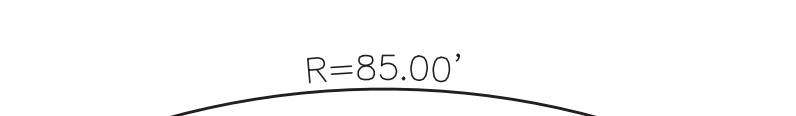
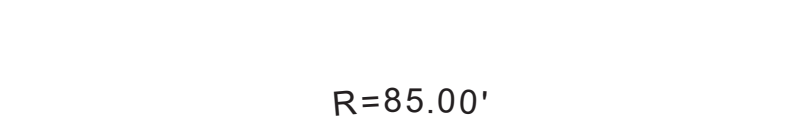
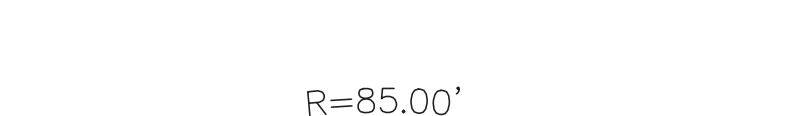
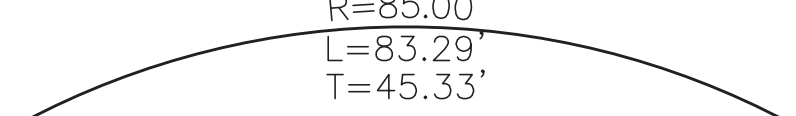



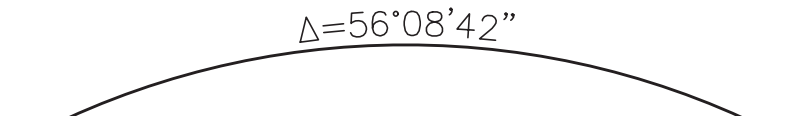

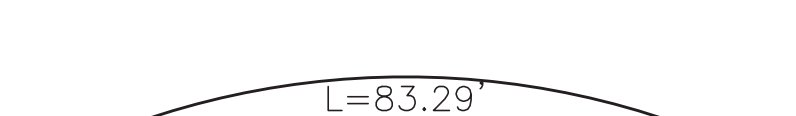

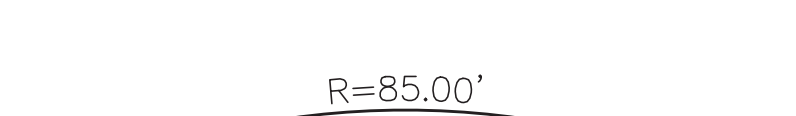

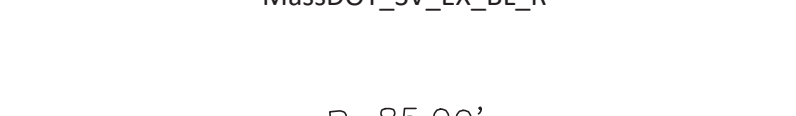

<p>249 X 12.34 RAW DESCRIPTION</p>	<p>POINT STYLE: <u>MassDOT_Quarter_X</u> LABEL STYLE: <u>MassDOT_PR_STANDARD_0.5X</u></p>
<p>X RAW DESCRIPTION</p>	<p>POINT STYLE: <u>MassDOT_Quarter_X</u> LABEL STYLE: <u>MassDOT_PR_DESC_0.5X</u></p>
<p>X 12.34</p>	<p>POINT STYLE: <u>MassDOT_Quarter_X</u> LABEL STYLE: <u>MassDOT_PR_ELEV_0.5X</u></p>
<p>X 12.34 RAW DESCRIPTION</p>	<p>POINT STYLE: <u>MassDOT_Quarter_X</u> LABEL STYLE: <u>MassDOT_PR_ELEV_DESC_0.5X</u></p>
<p>X 265</p>	<p>POINT STYLE: <u>MassDOT_Quarter_X</u> LABEL STYLE: <u>MassDOT_PR_PT#_0.5X</u></p>
<p>X 12.34 RAW DESCRIPTION</p>	<p>POINT STYLE: <u>MassDOT_Quarter_X</u> LABEL STYLE: <u>MassDOT_PR_PT#_DESC_0.5X</u></p>
<p>273 X 12.34 RAW DESCRIPTION</p>	<p>POINT STYLE: <u>MassDOT_Quarter_X</u> LABEL STYLE: <u>MassDOT_PR_PT#_ELEV_0.5X</u></p>

**GENERAL LINE LABEL STYLES**

<p>PARENT STYLE: MassDOT_SV_EX_BL_Arrow_Crows_Feet</p> 
<p>MassDOT_HD_PR_BL_Arrow_Crows_Feet</p> 
<p>PARENT STYLE: MassDOT_SV_EX_BL_B_D</p> <p>N90°00'00"E 72.30'</p> 
<p>N90°00'00"E</p> 
<p>MassDOT_HD_PR_BL_B</p> <p>N90°00'00"E 72.30'</p> 
<p>MassDOT_HD_PR_BL_B_D</p> <p>72.30'</p> 
<p>MassDOT_HD_PR_BL_D</p> <p>N90°00'00"E</p> 
<p>MassDOT_SV_EX_BL_B</p> <p>N90°00'00"E 72'±</p> 
<p>MassDOT_SV_EX_BL_B_D_PLUS-MINUS</p> <p>72.30'</p> 
<p>MassDOT_SV_EX_BL_D</p> <p>PARENT STYLE: MassDOT_SV_EX_BL_Crows_Feet</p> 
<p>MassDOT_HD_PR_BL_Crows_Feet</p> 
<p>MassDOT_SV_EX_LN_Arrow_Crows_Feet</p> 
<p>PARENT STYLE: MassDOT_SV_EX_LN_B_D</p> <p>N90°00'00"E 72.30'</p> 
<p>N90°00'00"E</p> 
<p>MassDOT_SV_EX_LN_B</p> <p>N90°00'00"E 72'±</p> 
<p>MassDOT_SV_EX_LN_B_D_PLUS-MINUS</p> <p>N90°00'00"E 72.30'</p> 
<p>MassDOT_SV_EX_LN_D</p> 

<p>MassDOT_SV_EX_LN_Crows_Feet</p> 
<p>MassDOT_SV_EX_LN_PL Symbol</p> 
<p>MassDOT_SV_EX_LN_Z Symbol</p> 

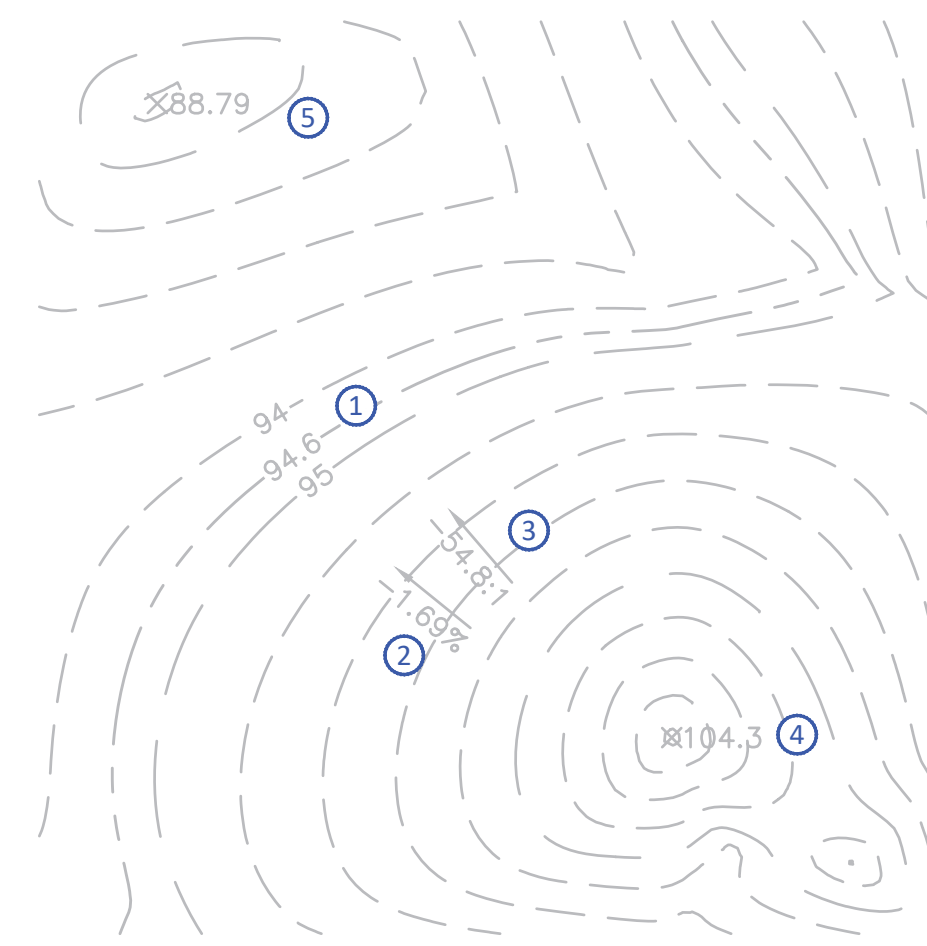
**GENERAL CURVE LABEL STYLES**

<p>PARENT STYLE: MassDOT_HD_PR_BL_Dit_R_L_T</p> <p>Δ=56°08'42" R=85.00' L=83.29' T=45.33'</p> 	<p>PARENT STYLE: MassDOT_SV_EX_LN_Dit_R_L_T</p> <p>Δ=56°08'42" R=85.00' L=83.29' T=45.33'</p> 
<p>MassDOT_HD_PR_BL_Arrow_Crows_Feet</p> 	<p>MassDOT_SV_EX_LN_Arrow_Crows_Feet</p> 
<p>MassDOT_HD_PR_BL_Dit</p> <p>Δ=56°08'42"</p> 	<p>MassDOT_SV_EX_LN_Dit</p> <p>Δ=56°08'42"</p> 
<p>MassDOT_HD_PR_BL_L</p> <p>L=83.29'</p> 	<p>MassDOT_SV_EX_LN_L</p> <p>L=83.29'</p> 
<p>MassDOT_HD_PR_BL_R</p> <p>R=85.00'</p> 	<p>MassDOT_SV_EX_LN_R</p> <p>R=85.00'</p> 
<p>MassDOT_HD_PR_BL_R_L_T</p> <p>R=85.00' L=83.29' T=45.33'</p> 	<p>MassDOT_SV_EX_LN_R_L_T</p> <p>R=85.00' L=83.29' T=45.33'</p> 
<p>PARENT STYLE: MassDOT_SV_EX_BL_Dit_R_L_T</p> <p>Δ=56°08'42" R=85.00' L=83.29' T=45.33'</p> 	<p>MassDOT_SV_EX_LN_Dit_R_L_T</p> <p>Δ=56°08'42" R=85.00' L=83.29' T=45.33'</p> 
<p>MassDOT_SV_EX_BL_Arrow_Crows_Feet</p> 	<p>MassDOT_SV_EX_LN_Arrow_Crows_Feet</p> 
<p>MassDOT_SV_EX_BL_Dit</p> <p>Δ=56°08'42"</p> 	<p>MassDOT_SV_EX_LN_Dit</p> <p>Δ=56°08'42"</p> 
<p>MassDOT_SV_EX_BL_L</p> <p>L=83.29'</p> 	<p>MassDOT_SV_EX_LN_L</p> <p>L=83.29'</p> 
<p>MassDOT_SV_EX_BL_R</p> <p>R=85.00'</p> 	<p>MassDOT_SV_EX_LN_R</p> <p>R=85.00'</p> 
<p>MassDOT_SV_EX_BL_R_L_T</p> <p>R=85.00' L=83.29' T=45.33'</p> 	<p>MassDOT_SV_EX_LN_R_L_T</p> <p>R=85.00' L=83.29' T=45.33'</p> 

**NOTE LABEL STYLES**

<p>MassDOT_Flood Plain Callout</p>	<p>FLOOD PLAIN ELEV.</p>
<p>MassDOT_Northing-Easting</p>	<p>N 130.0000 E 1315.0000</p>

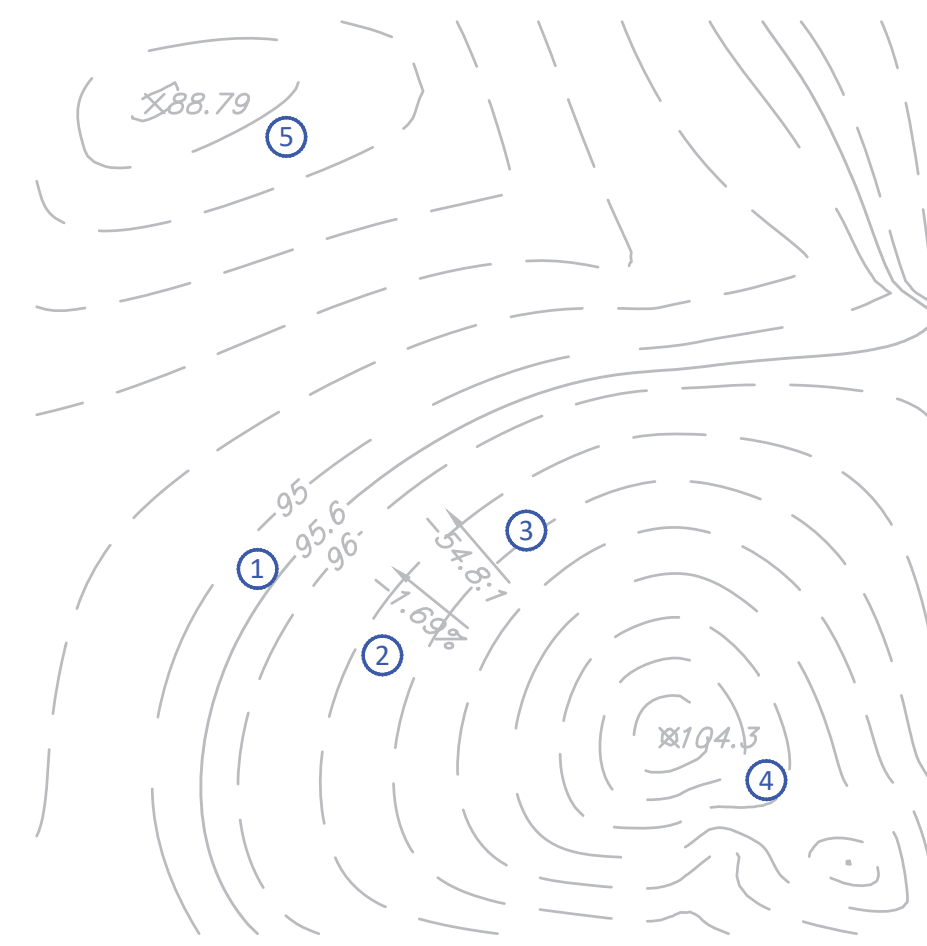
**SURFACE STYLES**



Surface Style:  
**MassDOT\_Existing Contours (1-5)**  
 Contour Label Styles:  
 MassDOT\_EXIST (1)  
 MassDOT\_EXIST\_User\_Defined  
 Slope Label Styles:  
 MassDOT\_SURVEY - % Grade (2)  
 MassDOT\_SURVEY - Run\_Rise (3)  
 Spot Grade Label Styles:  
 MassDOT\_SURVEY (.1) (4)  
 MassDOT\_SURVEY (.01) (5)



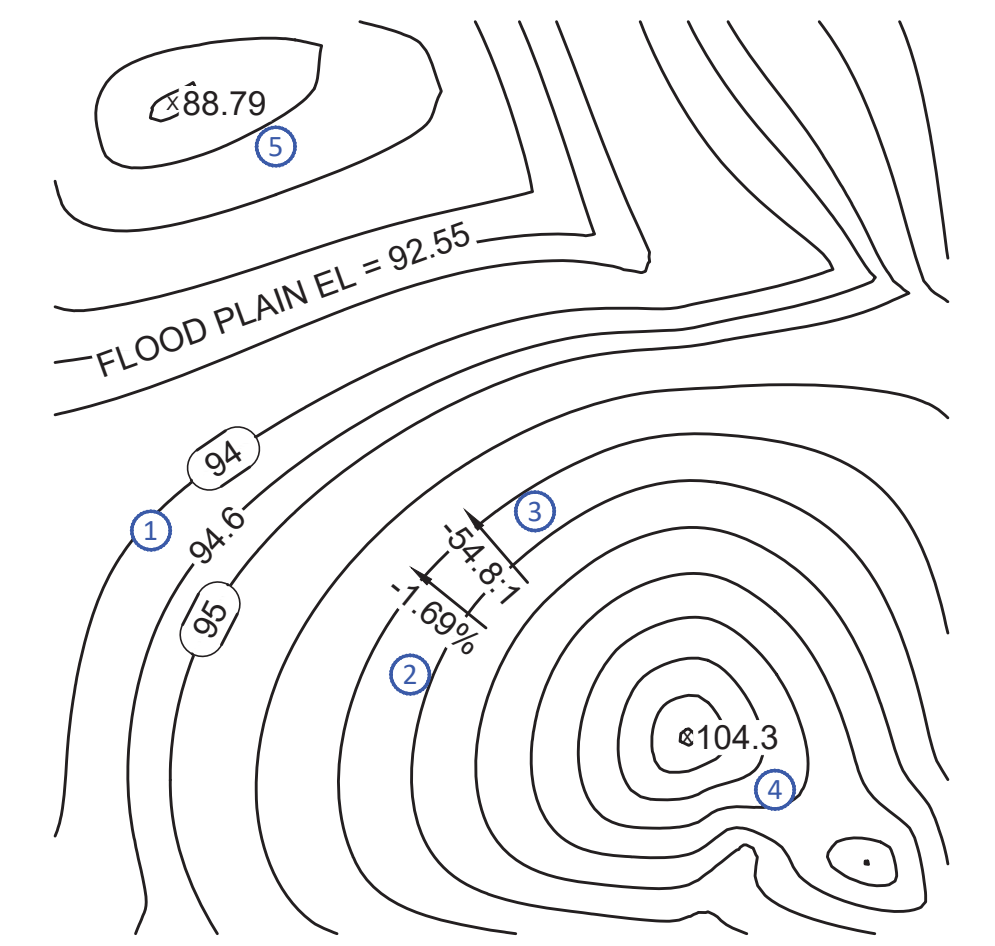
Surface Style:  
**MassDOT\_Existing Contours (2-10)**



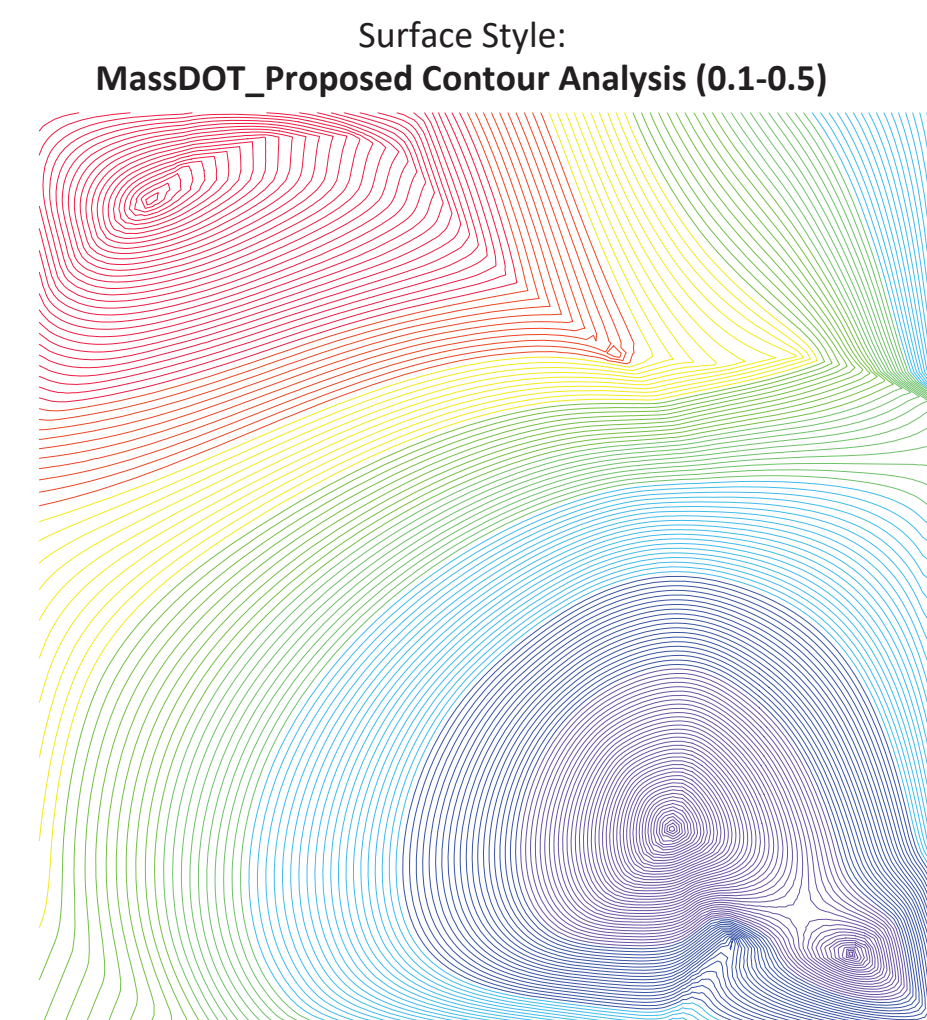
Surface Style:  
**MassDOT\_Existing PHOTO Contours (1-5)**  
 Contour Label Styles:  
 MassDOT\_EXIST PHOTO (1)  
 MassDOT\_EXIST PHOTO\_User\_Defined  
 Slope Label Styles:  
 MassDOT\_EXIST PHOTO - % Grade (2)  
 MassDOT\_EXIST PHOTO - Run\_Rise (3)  
 Spot Grade Label Styles:  
 MassDOT\_EXIST PHOTO (.1) (4)  
 MassDOT\_EXIST PHOTO (.01) (5)



Surface Style:  
**MassDOT\_Existing PHOTO Contours (2-10)**

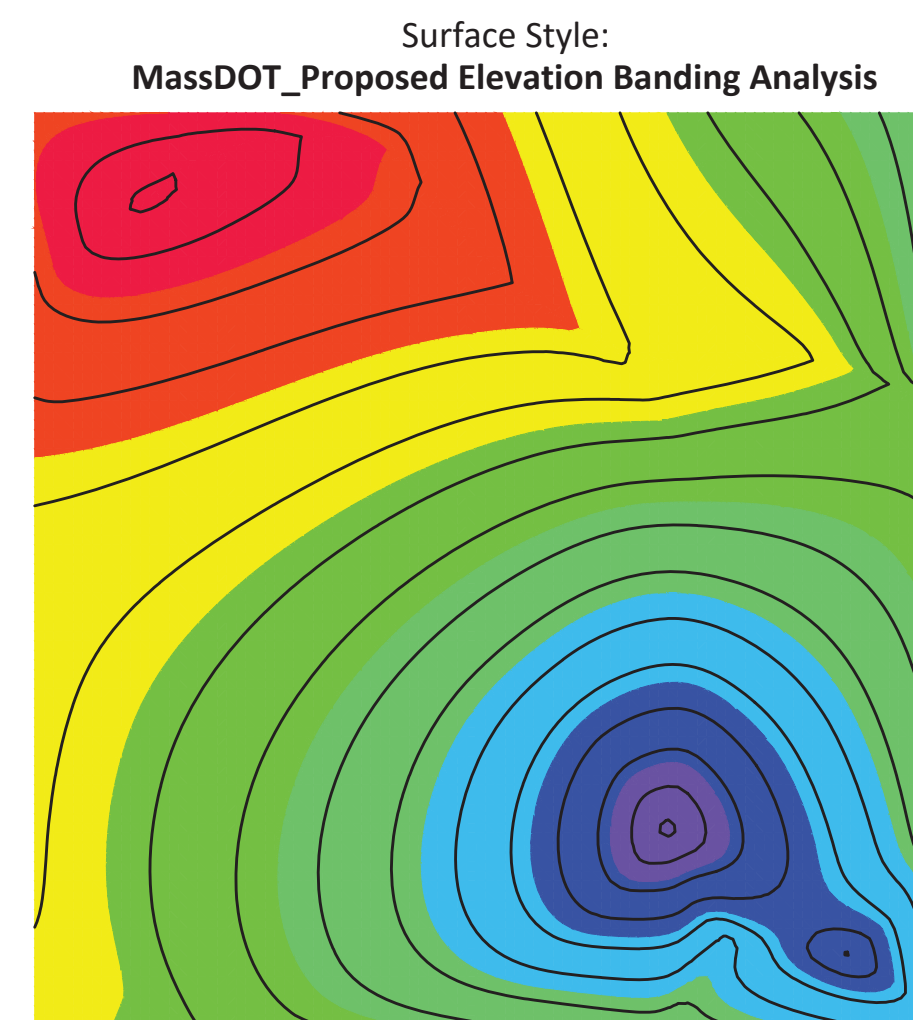


Surface Style:  
**MassDOT\_Proposed Contours (1-5)**  
 Contour Label Styles:  
 MassDOT\_DESIGN (1)  
 MassDOT\_DESIGN\_User\_Defined  
 Slope Label Styles:  
 MassDOT\_DESIGN - % Grade (2)  
 MassDOT\_DESIGN - Run\_Rise (3)  
 Spot Grade Label Styles:  
 MassDOT\_DESIGN (.1) (4)  
 MassDOT\_DESIGN (.01) (5)



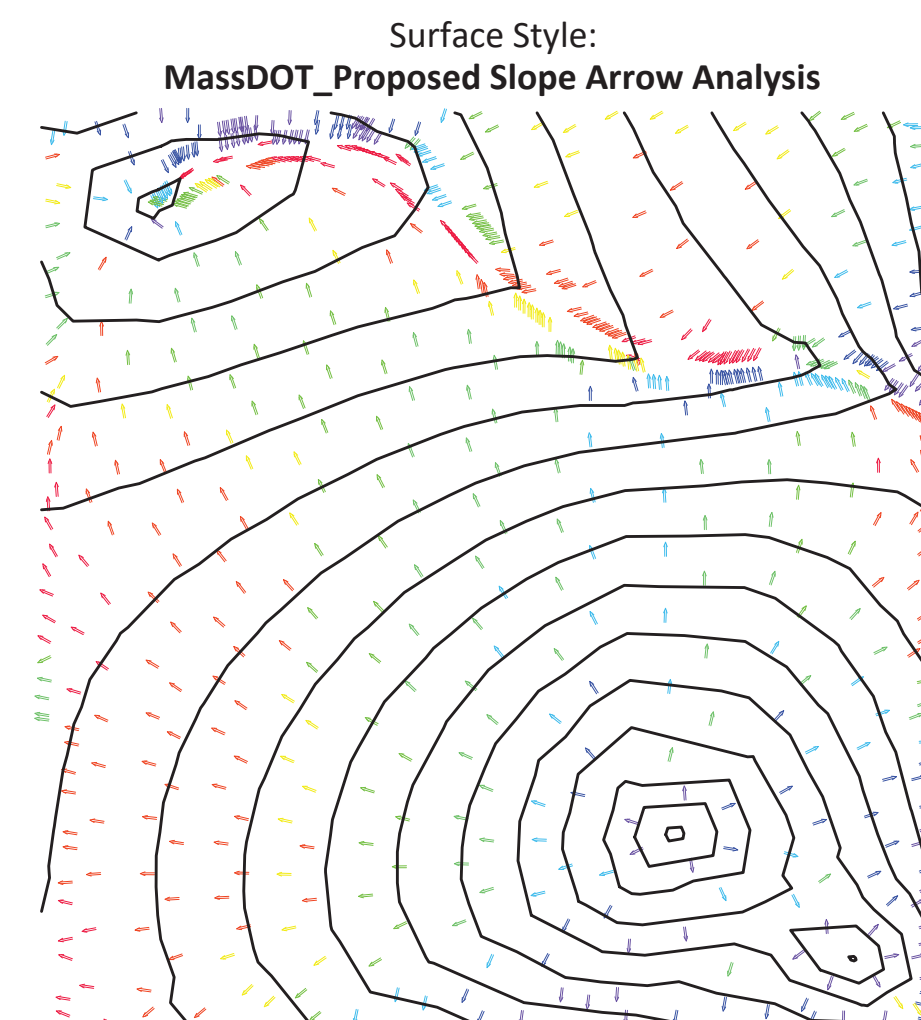
Surface Style:  
**MassDOT\_Proposed Contour Analysis (0.1-0.5)**

CONTOUR LEGEND			
NO.	MIN. ELEVATION	MAX. ELEVATION	
1	88.70	92.00	
2	92.00	93.00	
3	93.00	94.00	
4	94.00	95.00	
5	95.00	96.00	
6	96.00	98.00	
7	98.00	100.00	
8	100.00	104.00	



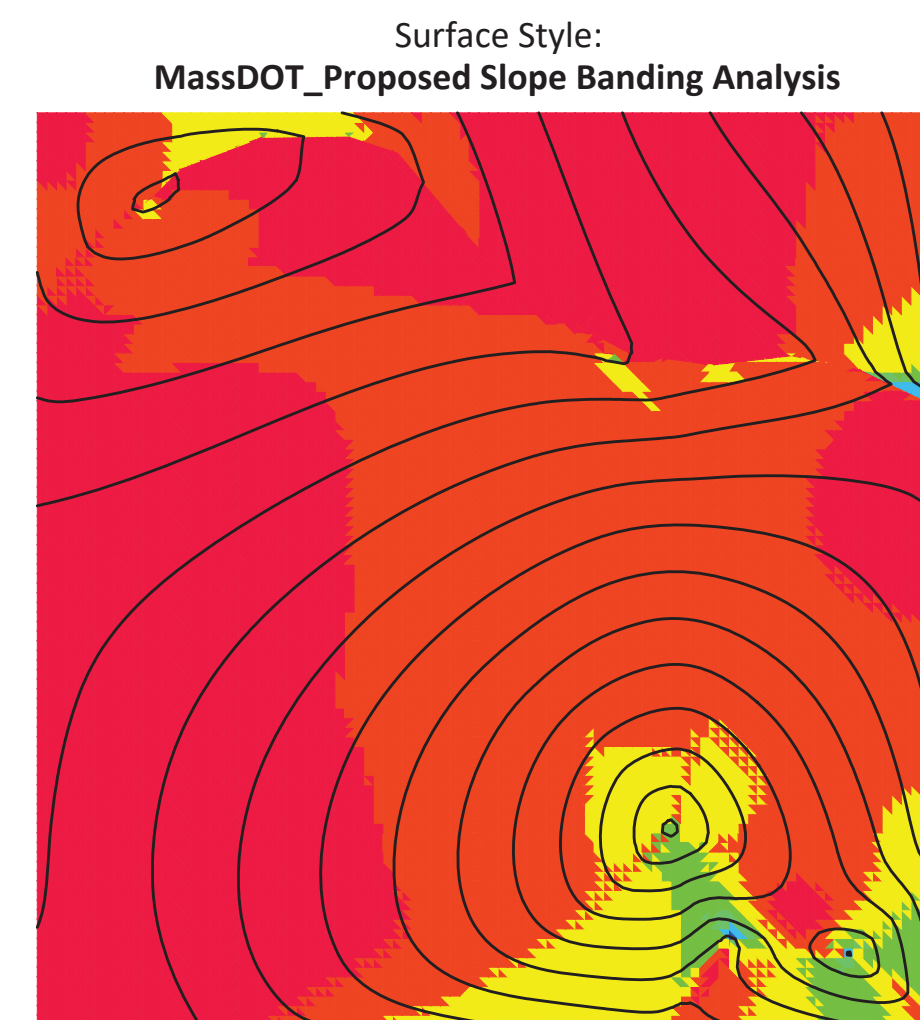
Surface Style:  
**MassDOT\_Proposed Elevation Banding Analysis**

ELEVATION LEGEND				
NO.	MIN. ELEVATION	MAX. ELEVATION	COLOR	
1	88.70	90.65	Red	
2	90.65	92.60	Orange	
3	92.60	94.55	Yellow	
4	94.55	96.50	Light Green	
5	96.50	98.45	Green	
6	98.45	100.40	Blue	
7	100.40	102.35	Dark Blue	
8	102.35	104.30	Purple	



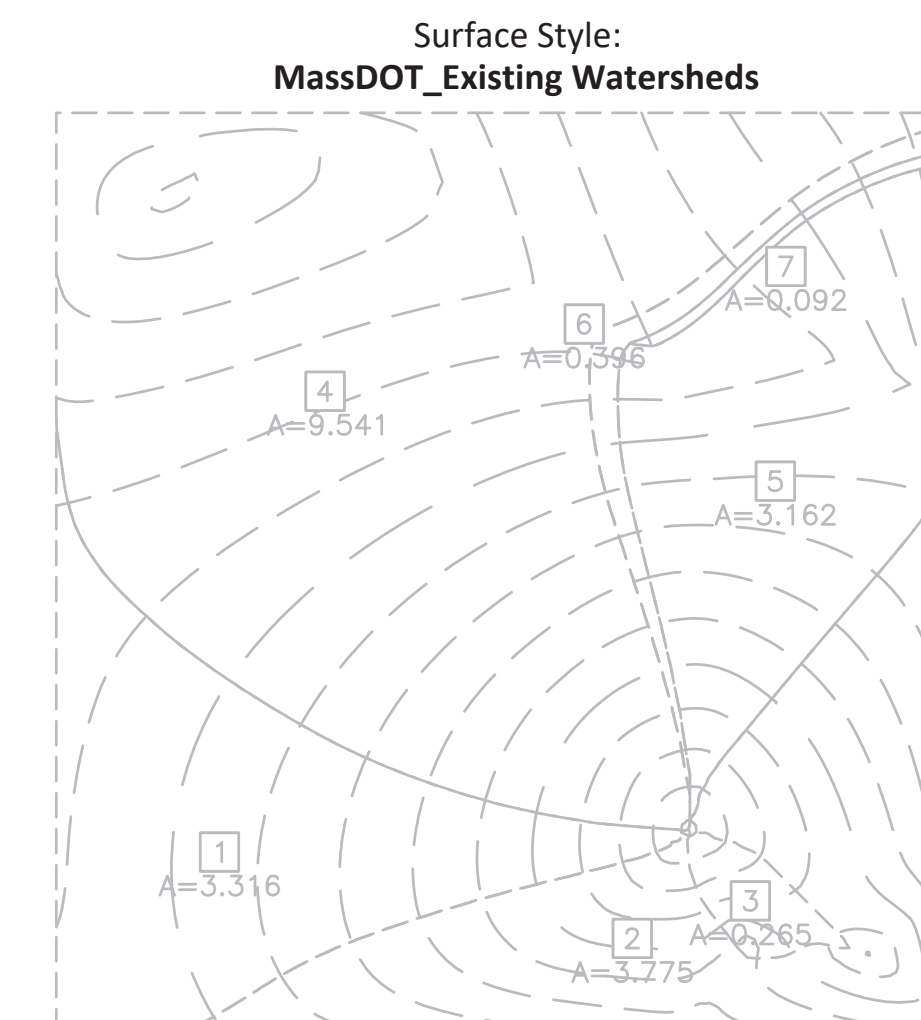
Surface Style:  
**MassDOT\_Proposed Slope Arrow Analysis**

SLOPE ARROW LEGEND				
NO.	MIN. SLOPE	MAX. SLOPE	COLOR	
1	0.18%	0.80%	Red	
2	0.80%	1.20%	Orange	
3	1.20%	1.30%	Yellow	
4	1.30%	1.50%	Light Green	
5	1.50%	1.90%	Green	
6	1.90%	2.30%	Blue	
7	2.30%	3.10%	Dark Blue	
8	3.10%	6.90%	Purple	



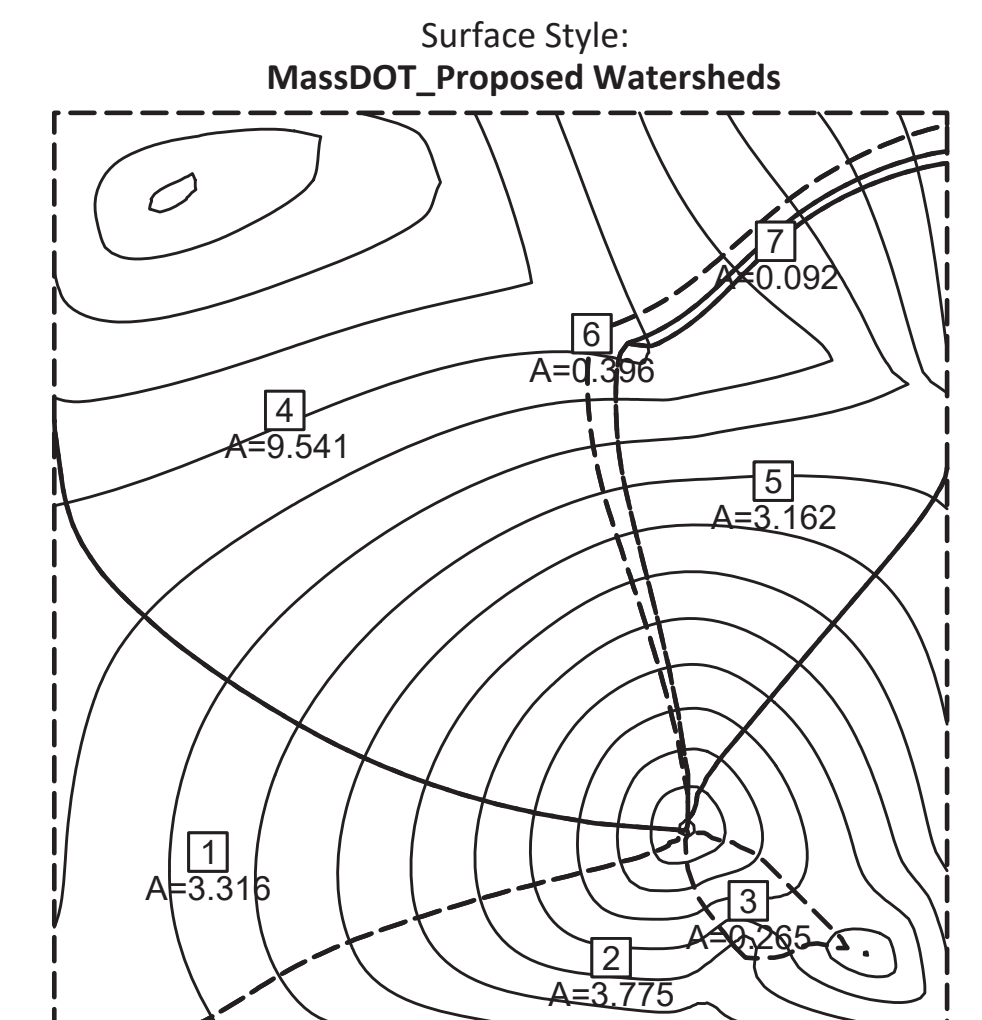
Surface Style:  
**MassDOT\_Proposed Slope Banding Analysis**

SURFACE SLOPE LEGEND				
NO.	MIN. SLOPE	MAX. SLOPE	COLOR	
1	0.24%	1.40%	Red	
2	1.40%	2.50%	Orange	
3	2.50%	3.60%	Yellow	
4	3.60%	4.70%	Light Green	
5	4.70%	5.70%	Green	
6	5.70%	6.80%	Blue	
7	6.80%	7.00%	Dark Blue	
8	7.00%	9.10%	Purple	



Surface Style:  
**MassDOT\_Existing Watersheds**

WATERSHED TABLE				
ID	TYPE	DRAINS TO	DESCRIPTION	AREA (AC)
1	BOUNDARY SEGMENT		DESCRIPTION 1	3.316
2	BOUNDARY SEGMENT		DESCRIPTION 2	3.775
3	DEPRESSION	2	DESCRIPTION 3	0.265
4	DEPRESSION		DESCRIPTION 4	9.541
5	DEPRESSION	6	DESCRIPTION 5	3.162
6	DEPRESSION	4	DESCRIPTION 6	0.396
7	MULTI-DRAIN	5, 6	DESCRIPTION 7	0.092



Surface Style:  
**MassDOT\_Proposed Watersheds**

**NOTES**

- Only special grading areas on Grading Plans and Curb Tie & Grading Plan shall show existing or proposed contours within a Highway Construction Plan set. All other sheets do not show surface contours.
- When creating any surface, it is best practice to create a dedicated object layer with the surface name added as a suffix and delimited with a dash, such as OB-SURFACE-FG-Roadway.
- Surface styles MassDOT\_No Display and MassDOT\_Border Only not shown.

### Alignment Styles

- \_MassDOT\_Standard**  
Shows the alignment using the layer properties of the alignment's object layer.  
E.G. If an alignment is on an object layer that uses DASHED2 as the linetype, the alignment will be displayed using the DASHED2 linetype as set in the layer.
- \_MassDOT\_Target**  
Non-plotting style to be applied to alignments that corridors use as offset target objects.
- \_MassDOT\_EX\_County Baseline**
- \_MassDOT\_EX\_Miscellaneous Baseline**
- \_MassDOT\_EX\_Railroad Baseline**
- \_MassDOT\_EX\_SHLO Baseline**
- \_MassDOT\_EX\_Survey Baseline**
- \_MassDOT\_EX\_Town-City Baseline**
- \_MassDOT\_EX\_Turnpike Authority Baseline**
- MassDOT\_Proposed Construction Baseline**

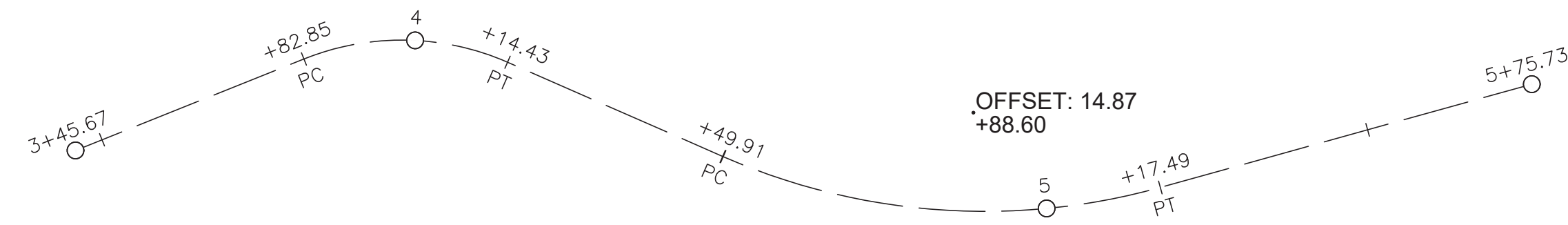


### Alignment Label Set and Station Offset Label Styles

**STATION LABELING NOTE:**

All station labels must be created or placed on the layers indicated below. Label components such as ticks and leader lines will not plot with the correct lineweight unless the labels are created or placed on the layer indicated.

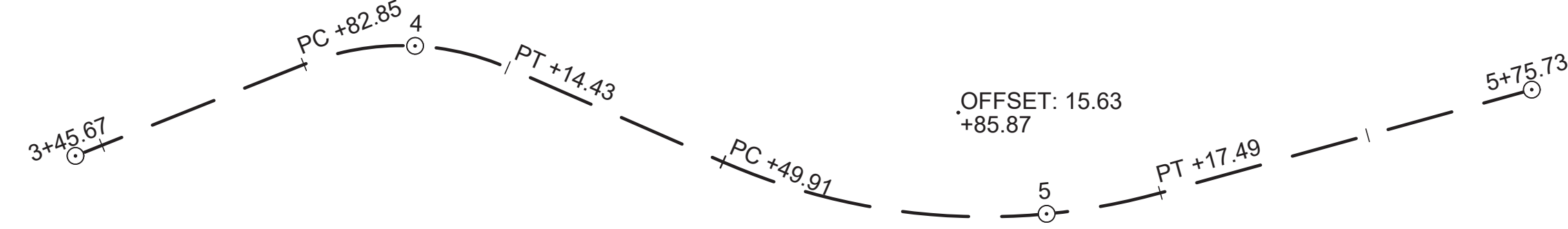
**MassDOT\_Existing**



Label all existing baselines using the MassDOT\_Existing label set style.

Create or place the labels on layer EX-SV-BL-GEOM.

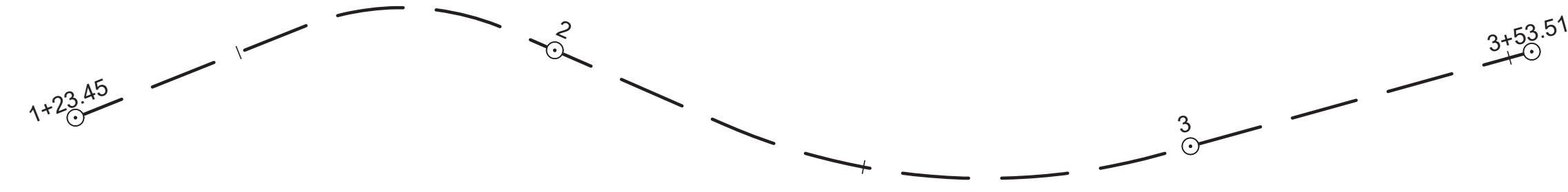
**MassDOT\_Proposed**



Label all proposed construction baselines using the MassDOT\_Proposed label set style.

Create or place the labels on layer PR-HD-BL-TEXT.

**MassDOT\_Proposed\_Major and Minor Only**



Label all proposed construction baselines on Key Plans using the MassDOT\_Proposed\_Major and Minor Only label set style.

Create or place the labels on layer PR-HD-BL-TEXT.

### Alignment Segment Label Styles

AS-INSERTED	FLIPPED	DRAGGED STATE
<p><b>MassDOT_Existing</b></p>	<p><b>MassDOT_Proposed</b></p>	<p><b>DRAGGED STATE</b></p>

Label all existing baseline segments using the MassDOT\_Existing line and curve label styles.

Place all labels on layer EX-SV-BL-GEOM.

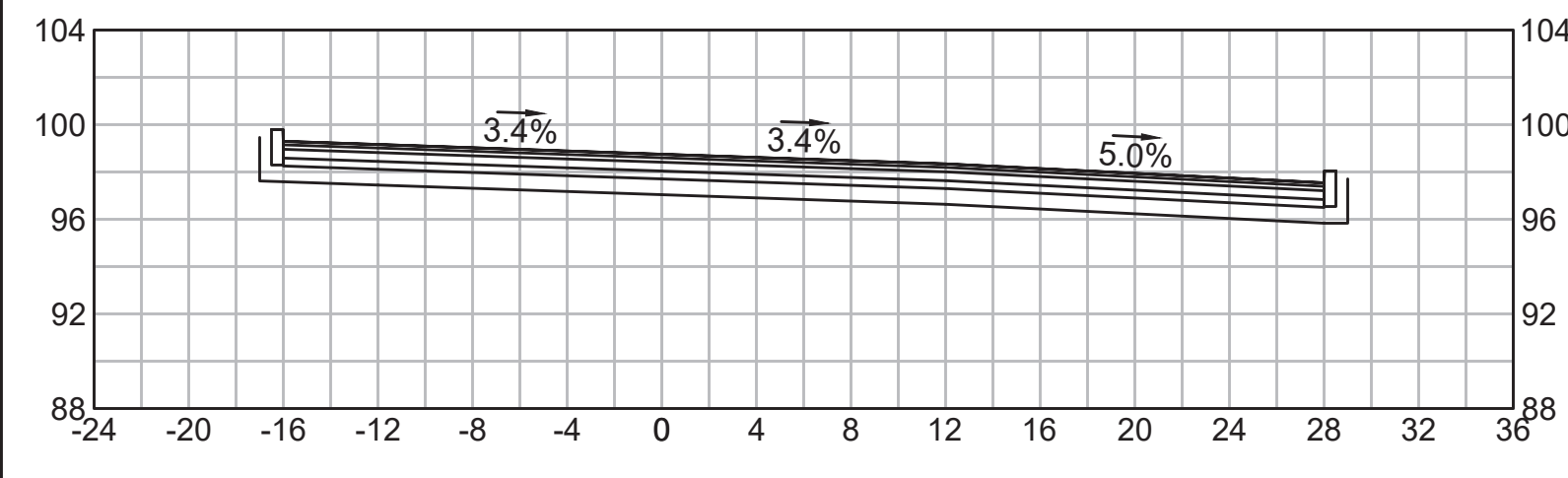
Label all proposed construction baseline segments using the MassDOT\_Proposed label set style.

Place all labels on layer PR-HD-BL-GEOM.

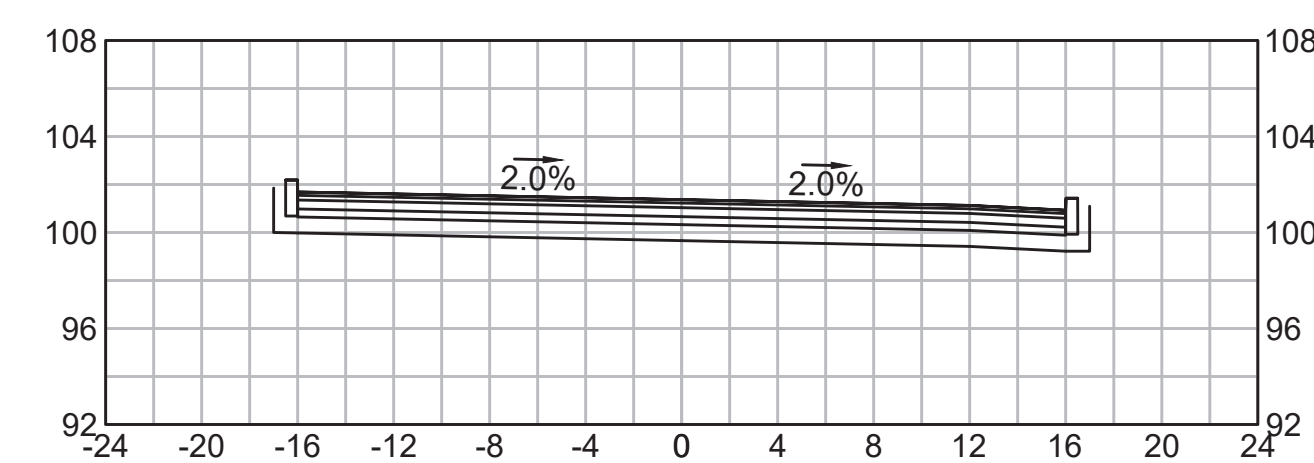
**SEGMENT LABELING NOTES:**

- Plans possessing a significant amount of linework and annotation in close proximity to the construction baseline should use line and curve tag labels in conjunction with a line and curve data table as shown on the next sheet.
- All segment labels must be created or placed on the layers indicated at right. Label components such as arrows and leader lines will not plot with the correct lineweight unless the label is created or placed on the layer indicated.

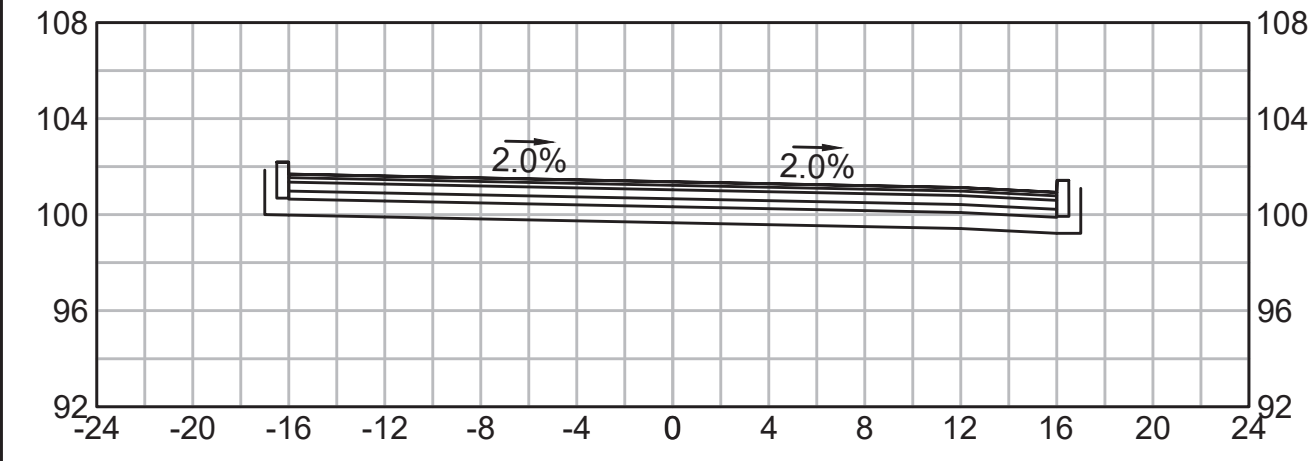
ALIGNMENT SUPERELEVATION AND CURB TIE LABEL STYLES



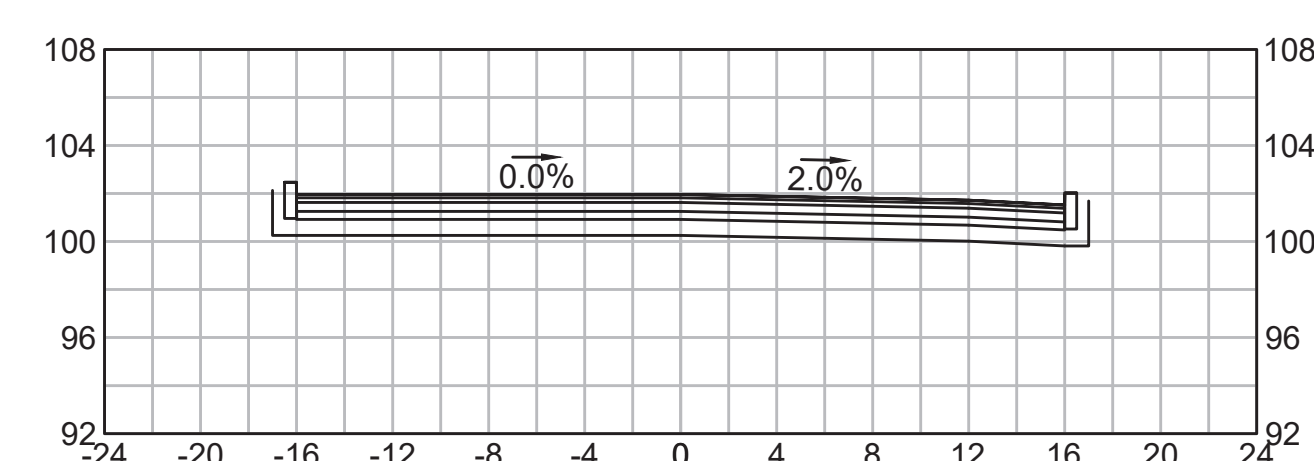
18+09.33



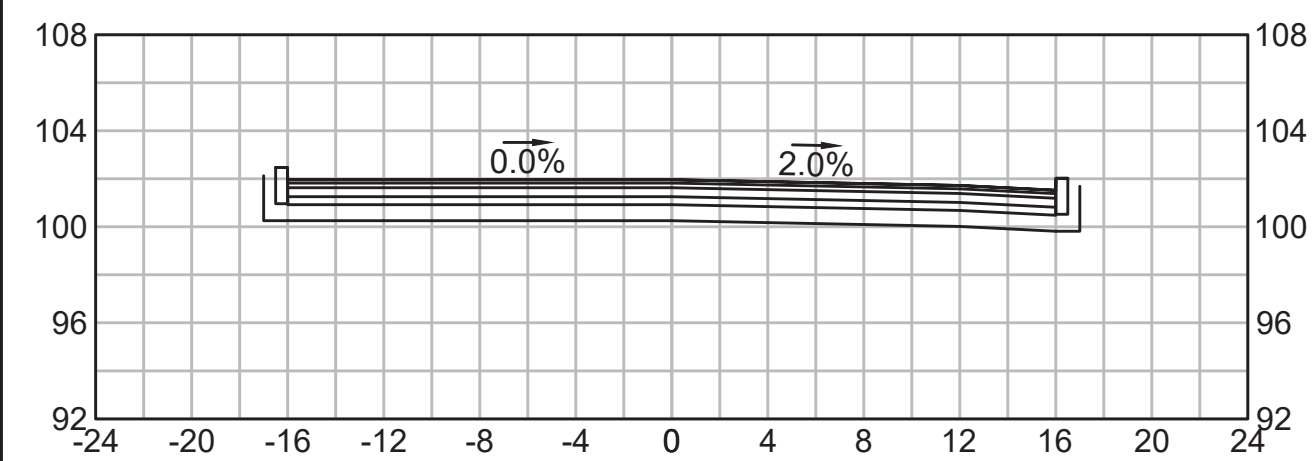
16+36.62



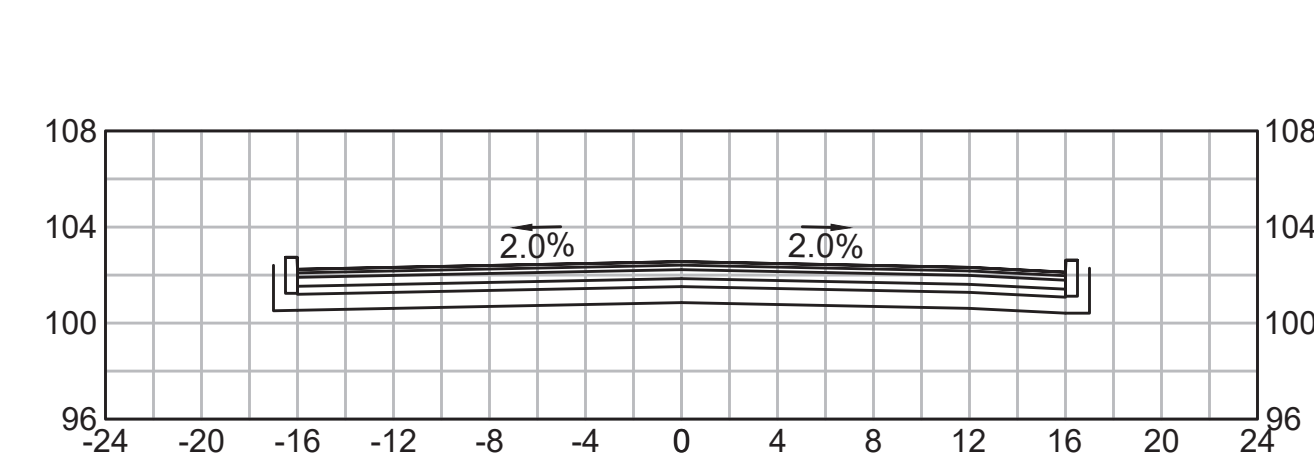
16+36.62



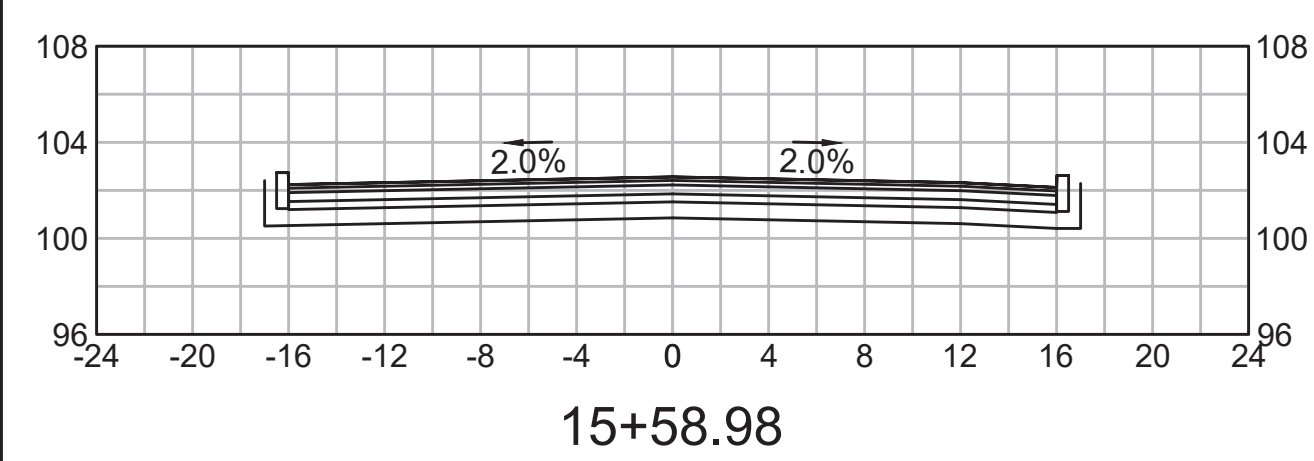
15+97.80



15+97.80

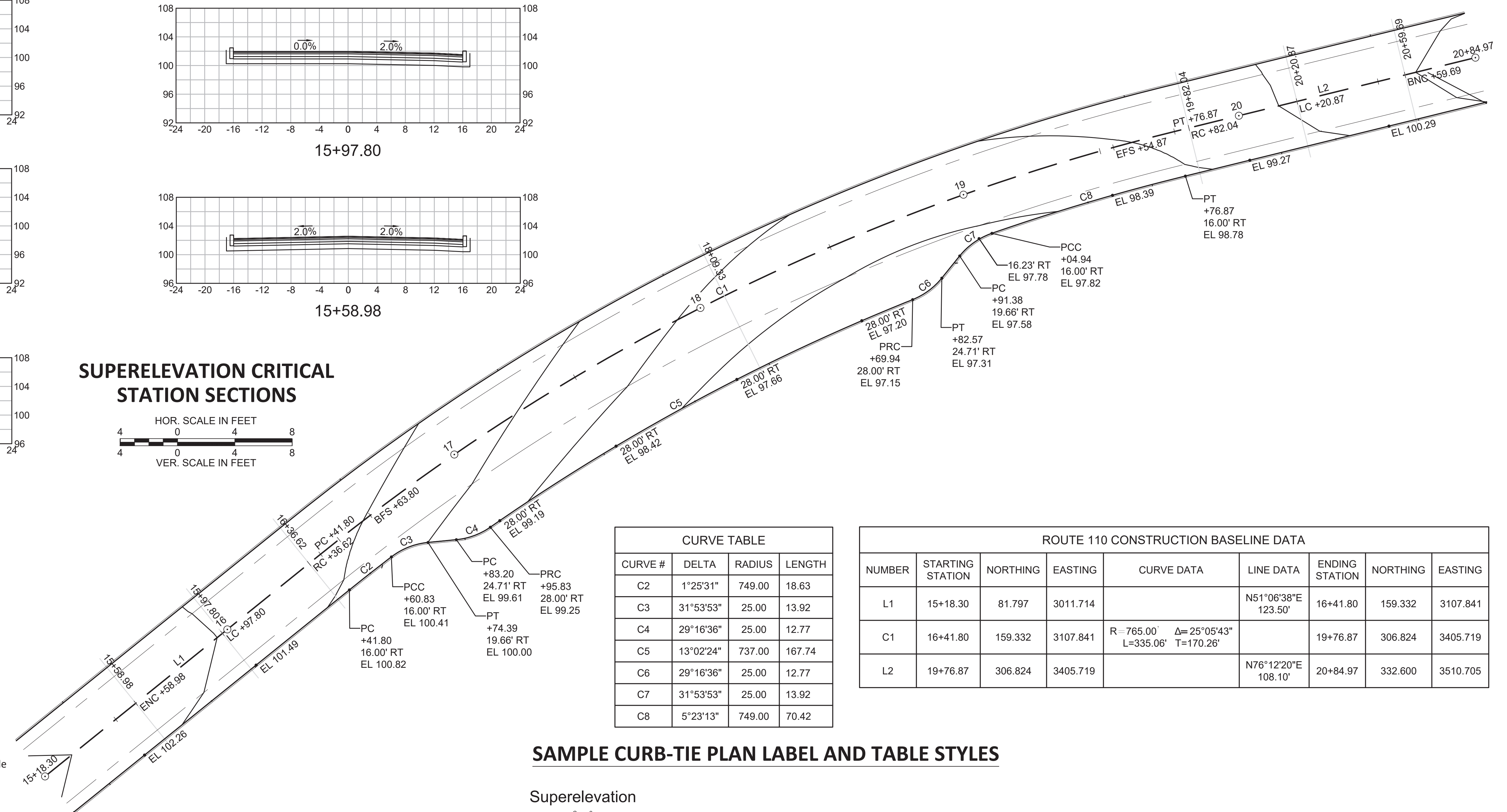
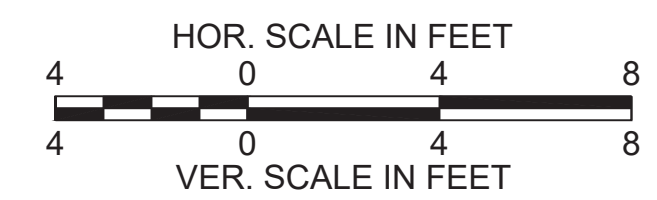


15+58.98



15+58.98

SUPERELEVATION CRITICAL STATION SECTIONS



CURVE TABLE			
CURVE #	DELTA	RADIUS	LENGTH
C2	1°25'31"	749.00	18.63
C3	31°53'53"	25.00	13.92
C4	29°16'36"	25.00	12.77
C5	13°02'24"	737.00	167.74
C6	29°16'36"	25.00	12.77
C7	31°53'53"	25.00	13.92
C8	5°23'13"	749.00	70.42

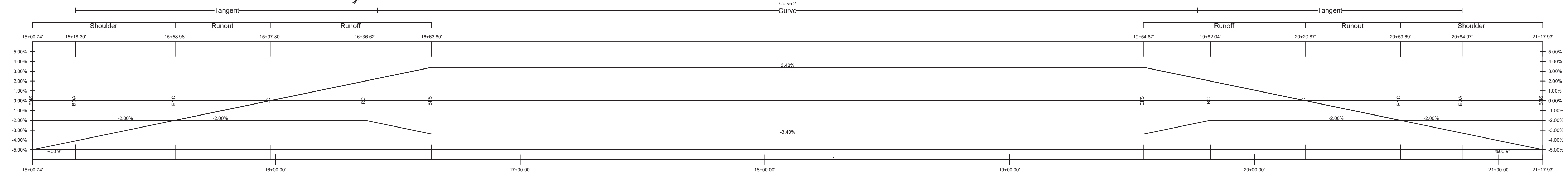
ROUTE 110 CONSTRUCTION BASELINE DATA								
NUMBER	STARTING STATION	NORTHING	EASTING	CURVE DATA	LINE DATA	ENDING STATION	NORTHING	EASTING
L1	15+18.30	81.797	3011.714		N51°06'38"E 123.50'	16+41.80	159.332	3107.841
C1	16+41.80	159.332	3107.841	R = 765.00' Δ = 25°05'43" L = 335.06' T = 170.26'		19+76.87	306.824	3405.719
L2	19+76.87	306.824	3405.719		N76°12'20"E 108.10'	20+84.97	332.600	3510.705

NOTES

- Sections shown here for reference only and is not depicting appearance of a standard cross section view. See the sheet regarding Section Styles for standard appearance of cross sections.
- Superelevation view shown for reference only and is a working style that is not to be shown in the Highway Construction Plan set.
- Contours shown here for reference, only. Proposed contours are only to be shown in special grading areas on grading plans.

SAMPLE CURB-TIE PLAN LABEL AND TABLE STYLES

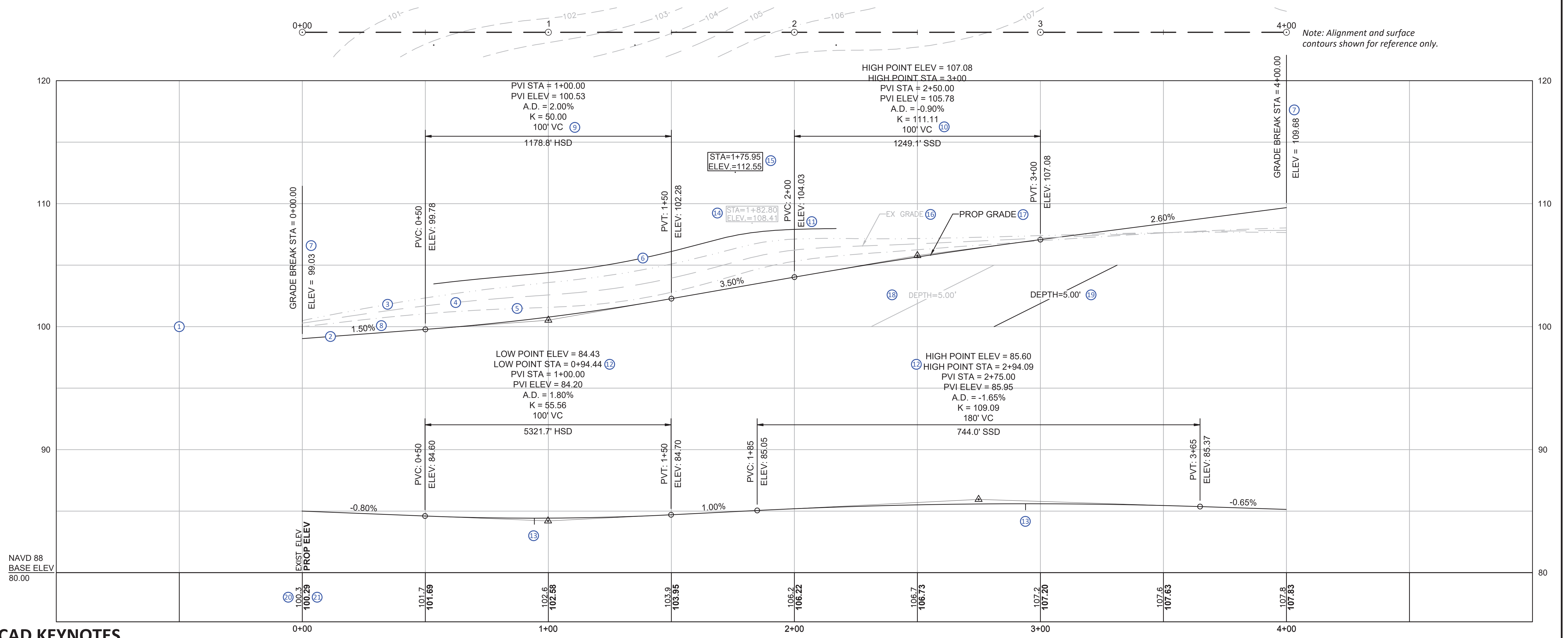
Superelevation



PROFILE STYLES

Plotted on: 2-Dec-2025 11:24 AM  
2:14-PROFILE STYLES.DWG

Note: Alignment and surface contours shown for reference only.



CAD KEYNOTES

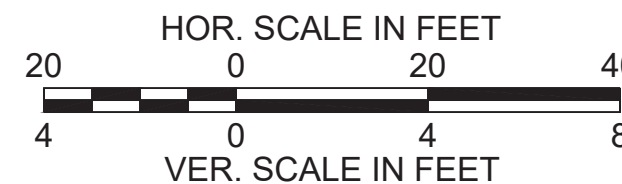
#	KEYNOTE DESCRIPTION
1	Profile View Style: MassDOT_Standard Use profile band set MassDOT_EG_FG. Follow the keynotes placed in the profile band set at the bottom of the profile for more information. This grid is shown as created using the automatic stationing option including a horizontal grid padding factor of 1. Users can override the grid padding by adjusting the profile view station range in the profile view properties Stations tab to best fit the drawing sheet for that station range. Users can override the elevation grid padding by adjusting the profile view elevation range in the profile view properties Elevations tab to best fit the drawing sheet for that elevation range.
2	Profile Style: MassDOT_Design
3	Profile Style: MassDOT_Existing_Right_Sampling
4	Profile Style: MassDOT_Existing
5	Profile Style: MassDOT_Existing_Left_Sampling
6	Profile Style: MassDOT_Design Superimposed

#	KEYNOTE DESCRIPTION
7	PVI Label Style: MassDOT_Design Marks the beginning and end of the layout profile and any grade breaks. Apply to layout profile using label set style MassDOT_MHD_Design.
8	Profile Line Label Style: MassDOT_Design Denotes the slope of the vertical tangent. Apply to layout profile using label set style MassDOT_MHD_Design.
9	Sag Curve Label Style: MassDOT_Sag_Curve_HSD Denotes sag curves only on the layout profile. This profile sag curve indicates no low point in the curve and therefore the label style automatically omits the low point portion of the curve data and low point tick. See profile below for label with low point annotation added. Apply to layout profile using label set style MassDOT_MHD_Design.

#	KEYNOTE DESCRIPTION
10	Crest Curve Label Style: MassDOT_Crest_Curve_SSD Denotes crest curves only on the layout profile. This profile crest curve indicates no high point in the curve and therefore the label style automatically omits the high point portion of the curve data and low point tick. See profile below for label with high point annotation added. Apply to layout profile using label set style MassDOT_MHD_Design.
11	Always place curve labels so all curve data is readable with no line through text. Draw a masking object where needed on layer GE-MASKING.
12	For profile curves having a high or low point, high or low point station and elevation are shown as part of the curve data label.
13	For profile curves having a high or low point, a tick is added to the profile at the station and elevation of the high or low point.
14	Profile View Station Elevation Label Style: MassDOT_EXISTING Put on layer PR-HD-PROF-EX-TEXT.

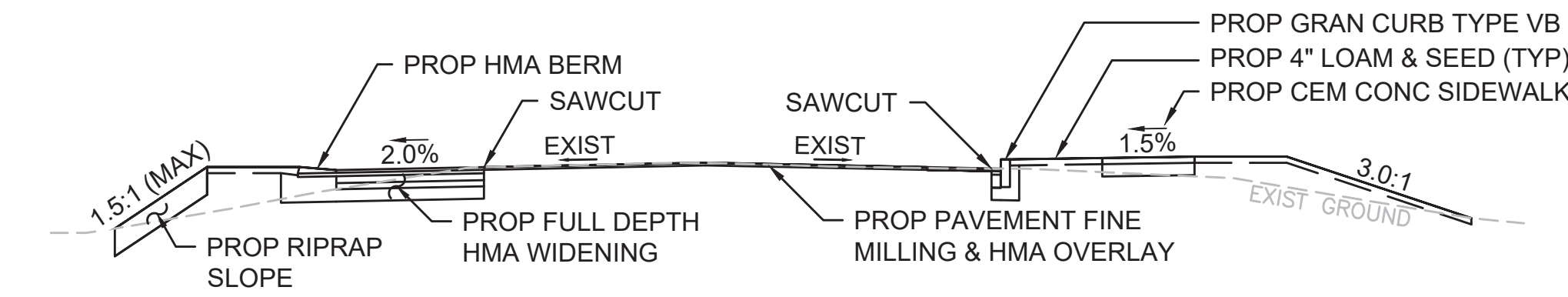
#	KEYNOTE DESCRIPTION
15	Profile View Station Elevation Label Style: MassDOT_DESIGN Put on layer PR-HD-PROF-FG-TEXT.
16	Profile View Station Elevation Label Style: MassDOT_EX GRADE Put on layer PR-HD-PROF-EG-TEXT.
17	Profile View Station Elevation Label Style: MassDOT_PROP GRADE Put on layer PR-HD-PROF-FG-TEXT.
18	Profile View Depth Label Style: MassDOT_EXISTING Put on layer PR-HD-PROF-EX-TEXT.
19	Profile View Depth Label Style: MassDOT_DESIGN Put on layer PR-HD-PROF-FG-TEXT.

#	KEYNOTE DESCRIPTION
20	Set the Profile1 band to the existing grade profile object. In the profile view properties, go to the Bands tab and assign the profile object in the Profile1 column to the EG surface profile.
21	Set the Profile2 elevation in the Band set style to use the proposed grade profile. In the profile view properties, go to the Bands tab and assign the profile object in the Profile2 column to the proposed grade layout profile.
22	Set the Construction Plan reference sheet number using a sheet set sheet number reference. Refer to the MSPT Highway Construction Plans Help Doc for more detailed instructions.

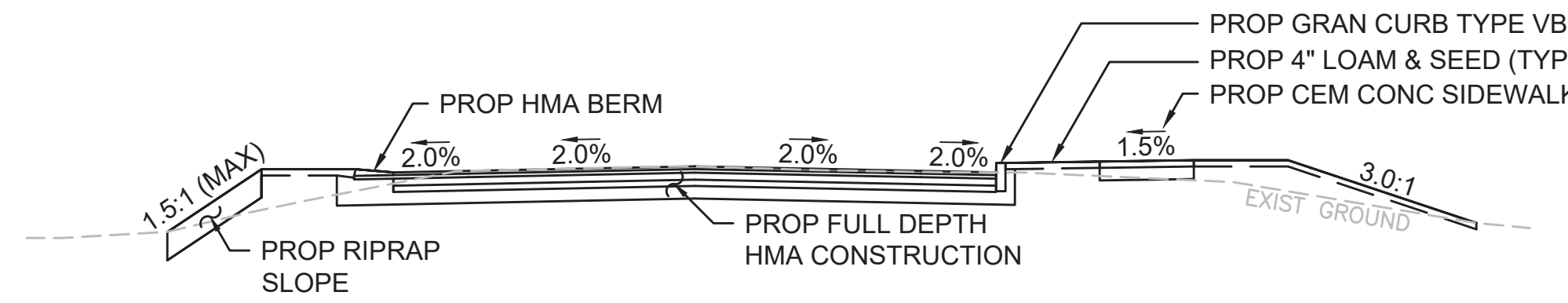


### Typical Section Examples

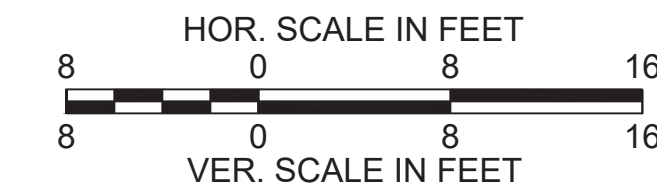
The following code set style samples are based on the simplified typical section examples below.



TYPICAL SECTION - RESURFACING AND WIDENING



TYPICAL SECTION - FULL DEPTH CONSTRUCTION



### CODE SET STYLES FOR ASSEMBLIES

#### PAVEMENT NOTES

##### FULL DEPTH HMA CONSTRUCTION

SURFACE COURSE: 1.75" SUPERPAVE SURFACE COURSE - 12.5 (SSC-12.5) OVER  
2.25" SUPERPAVE INTERMEDIATE COURSE - 19.0 (SIC-19.0) OVER  
BASE: 4.5" SUPERPAVE BASE COURSE - 37.5 (SBC-37.5) OVER  
SUBBASE: 4" DENSE GRADED CRUSHED STONE OVER  
8" GRAVEL BORROW TYPE B (OR SUITABLE EXIST MATERIAL)

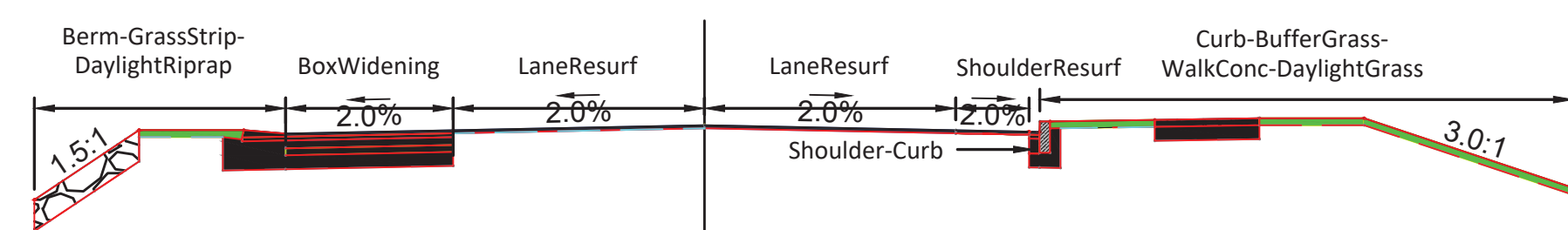
##### PAVEMENT FINE MILLING & HMA OVERLAY

SURFACE COURSE: 1.75" SUPERPAVE SURFACE COURSE - 12.5 (SSC-12.5) OVER  
SURFACE MILLING: VARIABLE DEPTH (1.75" ± 0.75") PAVEMENT FINE MILLING

##### CEMENT CONCRETE SIDEWALKS

SURFACE COURSE: 4" CEMENT CONC (AIR ENTRAINED 4000 PSI, 3/4", 610) OVER  
SUBBASE: 8" GRAVEL BORROW TYPE B

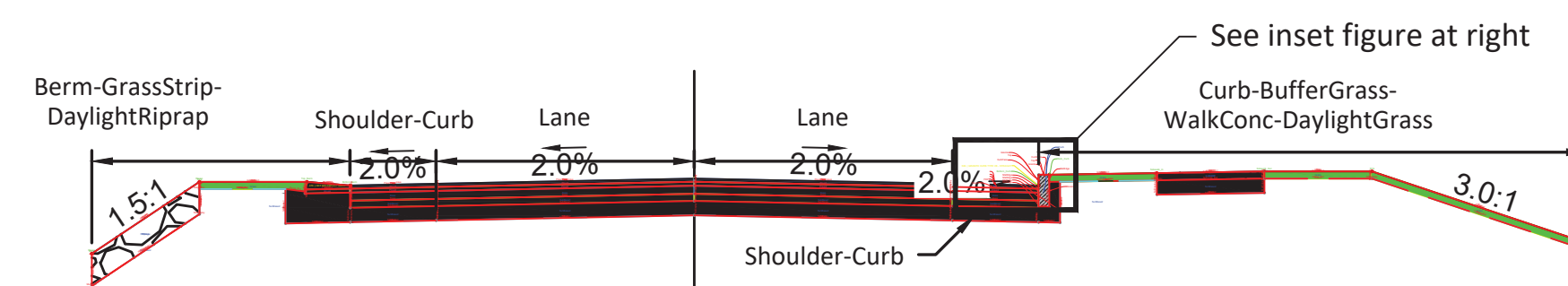
### Assembly Code Set Styles: Composing Assemblies



RESURFACING SECTION ASSEMBLY (SCREEN DISPLAY)

Code Set Style: MassDOT\_MCMT-Assembly Codes

Use the MCMT Assembly Codes code set style to display assemblies and corridors with color coded shapes.



FULL DEPTH SECTION ASSEMBLY (SCREEN DISPLAY)

Code Set Style: MassDOT\_MCMT-Assembly Codes with Code Labels

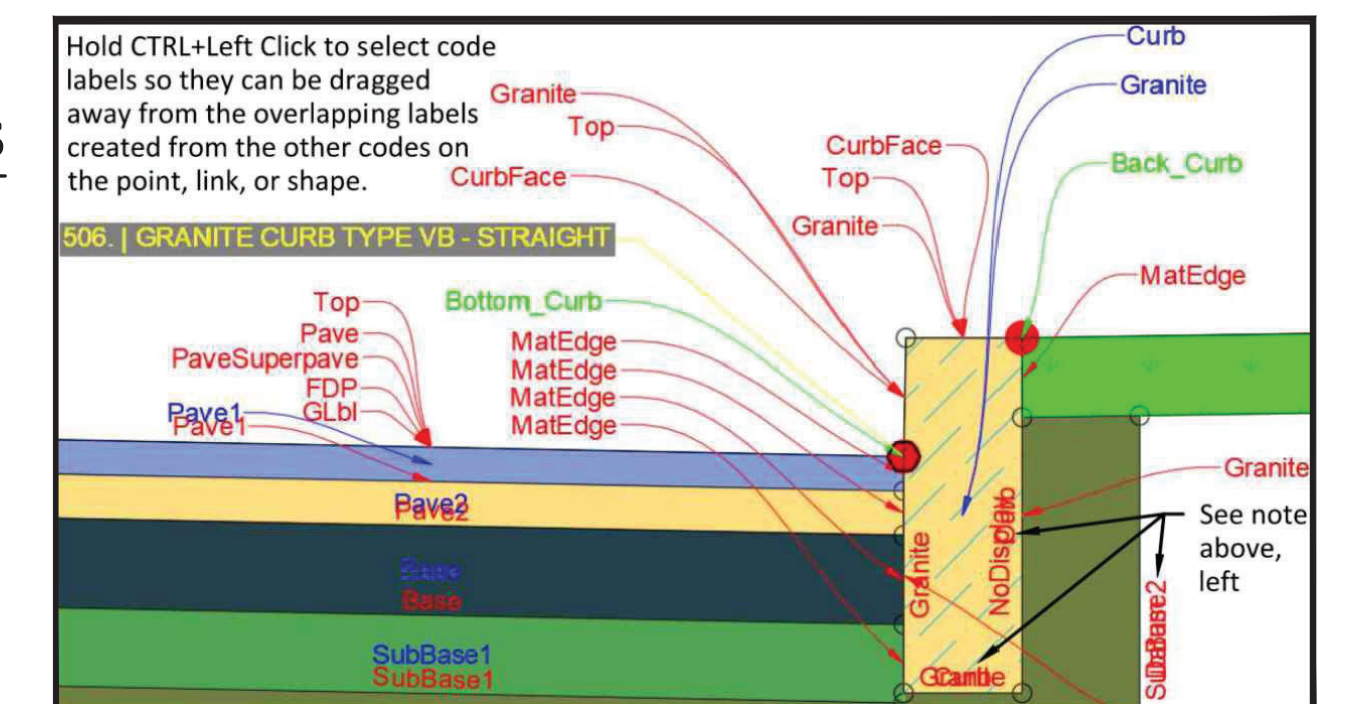
Use the MCMT Assembly Codes with Code Labels code set style to compose assemblies by leveraging the information read from the code labels that indicate how the corridor region will be modeled. Newly created assemblies use this style by default.

### Subassembly Code Labels and Symbols

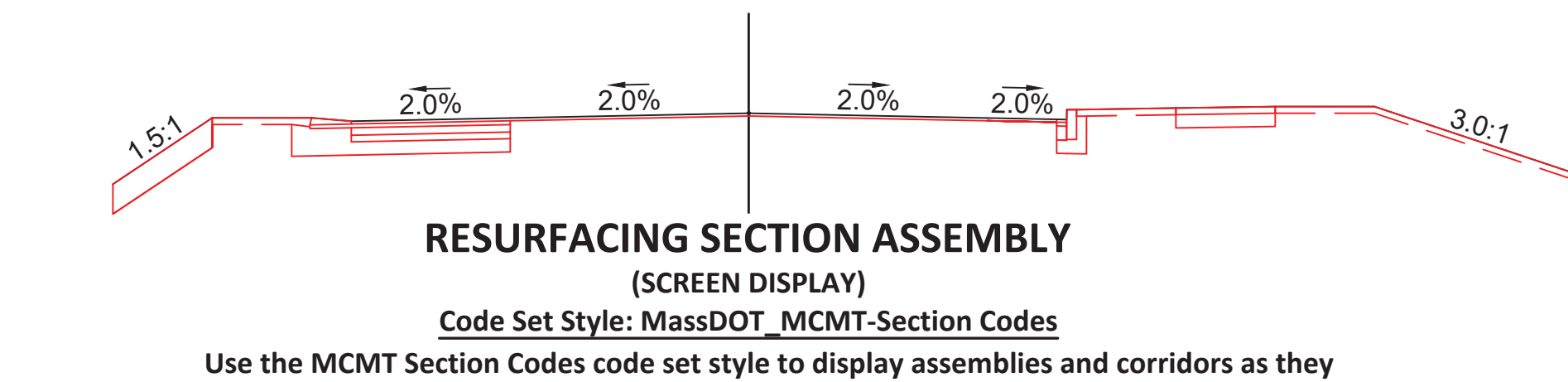
Use subassembly code labels and symbols to aid creation of assemblies. Identify the correct subassembly setup prior to corridor creation and quickly assess coding issues in the corridor.

#### LEGEND

- Red Label: Link Codes
- Green Labels: Point Codes
- Blue Labels: Shape Codes
- Yellow Labels: QTO Codes
- Feature Line Point



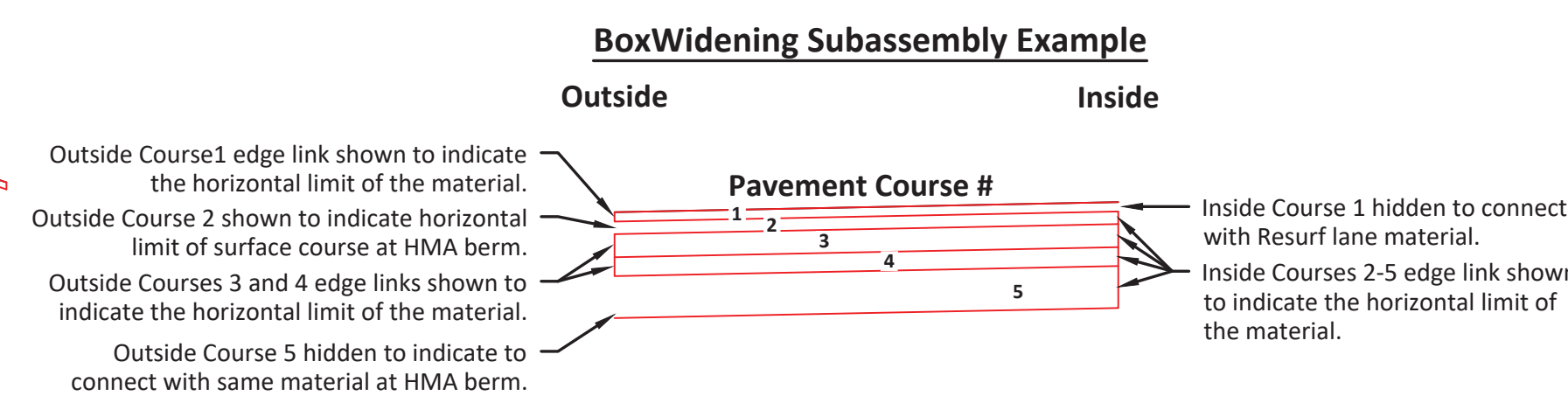
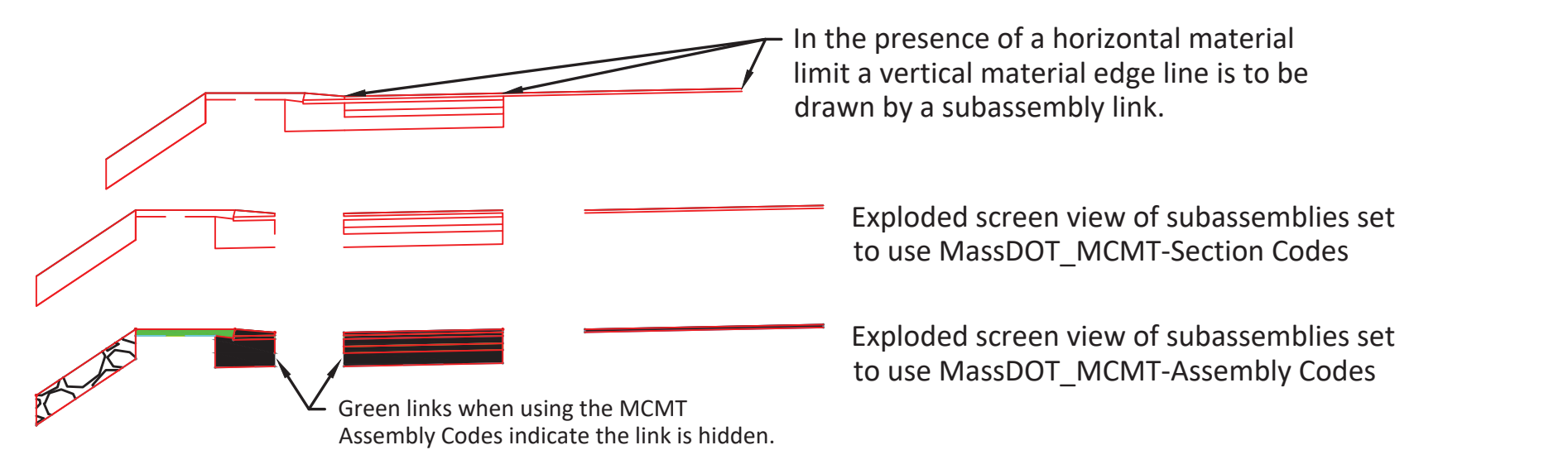
### Section Code Set Styles: Configuring Subassembly Links for Accurate Section Drafting



RESURFACING SECTION ASSEMBLY (SCREEN DISPLAY)

Code Set Style: MassDOT\_MCMT-Section Codes

Use the MCMT Section Codes code set style to display assemblies and corridors as they would appear in section view to preview how the corridor will draft a corridor cross section.



BoxWidening Subassembly Example

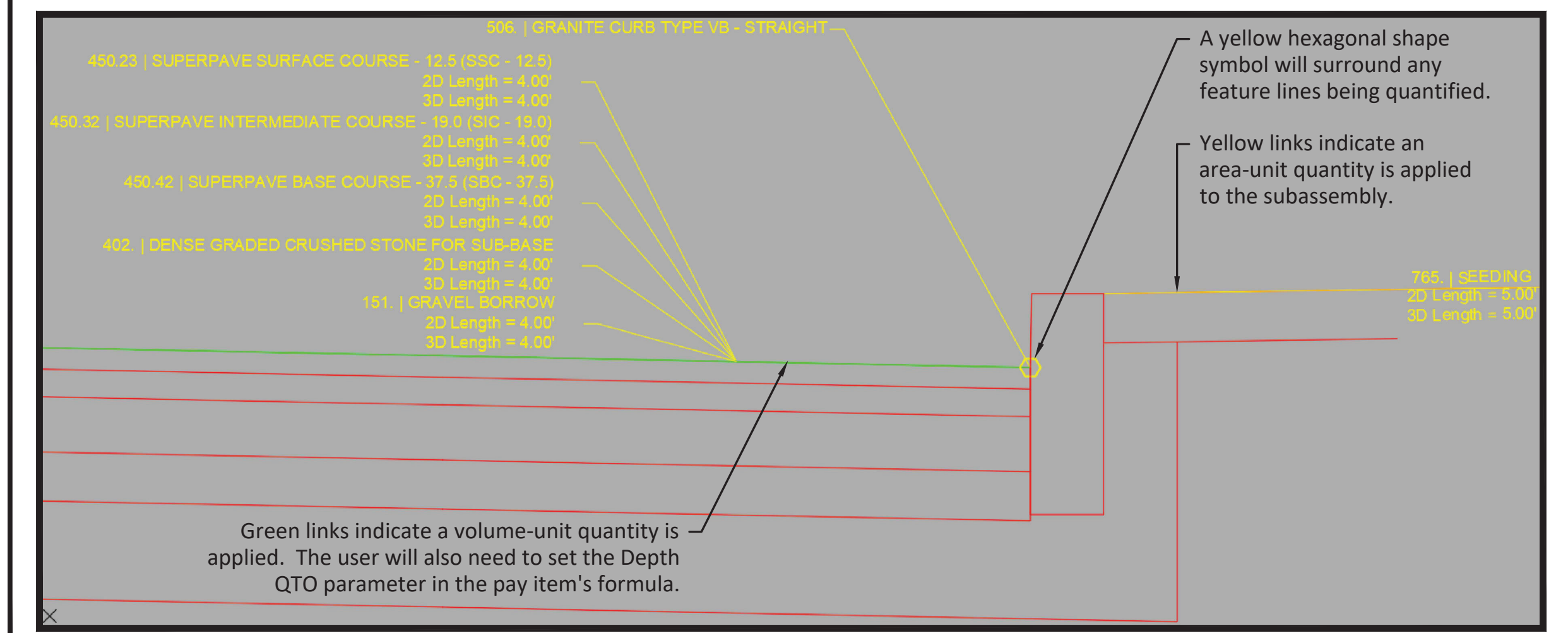
Outside Course 1 edge link shown to indicate the horizontal limit of the material.  
Outside Course 2 shown to indicate horizontal limit of surface course at HMA berm.  
Outside Courses 3 and 4 edge links shown to indicate the horizontal limit of the material.  
Outside Course 5 hidden to indicate to connect with same material at HMA berm.

---BOUNDARY LINK CONTROL---	
Show Inside Course 1 Link?	No
Show Inside Course 2 Link?	Yes
Show Inside Course 3 Link?	Yes
Show Inside Course 4 Link?	Yes
Show Inside Course 5 Link?	Yes
Show Outside Course 1 Link?	Yes
Show Outside Course 2 Link?	No
Show Outside Course 3 Link?	Yes
Show Outside Course 4 Link?	Yes
Show Outside Course 5 Link?	No

Each material edge link in a subassembly has a toggle control to display or hide the link in the subassembly's input parameters.

These input parameters show/hide the inside or outside material edge links for the BoxWidening subassembly at left.

Note the Yes/No values correspond with the visibility of the edge link on the subassembly shown above.



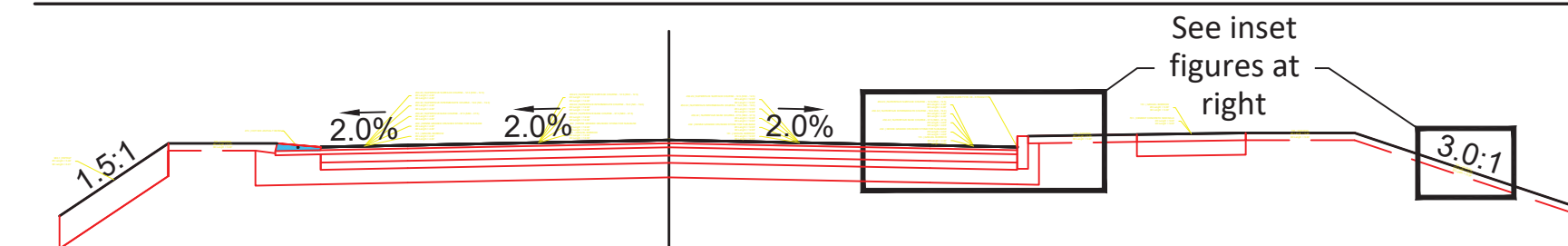
### Subassembly QTO Code Labels and Symbols

Use subassembly QTO code labels and symbols to aid the setup of subassemblies in performing Civil 3D QTO on corridor objects. Identify the correct subassembly setup prior to performing quantity takeoffs and validation of QTO coding setup.

QTO point codes can generate linear quantities and QTO link codes can generate area and material volume quantities.

To generate a material volume quantity, the Civil 3D QTO criteria file must have the MQTO formula file loaded. Each volume item will have a parameter for depth that needs to be set. When a quantity takeoff calculation is performed, Civil 3D uses the depth parameter and link area to calculate a volume. See the MQTO User Guide for more detailed workflow information.

### Section QTO Code Set Styles: Configuring Subassemblies for QTO



FULL DEPTH SECTION ASSEMBLY (SCREEN DISPLAY)

Code Set Style: MassDOT\_MCMT-Section QTO Codes with Labels

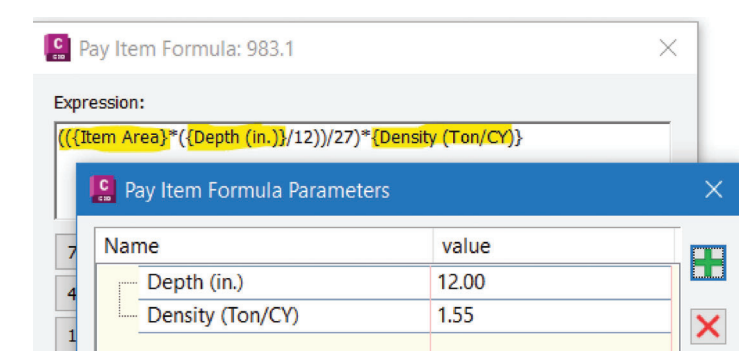
Use the MCMT Section QTO Codes with Labels code set style to set up subassemblies that will perform QTO analysis on corridors.

Once an assembly has the necessary subassemblies attached, the MCMT Section QTO Codes with Labels code set style can be utilized on the assembly to correctly set pay item codes in the attached subassemblies. See the inset plans at right.

Users should first consult the MQTO pay item criteria documentation to identify the proper pay item codes to be applied to each point or link. Shapes are not calculated using pay items. See the MQTO User Guide for more detailed information regarding calculating quantities.

### MassDOT QTO (MQTO) for Corridors Workflow

1. Set assemblies to use the MassDOT\_MCMT-Section QTO Codes with Labels code set style.
2. Assign pay item codes to subassembly points and links.
3. Set the corridor to use MassDOT\_MCMT-Corridor QTO Codes code set style.
4. For any links calculating a volume (green links), configure the Depth and Density parameters in the QTO Manager Formula column for each volume item by Editing the item's formula:

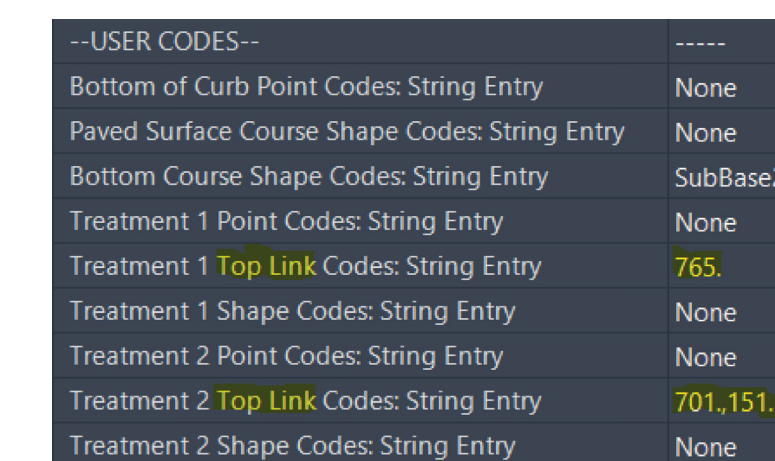
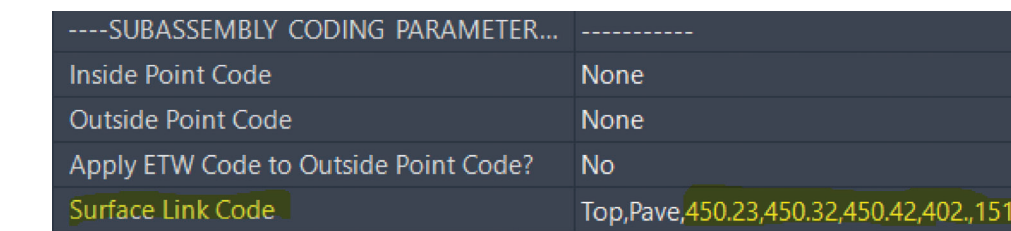


5. Configure takeoff calculation settings and run the Takeoff command.

### Assigning Pay Item Codes to Assemblies

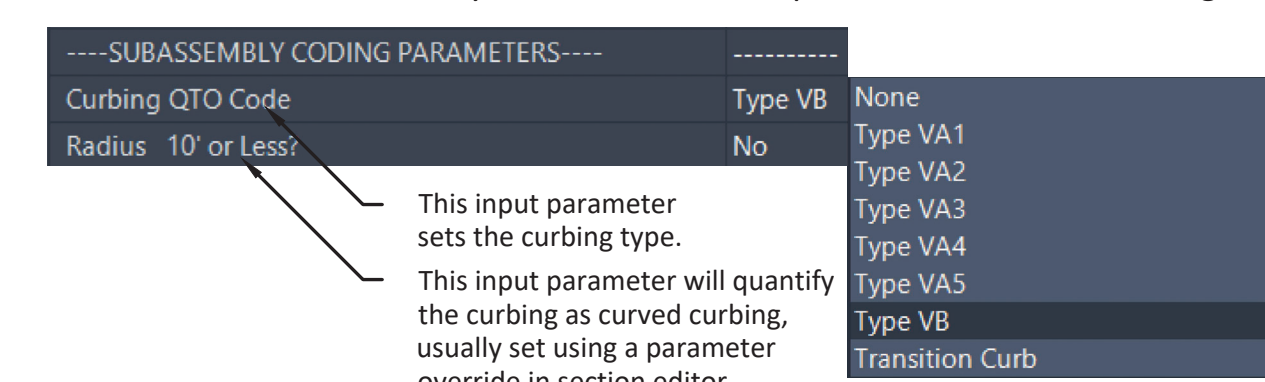
Typically, pay item codes can be entered into the subassembly coding parameters that use string-entry.

Type the pay item number(s) as subassembly codes into the geometry of the applicable subassemblies. Use a comma to delimit codes as shown below:



Other codes are set using dropdowns.

For example, the curbing quantification code is set from the Curbing QTO Code (curbing type) dropdown followed by telling the subassembly if the curb is to be quantified as curved curbing:



### Compare 2D vs. 3D Area

Users can compare 2D and 3D lengths on steep slopes for determining when a 3D calculation is necessary.

On this 3:1 slope a 2D takeoff calculation will not return an accurate quantity.

Steep slopes will not generate the correct quantity based on a 2D projection of its area. For these slopes, the quantity shall be quantified using the 3D slope length.

The labels shown for each link pay item shows the 2D link length and the 3D slope length so users can distinguish any differences in 2D vs. a 3D takeoff.

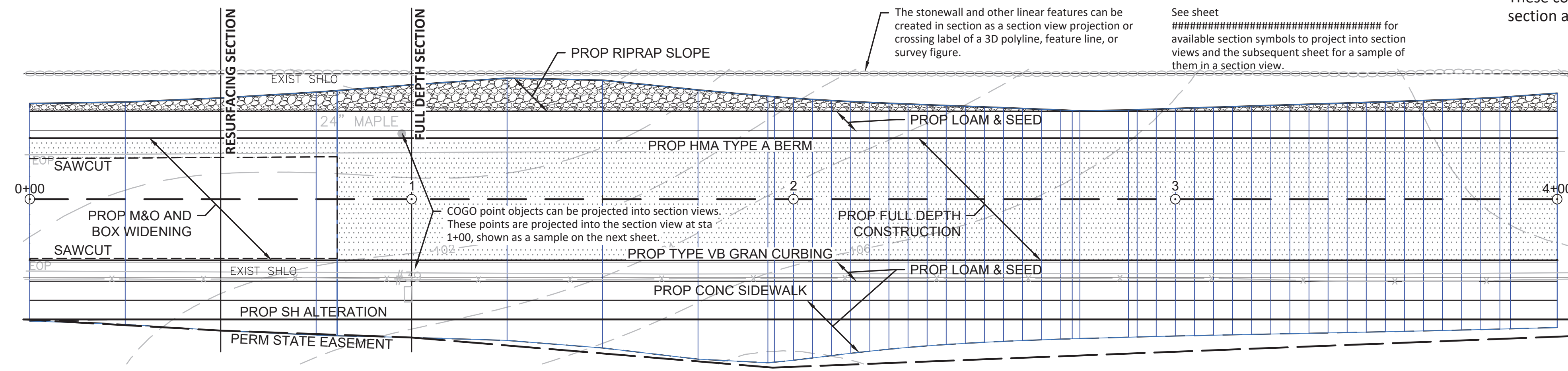
**PLAN-VIEW CORRIDOR STYLES**

These corridor sample styles are developed from the typical section and assemblies developed on the previous sheet.

**Corridor Plan View Styles:**

**Plotting Corridors**

Corridor Style: MassDOT Standard  
Corridor Code Set Style: MassDOT\_MCMT-Corridor Codes



The stonewall and other linear features can be created in section as a section view projection or crossing label of a 3D polyline, feature line, or survey figure.

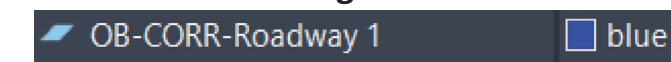
See sheet ##### for available section symbols to project into section views and the subsequent sheet for a sample of them in a section view.

**Viewing Corridor Section Stations**

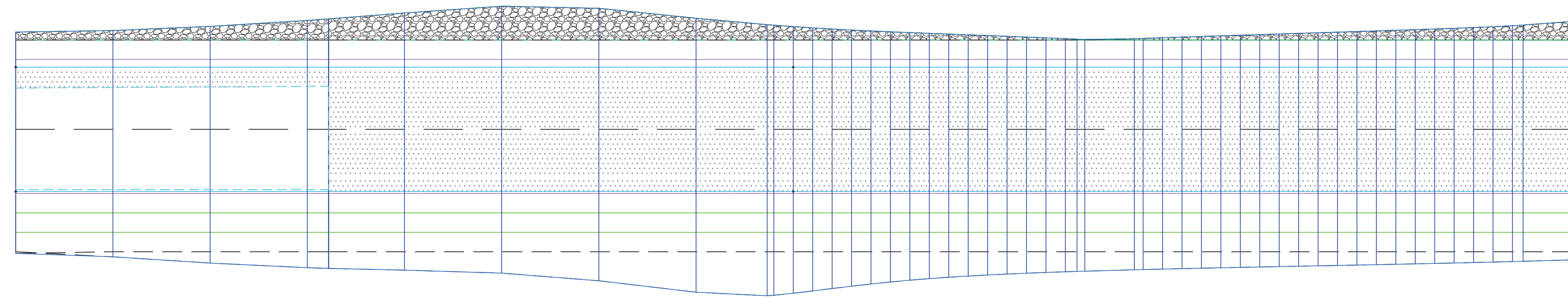
Corridor Style: MassDOT\_Working\_All On  
Corridor Code Set Style: MassDOT\_MCMT-Corridor Codes

The corridor's assembly insertion stations will be shown in the same color as the corridor's object layer.

E.g. If a corridor is placed on an object layer and the color is dark blue, the assembly insertion stations will appear dark blue as shown at right.



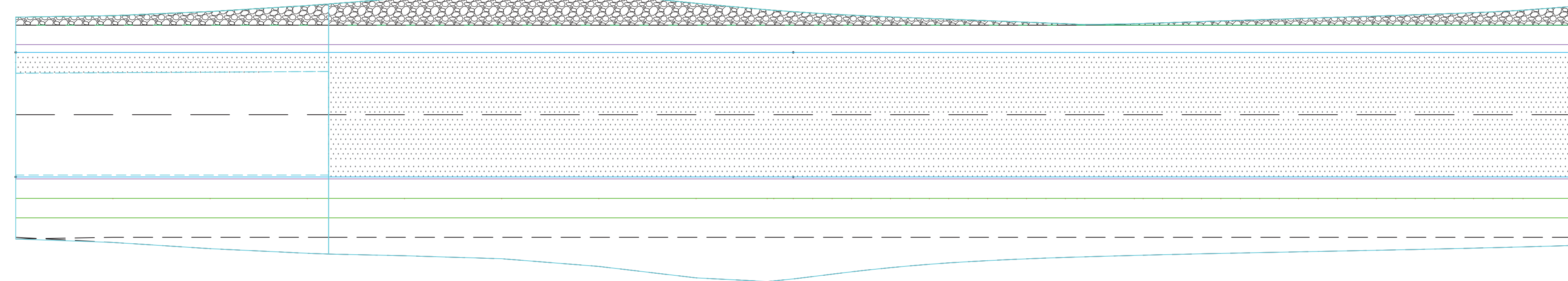
Alternatively, users can leave the MassDOT\_Standard corridor style current and change the code set style to either MassDOT\_MCMT-Assembly Codes or MassDOT\_MCMT-Section QTO Codes to view the assembly insertion stations as a red color.



**Viewing Corridor Region Limits**

Corridor Style: MassDOT\_MassDOT\_Working\_Regions Only  
Corridor Code Set Style: MassDOT\_MCMT-Corridor Codes

The corridor's regions can be isolated to view where roadway sections change and the limits of the corridor. At left the cyan region limit line shows the boundary between the Resurfacing section and the Full Depth section.



**Quantifying Corridors**

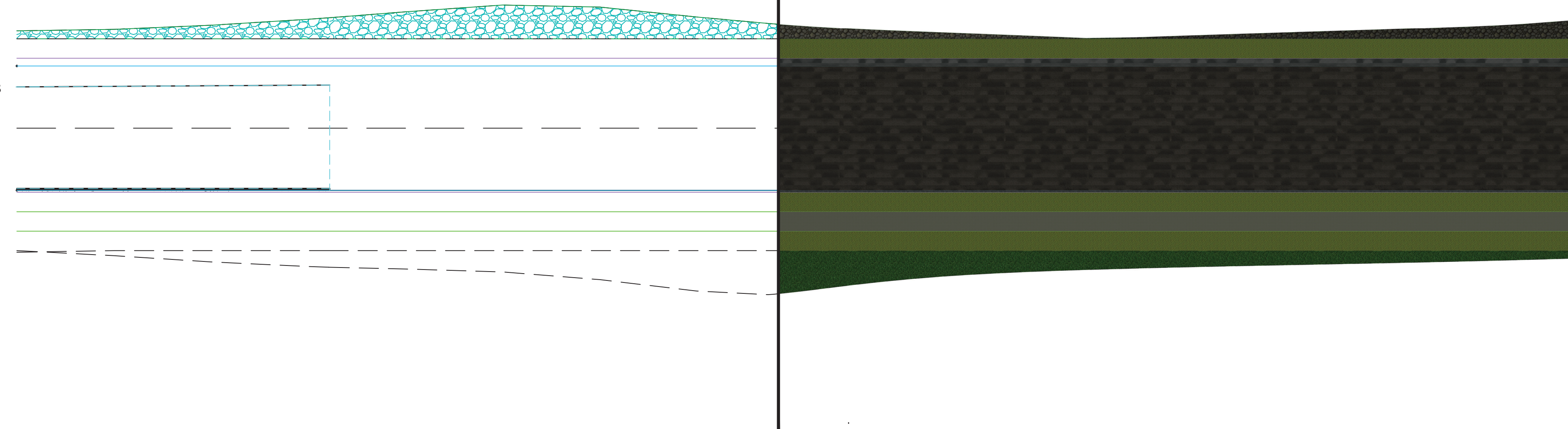
Corridor Style: Any  
Corridor Code Set Style: MassDOT\_MCMT-Corridor QTO Codes

As stated on the previous sheet under the MQTO for Corridors Workflow, step 3, the corridor must be set to MassDOT\_MCMT-Corridor QTO Codes code set style to perform a takeoff on a corridor.

The Corridor QTO Codes style also creates a hatch pattern for each QTO link code so the areas being quantified can be validated more easily.

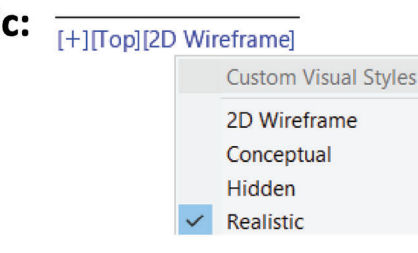
Yellow hatching indicates an area that produces an area quantity.

Green hatching indicates areas that will produce a volume quantity. Dark green indicates paved areas, and any off-pavement areas are indicated with a lighter green.

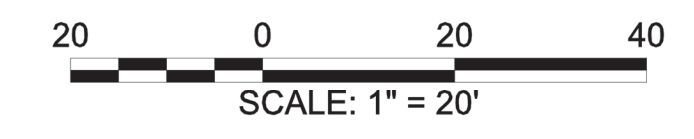


**Visualizing Corridors**

Corridor Style: Any  
Corridor Code Set Style: Any  
Set the Visual Style control to Realistic:



To view the corridor in 3D with the rendered material applied, set the Visual Style control in the upper left corner of a viewport to Realistic.





PIPE AND STRUCTURE STYLES

Plan-View Pipe Styles

	EXISTING PIPE	RECORD LOCATION PIPE	PROPOSED PIPE
<b>DRAINAGE</b>	MassDOT_DRN_EX_Single-Line	MassDOT_DRN_RD_Single-Line	MassDOT_DRN_PR_Single-Line
	MassDOT_DRN_EX_Double-Line	MassDOT_DRN_RD_Double-Line	MassDOT_DRN_PR_Double-Line
<b>Object Layer:</b>	EX-UT-DRAIN-UGND	RD-UT-DRAIN-UGND	PR-UT-DRAIN-UGND

<b>SEWER</b>	MassDOT_SWR_EX_Single-Line	MassDOT_SWR_RD_Single-Line	MassDOT_SWR_PR_Single-Line
	MassDOT_SWR_EX_Double-Line	MassDOT_SWR_RD_Double-Line	MassDOT_SWR_PR_Double-Line
<b>Object Layer:</b>	EX-UT-SEWER-UGND	RD-UT-SEWER-UGND	PR-UT-SEWER-UGND

STANDARD PIPE STYLES

MassDOT_Standard_Single-Line	Standard MassDOT pipe style display pipe components in Plan-view, profile, and section views use the display and plotted appearance of the pipe's object layer (plan and profile views) or the pipe network section object layer.
MassDOT_Standard_Double-Line	

E.g. Modeling existing electric ductbanks using a rectangular pipe object set to MassDOT\_Standard\_Double-Line and placed on object layer EX-UT-ELEC-UGND:



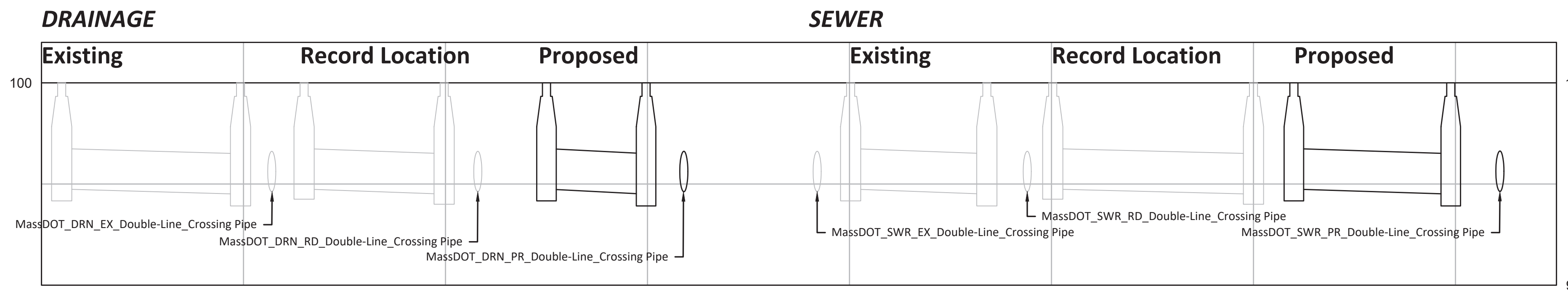
Plan-View Structures Styles

EXISTING STRUCTURES	RECORD LOCATION STRUCTURES	PROPOSED STRUCTURES
<ul style="list-style-type: none"> <li>MassDOT_DRN_EX_DMH</li> <li>MassDOT_DRN_EX_CB</li> <li>MassDOT_DRN_EX_CBCI</li> <li>MassDOT_DRN_EX_CBDB</li> </ul>	<ul style="list-style-type: none"> <li>MassDOT_DRN_RD_DMH</li> <li>MassDOT_DRN_RD_CB</li> <li>MassDOT_DRN_RD_CBCI</li> <li>MassDOT_DRN_RD_CBDB</li> </ul>	<ul style="list-style-type: none"> <li>MassDOT_DRN_PR_DMH</li> <li>MassDOT_DRN_PR_CB</li> <li>MassDOT_DRN_PR_CBCI</li> <li>MassDOT_DRN_PR_CBDB</li> </ul>
<ul style="list-style-type: none"> <li>MassDOT_DRN_EX_CBDF</li> <li>MassDOT_DRN_EX_CBR</li> <li>MassDOT_DRN_EX_DI_SQ</li> </ul>	<ul style="list-style-type: none"> <li>MassDOT_DRN_RD_CBDF</li> <li>MassDOT_DRN_RD_CBR</li> <li>MassDOT_DRN_RD_DI_SQ</li> </ul>	<ul style="list-style-type: none"> <li>MassDOT_DRN_PR_DI_SQ</li> <li>MassDOT_DRN_PR_CI_Structure</li> </ul>
<ul style="list-style-type: none"> <li>EX-UT-DRAIN-STRC</li> </ul>	<ul style="list-style-type: none"> <li>RD-UT-DRAIN-STRC</li> </ul>	<ul style="list-style-type: none"> <li>PR-UT-DRAIN-STRC</li> </ul>
<ul style="list-style-type: none"> <li>MassDOT_SWR_EX_SMH</li> </ul>	<ul style="list-style-type: none"> <li>MassDOT_SWR_RD_SMH</li> </ul>	<ul style="list-style-type: none"> <li>MassDOT_SWR_PR_SMH</li> </ul>
<ul style="list-style-type: none"> <li>EX-UT-SEWER-STRC</li> </ul>	<ul style="list-style-type: none"> <li>RD-UT-SEWER-STRC</li> </ul>	<ul style="list-style-type: none"> <li>PR-UT-SEWER-STRC</li> </ul>

MISCELLANEOUS STRUCTURE STYLES

- MassDOT\_Standard
- MassDOT\_Unknown Pipe End

Profile-View Pipe and Structure Styles

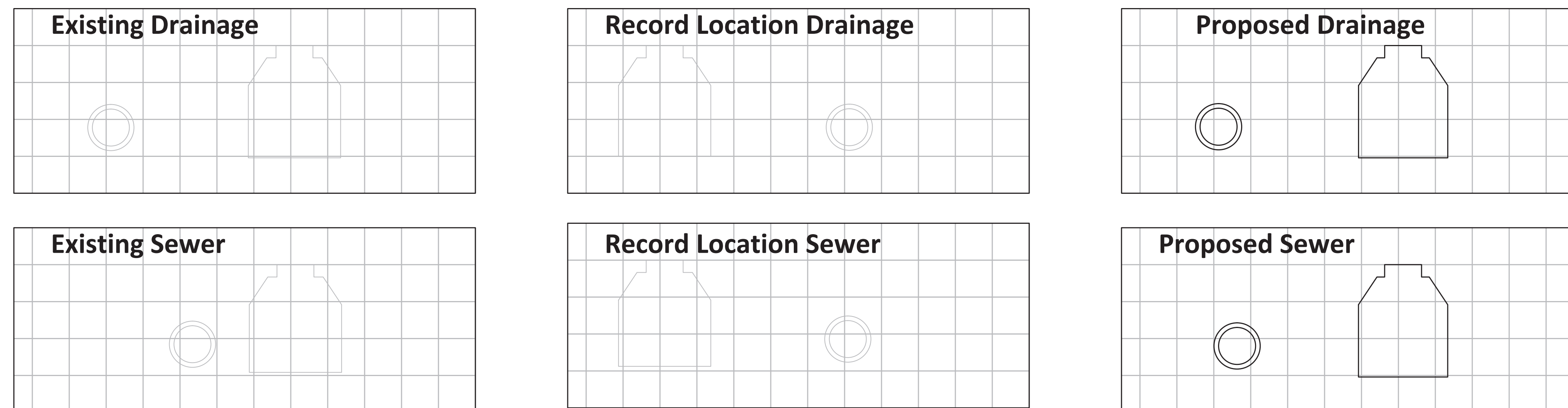


Crossing Pipe Styles

When a pipe in plan-view crosses the profile's alignment, the pipe's style shall be set to use the version of the pipe style suffixed *\_Crossing Pipe*.

The Crossing Pipe version of the pipe style makes the pipe appear in profile-view as the typical ellipse shape usually seen in utility profiles. The invert elevation is placed at the pipe's alignment crossing point elevation.

Section-View Pipe and Structure Styles



NOTE:

Pipe network section objects are always to be created or placed on object layer OB-XSECT-UTIL.

PIPE NETWORK LABEL AND TABLE STYLES

MassDOT Pipe Network Tools Plan-View Label and Table Styles

PLAN-PROFILE PIPE LABEL STYLES: PLAN-VIEW LABELS

- Notes:
- All Plan Profile label styles can be applied to either Drain or Sewer networks. Users must put labels on the correct utility text layers. The pipe and structure properties shall apply the correct values to the pipes and structures regardless of utility type. All examples below use the Drainage utility type. Labels applied to sewer networks will have the word SEWER in place of DRAIN.
  - The Plan-View labels are shown to indicate appearance as pipe diameter changes.

EXISTING PIPE LABELS

MassDOT\_MPNT-Plan\_EX\_D\_M  
PLAN-VIEW LABEL DISPLAY      FLIPPED LABEL DISPLAY      DRAGGED STATE DISPLAY: STACKED TEXT      DRAGGED STATE DISPLAY: ALIGNED

MassDOT\_MPNT-Plan\_EX\_D\_M\_UT  
PLAN-VIEW LABEL DISPLAY      FLIPPED LABEL DISPLAY      DRAGGED STATE DISPLAY: STACKED TEXT      DRAGGED STATE DISPLAY: ALIGNED

MassDOT\_MPNT-Plan\_EX\_D\_UT  
PLAN-VIEW LABEL DISPLAY      FLIPPED LABEL DISPLAY      DRAGGED STATE DISPLAY: STACKED TEXT      DRAGGED STATE DISPLAY: ALIGNED

MassDOT\_MPNT-Plan\_EX\_L\_D\_M  
PLAN-VIEW LABEL DISPLAY      FLIPPED LABEL DISPLAY      DRAGGED STATE DISPLAY: STACKED TEXT      DRAGGED STATE DISPLAY: ALIGNED

MassDOT\_MPNT-Plan\_EX\_L\_D\_UT  
PLAN-VIEW LABEL DISPLAY      FLIPPED LABEL DISPLAY      DRAGGED STATE DISPLAY: STACKED TEXT      DRAGGED STATE DISPLAY: ALIGNED

RECORD LOCATION PIPE LABELS

MassDOT\_MPNT-Plan\_RD\_D\_M  
PLAN-VIEW LABEL DISPLAY      FLIPPED LABEL DISPLAY      DRAGGED STATE DISPLAY: STACKED TEXT      DRAGGED STATE DISPLAY: ALIGNED

MassDOT\_MPNT-Plan\_RD\_D\_M\_UT  
PLAN-VIEW LABEL DISPLAY      FLIPPED LABEL DISPLAY      DRAGGED STATE DISPLAY: STACKED TEXT      DRAGGED STATE DISPLAY: ALIGNED

MassDOT\_MPNT-Plan\_RD\_D\_UT  
PLAN-VIEW LABEL DISPLAY      FLIPPED LABEL DISPLAY      DRAGGED STATE DISPLAY: STACKED TEXT      DRAGGED STATE DISPLAY: ALIGNED

MassDOT\_MPNT-Plan\_RD\_L\_D\_M  
PLAN-VIEW LABEL DISPLAY      FLIPPED LABEL DISPLAY      DRAGGED STATE DISPLAY: STACKED TEXT      DRAGGED STATE DISPLAY: ALIGNED

MassDOT\_MPNT-Plan\_RD\_L\_D\_UT  
PLAN-VIEW LABEL DISPLAY      FLIPPED LABEL DISPLAY      DRAGGED STATE DISPLAY: STACKED TEXT      DRAGGED STATE DISPLAY: ALIGNED

PROPOSED PIPE LABELS

MassDOT\_MPNT-Plan\_PR\_L\_D\_M  
PLAN-VIEW LABEL DISPLAY      FLIPPED LABEL DISPLAY      DRAGGED STATE DISPLAY: STACKED TEXT      DRAGGED STATE DISPLAY: ALIGNED

MassDOT\_MPNT-Plan\_PR\_L\_D\_M\_UT  
PLAN-VIEW LABEL DISPLAY      FLIPPED LABEL DISPLAY      DRAGGED STATE DISPLAY: STACKED TEXT      DRAGGED STATE DISPLAY: ALIGNED

AS-INSERTED DISPLAY      DRAGGED LABEL DISPLAY

STRUCTURE TYPE, RIM, AND INVERTS:

STRUCTURE TYPE AND RIM

AS-INSERTED DISPLAY      DRAGGED LABEL DISPLAY

AS-INSERTED DISPLAY      DRAGGED LABEL DISPLAY

STRUCTURE NAME ONLY: (SEE NOTE 4)

NAME, LOCATION, RIM, AND INVERTS: (DEFAULT)

NAME, RIM, AND INVERTS: (SEE NOTE 4)

- NOTES:
- STYLE SAMPLE SHEET PLOTTED USING MADOT-D.STB PLOTSTYLE TABLE.
  - PLAN STRUCTURE LABELS MUST BE APPLIED ON THE CORRECT UTILITY TEXT LAYER. NO LAYER IS ASSIGNED WITHIN THE STYLE.
  - LABEL POSITION RELATIVE TO THE STRUCTURE IS AT THE DISCRETION OF THE USER. SEE DRAGGED LABEL DISPLAY FIGURES FOR GUIDANCE PLACING LABELS IN CONFINED LOCATIONS.
  - STRUCTURES LABELED USING A STYLE EXCLUDING THE STATION-OFFSET LOCATION MUST BE COMBINED WITH A STRUCTURE TABLE ON THE SAME SHEET INDICATING THE STATION-OFFSET LOCATIONS OF EACH STRUCTURE TO BE CONSTRUCTED OR MODIFIED.

DRAINAGE STRUCTURE DATA						
NO.	TYPE	STATION	RIM ELEV.	INV. ELEV. IN	INV. ELEV. OUT	REMARKS
DMH-67 (1)	PROP DMH	1+30.4 37.7' RT	123.45		I=119.28' (DMH-68 (1))	
DMH-68 (1)	PROP DMH	1+32.9 17.9' RT	123.45	I=119.18' (DMH-67 (1))	I=119.08' (DMH-69 (1))	