



Missouri Department of Transportation

Design MicroStation® CADD Standards

Updated August 1, 2016

Design MicroStation CADD Standards

Table of Contents

Type of Sheet	Pages
General Annotation (Text, Notes, Dimensions, Sheet Labels)	1
Preliminary Strip Maps	2
Graphic Scales, Patterns, & North Arrow	3-4
Title Sheet	5-7
Typical Sections	8
Quantity Sheets	9
Plan Sheets - Geometry	10-26
Plan Sheets - Notes	27-38
Profile Sheets	39-41
Reference Points Sheet	42
Coordinate Points Sheet	42
Traffic Control Sheets	43-77
Erosion Control Sheets	78-79
Lighting Sheets	79-81
Signal Sheets	82-86
Signing Sheets	87-111
Signing Section Sheets	112-113
Cross Sections - Culvert Sheets	114-120

General Notes:

All patterns, text, dimensions, line styles, and some cells are setup to use annotation scale to control the size/scale when they are displayed in the drawing.



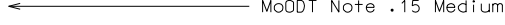
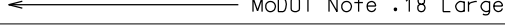
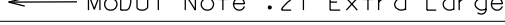
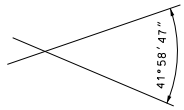
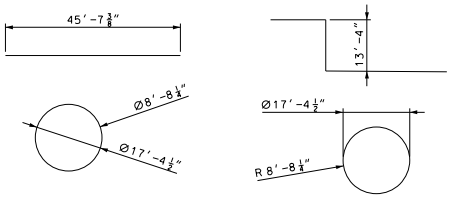
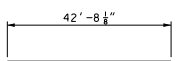
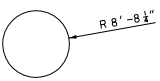
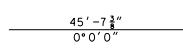
Text & dimensions are also setup using different styles in conjunction with annotation scale to control the height, width, font, arrowhead size, etc.

Annotation scale are based off the standard border sizes that are used inside the MoDOT workflow.

Design MicroStation CADD Standards

General Annotation (Text, Notes, Dimensions, Sheet Labels)

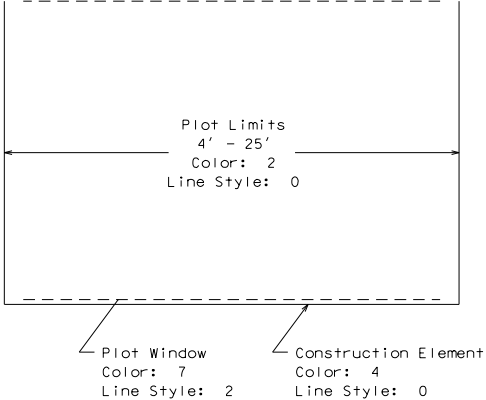
All

Component	Type:	Color:	Level:	Line Style:	Line Weight:					
 MoDOT Note .10 Extra Small	Note	7	Common-Notes	0	1					
 MoDOT Note .12 Small	Note	5	Common-Notes	0	2					
 MoDOT Note .15 Medium	Note	4	Common-Notes	0	4					
 MoDOT Note .18 Large	Note	1	Common-Notes	0	5					
 MoDOT Note .21 Extra Large	Note	2	Common-Notes	0	7					
MoDOT Text .10 Extra Small	Text	7	Common-Notes	0	1					
MoDOT Text .12 Small	Text	5	Common-Notes	0	2					
MoDOT Text .15 Medium	Text	4	Common-Notes	0	4					
MoDOT Text .18 Large	Text	1	Common-Notes	0	5					
MoDOT Text .21 Extra Large	Text	2	Common-Notes	0	7					
General Note	Text	4	Text-General Notes	0	4					
Addendum Date	Text	4	Common-Sheet info	0	3					
Addendum Description	Text	4	Common-Sheet info	0	3					
District No., Sheet No., Route	Text	1	Common-Sheet info	0	4					
Job No., Contract ID, County	Text	4	Common-Sheet info	0	4					
XXXXX SHEET SHEET XX OF XX Standard Sheet Label	Cell	4	Text-General Notes	0	4					
Dimension-Small-Decimal Dimension-Medium-Decimal Dimension-Large-Decimal	Dimension	0	Common-Dimensions	0	2					
Dimension-Small-Fraction Dimension-Medium-Fraction Dimension-Large-Fraction										
Examples of Dimension Types										
 Dimension Angle						Dimension	0	Common-Dimensions	0	2
 Dimension Element	Dimension	0	Common-Dimensions	0	2					
 Dimension Point to Point	Dimension	0	Common-Dimensions	0	2					
 Dimension Radius	Dimension	0	Common-Dimensions	0	2					
 Label Line (Bearings etc)	Dimension	0	Common-Dimensions	0	2					

Design MicroStation CADD Standards

Preliminary Strip Maps


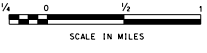

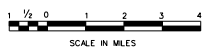
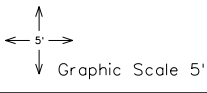
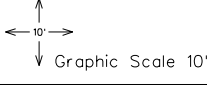

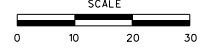
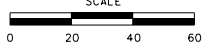
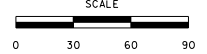
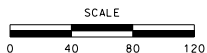
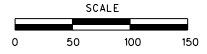
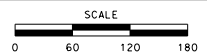
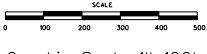

1"=20' to 1"=1000' Strip Maps

Component	Type:	Color:	Level:	Line Style:	Line Weight:
 <p style="text-align: center;">Plot Limits 4' - 25' Color: 2 Line Style: 0</p> <p>Plot Window Color: 7 Line Style: 2</p> <p>Construction Element Color: 4 Line Style: 0</p>	CELL	2,4,7	1	0,2	0
<p>ENGLISH SCALES</p> <p>1" = 20' - 4' - 25'</p> <p>1" = 50' - 4' - 25'</p> <p>1" = 100' - 4' - 25'</p> <p>1" = 200' - 4' - 25'</p> <p>1" = 300' - 4' - 25'</p> <p>1" = 400' - 4' - 25'</p> <p>1" = 500' - 4' - 25'</p> <p>1" = 1000' - 4' - 25'</p>					

Design MicroStation CADD Standards

Graphic Scales, Patterns, & North Arrow



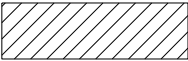

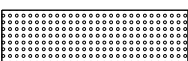
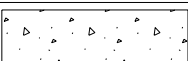

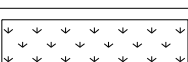
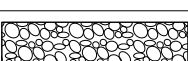


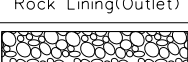

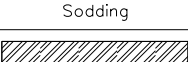
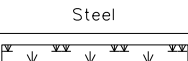
All

Component	Type:	Color:	Level:	Line Style:	Line Weight:
 North Arrow	Cell	2	Common-North Arrow	0	4
 Graphic Scale 1"=1/2 Mile	Cell	0	Common-Graphic scale	0	3
 Graphic Scale 1"=1 Mile	Cell	0	Common-Graphic scale	0	3
 Graphic Scale 1"=2 Mile	Cell	0	Common-Graphic scale	0	3
 Graphic Scale 5'	Cell	1	Common-Graphic scale	0	4
 Graphic Scale 10'	Cell	1	Common-Graphic scale	0	4
 Graphic Scale 20'	Cell	1	Common-Graphic scale	0	4
 Graphic Scale 1"=10'	Cell	0	Common-Graphic scale	0	3
 Graphic Scale 1"=20'	Cell	0	Common-Graphic scale	0	3
 Graphic Scale 1"=30'	Cell	0	Common-Graphic scale	0	3
 Graphic Scale 1"=40'	Cell	0	Common-Graphic scale	0	3
 Graphic Scale 1"=50'	Cell	0	Common-Graphic scale	0	3
 Graphic Scale 1"=60'	Cell	0	Common-Graphic scale	0	3
 Graphic Scale 1"=100'	Cell	0	Common-Graphic scale	0	3
 Graphic Scale 1"=200'	Cell	0	Common-Graphic scale	0	3

Design MicroStation CADD Standards

Graphic Scales, Patterns, & North Arrow

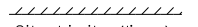
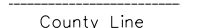

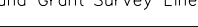


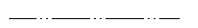
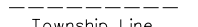

All

Component	Type:	Color:	Level:	Line Style:	Line Weight:
 Class III Excavation (Hatch)	Pattern Area	0	Common-Patterns-hatch	0	1
 Cross Hatch	Pattern Area	0	Common-Patterns-hatch	0	1
 Hatch	Pattern Area	0	Common-Patterns-hatch	0	1
 Removals (Hatch)	Pattern Area	0	Pattern-Removals	0	1
 ADA Truncated Domes	Pattern Area	7	Common-Patterns-hatch	0	1
 Concrete	Pattern Area	0	Common-Patterns-hatch	0	1
 Earth	Pattern Area	8	Common-Patterns-hatch	0	1
 Grass	Pattern Area	4	Common-Patterns-hatch	0	1
 Rock	Pattern Area	0	Common-Patterns-hatch	0	1
 Rock Blanket	Pattern Area	0	Pattern-Rock Blanket	0	1
 Rock Lining(Outlet)	Pattern Area	0	Pattern-Rock Lining(Outlet)	0	1
 Rock Ditch Liner	Pattern Area	0	Pattern-Rock Ditch Liner	0	1
 Sodding	Pattern Area	4	Common-Patterns-hatch	0	1
 Steel	Pattern Area	1	Common-Patterns-hatch	0	1
 Swamp	Pattern Area	23	Common-Patterns-hatch	0	1

Design MicroStation CADD Standards


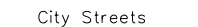
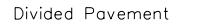
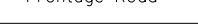
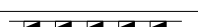


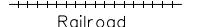
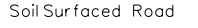
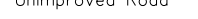

Title Sheet

Lines (Misc.)

Component	Type:	Color:	Level:	Line Style:	Line Weight:
 City Limits (lines)	Linear	5	Title-Location sketch	Custom	2
 County Line	Linear	20	Title-Location sketch	Custom	2
 Drainage Ditch Line	Linear	52	Title-Location sketch	Custom	2
 Land Grant Survey Line	Linear	7	Title-Location sketch	Custom	1
 Section Line	Linear	10	Title-Location sketch	0	2
 State Line	Linear	10	Title-Location sketch	Custom	4
 Stream Banks	Linear	23	Title-Location sketch	0	1
 Stream Intermittent	Linear	23	Title-Location sketch	Custom	1
 Township Line	Linear	10	Title-Location sketch	Custom	1

Title Sheet

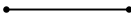

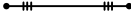
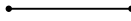


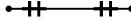
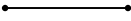


Lines (Road)

Component	Type:	Color:	Level:	Line Style:	Line Weight:
 Bituminous Road	Linear	0	Title-Location sketch	Custom	2
 City Streets	Linear	0	Title-Location sketch	0	1
 Divided Pavement	Linear	0	Title-Location sketch	Custom	4
 Frontage Road	Linear	0	Title-Location sketch	0	2
 Graded & Drained Road	Linear	1	Title-Location sketch	Custom	1
 Gravel or Stone Road	Linear	1	Title-Location sketch	Custom	1
 Paved Road	Linear	0	Title-Location sketch	Custom	2
 Private Road	Linear	1	Title-Location sketch	Custom	4
 Railroad	Linear	0	Title-Location sketch	Custom	2
 Soil Surfaced Road	Linear	8	Title-Location sketch	Custom	1
 Unimproved Road	Linear	1	Title-Location sketch	Custom	1

Design MicroStation CADD Standards

Title Sheet










Notes

Component		Type:	Color:	Level:	Line Style:	Line Weight:
Controlled Access Highway	<p style="text-align: center;">CONTROLLED ACCESS HIGHWAY</p> <p>THIS SHALL BE A CONTROLLED ACCESS HIGHWAY, BETWEEN STA. + . . . EXCEPT AT LOCATIONS AND AS OTHERWISE SPECIFICALLY SHOWN ON THESE PLANS, NO ABUTTER'S RIGHTS IN OR OF DIRECT ACCESS TO, FROM, OR ACROSS THE HIGHWAY OR ITS RIGHT-OF-WAY SHALL ATTACH OR BELONG TO ANY PROPERTY ABUTTING ON SAID SECTION OF HIGHWAY, OR TO ANY PERSON MERELY BECAUSE OF OWNERSHIP OF SUCH ABUTTING PROPERTY. THERE SHALL BE THE USUAL RIGHT OF ACCESS OVER ANY LOCATION SHOWN ON THESE PLANS EITHER AS (1) AN ENTRANCE OR (2) A PRIVATE UNDERPASS, WHEREVER AN ADJACENT OUTER ROADWAY OR SERVICE ROAD IS SHOWN. THERE SHALL BE THE USUAL RIGHT OF DIRECT ACCESS BETWEEN THE ABUTTING PROPERTY AND SUCH OUTER ROADWAY OR SERVICE ROAD (EXCEPT WHERE ACCESS IS SPECIFICALLY PROHIBITED BY THE SPECIAL SYMBOL DENOTING NO RIGHT OF ACCESS) AND ALONG IT TO AND FROM THE NEAREST LANE OF THE THROUGHWAY OF A PUBLIC HIGHWAY. OUTER ROADWAYS AND SERVICE ROADS, AS THE CASE MAY BE, ARE SO DESIGNATED ON THE PLANS.</p> <p>  BEGINNING AND ENDING OF CONTROLLED ACCESS  CONTROLLED ACCESS  NO RIGHT OF ACCESS OR CROSSING OF LINES BEARING THIS SYMBOL WILL BE PERMITTED UNDER ANY CIRCUMSTANCES. </p>	Cell		Text-Existing rw label		
Controlled Access FullHighway	<p style="text-align: center;">FULLY CONTROLLED ACCESS HIGHWAY</p> <p>THIS SHALL BE A FULLY CONTROLLED ACCESS HIGHWAY BETWEEN STA. + AND STA. + . . . NO ABUTTING OWNER SHALL HAVE THE RIGHT OF DIRECT ACCESS TO SAID HIGHWAY OR ITS RIGHT-OF-WAY EXCEPT THAT ACCESS WILL BE PERMITTED TO ANY ADJACENT OUTER ROADWAY OR SERVICE ROAD TO WHICH ACCESS IS NOT SPECIFICALLY PROHIBITED BY THE SPECIAL SYMBOL DENOTING "NO RIGHT OF ACCESS" AS SHOWN ON THE PLANS. NO ACCESS WILL BE PERMITTED FROM OUTER ROADWAYS AND SERVICE ROADS TO THROUGHWAYS EXCEPT ALONG ROUTES CONSTRUCTED FOR THAT PURPOSE. OUTER ROADWAYS AND SERVICE ROADS, AS THE CASE MAY BE, ARE SO DESIGNATED ON THE PLANS.</p> <p>  BEGINNING AND ENDING OF CONTROLLED ACCESS  CONTROLLED ACCESS  NO RIGHT OF ACCESS OR CROSSING OF LINES BEARING THIS SYMBOL WILL BE PERMITTED UNDER ANY CIRCUMSTANCES.  TEMPORARY ACCESS THROUGH FUTURE NO RIGHT OF ACCESS </p>	Cell		Text-New rw label		
Controlled Access PartialHighway	<p style="text-align: center;">PARTIAL CONTROLLED ACCESS HIGHWAY</p> <p>THIS SHALL BE A PARTIAL CONTROLLED ACCESS HIGHWAY, EXCEPT AT LOCATIONS AND AS OTHERWISE SPECIFICALLY SHOWN ON THESE PLANS, NO ABUTTER'S RIGHTS IN OR OF DIRECT ACCESS TO, FROM, OR ACROSS THE HIGHWAY OR ITS RIGHT-OF-WAY SHALL ATTACH OR BELONG TO ANY PROPERTY ABUTTING ON SAID SECTION OF HIGHWAY, OR TO ANY PERSON MERELY BECAUSE OF OWNERSHIP OF SUCH ABUTTING PROPERTY WHERE THE SYMBOL SHOWN BELOW IS SHOWN ON THE RIGHT-OF-WAY LINE.</p> <p>  BEGINNING AND ENDING OF CONTROLLED ACCESS  CONTROLLED ACCESS  NO RIGHT OF ACCESS OR CROSSING OF LINES BEARING THIS SYMBOL WILL BE PERMITTED UNDER ANY CIRCUMSTANCES. </p>	Cell		Text-New rw label		

Design MicroStation CADD Standards

Title Sheet


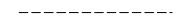

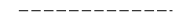

Misc. Symbols

Component	Type:	Color:	Level:	Line Style:	Line Weight:
 Bridge	Cell	99	Title-Location sketch	0	1
 Limits Arrow	Cell	0	Common-Dimensions	0	2
 Safe & Sound Logo	Cell	0	Common-Misc Details	0	1
 Shield-US Highway	Cell	0	Roadway-Signs	0	2
 Shield-MO Highway	Cell	0	Roadway-Signs	0	2
 Shield-Interstate	Cell	0	Roadway-Signs	0	2
 Shield-Interstate MO	Cell	0	Roadway-Signs	0	2
 Shield-Interstate Bus. Loop	Cell	0	Roadway-Signs	0	2
 Lettered Route	Cell	0	Roadway-Signs	0	2

Design MicroStation CADD Standards








Typical Sections

Lines

Component	Type:	Color:	Level:	Line Style:	Line Weight:
 Center Line of Roadway	Linear	20	Typical_Section-New line	4	4
 Misc. Detail Line (Exist.)	Linear	4	Common-Misc details	2	2
 Misc. Detail Line (New)	Linear	1	Common-Misc details	0	2
 Typical Line (Exist.)	Linear	4	Typical_Section-Existing line	2	2
 Typical Line (New)	Linear	1	Typical_Section-New line	0	2

Typical Sections



Misc. Symbols

Component	Type:	Color:	Level:	Line Style:	Line Weight:
 Channelizer (cone)	Cell	Var	Traffic Control-Channelizers	0	2
 Channelizer (Drum-Like)	Cell	Var	Traffic Control-Channelizers	0	2
 Channelizer (Trim-Like)	Cell	Var	Traffic Control-Channelizers	0	2
 Directional Indicator Barricades (Lt.)	Cell	Var	Traffic Control-Barricades	0	2
 Directional Indicator Barricades (Rt.)	Cell	Var	Traffic Control-Barricades	0	2
 Guardrail Section	Cell	99	Roadway - Safety	0	2
 Traffic Barrier	Cell	40	Traffic_Control-Traffic barriers	0	1

Design MicroStation CADD Standards

Quantity Sheets


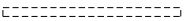
Lines (grid)

Component	Type:	Color:	Level:	Line Style:	Line Weight:
 Grid Lines - Inside	Linear	5	Grid_Line-Main	0	2
 Grid Lines - Outside	Linear	1	Grid_Line-Main	0	5

Design MicroStation CADD Standards







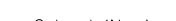

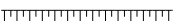



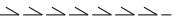
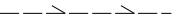


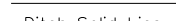

Plan Sheets - Geometry

CMP-RCP Pipes

Component	Type:	Color:	Level:	Line Style:	Line Weight:
 CMP/RCP New 12" - 84"	Multi-line	31	Drainage-Structures	Custom	1
 CMP/RCP Exist 12" - 84"	Multi-line	31	Drainage-Structures	Custom	1

Plan Sheets - Geometry


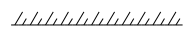
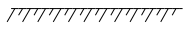


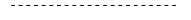


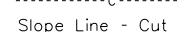
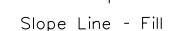


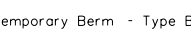
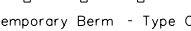
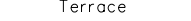
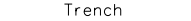
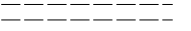

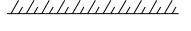
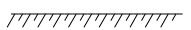
Drainage

Component	Type:	Color:	Level:	Line Style:	Line Weight:
 Ditch Block	Cell	52	Roadway-Ditches	0	1
 Drain Marker	Cell	5	Drainage-Structures	0	1
 Flow Arrow	Cell	52	Roadway-Ditches	0	2
 Bridge Channel	Linear	95	Drainage-Structures	0	3
 Concrete Basin	Linear	95	Drainage-Structures	Dash 3	1
 Culvert (Exist.)	Linear	95	Drainage-Structures	Dash 1	1
 Culvert (New)	Linear	95	Drainage-Structures	0	2
 Dam - In	Linear	52	Roadway-Ditches	Custom	4
 Dam - Out	Linear	52	Roadway-Ditches	Custom	4
 Ditch - In	Linear	39	Roadway-Ditches	0	4
 Ditch - Out	Linear	40	Roadway-Ditches	0	4
 Ditch - Flow Line	Linear	52	Roadway-Ditches	Custom	2
 Ditch - Special V	Linear	52	Roadway-Ditches	Custom	2
 Ditch - Standard V	Linear	52	Roadway-Ditches	Custom	2
 Ditch - Flat Bottom Line For Tapers	Linear	52	Roadway-Ditches	Dash 5	2
 Ditch - Interception Line For Tapers	Linear	52	Roadway-Ditches	0	2
 Ditch Solid Line For Tapers	Linear	52	Roadway-Ditches	0	2
 Drainage - Perm. Esmt.	Linear	2	Roadway-Permanent easement	Dash 6	4

Design MicroStation CADD Standards

Plan Sheets - Geometry









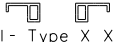







Drainage (Cont.)

Component	Type:	Color:	Level:	Line Style:	Line Weight:
 Ford	Linear	31	Roadway-Ditches	Dash 5	2
 Levee - In	Linear	52	Roadway-Levee	Custom	2
 Levee - Out	Linear	52	Roadway-Levee	Custom	2
 Paved Ditch (Exist.)	Linear	124	Survey-Ditches	Dash 4	1
 Paved Ditch (New)	Linear	52	Roadway-Ditches	0	2
 PVC	Linear	95	Drainage-Structures	Dash 1	1
 Ridge Line	Linear	52	Roadway-Slope Arrow	Dash 6	1
 Slope Line	Linear	53	Roadway-Slope lines	Dash 1	2
 Slope Line - Cut	Linear	53	Roadway-Slope lines	Custom	2
 Slope Line - Fill	Linear	53	Roadway-Slope lines	Custom	2
 Special Ditch - Left	Linear	52	Scratch-5	0	2
 Special Ditch - Right	Linear	52	Scratch-5	0	2
 Temporary Berm - Type B	Linear	52	Roadway-Berm line	Custom	2
 Temporary Berm - Type C	Linear	52	Roadway-Berm line	Custom	2
 Terrace	Linear	52	Roadway-Ditches	Dash 6	2
 Trench	Linear	52	Roadway-Ditches	Dash 5	2
 Ditch - Exist. Flat Bottom (4'-10')	Mult-Line	52	Survey-Ditches	Custom	2
 Ditch - Interception (4'-10')	Mult-Line	52	Roadway-Ditches	Custom	2
 Levee - Interception (4'-10')	Mult-Line	52	Roadway-Levee	Custom	2
 Levee w/ Interception (4'-10')	Mult-Line	52	Roadway-Levee	Custom	2

Design MicroStation CADD Standards

Plan Sheets - Geometry























Drop Inlets

Component	Type:	Color:	Level:	Line Style:	Line Weight:
 Grate	Linear	0	Drainage-Structures	0	2
 Drop Inlets <small>(2x2) (3x2) (3x3) (4x2) (5x2) (5x3)</small>	Cell	31	Drainage-Structures	0	1
 DI -Type D Single	Cell	31	Drainage-Structures	0	1
 DI -Type D Double	Cell	31	Drainage-Structures	0	1
 DI -Type D Triple	Cell	31	Drainage-Structures	0	1
 DI -Type D Quad	Cell	31	Drainage-Structures	0	1
 DI -Type T	Cell	31	Drainage-Structures	0	1
 DI - Type X X2 (L & R)	Cell	31	Drainage-Structures	0	1
 DI - Type X X5 (L & R)	Cell	31	Drainage-Structures	0	1
 DI - Type X X7 (L & R)	Cell	31	Drainage-Structures	0	1
 Drop Inlet	Cell	31	Drainage-Structures	0	1
 Manhole	Cell	31	Drainage-Structures	0	1
 4' Manhole	Cell	31	Drainage-Structures	0	1
 5' Manhole	Cell	31	Drainage-Structures	0	1
 6' Manhole	Cell	31	Drainage-Structures	0	1
 Manhole - Storm Sewer	Cell	18	Utility-Storm sewer	0	1

Design MicroStation CADD Standards

Plan Sheets - Geometry













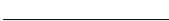
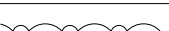

Environmental

Component	Type:	Color:	Level:	Line Style:	Line Weight:
 Brick	Cell	56	Archeology-Brick	0	1
 Burned Earth	Cell	2	Archeology-Burned earth-fireplace	0	1
 Ceramic Items (other)	Cell	7	Archeology-Ceramic-other	0	1
 Ceramic Stoneware	Cell	13	Archeology-Ceramic-stoneware	0	1
 Ceramic Whiteware	Cell	11	Archeology-Ceramic-whiteware	0	1
 Conifer	Cell	4	Environmental-New trees	0	1
 Core	Cell	5	Archeology-Core	0	1
 Debitage	Cell	5	Archeology-Debitage-flake chip	0	1
 Fauna	Cell	52	Archeology-Fauna-animal remains	0	1
 Fire Cracked Rock	Cell	2	Archeology-Fire cracked rock	0	1
 Floral	Cell	4	Archeology-Floral	0	1
 Foundation	Cell	56	Archeology-Foundation	0	1
 Glass Flat	Cell	103	Archeology-Flat glass	0	1
 Glass Items (other)	Cell	103	Archeology-Other glass	0	1
 Historic General 1	Cell	4	Archeology-Historic general 1	0	1
 Historic General 2	Cell	2	Archeology-Historic general 2	0	1
 Historic General 3	Cell	3	Archeology-Historic general 3	0	1
 Human Bones	Cell	20	Archeology-Human remains	0	1
 Large Tree	Cell	4	Environmental-New trees	0	1
 Metal Items	Cell	10	Archeology-Metal	0	1
 Nail	Cell	16	Archeology-Nail	0	1
 Point (arrow head)	Cell	6	Archeology-Point-arrowhead	0	1

Design MicroStation CADD Standards

Plan Sheets - Geometry



Environmental (Cont.)

Component	Type:	Color:	Level:	Line Style:	Line Weight:
 Pottery	Cell	8	Archeology-Pottery	0	1
 Prehistoric General	Cell	4	Archeology-Prehistoric general 1	0	1
 Prehistoric General	Cell	2	Archeology-Prehistoric general 2	0	1
 Prehistoric General	Cell	3	Archeology-Prehistoric general 3	0	1
 Retouched Utilized	Cell	3	Archeology-Retouched-utilized	0	1
 Shovel Auger Posthole	Cell	0	Archeology-Shovel-auger-posthole test	0	1
 Small Tree	Cell	4	Environmental-New trees	0	1
 Tool (chipped)	Cell	6	Archeology-Tool-chipped	0	1
 Tool (ground stone)	Cell	6	Archeology-Tool-ground stone	0	1
 Uniface	Cell	2	Archeology-Uniface	0	1
 Unmodified Rock	Cell	6	Archeology-Unmodified rock	0	1
 Archaeological	Linear	99	Environmental-Geometry	0	1
 Historical Structure	Linear	11	Environmental-Geometry	0	4
 Timber Line	Linear	4	Environmental-New trees	Custom	2
 Wetland Boundary	Linear	17	Environmental-Geometry	Dash 5	4

Design MicroStation CADD Standards

Plan Sheets - Geometry

Flared End Section (Metal)

 FES 12"-84"	Cell	31	Drainage-Structures	0	1
 Pipe Collar 12"-72"	Cell	31	Drainage-Structures	0	1


Plan Sheets - Geometry

Flared End Section (Concrete)

 FES 12"-84"	Cell	31	Drainage-Structures	0	1
--	------	----	---------------------	---	---

Plan Sheets - Geometry

Flared End Section (Safety Slope)

 FES 12"-60" (4:1, 6:1, 10:1)	Cell	31	Drainage-Structures	0	1
--	------	----	---------------------	---	---

Plan Sheets - Geometry











Property

Component	Type:	Color:	Level:	Line Style:	Line Weight:
----- Building	Linear	14	Survey-Buildings	Dash 2	1
..... Cellar	Linear	14	Survey-Private survey	Dash 1	1
_____ Conc. Misc.	Linear	48	Survey-Private survey	0	4
____v_____ Fence Chain Link	Linear	4	Survey-Fences	Custom	1
____x_____ Fence Woven Wire	Linear	4	Survey-Fences	Custom	1
----- Foundation	Linear	48	Survey-Private survey	Dash 2	2
----- House	Linear	14	Survey-Property Line	Dash 2	2
_____ Liquid Propane Tank	Linear	28	Survey-Private survey	0	1
----- Overhang	Linear	14	Survey-Buildings	Dash 2	2
..... Stock Pile	Linear	112	Survey-Private survey	1	1
_____ Pool (Swimming)	Linear	23	Survey-Private survey	0	2
..... Tank	Linear	0	Survey-Private survey	Dash 1	1
----- Trail	Linear	8	Survey-Public survey	Dash 3	4

Design MicroStation CADD Standards

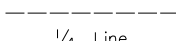
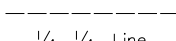
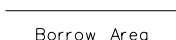
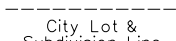
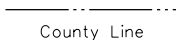
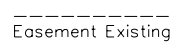
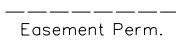
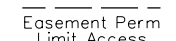
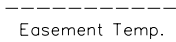
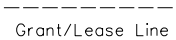
Plan Sheets - Geometry

Property (Cont.)

Component	Type:	Color:	Level:	Line Style:	Line Weight:
 Bus Stop	Cell	0	Roadway-Signs	0	1
 Cave	Cell	8	Property-Public	Dash 2	1
 Flag Pole	Cell	1	Survey-Miscellaneous roadside	0	1
 Gate Post	Cell	4	Property-Fences	0	1
 Grave	Cell	144	Survey-public property	0	1
 Mailbox	Cell	59	Survey-Miscellaneous roadside	0	1
 Mine	Cell	5	Property-Private	0	1
 Satellite	Cell	15	Survey-Miscellaneous roadside	0	1
 Tower	Cell	15	Utility-Pole	0	1
 Wood Post	Cell	4	Lighting_Signals-Equipment	0	1

Plan Sheets - Geometry



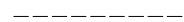

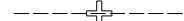

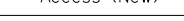
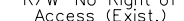

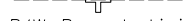


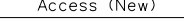







Right of Way

Component	Type:	Color:	Level:	Line Style:	Line Weight:
 1/4 Line	Linear	16	Roadway-Land lines	Dash 6	4
 1/4 1/4 Line	Linear	16	Roadway-Land lines	Dash 6	4
 Borrow Area	Linear	8	Roadway-Rural land use	0	4
 City Lot & Subdivision Line	Linear	5	Roadway-Land lines	Dash 4	4
 County Line	Linear	10	Roadway-Land lines	Custom	5
 Easement Existing	Linear	6	Roadway-Existing easement	Dash 4	2
 Easement Perm.	Linear	2	Roadway-Permanent easement	Dash 6	4
 Easement Perm Limit Access	Linear	2	Roadway-Permanent easement	Custom	6
 Easement Temp.	Linear	6	Roadway-Temporary easement	Dash 4	2
 Grant/Lease Line	Linear	5	Roadway-Land lines	Dash 4	4

Design MicroStation CADD Standards

Plan Sheets - Geometry










Right of Way (Cont.)

Component	Type:	Color:	Level:	Line Style:	Line Weight:
 Latitude/Longitude Line	Linear	9	Roadway-Land lines	0	1
 Property Line	Linear	5	Roadway-Land lines	Dash 5	2
 R/W Line (Exist.)	Linear	6	Roadway-Existing rw	Dash 4	4
 R/W Line (New)	Linear	2	Roadway-New rw	0	6
 R/W Controlled Access (Exist.)	Linear	6	Roadway-Existing rw	Custom	4
 R/W Controlled Access (New)	Linear	2	Roadway-New rw	Custom	6
 R/W No Right of Access (Exist.)	Linear	6	Roadway-Existing rw	Custom	4
 R/W No Right of Access (New)	Linear	2	Roadway-New rw	Custom	6
 R/W Property Limit Access (Exist.)	Linear	6	Roadway-Existing rw	Custom	4
 R/W Temporary Access (Exist.)	Linear	6	Roadway-Existing rw	Custom	4
 R/W Temporary Access (New)	Linear	2	Roadway-New rw	Custom	6
 Section Line	Linear	10	Roadway-Land lines	Dash 6	5
 State Line	Linear	10	Roadway-Land lines	Custom	5
 Township/Range Line	Linear	10	Roadway-Land lines	Custom	5
 US Survey Line	Linear	16	Roadway-Land lines	Dash 6	2
 Landcorner	Cell	5	Survey-Private survey	0	2
 Property Pin	Cell	5	Survey-Public survey	0	2
 Property Tie	Cell	5	Roadway-Land lines	0	2
 R/W Controlled Access Symbol (Exist.)	Cell	6	Roadway-Existing rw	0	1
 R/W Controlled Access Symbol (New)	Cell	51	Roadway-New rw	0	9

Design MicroStation CADD Standards





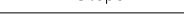
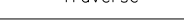



Plan Sheets - Geometry

Property (Cont.)

Component	Type:	Color:	Level:	Line Style:	Line Weight:
 R/W Location Survey Marker (Exist.)	Cell	6	Survey-Public survey	0	2
 R/W Location Survey Marker (New)	Cell	6	Survey-Public survey	0	2
 R/W Marker Concrete (Exist.)	Cell	6	Survey-Public survey	0	2
 R/W Marker Copper (Exist.)	Cell	6	Survey-Public survey	0	2
 R/W Marker Steel (Exist.)	Cell	6	Survey-Public survey	0	2
 R/W Controlled Access Symbol (Exist.)	Cell	6	Roadway-Existing rw	0	2
 R/W Controlled Access Symbol (New)	Cell	51	Roadway-New rw	0	9
 Exist. Terminal Point Symbol	Cell	22	Roadway-Existing rw	0	2
 New Terminal Point Symbol	Cell	2	Roadway-New rw	0	2

Plan Sheets - Geometry
























Roadside

Component	Type:	Color:	Level:	Line Style:	Line Weight:
 Landscaping	Linear	4	Environmental-Landscaping	0	3
 Sidewalk (Exist.)	Linear	1	Survey-Sidewalks	Dash 1	2
 Sidewalk (New)	Linear	1	Roadway-Sidewalks	0	2
 Steps	Linear	1	Roadway-Sidewalks	0	2
 Traverse	Linear	5	Survey-Field notes	Dash 2	2
 Wheelchair Ramp	Linear	1	Roadway-Sidewalks	0	2
 Benchmark	Cell	10	Survey - Miscellaneous Roadside	0	0
 GRS Monument	Cell	10	Roadway - New R/W	0	0
 Gage Station	Cell	10	Survey - Miscellaneous Roadside	0	1

Design MicroStation CADD Standards

Plan Sheets - Geometry

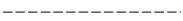

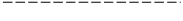



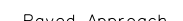


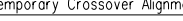
Roadway

Component	Type:	Color:	Level:	Line Style:	Line Weight:
 Baseline Ramp Alignment	Linear	20	Roadway-Centerline other	0	6
 Berm Line (New)	Linear	52	Roadway-Berm line	0	4
 Break Line	Linear	5	Common-Misc details	Custom	4
 Bridge	Linear	7	Roadway-Safety	0	6
 Bridge (Exist.)	Linear	109	Roadway-Safety	Dash 3	1
 CL Main Line Alignment	Linear	20	Roadway-Centerline main	0	6
 CL Main Line Alignment (Exist)	Linear	5	Roadway-Centerline other	Dash 6	1
 CL Side Road Alignment	Linear	20	Roadway-Centerline other	0	6
 Construction Joint	Linear	0	Roadway-Saw cut line	Dash 2	2
 Curb	Linear	11	Roadway-Curbs and or gutters	0	4
 Curb (Exist.)	Linear	114	Survey-Curbs	Dash 3	2
 Edge of Pavement (Exist.)	Linear	112	Survey-Edge of pavement	Dash 3	2
 Edge of Pavement (New)	Linear	0	Roadway-Edge of pavement	0	2
 Edge of Pavement (Temp.)	Linear	0	Roadway-Edge of pavement	0	2
 Edge of Shoulder - Aggregate (New)	Linear	11	Roadway-Edge of shoulder	0	2
 Edge of Shoulder - Asphalt (New)	Linear	11	Roadway-Edge of shoulder	0	2
 Edge of Shoulder - Concrete (New)	Linear	11	Roadway-Edge of shoulder	0	2
 Edge of Shoulder - Earth (New)	Linear	11	Roadway-Edge of shoulder	0	2
 Edge of Shoulder - U2	Linear	11	Roadway-Edge of shoulder	0	2
 Edge of Shoulder (Exist.)	Linear	114	Survey-Shoulders	Dash 3	2
 Edge of Shoulder (Temp.)	Linear	11	Roadway-Edge of shoulder	0	2
 Entrance	Linear	11	Roadway-Entrances	0	2
 Entrance (Edge of Apron)	Linear	11	Roadway-Entrances	Dash 2	2

Design MicroStation CADD Standards

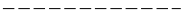



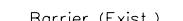
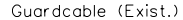
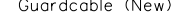
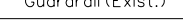
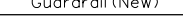
Plan Sheets - Geometry

Roadway (Cont.)

Component	Type:	Color:	Level:	Line Style:	Line Weight:
 Entrance (Exist.)	Linear	114	Survey-Entrances	Dash 3	2
 Entrance (Temp.)	Linear	11	Roadway-Entrances	0	2
 Island (Exist.)	Linear	114	Survey-Curbs	Dash 3	2
 Island (New)	Linear	11	Roadway-Safety	0	2
 Oil Surface	Linear	1	Roadway-Edge of Pavement	0	2
 Outer Road Alignment	Linear	20	Roadway-Centerline other	0	6
 Paved Approach	Linear	11	Roadway-Entrances	0	4
 Raised Median Strip	Linear	51	Roadway-Edge of Pavement	0	2
 Temporary Bypass Alignment	Linear	20	Roadway-Centerline other	0	6
 Temporary Crossover Alignment	Linear	20	Roadway-Centerline other	0	6

Plan Sheets - Geometry


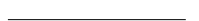



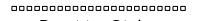
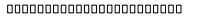
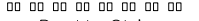











Safety and Structures

Component	Type:	Color:	Level:	Line Style:	Line Weight:
 Abutment (Exist.)	Linear	51	Survey-Safety	Dash 3	1
 Bridge (Exist.)	Linear	1	Survey-Safety	Dash 3	1
 Bridge (New)	Linear	0	Roadway-Safety	0	4
 Concrete Slope Protection	Linear	48	Common-Misc details	0	4
 Barrier (Exist.)	Linear	51	Survey-Safety	Dash 3	1
 Guardcable (Exist.)	Linear	51	Survey-Safety	Custom	2
 Guardcable (New)	Linear	19	Roadway-Safety	Custom	4
 Guardrail (Exist.)	Linear	51	Survey-Safety	Custom	2
 Guardrail (New)	Linear	19	Roadway-Safety	Custom	4

Design MicroStation CADD Standards

Plan Sheets - Geometry






Safety and Structures (Cont.)

Component	Type:	Color:	Level:	Line Style:	Line Weight:
 Median	Linear	51	Roadway-Safety	0	2
 Median Strip	Linear	51	Roadway-Safety	0	2
 Pedestrian Overpass	Linear	51	Roadway-Safety	0	2
 Retaining Wall (Exist.)	Linear	51	Survey-Walls	3	2
 Retaining Wall (New)	Linear	51	Roadway-Walls	0	2
 Rumble Strip- 6" Edgeline	Linear	0	Roadway-Safety	Custom	2
 Rumble Strip- 12" Edgeline	Linear	0	Roadway-Safety	Custom	2
 Rumble Strip- 12" Centerline	Linear	0	Roadway-Safety	Custom	2
 Sound Wall (Exist.)	Linear	51	Survey-Walls	Dash 3	2
 Sound Wall (New)	Linear	51	Roadway-Walls	0	2
 Guardrail	Cell	1	Roadway-Safety	0	1
 Guardrail - Crashworthy Terminal End	Cell	2	Roadway-Safety	0	4
 Guardrail - End Terminal	Cell	2	Roadway-Safety	0	4
 Guardrail - Crashworthy Terminal End (MGS)	Cell	2	Roadway-Safety	0	4
 Guardrail - End Terminal (MGS)	Cell	2	Roadway-Safety	0	4
 Guardrail B Nose for Piers	Cell	19	Roadway-Safety	0	2
 Guardrail B Nose Med over 33'	Cell	19	Roadway-Safety	0	2
 Guardrail B Nose Med 28' to 33'	Cell	19	Roadway-Safety	0	2
 Guardrail B Nose Med 15' to 28'	Cell	19	Roadway-Safety	0	2

Design MicroStation CADD Standards


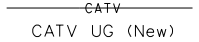
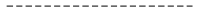
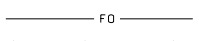
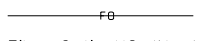

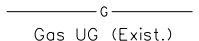
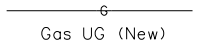
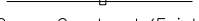

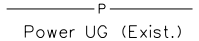
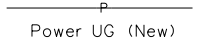


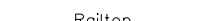
Plan Sheets - Geometry

Sign - Signals

Component	Type:	Color:	Level:	Line Style:	Line Weight:
 GW Guy Wire	Cell	0	Utility-Pole	0	1
 Object Marker	Cell	5	Location_Survey-Note	0	1
 Sign	Cell	0	Roadway-Signs	0	1
 Signal Box	Cell	0	Lighting_Signals-Conduit	0	1
 Signal Control	Cell	0	Lighting_Signals-Equipment	0	1

Plan Sheets - Geometry

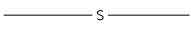
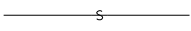
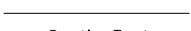
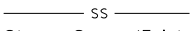
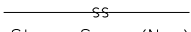
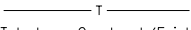
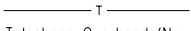
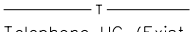
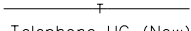
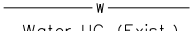
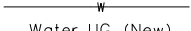











Utilities

Component	Type:	Color:	Level:	Line Style:	Line Weight:
 CATV UG (Exist.)	Linear	15	Survey-Utility-Cable	Custom	2
 CATV UG (New)	Linear	70	Utility-Cable	Custom	4
 Drain Field	Linear	13	Utility-Sanitary sewer	Dash 2	2
 Fiber Optic UG (Exist.)	Linear	15	Survey-Utility-Cable	Custom	2
 Fiber Optic UG (New)	Linear	70	Utility-Cable	Custom	4
 Gas Island	Linear	60	Utility-Gas	0	2
 Gas UG (Exist.)	Linear	116	Survey-Utility-Gas	Custom	2
 Gas UG (New)	Linear	28	Utility-Gas	Custom	4
 Power Overhead (Exist.)	Linear	115	Survey-Utility-power	Custom	2
 Power Overhead (New)	Linear	27	Utility-Power	Custom	4
 Power UG (Exist.)	Linear	115	Survey-Utility-Power	Custom	2
 Power UG (New)	Linear	27	Utility-Power	Custom	4
 Railroad Dash	Linear	1	Utility-Railroad	Custom	2
 Railroad Track	Linear	1	Utility-Railroad	Custom	2
 Railtop	Linear	1	Utility-Railroad	0	2

Design MicroStation CADD Standards

Plan Sheets - Geometry























Utilities (Cont.)

Component	Type:	Color:	Level:	Line Style:	Line Weight:
 San. Sewer UG Exist	Linear	130	Survey-Utility-Sanitary sewer	Custom	2
 San. Sewer UG New	Linear	18	Utility-Sanitary sewer	Custom	4
 Septic Tank	Linear	18	Utility-Sanitary sewer	0	2
 Storm Sewer (Exist.)	Linear	130	Survey-Utility-Storm sewer	Custom	2
 Storm Sewer (New)	Linear	18	Utility-Storm sewer	Custom	4
 Telephone Overhead (Exist.)	Linear	15	Survey-Utility-telephone	Custom	2
 Telephone Overhead (New)	Linear	70	Utility-Telephone	Custom	4
 Telephone UG (Exist.)	Linear	15	Survey-Utility-telephone	Custom	2
 Telephone UG (New)	Linear	70	Utility-Telephone	Custom	4
 Water UG (Exist.)	Linear	12	Survey-Utility-water	Custom	2
 Water UG (New)	Linear	13	Utility-Water	Custom	4
 Gas - Drip	Cell	60	Utility-Gas	0	1
 Gas - Filler	Cell	60	Utility-Gas	0	1
 Gas - Marker	Cell	60	Utility-Gas	0	1
 Gas - Meter	Cell	60	Utility-Gas	0	1
 Gas - Valve	Cell	60	Utility-Gas	0	1
 Gas - Vent	Cell	60	Utility-Gas	0	1
 ITS Type 2 Pull Box	Cell	5	Lighting_Signals-Equipment	0	1
 ITS Type 5 Pull Box	Cell	5	Lighting_Signals-Equipment	0	1
 Power - Anchor	Cell	5	Photo-Anchor	0	1
 Power - Cable & Power Pole	Cell	5	Utility-Pole	0	1
 Power - Cable & Telephone Pole	Cell	5	Utility-Telephone	0	1

Design MicroStation CADD Standards

Plan Sheets - Geometry





Utilities (Cont.)

Component	Type:	Color:	Level:	Line Style:	Line Weight:
 Power - Cable TV Riser	Cell	5	Utility-Pole	0	1
 Power - Guy Wire	Cell	5	Utility-Pole	0	1
 Power - H Frame Power Pole	Cell	5	Utility-Pole	0	1
 Power - High Voltage Tower	Cell	5	Utility-Pole	0	1
 Power - Light & Power Pole	Cell	5	Utility-Pole	0	1
 Power - Light Pole	Cell	5	Utility-Pole	0	1
 Power - Power Pole	Cell	5	Utility-Pole	0	1
 Power - Power Pole with Meter	Cell	5	Utility-Pole	0	1
 Power - Power Pole with Riser	Cell	5	Utility-Pole	0	1
 Power - Power Pole with Transformer	Cell	5	Utility-Pole	0	1
 Power - Power, Telephone, & Cable Pole	Cell	5	Utility-Telephone	0	1
 Power - Power, Telephone, Cable Pole, & Lighting Pole	Cell	5	Utility-Telephone	0	1
 Power - Telephone & Power Pole	Cell	5	Utility-Pole	0	1
 Power - Telephone Pole	Cell	5	Utility-Pole	0	1
 Power - Tower	Cell	15	Utility-Pole	0	1
 Sanitary - Manhole	Cell	18	Utility-Sanitary sewer	0	1
 Telephone - Manhole	Cell	15	Utility-Telephone	0	1
 Telephone - Payphone	Cell	15	Utility-Telephone	0	1
 Telephone - Pedestal	Cell	1	Utility-Telephone	0	1
 Telephone - Riser	Cell	5	Utility-Telephone	0	1
 Water - Faucet	Cell	13	Utility-Water	0	1
 Water - Hydrant	Cell	31	Utility-Water	0	1

Design MicroStation CADD Standards





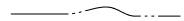


Plan Sheets - Geometry

Utilities (Cont.)

Component	Type:	Color:	Level:	Line Style:	Line Weight:
 Water - Meter	Cell	13	Utility-Water	0	1
 Water - Sprinkler	Cell	13	Utility-Water	0	1
 Water - Valve	Cell	13	Utility-Water	0	1
 Water - Well	Cell	3	Utility-Water	0	1

Plan Sheets - Geometry



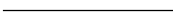
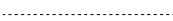






Waterways

Component	Type:	Color:	Level:	Line Style:	Line Weight:
 CL River	Linear	3	Survey-Waterways	c13	2
 Lake	Linear	3	Survey-Waterways	Phantom	4
 Pond	Linear	3	Survey-Waterways	Phantom	4
 River	Linear	3	Survey-Waterways	0	4
 Stream	Linear	3	Survey-Waterways	p12	4
 Spring	Cell	23	Environmental-Natural water	0	1
 Swamp	Cell	23	Common-Patterns hatch	0	1

Design MicroStation CADD Standards

Plan Sheets - Geometry





Misc. Symbols

Component	Type:	Color:	Level:	Line Style:	Line Weight:
 Entrance Width box	Linear	11	Text-Entrances	0	4
 Headwall	Linear	31	Drainage-Structures	0	1
 Matchline	Linear	2	Text-Main route label	0	5
 PILines	Linear	20	Roadway-Curve pc pt	Dash 1	1
 SA Traffic Flow Arrow	Cell	20	Traffic_Control-Flow arrows	0	0
 SLA Traffic Flow Arrow	Cell	20	Traffic_Control-Flow arrows	0	0
 SRL Traffic Flow Arrow	Cell	20	Traffic_Control-Flow arrows	0	0
 SRA Traffic Flow Arrow	Cell	20	Traffic_Control-Flow arrows	0	0
 LA Traffic Flow Arrow	Cell	20	Traffic_Control-Flow arrows	0	0
 RA Traffic Flow Arrow	Cell	20	Traffic_Control-Flow arrows	0	0

Design MicroStation CADD Standards








Plan Sheets - Notes

Construction Symbols

Component	Type:	Color:	Level:	Line Style:	Line Weight:
 CHECK MARK DFPRP	Cell	2	Common-Notes	0	0
 CHECK MARK FPR	Cell	4	Common-Notes	0	0
 CHECK MARK RE	Cell	5	Common-Notes	0	0
<small>THIS PLAN CONTAINS NOTES AND DIMENSIONS FOR SECTIONS OF THE ROADWAY AND ALL APPLICABLE POLYLINE AND POINT CLOUDS GENERATED BY AUTOCAD IN THE COURSE OF DESIGN.</small>  Final Plans Disclaimer	Cell	2	Text-General notes	0	1
FINAL PLANS	Cell	13	Text-General notes	0	0

Plan Sheets - Notes



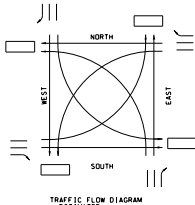
Drainage

Component	Type:	Color:	Level:	Line Style:	Line Weight:
 Note Conc Basin	Note	31	Text-Drainage structure	0	1
 Note CMP,PVC,RCP,Culvert	Note	31	Text-Drainage structure	0	4
 Note Ditch Lining & Size	Note	52	Text-Ditch labels	0	2
 Note Ditch Type	Note	52	Text-Ditch labels	0	2
 Note Ditch Block	Note	68	Text-Ditch labels	0	2
 Note Rock Type	Note	0	Text-Ditch labels	0	2
 Note Slope Line	Note	53	Text-Slope line label	0	2
Text CMP,PVC,RCP,Culvert	Text	31	Text-Drainage structure	0	4
Text Removals (R)	Text	0	Common-Removals	0	2
Text Waterways .12 Small	Text	23	Text-Natural water	0	2
Text Waterways .15 Medium	Text	23	Text-Natural water	0	2
Text Waterways .18 Large	Text	23	Text-Natural water	0	2

Design MicroStation CADD Standards

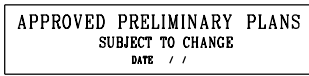

Plan Sheets - Notes

Exhibits

Component	Type:	Color:	Level:	Line Style:	Line Weight:
 Modot Logo Wave Symbol	Cell	VARIABLES	Common-Notes	0	9
 Modot State Wave Symbol	Cell	VARIABLES	Common-Notes	0	9
 Turn Diagram	Cell	VARIABLES	Common-Legends	0	4
BLOCK Style Text X-Small	Text		Common-Notes	0	1
BLOCK Style Text Small	Text		Common-Notes	0	2
BLOCK Style Text Medium	Text		Common-Notes	0	4
BLOCK Style Text Large	Text		Common-Notes	0	5
BLOCK Text X-Large	Text		Common-Notes	0	7

Plan Sheets - Notes

General Construction

Component	Type:	Color:	Level:	Line Style:	Line Weight:
 Approved Preliminary Plan Stamp	Cell	2	Text-General notes	0	5
 Begin Project	Cell	20	Text-Project pt pc	0	4
ANY WORK INDICATED ON THE PLANS THAT EXTENDS BEYOND THE PROJECT LIMITS IS CONSIDERED INCIDENTAL TO AND A PART OF THE CONSTRUCTION OF THIS PROJECT. Beyond Project Limits	Cell	4	Text-General notes	0	4
THE EXISTENCE AND APPROXIMATE LOCATION OF UTILITY FACILITIES KNOWN TO EXIST, AS SHOWN ON THE PLANS, ARE BASED ON THE BEST INFORMATION AVAILABLE TO THE COMMISSION AT THIS TIME. THIS INFORMATION IS PROVIDED BY THE COMMISSION "AS-IS" AND THE COMMISSION EXPRESSLY DISCLAIMS ANY REPRESENTATION OR WARRANTY AS TO THE COMPLETENESS, ACCURACY, OR SUITABILITY OF THE INFORMATION FOR ANY USE. RELIANCE UPON THIS INFORMATION IS DONE AT THE RISK AND PERIL OF THE USER, AND THE COMMISSION SHALL NOT BE LIABLE FOR ANY DAMAGES THAT MAY ARISE FROM ANY ERROR IN THE INFORMATION. Disclaimer - Utilities	Cell	4	Text-General notes	0	4

Design MicroStation CADD Standards

Plan Sheets - Notes

General Construction (Cont.)

Component	Type:	Color:	Level:	Line Style:	Line Weight:
<p style="text-align: center;">DISCLAIMER THE PROFESSIONAL WHOSE SIGNATURE AND PERSONAL SEAL APPEAR HEREON ASSUMES RESPONSIBILITY ONLY FOR WHAT APPEARS ON THIS PAGE, AND DISCLAIMS (PURSUANT TO SECTION 327.411 (RSMO) SPECIFICATION, ESTIMATES, REPORTS, OR OTHER DOCUMENTS OR INSTRUMENTS NOT SEALED BY THE UNDERSIGNED PROFESSIONAL RELATING TO OR INTENDED TO BE USED FOR ANY PART OR PARTS OF THE PROJECT TO WHICH THIS PAGE REFERS.</p> <p style="text-align: center;">Disclaimer - Plan Sheet</p>	Cell	4	Text-General notes	0	4
<p style="text-align: center;">END PROJECT STA</p> <p style="text-align: center;">End Project</p>	Cell	20	Text-Project pt pc	0	4
<p style="text-align: center;"><u>PRELIMINARY/FINAL STRIP MAP</u> ROUTE COUNTY CLASSIFICATION COUNTY JOB NO. DESIGN SPEED - DESIGN TRAFFIC - CONST YEAR () ADT DESIGN YEAR () ADT TRUCK ADT - % SUBMITTED 2 <u>LENGTH OF PROJECT</u> END OF PROJECT STA BEGINNING OF PROJECT STA APPARENT LENGTH EQUATIONS & EXCEPTIONS: NONE NET LENGTH</p> <p style="text-align: center;">Final Strip Map Note</p>	Cell	4	Text-General notes	0	4
<p style="text-align: center;">△ REVISED Revision Symbol- Revised</p>	Cell	0	Text-General notes	0	6
<p style="text-align: center;">△ ADDED Revision Symbol- Added</p>	Cell	0	Text-General notes	0	6
<p style="text-align: center;">△ DELETE SHEET Revision Symbol- Sheet Deleted</p>	Cell	0	Text-General notes	0	6
<p style="text-align: center;">△ ADD SHEET Revision Symbol- Sheet Added</p>	Cell	0	Text-General notes	0	6
<p style="text-align: center;">△ DELETED Revision Symbol- Deleted</p>	Cell	0	Text-General notes	0	6
<p style="text-align: center;">← MoDOT Text .10 Extra Small (Construction)</p>	Note	2	Text-Construction notes	0	1
<p style="text-align: center;">← Note Text .12 Small (Construction)</p>	Note	2	Text-Construction notes	0	2
<p style="text-align: center;">← Note Text .15 Medium (Construction)</p>	Note	2	Text-Construction notes	0	4
<p style="text-align: center;">← Note Text .18 Large (Construction)</p>	Note	2	Text-Construction notes	0	5
<p style="text-align: center;">← Note Text .21 Extra Large (Construction)</p>	Note	2	Text-Construction notes	0	7
<p style="text-align: center;">← Note Abandoned</p>	Note	0	Common-Removals	0	2
<p style="text-align: center;">← Note Grading (Grade To Drain)</p>	Note	52	Common-Build notes	0	2
<p style="text-align: center;">← Note Linear Grading Type</p>	Note	0	Common-Build notes	0	2

Design MicroStation CADD Standards

Plan Sheets - Notes

General Construction (Cont.)

Component	Type:	Color:	Level:	Line Style:	Line Weight:
Note Misc Details	Note	Note	0	Common-Build notes	0 4
Note No Direct Pay	Note	Note	0	Common-Build notes	0 2
Note Obliteration	Note	Note	0	Common-Removals	0 4
Note Saw Cut - Pav't Repair	Note	Note	0	Common-Build notes	0 2
MoDOT Text .10 Extra Small (Construction)	Text	Text	2	Text-Construction notes	0 1
MoDOT Text .12 Small (Construction)	Text	Text	2	Text-Construction notes	0 2
MoDOT Text .15 Medium (Construction)	Text	Text	2	Text-Construction notes	0 4
MoDOT Text .18 Large (Construction)	Text	Text	2	Text-Construction notes	0 5
MoDOT Text .21 Extra Large (Construction)	Text	Text	2	Text-Construction notes	0 7
Text Begin/End Project	Text	Text	20	Common-Build notes	0 2
Text General Note	Text	Text	4	Text-General notes	0 4
Text (L.I.P.)(UIP)(DND)	Text	Text	5	Text-Construction notes	0 2
Text Removals (R)	Text	Text	0	Common-Removals	0 2

Plan Sheets - Notes



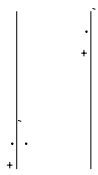
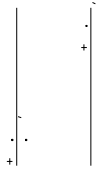




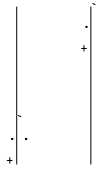
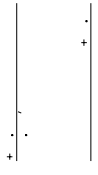
Location Survey

Component	Type:	Color:	Level:	Line Style:	Line Weight:
THIS PLAN REPORTS THE RESULTS OF A SURVEY OF ADJACENT RIGHT-OF-WAY FOR THE MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION. THE RIGHT-OF-WAY CORRIDOR IS (DESCRIBE LOCATION). THE RIGHT-OF-WAY CORRIDOR ENCOMPASSED IN THIS SURVEY IS CLASSIFIED AS (TYPE OF PROPERTY). THE SURVEY WAS COMPLETED IN (DATE). THIS SURVEY WAS EXECUTED IN ACCORDANCE WITH THE MISSOURI MINIMUM STANDARDS FOR PROPERTY BOUNDARY SURVEYS. SURVEY AND PLOT BY THE MISSOURI DEPARTMENT OF TRANSPORTATION.	Cell	Cell	0	Location_Survey-Note	0 2
	Cell	Cell		Location_Survey-Title block	
	Cell	Cell	20	Location_Survey-Improvement table	0 3
	Cell	Cell	20	Location_Survey-Improvement table	0 3
LEGEND <ul style="list-style-type: none"> ● - SET COPPERWELD ○ - SET 1" IRON PIN ⊙ - FOUND MONUMENT ▽ - FOUND RIGHT-OF-WAY MONUMENT ⊕ - CHISLED CROSS □ - FOUND STONE ----- - C/L OF ROADWAY ----- - NEW BOUNDARY LINE ----- - PUBLIC LAND LINE ----- - EXISTING PROPERTY LINE 	Cell	Cell		Common-Legends	

Design MicroStation CADD Standards

Plan Sheets - Notes

Right of Way

Component	Type:	Color:	Level:	Line Style:	Line Weight:
 Approved Preliminary Plan Stamp	Cell	2	Text-General Notes	0	5
 Approved R/W Plan Stamp	Cell	2	Text-General Notes	0	5
 Esm't Perm. Plus Offset above Esm't Perm. Plus Offset below	Cell	2	Text-Permanent easement	0	4
 Esm't Temp. Plus Offset above Esm't Temp. Plus Offset below	Cell	6	Text-Temporary easement	0	4
 Property Tie	Cell	5	Roadway-Land lines	0	2
 Property Line Symbol	Cell	5	Roadway-Land lines	0	4
 Property Owner - Circle	Cell	5	Text-Property owner	0	4
 JOHN Q PROP OWNER XXX.XX NEW R/W XXX.XX PERM. ESM'T XXX.XX TEMP. ESM'T XXX.XX REMAINING Property Owner - Note & Circle	Cell	5	Text-Property owner & Text-Rw taking	0	4
 R/W Exist Plus Offset above R/W Exist Plus Offset below	Cell	6	Text-Existing rw label	0	4
 R/W New Plus Offset above R/W New Plus Offset below	Cell	2	Text-New rw label	0	4

Design MicroStation CADD Standards

Plan Sheets - Notes

Right of Way

Component	Type:	Color:	Level:	Line Style:	Line Weight:
←———— Note City Limits	Note	Note	5	Common-Notes	0 4
←———— Note Esm't (Perm)	Note	Note	2	Text-Permanent easement	0 4
←———— Note Esm't (Temp)	Note	Note	6	Text-Temporary easement	0 4
←—— Note R/W (Borrow Area)	Note	Note	8	Text-Property owner	0 4
←———— Note R/W (Excess)	Note	Note	2	Common-Notes	0 4
←———— Note R/W (Exist)	Note	Note	6	Text-Existing rw label	0 4
←———— Note R/W (New)	Note	Note	2	Text-New rw label	0 4
County/State Line (above)	Text	Text	10	Common-Notes	0 5
Section $\frac{1}{4}$, & $\frac{1}{4}$ $\frac{1}{4}$ (above)	Text	Text	16	Text-Sections	0 4
Section Line (above)	Text	Text	10	Text-Sections	0 4
Survey & Grant/Lease Line (above)	Text	Text	5	Text-Land tie details	0 4
Township/Range Line (above)	Text	Text	10	Common-Notes	0 4
Bearing & Dist. and P.O.B.	Text	Text	20	Text-Rw taking	0 4
BM or GRS Symbol Notation	Text	Text	10	Text-Bench mark	0 1
City Name	Text	Text	5	Common-Notes	0 5
Easement Perm. Station & Offset	Text	Text	2	Text-Permanant easement	0 4
Landcall (Section-Township-Range)	Text	Text	10	Common-Notes	0 5
Landpin or corner	Text	Text	5	Text-Bench mark	0 1
R/W Station & Offset (Exist)	Text	Text	6	Text-Existing rw label	0 4
R/W Station & Offset (New)	Text	Text	2	Text-New rw label	0 4
Section, Township & Range	Text	Text	1	Text-Sections	0 4
<i>Subdivision Name & Lot Number</i>	Text	Text	5	Text-Property owner	0 4
USGS BM Datum	Text	Text	10	Text-Bench mark	0 2

Plan Sheets - Notes

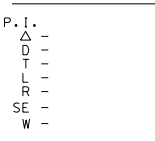
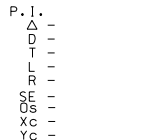
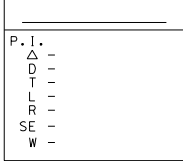
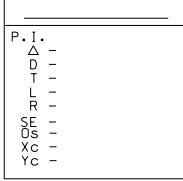
Roadside

Component	Type:	Color:	Level:	Line Style:	Line Weight:
←———— Note Environmental	Note	Note	99	Text-Environmental	0 4
←———— Note Landscaping	Note	Note	4	Text-Landscaping	0 4
Text Benchmark GRS	Text	Text	10	Text-Bench mark	0 4
<i>Text Business Name</i>	Text	Text	5	Text-Building labels	0 5
Text Building Overhang	Text	Text	14	Text-Building labels	0 2
Text Cemetery	Text	Text	1	Text-Public property	0 2
Text Delineator/Milemarker/Sign	Text	Text	0	Text-Signs	0 1
Text Fence (Woven/Chain Link)	Text	Text	4	Text-Fence	0 1
Text Private Property	Text	Text	5	Text-Private property	0 1
Text Sidewalk & Border	Text	Text	1	Text-Sidewalk	0 2
Text Steps & Wheelchair Ramp	Text	Text	1	Text-Sidewalk	0 1
Text Trail	Text	Text	8	Text-Public property	0 2

Design MicroStation CADD Standards

Plan Sheets - Notes

Roadway

Component	Type:	Color:	Level:	Line Style:	Line Weight:
 <p>Curve Data (Curve)</p>	Cell	20	Text-Curve info	0	2
 <p>Curve Data (Spiral)</p>	Cell	20	Text-Curve info	0	2
 <p>Curve Data box (Curve)</p>	Cell		Text-Curve info	0	
 <p>Curve Data box (Spiral)</p>	Cell		Text-Curve info	0	

Design MicroStation CADD Standards

Plan Sheets - Notes

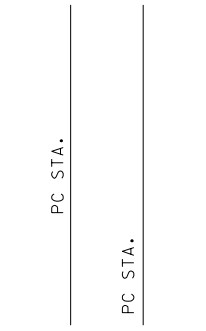
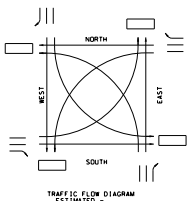
Roadway (Cont.)

Component	Type:	Color:	Level:	Line Style:	Line Weight:
<p style="text-align: center;">TYPE I DRWY. XT. XX+XX.XX RT. Z. (XX' ACCESS BREAK) X.X' TOP XX' x XX.X' CR. B PIPE</p> <p>Driveway Type, Angle, Pipe Text</p>	Cell	11	Text-Entrances	0	4
<p style="text-align: center;">TYPE I DRWY. XT. STA. XX+XX.XX</p> <p>Driveway Type & Stationing</p>	Cell	11	Text-Entrances	0	4
<p style="text-align: center;">ENTRANCE STA. XX+XX.XX ENTRANCE TYPE XX</p> <hr style="width: 100%;"/> <p style="text-align: center;">ENTRANCE STA. XX+XX.XX ENTRANCE TYPE XX</p> <p>Entrance Sta Des. above Entrance Sta Des. below</p>	Cell	11	Text-Entrances	0	2
<p style="text-align: center;">STA. XX+XX.XX XT. EXISTING XX.X' ENTR. (XX' ACCESS BREAK)</p> <p>Entrance Existing Plus Offset</p>	Cell	11	Text-Entrances	0	4
<p style="text-align: center;"><small>EXISTING AND CONSTRUCTED ENTRANCES MAY BE WIDENED TO A MAXIMUM WIDTH OF 18m BY PERMIT UNLESS OTHERWISE NOTED.</small></p> <p>Entrance Width Note</p>	Cell	11	Text-Entrances	0	4
<p style="text-align: center;">PC STA.</p> <hr style="width: 100%;"/> <p style="text-align: center;">PC STA.</p> <p>Equation above Equation below</p>	Cell	20	Text-Alignment info	0	5

Design MicroStation CADD Standards

Plan Sheets - Notes

Roadway (Cont.)

Component	Type:	Color:	Level:	Line Style:	Line Weight:
 <p>PC STA. PC STA.</p> <p>PC PS PT STA. above PC PS PT STA. below</p>	Cell	20	Text-Project pt pc	0	4
 <p>TRAFFIC FLOW DIAGRAM ESTIMATED TRAFFIC VOLUME</p> <p>Turning Diagram</p>	Cell		Text-Main route label	0	4

Design MicroStation CADD Standards

Plan Sheets - Notes

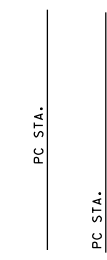
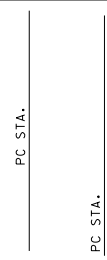
Right of Way

Component	Type:	Color:	Level:	Line Style:	Line Weight:
Note Abutment	Note	0	Text-Safety label	0	2
Note Barrier	Note	99	Text-Safety label	0	2
Note Bridge	Note	0	Text-Safety label	0	2
Note Construction Joint	Note	0	Text-Edge of pavement	0	1
Note Retaining Wall	Note	99	Text-Safety label	0	2
Note Rte Label - Main Line	Note	20	Text-Main route label	0	5
Note Sound Wall	Note	99	Text-Safety label	0	2
Text Alignment Number (above)	Text	20	Text-Alignment info	0	1
Text Bearing (above)	Text	20	Text-Alignment info	0	4
Text Curve Number (above)	Text	20	Text Curve info	0	1
Text Curb or C&G (above)	Text	11	Text-Curb	0	2
Text Curb (Exist) (above)	Text	114	Text-Curb	0	2
Text PC,PRC,PT,TS,ST (along)	Text	20	Text-Project pt pc	0	4
Text Pedestrian Overpass (along)	Text	5	Text-Safety label	0	2
Text Median or Median Strip (along)	Text	99	Text-Safety label	0	2
Text Rte Label -Side/Outer Roads (above)	Text	20	Text-Route label	0	5
Text Rte Label -Service/Crossroad (above)	Text	20	Text-Route label	0	5
Text Rte Label -Perm. Connection (above)	Text	20	Text-Main route label	0	5
Text C&G Station & Offset	Text	11	Text-Curb	0	2
Text Edge of Pavement (EP)	Text	0	Text-Edge of pavement	0	2
Text Edge of Pavement Sta & Offset	Text	0	Text-Edge of pavement	0	2
Text Entrance Edge of Apron	Text	11	Text-Shoulder	0	2
Text Entrance Radius Points	Text	11	Text-Shoulder	0	2
Text Equation	Text	20	Text-Alignment info	0	2
Text Island Radius Points	Text	11	Text-Curb	0	1
Text Matchline	Text	2	Text-Main route label	0	5
Text Median Radius Point	Text	20	Text-Safety label	0	2
Text Ramp Number	Text	20	Text-Route label	0	4
Text Retain Wall Station & Offset	Text	99	Text-Safety label	0	2
Text Rte Intersection Tie	Text	20	Text-Route label	0	5
Text Shoulder	Text	11	Text-Shoulder	0	2
Text Shoulder Station & Offset	Text	11	Text-Shoulder	0	2
Text Stationing (Exist)	Text	20	Text-Alignment info	0	4
Text Stationing (New)	Text	20	Text-Alignment info	0	7
Text Surface Type	Text	0	Text-Edge of pavement	0	1

Design MicroStation CADD Standards

Plan Sheets - Notes

Roadway (Temporary)

Component	Type:	Color:	Level:	Line Style:	Line Weight:
 <p>Equation above Equation below</p>	Cell	20	Text-Alignment info	0	5
 <p>PC PS PT STA. XXX+XX above PC PS PT STA. XXX+XX below</p>	Cell	20	Text-Project pt pc	0	4
← Note Rte Label-Temp Bypass	Note	20	Common-Removals	0	4
← Note Rte Label-Temp Connection	Note	20	Common-Removals	0	4
← Note Rte Label-Temp Crossover	Note	20	Common-Removals	0	4
Text Alignment Number (along element)	Text	20	Common-Removals	0	1
Text Bearing (along element)	Text	20	Common-Removals	0	2
Text Curve Number (along element)	Text	20	Common-Removals	0	1
Text Equation (above element)	Text	20	Common-Removals	0	4
Text PC,PRC,PT,TS,ST	Text	20	Common-Removals	0	4
Text Rte Intersection Tie	Text	20	Common-Removals	0	4
Text Stationing	Text	20	Common-Removals	0	4
Text Striping Description	Text	0	Common-Removals	0	2

Design MicroStation CADD Standards

Plan Sheets - Notes

Pavement Marking

Component	Type:	Color:	Level:	Line Style:	Line Weight:
<p style="text-align: center;">STRIPING LEGEND</p> <p>----- 4" INTERMITTENT WHITE _____ 4" SOLID WHITE ----- 4" INTERMITTENT YELLOW _____ 4" SOLID YELLOW</p> <p style="text-align: center;">Pavement Marking Legend</p>	Cell		Common-Legends		2
← Note Perm. Striping Type	Note	0	Text-Perm striping	0	4
← Note Perm. Striping Station	Note	0	Text-Perm striping	0	4
← Note Temp. Striping Station	Note	1	Text-Temp striping	0	2

Plan Sheets - Notes





Utilities

Component	Type:	Color:	Level:	Line Style:	Line Weight:
<p><small>THE EXISTENCE AND APPROXIMATE LOCATION OF UTILITY FACILITIES KNOWN TO EXIST, AS SHOWN ON THE PLANS, ARE BASED ON THE BEST INFORMATION AVAILABLE TO THE COMMISSION AT THIS TIME. THIS INFORMATION IS PROVIDED BY THE COMMISSION "AS-IS" AND THE COMMISSION EXPRESSLY DISCLAIMS ANY REPRESENTATION OR WARRANTY AS TO THE COMPLETENESS, ACCURACY, OR SUITABILITY OF THE INFORMATION FOR ANY USE. RELIANCE UPON THIS INFORMATION IS DONE AT THE RISK AND PERIL OF THE USER, AND THE COMMISSION SHALL NOT BE LIABLE FOR ANY DAMAGES THAT MAY ARISE FROM ANY ERROR IN THE INFORMATION.</small></p> <p style="text-align: center;">Disclaimer - Utilities</p>	Cell	4	Text-General notes	0	4
<i>Text Cable TV</i>	Text	70	Text-Utility-cable	0	1
<i>Text Fiber Optic Cable</i>	Text	70	Text-Utility-cable	0	1
<i>Text Gas</i>	Text	60	Text-Utility-gas	0	1
<i>Text Pole (Combo Utility)</i>	Text	5	Text-Utility-poles	0	1
<i>Text Power</i>	Text	51	Text-Utility-power	0	1
<i>Text Railroad</i>	Text	1	Text-Utility-railroad	0	1
<i>Text Railroad Owner</i>	Text	1	Text-Utility-railroad	0	4
<i>Text Sanitary Sewer</i>	Text	18	Text-Utility-sanitary sewer	0	1
<i>Text Signal</i>	Text	0	Text-Signal	0	1
<i>Text Telephone</i>	Text	70	Text-Utility-telephone	0	1
<i>Text Utility Owner</i>	Text	0	Text-Utility-owner	0	4
<i>Text Water</i>	Text	13	Utility-Water	0	1

Design MicroStation CADD Standards







Profile Sheets

Drainage

Component	Type:	Color:	Level:	Line Style:	Line Weight:
CMP - Circle 	Linear	31	Drainage-Structures	0	2
----- Ditch Special (Lt.) Ditch Special (Rt.)	Linear	52	Roadway-Ditches	Dash 4	4
 Flow Arrow	Cell	52	Roadway-Ditches	0	2
 Manhole 12", 18", 24" Sanitary Sewer	Cell	18	Utility-Sanitary sewer	0	1
 RCP 12"-84" Circle	Cell	31	Drainage-Structures	0	1

Profile Sheets


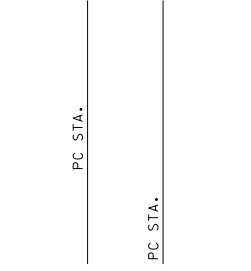
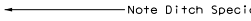
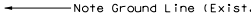
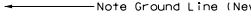
Profile & Grid Lines

Component	Type:	Color:	Level:	Line Style:	Line Weight:
 Entrance Lines	Linear	11	Roadway-Entrances	0	4
----- Existing Profile Lines	Linear	1	XS-Existing surface-ground	Dash 3	2
 Flow Line Elevation Lines	Linear	52	Drainage-Structure	0	2
 Main Grid Lines	Linear	4	Grid_Line-Main	0	4
 New Profile Lines	Linear	0	XS-Proposed surface-ground	0	4
 PC, PT Line	Linear	0	Roadway-Curve circle symbology	0	2
 Secondary Grid Lines	Linear	7	Grid_Line-Secondary	0	1

Design MicroStation CADD Standards

Profile Sheets


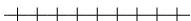

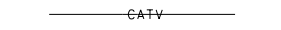

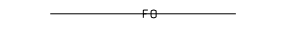
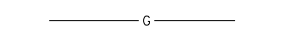
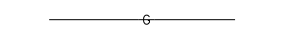
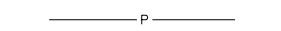
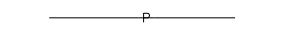
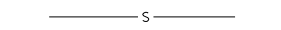
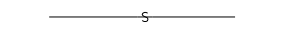
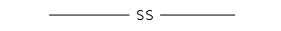
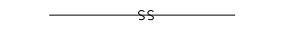
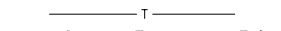
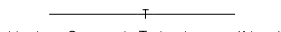
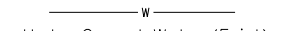
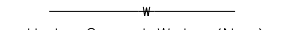
Notes

Component	Type:	Color:	Level:	Line Style:	Line Weight:
PC PT PVI Circle 	Cell	0	Roadway-Curve pc pt	0	4
 <p>PC STA. PVI STA.</p> <p>PC PT PVISta Elev Above PC PT PVISta Elev Below</p>	Cell	20	Text-Project pt pc	0	4
 Note Ditch Special	Note	52	Text-Ditch labels	0	2
 Note Ground Line (Exist.)	Note	1	Text-Existing surface-ground	0	2
 Note Ground Line (New)	Note	0	Text-Proposed surface-ground	0	2
Text Entrance (Grade, Sta, Elevation)	Text	11	Text-Entrances	0	2
Text Flow Line Elevations	Text	52	Text-Ditch labels	0	2
Text Grade	Text	0	XS-Existing surface-ground	0	1
Text-Curve info	Text	0	Text-Utility-poles	0	2
Text Profile Title	Text	1	Common-Title block info	0	5
Text Sheet xx of xx	Text	5	Common-Title block info	0	2

Design MicroStation CADD Standards

Profile Sheets

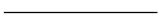
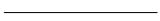


Utilities

Component	Type:	Color:	Level:	Line Style:	Line Weight:
 Railroad Dash	Linear	1	Utility-Railroad	Custom	4
 Railroad	Linear	1	Utility-Railroad	Custom	2
 Under Ground Cable TV (Exist)	Linear	15	Utility-Cable	Custom	2
 Under Ground Cable TV (New)	Linear	70	Utility-Cable	Custom	4
 Under Ground Fiber Optic Cable (Exist)	Linear	15	Utility-Cable	Custom	2
 Under Ground Fiber Optic Cable (New)	Linear	70	Utility-Cable	Custom	4
 Under Ground Gas (Exist)	Linear	116	Utility-Gas	Custom	2
 Under Ground Gas (New)	Linear	60	Utility-Gas	Custom	4
 Under Ground Power (Exist)	Linear	115	Utility-Power	Custom	2
 Under Ground Power (New)	Linear	51	Utility-Power	Custom	4
 Under Ground Sanitary Sewer (Exist)	Linear	18	Utility-Sanitary sewer	Custom	2
 Under Ground Sanitary Sewer (New)	Linear	18	Utility-Sanitary sewer	Custom	4
 Under Ground Storm Sewer (Exist)	Linear	18	Utility-Storm sewer	Custom	2
 Under Ground Storm Sewer (New)	Linear	18	Utility-Storm sewer	Custom	4
 Under Ground Telephone (Exist)	Linear	15	Utility-Telephone	Custom	2
 Under Ground Telephone (New)	Linear	70	Utility-Telephone	Custom	4
 Under Ground Water (Exist)	Linear	12	Utility-Water	Custom	2
 Under Ground Water (New)	Linear	13	Utility-Water	Custom	4

Design MicroStation CADD Standards



Reference Points Sheet

Lines (misc.)

Component	Type:	Color:	Level:	Line Style:	Line Weight:
 Centerline	Linear	20	Roadway-Centerline main	0	6
 Grid Line	Linear	2	Grid_Line-Main	0	4
 Tie Circle	Linear	1	Common-Misc details	0	4
 Tie Line	Linear	4	Common-Misc details	0	4

Coordinate Points Sheet

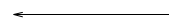



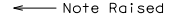
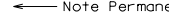
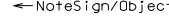



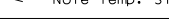



Lines (misc.)

Component	Type:	Color:	Level:	Line Style:	Line Weight:
 Grid Line Main	Linear	4	Grid_Line-Main	0	4
 Grid Line Secondary	Linear	7	Grid_Line-Secondary	0	1

Design MicroStation CADD Standards











Traffic Control Sheets

Notes

Component	Type:	Color:	Level:	Line Style:	Line Weight:
 Note Barricade	Note	0	Text-Barricades	0	2
 Note Channelizer/Cones	Note	0	Text-Channelizers	0	2
 Note Delineator	Note	0	Text-Signs	0	2
 Note Flashing & Warning Light	Note	20	Text-Electric signs	0	2
 Note Raised Pavement Marker	Note	20	Text-Misc	0	2
 Note Permanent Construction	Note	0	Common-Build notes	0	2
 Note Sign/Object Marker/Flagger	Note	0	Text-Signs	0	2
 Note Signal	Note	0	Text-Signal	0	2
 Note Temp. Construction	Note	0	Common-Removals	0	2
 Note Temp. Striping (White)	Note	0	Text-Temp striping	0	2
 Note Temp. Striping (Yellow)	Note	20	Text-Temp striping	0	2
 Note Temp. Island	Note	11	Common-Removals	0	2
 Note Traffic Barrier	Note	0	Text-Traffic barriers	0	2
 Note Work Area	Note	0	Common-Build notes	0	2
Text Sign Station	Text	0	Text-Signs	0	2

Traffic Control Sheets


















Pavement Marking

Component	Type:	Color:	Level:	Line Style:	Line Weight:
 Preformed Left Arrow	Cell	0	Traffic_Control-Permanent striping	0	4
 Preformed Right Arrow	Cell	0	Traffic_Control-Permanent striping	0	4
 Preformed Railroad Crossing	Cell	0	Traffic_Control-Pavement marker	0	4
 Preformed Straight - Left Arrow	Cell	0	Traffic_Control-Permanent striping	0	4
 Preformed Straight - Right Arrow	Cell	0	Traffic_Control-Permanent striping	0	4
 Preformed Straight Arrow	Cell	0	Traffic_Control-Permanent striping	0	4
 Preformed Lane Drop Arrow - Left	Cell	0	Traffic_Control-Permanent striping	0	4
 Preformed Lane Drop Arrow - Right	Cell	0	Traffic_Control-Permanent striping	0	4
 Preformed Work (Only) 8'	Cell	0	Traffic_Control-Pavement marker	0	4
 Preformed Work (Only) 10'	Cell	0	Traffic_Control-Pavement marker	0	4

Design MicroStation CADD Standards

Traffic Control Sheets









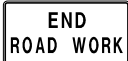
Pavement Marking

Component	Type:	Color:	Level:	Line Style:	Line Weight:
 Stop Line 12' Stop Line 14' Stop Line 24'	Cell	0	Traffic_Control-Permanent striping	0	0
 Yield Line 12' (16" Wide)	Cell	0	Traffic_Control-Permanent striping	0	0
 Yield Line 12' (24" Wide)	Cell	0	Traffic_Control-Permanent striping	0	0
 Bike Lettering - For Bike Lanes	Cell	0	Traffic_Control-Miscellaneous	0	0
 Lane Lettering - For Bike Lanes	Cell	0	Traffic_Control-Miscellaneous	0	0
 Straight Arrow - For Bike Lanes	Cell	0	Traffic_Control-Miscellaneous	0	0
 Symbol 1 - For Bike Lanes	Cell	0	Traffic_Control-Miscellaneous	0	0
 Symbol 2 - For Bike Lanes	Cell	0	Traffic_Control-Miscellaneous	0	0
 Symbol 1 with Sharrows - For Bike Lanes	Cell	0	Traffic_Control-Miscellaneous	0	0
 Symbol 2 with Sharrows - For Bike Lanes	Cell	0	Traffic_Control-Miscellaneous	0	0
 Perm. 4" White Intermittent	Linear	0	Traffic_Control-Permanent striping	Custom	7
 Perm. 4" Yellow Intermittent	Linear	20	Traffic_Control-Permanent striping	Custom	7
Perm. 4" Solid White	Linear	0	Traffic_Control-Permanent striping	0	7
Perm. 4" Solid Yellow	Linear	20	Traffic_Control-Permanent striping	0	7
 Perm. 4" Intersection Intermittent White 1	Linear	0	Traffic_Control-Permanent striping	Custom	7
 Perm. 4" Intersection Intermittent White 2	Linear	0	Traffic_Control-Permanent striping	Custom	7
 Perm. 4" Roundabout Intermittent White	Linear	0	Traffic_Control-Permanent striping	Custom	7
 Temp. 4" White Intermittent	Linear	0	Traffic_Control-Temporary striping	Custom	7
 Temp. 4" Yellow Intermittent	Linear	20	Traffic_Control-Temporary striping	Custom	7
Temp. 4" Solid White	Linear	0	Traffic_Control-Temporary striping	0	7
Temp. 4" Solid Yellow	Linear	20	Traffic_Control-Temporary striping	0	7

Design MicroStation CADD Standards

Traffic Control Sheets







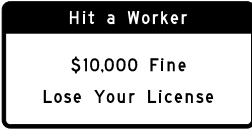










Signs (D-2bs)

Component	Type: cell	Color: 0	Level: Roadway Signs	Line Style: 0	Line Weight: 2
CONST-3A Work Zone Fine			 CONST-3A ○		
CONST-3X Speeding/Passing Plate			 CONST-3X ○		
CONST-7-48 Rate Our Work Zone			 CONST-7-48 ○		
CONST-7-72 Rate Our Work Zone			 CONST-7-72 ○		
E05-1 Gore Exit			 E05-1 ○		
E05-2 Exit Open			 E05-2 ○		
E05-2a Exit Closed			 E05-2a ○		
G020-1 Road Work Next XX Miles			 G020-1 ○		
G020-2 End Road Work			 G020-2 ○		

Design MicroStation CADD Standards

Traffic Control Sheets




















Signs (D-2bs) (Cont)

Component	Type: cell	Color: 0	Level: Roadway Signs	Line Style: 0	Line Weight: 2
G020-4 Pilot Car Follow Me			 G020-4 		
G020-4a Please Wait for Pilot Car			 G020-4a 		
G020-5aP Work Zone (Plaque)			 G020-5aP 		
Hit a Worker - Lose Your License			 		
M5-1L Advance Left Turn Arrow			 M5-1L		
M5-1R Advance Right Turn Arrow			 M5-1R		
M6-1 Turn Arrow			 M6-1		
M6-3 Straight Arrow			 M6-3		
M04-1 Alternate (Plaque)			 M04-1  M3--  M1--  M-- 		

Design MicroStation CADD Standards

Traffic Control Sheets

















Signs (D-2bs) (Cont)

Component	Type: cell	Color: 0	Level: Roadway Signs	Line Style: 0	Line Weight: 2
M04-8 Detour (Plaque)			 M04-8		
			 M3--		
			 M1--		
			 M--		
					
M04-8a End Detour			 M04-8a		
					
M04-9L Detour w/ Left Arrow			 M04-9L		
					
M04-9R Detour w/ Right Arrow			 M04-9R		
					
M04-9aL Detour w/ Left Arrow (Bike and Pedestrian)			 M04-9aL		
					
M04-9aR Detour w/ Right Arrow (Bike and Pedestrian)			 M04-9aR		
					
M04-9bL Detour w/ Left Arrow (Pedestrian)			 M04-9bL		
					
M04-9bR Detour w/ Right Arrow (Pedestrian)			 M04-9bR		
					

Design MicroStation CADD Standards

Traffic Control Sheets















Signs (D-2bs) (Cont)

Component	Type: cell	Color: 0	Level: Roadway Signs	Line Style: 0	Line Weight: 2
MO4-9cL Detour w/ Left Arrow (Bike)			 MO4-9cL 		
MO4-9cR Detour w/ Right Arrow (Bike)			 MO4-9cR 		
MO4-10L Detour (in Left Arrow)			 MO4-10L 		
MO4-10R Detour (in Right Arrow)			 MO4-10R 		
POP - Bridge Construction			 CONST-5-96 		
POP - Bridge Improvements			 CONST-5-96 		
POP - Intersection Improvements			 CONST-5-96 		
POP - Lane Additions			 CONST-5-96 		

Design MicroStation CADD Standards

Traffic Control Sheets








Signs (D-2bs) (Cont)

Component	Type: cell	Color: 0	Level: Roadway Signs	Line Style: 0	Line Weight: 2
POP - New Bridge			 <p style="text-align: center; font-size: small;">CONST-5-96</p> 		
POP - New Interchange			 <p style="text-align: center; font-size: small;">CONST-5-96</p> 		
POP - New Intersection			 <p style="text-align: center; font-size: small;">CONST-5-96</p> 		
POP - New Pavement			 <p style="text-align: center; font-size: small;">CONST-5-96</p> 		
POP - New Signals			 <p style="text-align: center; font-size: small;">CONST-5-96</p> 		
POP - Pavement Improvements			 <p style="text-align: center; font-size: small;">CONST-5-96</p> 		
POP - Road Improvements			 <p style="text-align: center; font-size: small;">CONST-5-96</p> 		

Design MicroStation CADD Standards

Traffic Control Sheets









Signs (D-2bs) (Cont)

Component	Type: cell	Color: 0	Level: Roadway Signs	Line Style: 0	Line Weight: 2
POP - Road Resurfacing					
POP - Road Widening					
POP - Safety Improvements					
POP - Signal Improvements					
R1-1 Stop					
R1-2 Yield Sign					
R1-2aP To Oncoming Traffic					

Design MicroStation CADD Standards

Traffic Control Sheets








Signs (D-2bs) (Cont)

Component	Type: cell	Color: 0	Level: Roadway Signs	Line Style: 0	Line Weight: 2
R1-3 X-Way (Plaque)					
R2-1 Speed Limit XX					
R3-1 No Right Turn (Symbol)					
R3-2 No Left Turn (Symbol)					
R3-3 No Turns					
R3-4 No U-Turn (Symbol)					
R3-7L Left Lane Must Turn Left					
R3-7R Right Lane Must Turn Right					

Design MicroStation CADD Standards

Traffic Control Sheets























Signs (D-2bs) (Cont)

Component	Type: cell	Color: 0	Level: Roadway Signs	Line Style: 0	Line Weight: 2
R4-1 Do Not Pass			 R4-1 ○		
R4-2 Pass With Care			 R4-2 ○		
R4-7 Keep Right (Symbol)			 R4-7 ○		
R4-7a Keep Right (Horizontal Arrow)			 R4-7a ○		
R4-7b Keep Left (Horizontal Arrow)			 R4-7b ○		
R5-1 Do Not Enter			 R5-1 ○		
R5-1a Wrong Way			 R5-1a ○		

Design MicroStation CADD Standards

Traffic Control Sheets









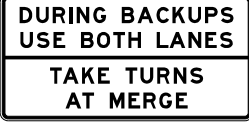







Signs (D-2bs) (Cont)

Component	Type: cell	Color: 0	Level: Roadway Signs	Line Style: 0	Line Weight: 2
R6-1L One Way Arrow (Left)			 <small>R6-1L</small> 		
R6-1R One Way Arrow (Right)			 <small>R6-1R</small> 		
R6-2L One Way (Left)			 <small>R6-2L</small> 		
R6-2R One Way (Right)			 <small>R6-2R</small> 		
R9-9 Sidewalk Closed			 <small>R9-9</small> 		
R9-11L Sidewalk Closed Ahead (Left)			 <small>R9-11L</small> 		
R9-11R Sidewalk Closed Ahead (Right)			 <small>R9-11R</small> 		
R10-6L Stop Here on Red (Left Arrow)			 <small>R10-6L</small> 		
R10-6R Stop Here on Red (Right Arrow)			 <small>R10-6R</small> 		
R11-2 Road Closed			 <small>R11-2</small> 		
R11-3a Road Closed XX Mile Ahead			 <small>R11-3a</small> 		

Design MicroStation CADD Standards

Traffic Control Sheets

Signs (D-2bs) (Cont)

Component	Type: cell	Color: 0	Level: Roadway Signs	Line Style: 0	Line Weight: 2
R11-4 Road Closed To Thru Traffic					
					
			<small>R11-4</small> 		
S4-4P When Flashing					
					
			<small>S4-4P</small> 		
Special Low Clearance					
					
			<small>SPECIAL</small> 		
Special Width Restriction					
					
			<small>SPECIAL</small> 		
Special - During Backups Use Both Lanes					
					
			<small>SPECIAL</small> 		
Special - Take Turns at Merge					
					
			<small>SPECIAL</small> 		
Special - Take Turns					
					
			<small>SPECIAL</small> 		
W10-1 Railroad Crossing					
					
			<small>W10-1</small> 		

Design MicroStation CADD Standards

Traffic Control Sheets











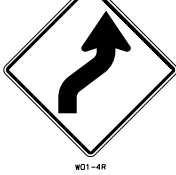

Signs (D-2bs) (Cont)

Component	Type: cell	Color: 0	Level: Roadway Signs	Line Style: 0	Line Weight: 2
<p style="text-align: center;">W01-1L Turn (Symbol Left Arrow)</p>					
<p style="text-align: center;">W01-1R Turn (Symbol Right Arrow)</p>					
<p style="text-align: center;">W01-2L Curve (Symbol Left Arrow)</p>					
<p style="text-align: center;">W01-2R Curve (Symbol Right Arrow)</p>					
<p style="text-align: center;">W01-3L Reverse Turn (Left)</p>					
<p style="text-align: center;">W01-3R Reverse Turn (Right)</p>					

Design MicroStation CADD Standards

Traffic Control Sheets







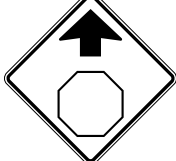

Signs (D-2bs) (Cont)

Component	Type: cell	Color: 0	Level: Roadway Signs	Line Style: 0	Line Weight: 2
W01-4bL Double Arrow Reverse Curve (Left)			 W01-4bL 		
W01-4bR Double Arrow Reverse Curve (Right)			 W01-4bR 		
W01-4cL Triple Arrow Reverse Curve (Left)			 W01-4cL 		
W01-4cR Triple Arrow Reverse Curve (Right)			 W01-4cR 		
W01-4L Reverse Curve (Left)			 W01-4L 		
W01-4R Reverse Curve (Right)			 W01-4R 		

Design MicroStation CADD Standards

Traffic Control Sheets

Signs (D-2bs) (Cont)

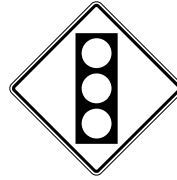
Component	Type: cell	Color: 0	Level: Roadway Signs	Line Style: 0	Line Weight: 2
W01-6 Horizontal Arrow (Small)			 W01-6		
W01-6a Horizontal Arrow (Large)			 W01-6a		
W01-7 Double Headed Horizontal Arrow			 W01-7		
W01-7a Double Headed Horizontal Arrow			 W01-7a		
W01-8 Chevron (Small)			 W01-8		
W01-8a Chevron (Large)			 W01-8a		
W03-1 Stop Ahead (Symbol)			 W03-1		
W03-2 Yield Ahead (Symbol)			 W03-2		

Design MicroStation CADD Standards

Traffic Control Sheets

Signs (D-2bs) (Cont)

Component	Type: cell	Color: 0	Level: Roadway Signs	Line Style: 0	Line Weight: 2
W03-3 Signal Ahead (Symbol)					
W03-4 Be Prepared to Stop					
W03-5 Reduced Speed Limit Ahead					
W04-1L Merge (Symbol From Left)					
W04-1R Merge (Symbol From Right)					
W04-1aL Merge Left					



W03-3



W03-4



W03-5



W04-1L



W04-1R















W04-1aL

Design MicroStation CADD Standards

Traffic Control Sheets

Signs (D-2bs) (Cont)

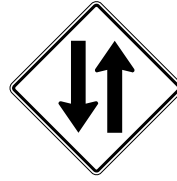
Component	Type: cell	Color: 0	Level: Roadway Signs	Line Style: 0	Line Weight: 2
W04-1aR Merge Right					
					
			W04-1aR 		
W05-1 Road Narrows					
					
			W05-1 		
W05-3 One Lane Bridge					
					
			W05-3 		
W05-5 Narrow Lanes					
					
			W05-5 		
W06-1 Divided Highway (Symbol)					
					
			W06-1 		
W06-2 Divided Highway Ends					
					
			W06-2 		

Design MicroStation CADD Standards

Traffic Control Sheets

Signs (D-2bs) (Cont)

Component	Type: cell	Color: 0	Level: Roadway Signs	Line Style: 0	Line Weight: 2
W06-3 Two Way Traffic (Symbol)					
W07-3a Next XX Miles (Plaque)					
W08-1 Bump					
W08-2 Dip					
W08-3 Pavement Ends					
W08-4 Soft Shoulder					



W06-3



W07-3a



W08-1



W08-2



W08-3















W08-4

Design MicroStation CADD Standards

Traffic Control Sheets














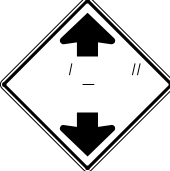



Signs (D-2bs) (Cont)

Component	Type: cell	Color: 0	Level: Roadway Signs	Line Style: 0	Line Weight: 2
W08-5 Slippery When Wet (Symbol)					
					
			W08-5 		
W08-6 Truck Crossing					
					
			W08-6 		
W08-6c Truck Crossing					
					
			W08-6c 		
W08-7 Loose Gravel					
					
			W08-7 		
W08-9 Low Shoulder					
					
			W08-9 		
W08-11 Uneven Lanes					
					
			W08-11 		

Design MicroStation CADD Standards

Traffic Control Sheets















Signs (D-2bs) (Cont)

Component	Type: cell	Color: 0	Level: Roadway Signs	Line Style: 0	Line Weight: 2
W08-12 No Center Line					
					
			W08-12 		
W08-15 Grooved Pavement					
					
			W08-15 		
W08-15P Motorcycle (Plaque)					
					
			W08-15P 		
W08-17 Shoulder Drop-Off					
					
			W08-17 		
W08-17P Shoulder Drop-Off (Plaque)					
					
			W08-17P 		
W012-1 Double Down Arrow (Symbol)					
					
			W012-1 		
					
W012-2 W012-2x Low Clearance					
					
			W012-2 		
					
			W012-2x 		

Design MicroStation CADD Standards

Traffic Control Sheets

Signs (D-2bs) (Cont)

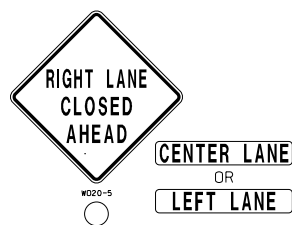
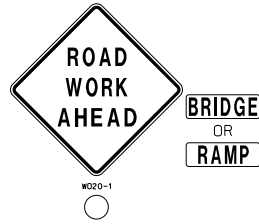
Component	Type: cell	Color: 0	Level: Roadway Signs	Line Style: 0	Line Weight: 2
W012-2a Overhead Low Clearance			 <small>W012-2a</small> 		
W013-1 Advisory Speed (Plaque)			 <small>W013-1</small> 		
W016-2 XXX Feet (Plaque)			 <small>W016-2</small> 		
W016-3 X Mile			 <small>W016-3</small> 		
W16-3a X Mile			 <small>W16-3a</small> 		
W020-1 Road Work Ahead w/ Advanced Warning Railing System (Left)			 <small>W020-1</small> 		
W020-1 Road Work Ahead w/ Advanced Warning Railing System (Right)			 <small>W020-1</small> 		

Design MicroStation CADD Standards

Traffic Control Sheets

Signs (D-2bs) (Cont)

Component	Type: cell	Color: 0	Level: Roadway Signs	Line Style: 0	Line Weight: 2
W020-1 Road/Bridge/Ramp Work Ahead					
W020-2 Detour Ahead					
W020-3 Road Closed Ahead					
W020-3a Road Closed XXX Feet Ahead					
W020-4 One Lane Road Ahead					
W020-5 Right Lane Closed Ahead					



Design MicroStation CADD Standards

Traffic Control Sheets

Signs (D-2bs) (Cont)

Component	Type: cell	Color: 0	Level: Roadway Signs	Line Style: 0	Line Weight: 2
W020-5a 2 Right/Center/Left Lanes Closed Ahead					
W020-6a Right/Center/Left Lane Closed					
W020-7a Flagger (Symbol)					
W020-9c Open Trench					
W021-2 Fresh Oil					
W021-5 Shoulder Work Ahead					



CENTER
OR
LEFT

W020-5a



CENTER
OR
LEFT

W020-6a



W020-7a



W020-9c



W021-2















W021-5

Design MicroStation CADD Standards

Traffic Control Sheets

Signs (D-2bs) (Cont)

Component	Type: cell	Color: 0	Level: Roadway Signs	Line Style: 0	Line Weight: 2
W021-5aL Left Shoulder Closed					
					
			<small>W021-5aL</small> 		
W021-5aR Right Shoulder Closed					
					
			<small>W021-5aR</small> 		
W021-5bL Left Shoulder Closed Ahead					
					
			<small>W021-5bL</small> 		
W021-5bR Right Shoulder Closed Ahead					
					
			<small>W021-5bR</small> 		
W021-7 Sand Blasting					
					
			<small>W021-7</small> 		
W022-1 Blasting Zone 1000 Feet					
					
			<small>W022-1</small> 		

Design MicroStation CADD Standards

Traffic Control Sheets

Signs (D-2bs) (Cont)

Component	Type: cell	Color: 0	Level: Roadway Signs	Line Style: 0	Line Weight: 2
W022-2 Turn Off 2-Way Radio					
W022-3 End Blasting Zone					
W022-6e Wet Point					

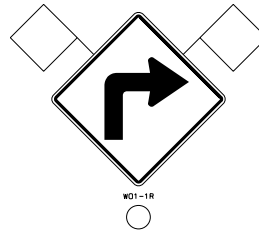
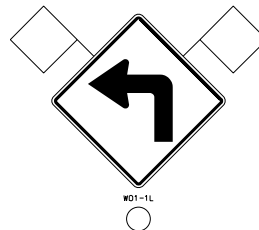
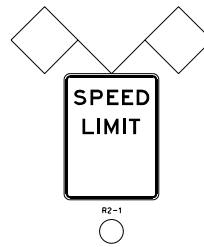
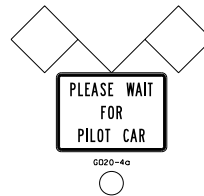
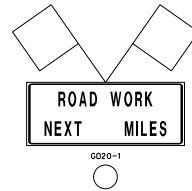


Design MicroStation CADD Standards

Traffic Control Sheets

Signs with Flags (D-2bs)

Component	Type: cell	Color: 0	Level: Roadway Signs	Line Style: 0	Line Weight: 2
Const-3A Work Zone Fine					
G020-1 Road Work Next XX Miles					
G020-4a Please Wait for Pilot Car					
R2-1 Speed Limit XX					
W01-1L Turn (Symbol Left Arrow)					
W01-1R Turn (Symbol Right Arrow)					



Design MicroStation CADD Standards

Traffic Control Sheets

Signs with Flags (D-2bs) (Cont)

Component	Type: cell	Color: 0	Level: Roadway Signs	Line Style: 0	Line Weight: 2
W01-2L Curve (Symbol Left)					
W01-2R Curve (Symbol Right)					
W01-3L Reverse Turn (Left)					
W01-3R Reverse Turn (Right)					
W01-4L Reverse Curve (Left)					
W01-4R Reverse Curve (Right)					

Design MicroStation CADD Standards

Traffic Control Sheets

Signs with Flags (D-2bs) (Cont)

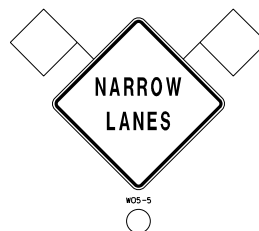
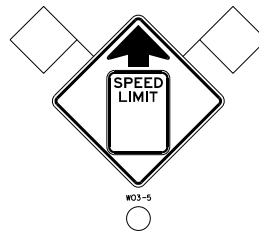
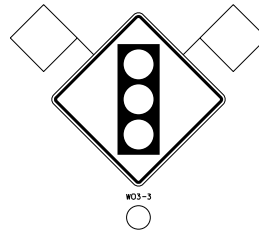
Component	Type: cell	Color: 0	Level: Roadway Signs	Line Style: 0	Line Weight: 2
W01-4bL Double Arrow Reverse Curve (Left)					
W01-4bR Double Arrow Reverse Curve (Right)					
W01-4cL Triple Arrow Reverse Curve (Left)					
W01-4cR Triple Arrow Reverse Curve (Right)					
W03-1 Stop Ahead (Symbol)					
W03-2 Yield Ahead (Symbol)					

Design MicroStation CADD Standards

Traffic Control Sheets

Signs with Flags (D-2bs) (Cont)

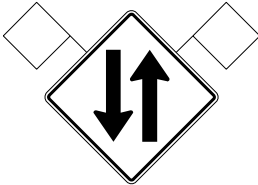




Component	Type: cell	Color: 0	Level: Roadway Signs	Line Style: 0	Line Weight: 2
W03-3 Signal Ahead (Symbol)					
W03-4 Be Prepared to Stop					
W03-5 Reduced Speed Limit Ahead					
W05-1 Road Narrows					
W05-5 Narrow Lanes					



Design MicroStation CADD Standards

Traffic Control Sheets

Signs with Flags (D-2bs) (Cont)

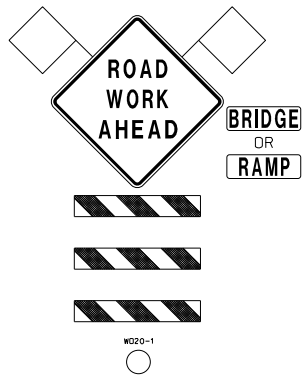
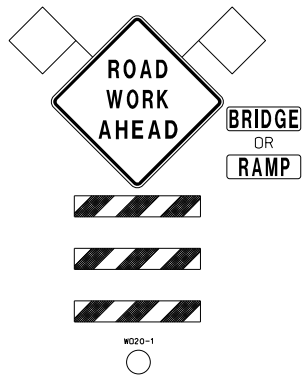
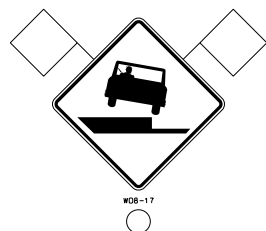
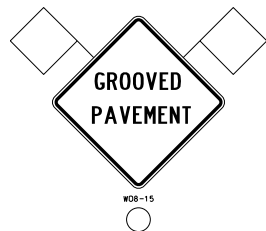
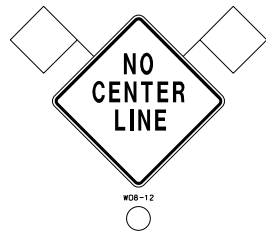
Component	Type: cell	Color: 0	Level: Roadway Signs	Line Style: 0	Line Weight: 2
W06-3 Two Way Traffic (Symbol)					
	 W06-3				
W08-5 Slippery When Wet (Symbol)					
	 W08-5				
W08-6 Truck Crossing					
	 W08-6				
W08-6c Truck Entrance					
	 W08-6c				
W08-11 Uneven Lanes					
	 W08-11				

Design MicroStation CADD Standards

Traffic Control Sheets

Signs with Flags (D-2bs) (Cont)

Component	Type: cell	Color: 0	Level: Roadway Signs	Line Style: 0	Line Weight: 2
W08-12 No Center Line					
W08-15 Grooved Pavement					
W08-17 Shoulder Drop-Off					
W020-1 Road Work w/ Advanced Warning Railing System (Left)					
W020-1 Road Work w/ Advanced Warning Railing System (Right)					

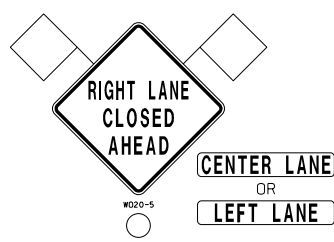
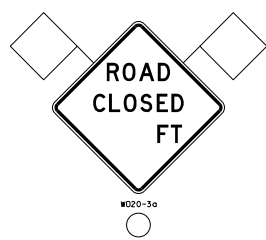
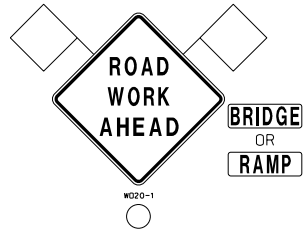


Design MicroStation CADD Standards

Traffic Control Sheets

Signs with Flags (D-2bs) (Cont)

Component	Type: cell	Color: 0	Level: Roadway Signs	Line Style: 0	Line Weight: 2
W020-1 Road/Bridge/Ramp Work Ahead					
W020-3 Road Closed Ahead					
W020-3a Road Closed XXX Feet Ahead					
W020-4 One Lane Road Ahead					
W020-5 Right/Center/Left Lane Closed Ahead					

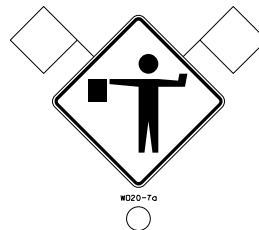
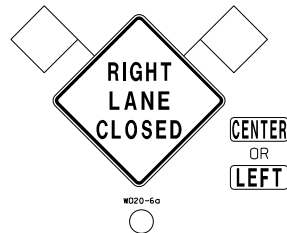
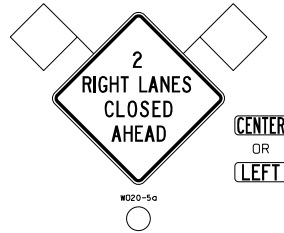


Design MicroStation CADD Standards

Traffic Control Sheets

Signs with Flags (D-2bs) (Cont)



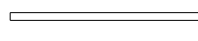




















Component	Type: cell	Color: 0	Level: Roadway Signs	Line Style: 0	Line Weight: 2
<p>W020-5a 2 Right/Center/Left Lanes Closed Ahead</p>					
<p>W020-6a Right/Center/Left Lane Closed</p>					
<p>W020-7a 2 Flagger (Symbol)</p>					



Design MicroStation CADD Standards

Traffic Control Sheets


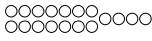















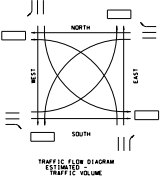
Traffic Control Devices

Component	Type:	Color:	Level:	Line Style:	Line Weight:
 Attenuator	Cell	0	Traffic_Control-Attenuators	0	2
 Raised Pavement Marker	Linear	20	Traffic_Control-Pavement marker	0	2
 Traffic Barrier (Plan View)	Multi-Line	0	Roadway-Safety	0	2
 1 Character Sign Marker	Cell	0	Roadway-Signs	0	2
 2 Characters Sign Marker	Cell	0	Roadway-Signs	0	2
 3 Characters Sign Marker	Cell	0	Roadway-Signs	0	2
 Changeable Message Board	Cell	6	Traffic_Control-Electric signs	0	2
 Channelizer	Cell	0	Traffic_Control-Channelizers	0	0
 Cone	Cell	0	Traffic_Control-Channelizers	0	0
 Delineator (open circle)	Cell	5	Survey-Signs	0	2
 Delineator (filled circle)	Cell	0	Roadway-Signs	0	2
 Delineator (filled square)	Cell	0	Roadway-Signs	0	2
 Delineator (filled triangle)	Cell	0	Roadway-Signs	0	2
 Directional Indicator Barricodes	Cell	0	Traffic_Control-Channelizers	0	2
 Flagger (symbol)	Cell	2	Roadway-Signs	0	1
 Flashing Arrow Panel (Single)	Cell		Traffic_Control-Electric signs	0	1
 Flashing Arrow Panel (Double)	Cell		Traffic_Control-Electric signs	0	1
 Flashing Electric Light	Cell	0	Roadway-Signs	0	2
 Impact Attenuator - 8	Cell	0	Traffic_Control-Attenuators	0	2
 Impact Attenuator - 9	Cell	0	Traffic_Control-Attenuators	0	2
 Impact Attenuator - 10	Cell	0	Traffic_Control-Attenuators	0	2
 Impact Attenuator - 12	Cell	0	Traffic_Control-Attenuators	0	2
 Impact Attenuator - 14	Cell	0	Traffic_Control-Attenuators	0	2

Design MicroStation CADD Standards

Traffic Control Sheets

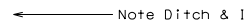


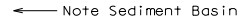

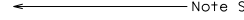



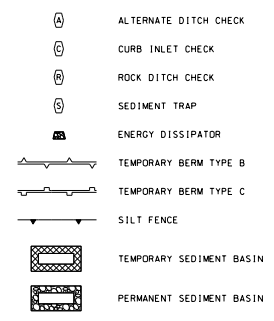
Traffic Control Devices (Cont.)

Component	Type:	Color:	Level:	Line Style:	Line Weight:
 Impact Attenuator - 17	Cell	0	Traffic_Control-Attenuators	0	2
 Impact Attenuator - 19	Cell	0	Traffic_Control-Attenuators	0	2
 Movable Barricade (Left)	Cell	2	Traffic_Control-Barricades	0	1
 Movable Barricade (Right)	Cell	2	Traffic_Control-Barricades	0	1
 Movable Barricade (Plan View)	Cell	2	Traffic_Control-Barricades	0	1
 Movable Barricade (Side View - Left)	Cell		Traffic_Control-Barricades	0	2
 Movable Barricade (Side View - Right)	Cell		Traffic_Control-Barricades	0	2
 Object Marker Type I	Cell	6	Traffic_Control-Barricades	0	2
 Object Marker Type II	Cell	6	Traffic_Control-Barricades	0	2
 Object Marker Type III	Cell	6	Traffic_Control-Barricades	0	2
 Sign Symbol with Number (1 Sided)	Cell	0	Roadway-Signs	0	2
 Sign Symbol with Number (1 Sided)	Cell	0	Roadway-Signs	0	2
 Sign Symbol (1 Sided)	Cell	0	Roadway-Signs	0	2
 Sign Symbol (2 Sided)	Cell	0	Roadway-Signs	0	2
 TMA - Truck Mounted Attenuator	Cell	5	Traffic_Control-Miscellaneous	0	2
<p>TRAFFIC CONTROL LEGEND</p> <ul style="list-style-type: none"> ▲ SIGN (SINGLE SIDED) ▣ SIGN (DOUBLE SIDED) ⚡ FLAGGER ▲ CONE ■ CHANNELIZER ⌋ BARRICADE ☑ CHANGEABLE MESSAGE BOARD <p>Traffic Control Legend</p>	Cell		Common-Legends	0	
 Traffic Barrier (Section View)	Cell	40	Traffic_Control-Traffic barriers	0	1
 Tubular Markers	Cell	0	Traffic_Control-Channelizers	0	0
 <p style="text-align: center;">Turning Diagram</p>	Cell		Common-Legends	0	4

Design MicroStation CADD Standards





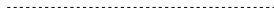
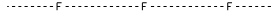
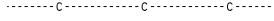

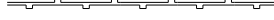
Erosion Control Sheets

Notes

Component	Type:	Color:	Level:	Line Style:	Line Weight:
 Note Ditch & Inlet Checks	Note	Note	1	Text-Ditch labels	0 2
 Note Misc	Note	Note	0	Text-Misc	0 2
 Note Sediment Basin - Temporary	Note	Note	5	Text-Ditch labels	0 2
 Note Sediment Basin - Permanent	Note	Note	0	Text-Ditch labels	0 2
 Note Silt Fence	Note	Note	7	Text-Fence	0 2
 Note Slope Limits	Note	Note	7	Text-Slope line label	0 2
 Note Sodding	Note	Note	4	Text-Landscaping	0 2
 Note Temporary Berm	Note	Note	5	Text-Ditch labels	0 2
 Note Temporary Pipe	Note	Note	31	Text-Drainage structure	0 2
<p>TEMPORARY EROSION CONTROL LEGEND</p>  <p>Temporary Erosion Control Legend</p>					
	Cell			Common-Legends	

Erosion Control Sheets







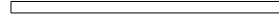
Erosion Control Devices

Component	Type:	Color:	Level:	Line Style:	Line Weight:
 Sediment Basin - Temporary	Linear		5	Erosion_Control-Sediment basin	0 4
 Sediment Basin - Permanent	Linear		0	Erosion_Control-Sediment basin	0 4
 Silt Fence (inside)	Linear		7	Erosion_Control-Silt fence	Custom 4
 Silt Fence (outside)	Linear		7	Erosion_Control-Silt fence	Custom 4
 Slope Limits	Linear		7	Roadway-Slope lines	Dash 4
 Slope Limits - Fill	Linear		7	Roadway-Slope break line	Custom 4
 Slope Limits - Cut	Linear		7	Roadway-Slope break line	Custom 4
 Temporary Berm - Type B	Linear		52	Erosion_Control-Temporary berms	Custom 4
 Temporary Berm - Type C	Linear		52	Erosion_Control-Temporary berms	Custom 4

Design MicroStation CADD Standards











Erosion Control Sheets

Erosion Control Devices (Cont.)

Component	Type:	Color:	Level:	Line Style:	Line Weight:
 Alternate Ditch Check	Cell	1	Erosion_Control-Ditch checks	0	4
 Curb Inlet Check	Cell	1	Erosion_Control-Ditch checks	0	4
 Rock Ditch Check	Cell	1	Erosion_Control-Ditch checks	0	4
 Energy Dissipator	Cell	0	Erosion_Control-Misc	0	4
 Sediment Trap	Cell	1	Erosion_Control-Misc	0	4
 Flow Arrow	Cell	52	Roadway-Ditches	0	2
 6"-36" Temporary Pipe	Multi-Line	31	Erosion_Control-Temporary pipe	0	2

Lighting Sheets









Equipment

Component	Type:	Color:	Level:	Line Style:	Line Weight:
 Controller, Lighting	Cell	0	Lighting_Signals-Equipment	0	1
 Controller, Lighting (exist.)	Cell	0	Lighting_Signals-Equipment	2	1
 Junction Box	Cell	5	Lighting_Signals-Equipment	0	1
 Post, wood	Cell	4	Lighting_Signals-Equipment	0	1
 Power Supply	Cell	2	Lighting_Signals-Equipment	0	1
 Pull Box Concrete Type 1	Cell	0	Lighting_Signals-Equipment	0	1
 Pull Box Concrete Type 2	Cell	0	Lighting_Signals-Equipment	0	1
 Pull Box Performed Type 1	Cell	0	Lighting_Signals-Equipment	0	1
 Pull Box Performed Type 2	Cell	0	Lighting_Signals-Equipment	0	1
 Pull Box (exist.)	Cell	0	Lighting_Signals-Equipment	0	1

Design MicroStation CADD Standards





Lighting Sheets

Equipment (Cont.)

Component	Type:	Color:	Level:	Line Style:	Line Weight:
 Cable-Conduit (new)	Linear	51	Lighting_Signals-Conduit	0	4
 Cable-Conduit (exist.)	Linear	51	Lighting_Signals-Conduit	3	2
 Conduit - Rigid (Bridge)	Linear	51	Lighting_Signals-Conduit	Custom	2
 Conduit - Rigid (exist.)	Linear	51	Lighting_Signals-Conduit	Custom	1
 Conduit - Rigid (Median)	Linear	51	Lighting_Signals-Conduit	Custom	2
 Conduit - Rigid (Pushed)	Linear	51	Lighting_Signals-Conduit	Custom	2
 Conduit - Rigid (Trenched)	Linear	51	Lighting_Signals-Conduit	Custom	2
 Power Cable	Linear	51	Utility-Power	0	2

Lighting Sheets

Luminaires

Component	Type:	Color:	Level:	Line Style:	Line Weight:
 4' arm w/ 150w H.P.S.L. 6' arm w/ 150w H.P.S.L. 8' arm w/ 150w H.P.S.L. 10' arm w/ 150w H.P.S.L. 12' arm w/ 150w H.P.S.L. 15' arm w/ 150w H.P.S.L.	Cell	0	Lighting_Signals-Equipment	0	1
 4' arm w/ 250w H.P.S.L. 6' arm w/ 250w H.P.S.L. 8' arm w/ 250w H.P.S.L. 10' arm w/ 250w H.P.S.L. 12' arm w/ 250w H.P.S.L. 15' arm w/ 250w H.P.S.L.	Cell	0	Lighting_Signals-Equipment	0	1
 4' arm w/ 400w H.P.S.L. 6' arm w/ 400w H.P.S.L. 8' arm w/ 400w H.P.S.L. 10' arm w/ 400w H.P.S.L. 12' arm w/ 400w H.P.S.L. 15' arm w/ 400w H.P.S.L.	Cell	0	Lighting_Signals-Equipment	0	1
 Underpass Luminaire	Cell	0	Lighting_Signals-Equipment	0	1

Design MicroStation CADD Standards

Lighting Sheets























Notes

Component	Type:	Color:	Level:	Line Style:	Line Weight:																						
←————— Note Conduit	Note	51	Text-Utility-power	0	4																						
←————— Note Junction Box	Note	5	Text-Utility-power	0	4																						
←————— Note Lighting Pattern	Note	0	Text-Utility-power	0	4																						
←————— Note Power to Meter	Note	51	Text-Utility-power	0	4																						
←————— Note Power Supply/Source	Note	51	Text-Utility-power	0	4																						
←————— Note Perm. Striping White	Note	0	Text-Perm striping	0	2																						
←————— Note Perm. Striping Yellow	Note	20	Text-Perm striping	0	2																						
←————— Note Temp. Striping White	Note	0	Text-Temp striping	0	2																						
←————— Note Temp. Striping Yellow	Note	0	Text-Temp striping	0	2																						
Text Luminarie + and offset	Text	0	Text-Utility-power	0	4																						
Text Luminarie Post #	Text	0	Text-Utility-power	0	4																						
<div style="border: 1px solid black; padding: 5px; width: fit-content; margin: 0 auto;"> <p style="text-align: center; margin: 0;">LIGHTING LEGEND</p> <table style="width: 100%; font-size: small; border-collapse: collapse;"> <tr> <td>☐ CONTROLLER, LIGHTING</td> <td>⊙ 150 W LUMINAIRE</td> </tr> <tr> <td>☐ CONTROLLER, LIGHTING (EXISTING)</td> <td>⊙ 250 W LUMINAIRE</td> </tr> <tr> <td>○ WOOD POST</td> <td>⊙ 400 W LUMINAIRE</td> </tr> <tr> <td>⊕ POWER SOURCE</td> <td>⊕ POWER SUPPLY</td> </tr> <tr> <td>⊕ JUNCTION BOX</td> <td>☐ PULL BOX (EXISTING)</td> </tr> <tr> <td>■ PULL BOX CONCRETE TYPE 1</td> <td>■ PULL BOX CONCRETE TYPE 2</td> </tr> <tr> <td>■ PULL BOX PREFORMED TYPE 1</td> <td>■ PULL BOX PREFORMED TYPE 2</td> </tr> <tr> <td>—— CONDUIT, RIGID (TRENCH)</td> <td>—— CONDUIT, RIGID (PUSHED)</td> </tr> <tr> <td>—— CONDUIT, RIGID (MEDIAN)</td> <td>—— CONDUIT, RIGID (BRIDGE)</td> </tr> <tr> <td>==== CONDUIT, RIGID (EXISTING)</td> <td>—— CABLE-CONDUIT (EXISTING)</td> </tr> <tr> <td></td> <td>—— CABLE-CONDUIT</td> </tr> </table> </div>			☐ CONTROLLER, LIGHTING	⊙ 150 W LUMINAIRE	☐ CONTROLLER, LIGHTING (EXISTING)	⊙ 250 W LUMINAIRE	○ WOOD POST	⊙ 400 W LUMINAIRE	⊕ POWER SOURCE	⊕ POWER SUPPLY	⊕ JUNCTION BOX	☐ PULL BOX (EXISTING)	■ PULL BOX CONCRETE TYPE 1	■ PULL BOX CONCRETE TYPE 2	■ PULL BOX PREFORMED TYPE 1	■ PULL BOX PREFORMED TYPE 2	—— CONDUIT, RIGID (TRENCH)	—— CONDUIT, RIGID (PUSHED)	—— CONDUIT, RIGID (MEDIAN)	—— CONDUIT, RIGID (BRIDGE)	==== CONDUIT, RIGID (EXISTING)	—— CABLE-CONDUIT (EXISTING)		—— CABLE-CONDUIT	Cell	Common-Legends	
☐ CONTROLLER, LIGHTING	⊙ 150 W LUMINAIRE																										
☐ CONTROLLER, LIGHTING (EXISTING)	⊙ 250 W LUMINAIRE																										
○ WOOD POST	⊙ 400 W LUMINAIRE																										
⊕ POWER SOURCE	⊕ POWER SUPPLY																										
⊕ JUNCTION BOX	☐ PULL BOX (EXISTING)																										
■ PULL BOX CONCRETE TYPE 1	■ PULL BOX CONCRETE TYPE 2																										
■ PULL BOX PREFORMED TYPE 1	■ PULL BOX PREFORMED TYPE 2																										
—— CONDUIT, RIGID (TRENCH)	—— CONDUIT, RIGID (PUSHED)																										
—— CONDUIT, RIGID (MEDIAN)	—— CONDUIT, RIGID (BRIDGE)																										
==== CONDUIT, RIGID (EXISTING)	—— CABLE-CONDUIT (EXISTING)																										
	—— CABLE-CONDUIT																										
Lighting Legend																											

Design MicroStation CADD Standards

Signal Sheets

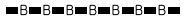
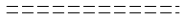





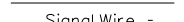
Equipment

Component	Type:	Color:	Level:	Line Style:	Line Weight:
 Controller, Signals	Cell	0	Lighting_Signals-Equipment	0	1
 Controller, Signals (exist.)	Cell	0	Lighting_Signals-Equipment	2	1
 Detector, 6'x6' loop	Cell	0	Roadway-Signals	0	2
 Detector, 6'x15' loop	Cell	0	Roadway-Signals	0	2
 Detector, 6'x30' loop	Cell	0	Roadway-Signals	0	2
 Detector, push button	Cell	0	Lighting_Signals-Equipment	0	1
 ITS - Type 2 Pull Box	Cell	5	Lighting_Signals-Equipment	0	1
 ITS - Type 5 Pull Box	Cell	5	Lighting_Signals-Equipment	0	1
 Junction Box	Cell	5	Lighting_Signals-Equipment	0	1
 Post, wood	Cell	4	Lighting_Signals-Equipment	0	1
 Power Supply	Cell	2	Lighting_Signals-Equipment	0	1
 Pull Box Conc. Type 1	Cell	0	Lighting_Signals-Equipment	0	1
 Pull Box Conc. Type 2	Cell	0	Lighting_Signals-Equipment	0	1
 Pull Box Preformed Type 1	Cell	0	Lighting_Signals-Equipment	0	1
 Pull Box Preformed Type 2	Cell	0	Lighting_Signals-Equipment	0	1
 Pull Box (exist.)	Cell	0	Lighting_Signals-Equipment	0	1
 Signal Head (standard)	Cell	0	Lighting_Signals-Conduit	0	1
 Signal Head (opt. lim.)	Cell	0	Lighting_Signals-Conduit	0	1
 Signal Head (pedestrian)	Cell	0	Lighting_Signals-Conduit	0	1
 Signal Head (opt. lim. conv.)	Cell	0	Lighting_Signals-Conduit	0	1
 Signal Head (exist.)	Cell	0	Lighting_Signals-Conduit	2	1
 Video Detector	Cell	0	Signals-Misc items	0	1

Design MicroStation CADD Standards


Signal Sheets

Equipment (Cont.)

Component	Type:	Color:	Level:	Line Style:	Line Weight:
 Conduit - Bridge	Linear	51	Lighting_Signals-Conduit	Custom	2
 Conduit - Exist.	Linear	51	Lighting_Signals-Conduit	Custom	2
 Conduit - Median	Linear	51	Lighting_Signals-Conduit	Custom	2
 Conduit - Pushed	Linear	51	Lighting_Signals-Conduit	Custom	2
 Conduit - Trenched	Linear	51	Lighting_Signals-Conduit	Custom	2
 Power Cable	Linear	51	Utility-Power	Custom	1
 Span Wire	Linear	0	Lighting-Signals-Conduit	0	1
 Signal Wire - Straight (d38)	Linear	0	Lighting-Signals-Conduit	0	2


Signal Sheets

Mast Arms - Type A Base

Component	Type:	Color:	Level:	Line Style:	Line Weight:
 A Type Base 8' - 54'	Cell	0	Lighting_Signals-Equipment	0	1


Signal Sheets

Mast Arms - Type C Base

Component	Type:	Color:	Level:	Line Style:	Line Weight:
 C Type Base 8' - 54'	Cell	0	Lighting_Signals-Equipment	0	1

Signal Sheets

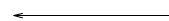




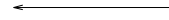
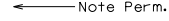
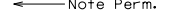
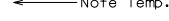
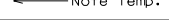
Mast Arms - Type F Base

Component	Type:	Color:	Level:	Line Style:	Line Weight:
 F Type Base 8' - 54'	Cell	0	Lighting_Signals-Equipment	0	1

Design MicroStation CADD Standards











Signal Sheets

Notes

Component	Type:	Color:	Level:	Line Style:	Line Weight:
 Note Conduit	Note	51	Text-Signal	0	1
 Note Controller	Note	0	Text-Signal	0	1
 Note Detector	Note	0	Text-Signal	0	1
 Note Mast Arm	Note	0	Text-Signal	0	1
 Note Signal	Note	0	Text-Signal	0	1
 Note Span Wire	Note	0	Text-Signal	0	1
 Note Perm. Striping White	Note	0	Text-Perm striping	0	1
 Note Perm. Striping Yellow	Note	20	Text-Perm striping	0	1
 Note Temp. Striping White	Note	0	Text-Temp striping	0	1
 Note Temp. Striping Yellow	Note	20	Text-Temp striping	0	1
Text Signal	Text	0	Text-Signal	0	2

Signal Sheets





















Pavement Marking

Component	Type:	Color:	Level:	Line Style:	Line Weight:
 Preformed Left Arrow	Cell	0	Traffic_Control-Permanent striping	0	4
 Preformed Right Arrow	Cell	0	Traffic_Control-Permanent striping	0	4
 Preformed Straight Arrow	Cell	0	Traffic_Control-Permanent striping	0	4
 Preformed Straight-Right Arrow	Cell	0	Traffic_Control-Permanent striping	0	4
 Preformed Straight-Left Arrow	Cell	0	Traffic_Control-Permanent striping	0	4
 Preformed Fish Hook Left Arrow	Cell	0	Traffic_Control-Flow arrows	0	4
 Preformed Fish Hook Straight Arrow	Cell	0	Traffic_Control-Flow arrows	0	4
 Preformed Fish Hook Straight/Left Arrow	Cell	0	Traffic_Control-Flow arrows	0	4
 Preformed Fish Hook Left/Right Arrow	Cell	0	Traffic_Control-Flow arrows	0	4
 Preformed Fish Hook Straight/Left/Right Arrow	Cell	0	Traffic_Control-Flow arrows	0	4

Design MicroStation CADD Standards

Signal Sheets

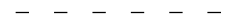



Pavement Marking (Cont.)

Component	Type:	Color:	Level:	Line Style:	Line Weight:
 Preformed Lane Drop Arrow - Left	Cell	0	Traffic_Control-Permanent striping	0	4
 Preformed Lane Drop Arrow - Right	Cell	0	Traffic_Control-Permanent striping	0	4
 Preformed Work (Only) 8' Preformed Work (Only) 10'	Cell	0	Traffic_Control-Permanent striping	0	4
 Stop Line 12' Stop Line 14' Stop Line 24'	Cell	0	Traffic_Control-Permanent striping	0	0
 Yield Line 12' (16" Wide)	Cell	0	Traffic_Control-Permanent striping	0	0
 Yield Line 12' (24" Wide)	Cell	0	Traffic_Control-Permanent striping	0	0
 Bike Lettering - For Bike Lanes	Cell	0	Traffic_Control-Miscellaneous	0	0
 Lane Lettering - For Bike Lanes	Cell	0	Traffic_Control-Miscellaneous	0	0
 Straight Arrow - For Bike Lanes	Cell	0	Traffic_Control-Miscellaneous	0	0
 Symbol 1 - For Bike Lanes	Cell	0	Traffic_Control-Miscellaneous	0	0
 Symbol 2 - For Bike Lanes	Cell	0	Traffic_Control-Miscellaneous	0	0
 Symbol 1 with Sharrows - For Bike Lanes	Cell	0	Traffic_Control-Miscellaneous	0	0
 Symbol 2 with Sharrows - For Bike Lanes	Cell	0	Traffic_Control-Miscellaneous	0	0
 Perm. 4" White Intermittent	Linear	0	Traffic_Control-Permanent striping	Custom	7
 Perm. 4" Yellow Intermittent	Linear	20	Traffic_Control-Permanent striping	Custom	7
 Perm. 4" Solid White	Linear	0	Traffic_Control-Permanent striping	0	7
 Perm 4" Solid Yellow	Linear	20	Traffic_Control-Permanent striping	0	7
 Perm. 4" Intersection Intermittent White 1	Linear	0	Traffic_Control-Permanent striping	Custom	7
 Perm. 4" Intersection Intermittent White 2	Linear	0	Traffic_Control-Permanent striping	Custom	7
 Perm. 4" Roundabout Intermittent White	Linear	0	Traffic_Control-Permanent striping	Custom	7

Design MicroStation CADD Standards










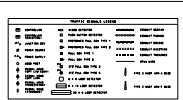
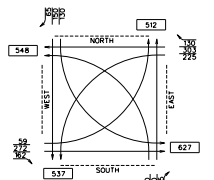
Signal Sheets

Pavement Marking (Cont.)

Component	Type:	Color:	Level:	Line Style:	Line Weight:
 Temp. 4" White Intermittent	Linear	0	Traffic_Control-Temporary striping	Custom	7
 Temp. 4" Yellow Intermittent	Linear	20	Traffic_Control-Temporary striping	Custom	7
 Temp. 4" Solid White	Linear	0	Traffic_Control-Temporary striping	0	7
 Temp. 4" Solid Yellow	Linear	20	Traffic_Control-Temporary striping	0	7

Signal Sheets

Misc. Symbols

Component	Type:	Color:	Level:	Line Style:	Line Weight:
 D38 Standard Plan Light	Cell	0	Lighting_Signals-Conduit	0	1
 D38 Standard Plan Left Turn	Cell	20	Lighting_Signals-Conduit	0	1
 D38 Standard Plan Right Turn	Cell	20	Lighting_Signals-Conduit	0	1
 D38 Standard Plan No Turn	Cell	20	Lighting_Signals-Conduit	0	1
 D38 Standard Stop Line	Cell	20	Lighting_Signals-Conduit	0	1
 Symbol, Detector (Hexagon)	Cell	0	Lighting_Signals-Conduit	0	1
 Symbol, Pull Box (Rectangle)	Cell	0	Lighting_Signals-Conduit	0	1
 Symbol, Signal Pole (Circle)	Cell	0	Lighting_Signals-Conduit	0	1
 Symbol, Signal Head (Triangle)	Cell	0	Lighting_Signals-Conduit	0	1
 Traffic Signals Legend	Cell		Common-Legends		
 Turning Diagram	Cell		Common-Legends		

Design MicroStation CADD Standards

Signing Sheets

Notes

Component	Type:	Color:	Level:	Line Style:	Line Weight:
←————— Note Pattern Area	Note	0	Common-Patterns-hatch	0	2
←————— Note Sign	Note	0	Text-Signs	0	4

Signing Sheets

Signs - Conventional Road Guide Signs









Component	Type: Cell	Color: 0	Level: Roadway Signs	Line Style: 0	Line Weight: 2
ALTPAS Alternating Passing Lane Next XX Miles					
D4-1 Parking Area (Ahead)					
D4-1a Commuter Parking					
D4-1P Commuter (Plaque)					
D4-1L Parking Area (Left)					
D4-1R Parking Area (Right)					
D4-1L45 Parking Area (Left)					
D4-1R45 Parking Area (Right)					



Design MicroStation CADD Standards

Signing Sheets









Signs - Conventional Road Guide Signs (Cont.)

Component	Type: cell	Color: 0	Level: Roadway Signs	Line Style: 0	Line Weight: 2
D5-9 Missouri Welcome Center			 <p style="text-align: center; font-size: small;">D5-9</p>		
D9-2 Hospital (Symbol)			 <p style="text-align: center; font-size: small;">D9-2</p>		
D9-3 Camping (Symbol)			 <p style="text-align: center; font-size: small;">D9-3</p>		
D9-3a Trailer Camping (Symbol)			 <p style="text-align: center; font-size: small;">D9-3a</p>		
D9-6 Handicap Access (Symbol)			 <p style="text-align: center; font-size: small;">D9-6</p>		
D6-7 Gas (Symbol)			 <p style="text-align: center; font-size: small;">D9-7</p>		
D9-8 Food (Symbol)			 <p style="text-align: center; font-size: small;">D9-8</p>		
D9-9 Lodging (Symbol)			 <p style="text-align: center; font-size: small;">D9-9</p>		

Design MicroStation CADD Standards

Signing Sheets











Signs - Conventional Road Guide Signs (Cont.)

Component	Type: cell	Color: 0	Level: Roadway Signs	Line Style: 0	Line Weight: 2
D9-12 RV Sanitary Station			 D9-12		
D10-1 Milepost Marker (1-9)			 D10-1		
D10-2 Milepost Marker (10-99)			 D10-2		
D10-3 Milepost Marker (100-999)			 D10-3		
E5-1 Gore Exit			 E5-1		
E5-1a Gore Exit (Two Characters)			 E5-1a		
I-5 Airport (Symbol)			 I-5		
I-7 Train Station (Symbol)			 I-7		

Design MicroStation CADD Standards

Signing Sheets















Signs - Conventional Road Guide Signs (Cont.)

Component	Type: cell	Color: 0	Level: Roadway Signs	Line Style: 0	Line Weight: 2
14-2a City Limits			 14-2a		
M1-1 Interstate Shield			 M1-1		
M1-1 Interstate Shield (MO)			 M1-1		
M1-2 Business Loop Shield			 M1-2		
M1-4 US Numbered Route Shield			 M1-4		
M1-5 State Numbered Route Shield (2 Numbers)			 M1-5		
M1-5 State Numbered Route Shield (3 Numbers)			 M1-5		
M1-5a State Lettered Route Shield (1 Letter)			 M1-5a		
M1-5a State Lettered Route Shield (2 Letters)			 M1-5a		
M2-1 Junction Marker			 M2-1		

Design MicroStation CADD Standards

Signing Sheets













Signs - Conventional Road Guide Signs (Cont.)

Component	Type: cell	Color: 0	Level: Roadway Signs	Line Style: 0	Line Weight: 2
M3-1 North - Direction Marker			 M3-1		
M3-2 East - Direction Marker			 M3-2		
M3-3 South - Direction Marker			 M3-3		
M3-4 West - Direction Marker			 M3-4		
M4-1 Alternate Marker			 M4-1		
M4-1b Spur Marker			 M4-1b		
M4-3 Business Marker			 M4-3		
M4-5 To Marker			 M4-5		
M4-6 End Marker			 M4-6		
M5-1L Advance Left Turn Arrow			 M5-1L		
M5-1R Advance Right Turn Arrow			 M5-1R		
M5-2L Advance Turn Arrow 45° Left			 M5-2L		
M5-2R Advance Turn Arrow 45° Right			 M5-2R		
M6-1 Turn Arrow			 M6-1		

Design MicroStation CADD Standards

Signing Sheets








Signs - Conventional Road Guide Signs (Cont.)

Component	Type: cell	Color: 0	Level: Roadway Signs	Line Style: 0	Line Weight: 2
M6-2L Arrow 45° Left			 M6-2L		
M6-2R Arrow 45° Right			 M6-2R		
M6-3 Straight Ahead Arrow			 M6-3		
M6-4 2 Way Arrow			 M6-4		
M6-5L 2 Way Arrow 45° Left			 M6-5L		
M6-5R 2 Way Arrow 45° Right			 M6-5R		
M6-6L Arrow (Straight & Left)			 M6-6L		
M6-6R Arrow (Straight & Right)			 M6-6R		
M6-7L Arrow (Straight & 45° Left)			 M6-7L		
M6-7R Arrow (Straight & 45° Right)			 M6-7R		
M10-1 U-Turns			 M10-1		
M10-2 Thru - Roundabout			 M10-2		

Design MicroStation CADD Standards

Signing Sheets









Signs - Conventional Road Guide Signs (Cont.)

Component	Type: cell	Color: 0	Level: Roadway Signs	Line Style: 0	Line Weight: 2
M10-3 Left - Roundabout			 M10-3		
DM1-1 Object Marker Sign			 DM1-1		
S1-1 School Crossing			 S1-1		
S3-1 School Bus Stop Ahead			 S3-1		
S3-1 School Bus Stop Ahead (Figure)			 S3-1		
S4-3P School Plaque			 S4-3P		
S4-4P When Flashing			 S4-4P		

Design MicroStation CADD Standards

Signing Sheets









Signs - Regulatory Signs

Component	Type: cell	Color: 0	Level: Roadway Signs	Line Style: 0	Line Weight: 2
R1-1 Stop					
R1-2 Yield					
R1-2aP To Oncoming Traffic					
R2-1 Speed Limit XX					
R2-5d Speed Limit Except Where Posted					
R3-1 No Right Turn (Symbol)					
R3-2 No Left Turn (Symbol)					
R3-3 No Turns					

Design MicroStation CADD Standards

Signing Sheets









Signs - Regulatory Signs (Cont.)

Component	Type: cell	Color: 0	Level: Roadway Signs	Line Style: 0	Line Weight: 2
R3-4 No U-Turns (Symbol)			 R3-4		
R3-5L Left Arrow Only			 R3-5L		
R3-5R Right Arrow Only			 R3-5R		
R3-5a Straight Ahead Arrow Only			 R3-5a		
R3-6L Left Arrow/Straight Arrow			 R3-6L		
R3-6R Right Arrow/Straight Arrow			 R3-6R		
R3-7L Left Lane Must Turn Left			 R3-7L		
R3-7R Right Lane Must Turn Right			 R3-7R		

Design MicroStation CADD Standards

Signing Sheets








Signs - Regulatory Signs (Cont.)

Component	Type: cell	Color: 0	Level: Roadway Signs	Line Style: 0	Line Weight: 2
R3-9a Two Way Left Turn Only			 R3-9a		
R3-9b Center Lane Only			 R3-9b		
R3-17 Bike Lane			 R3-17		
R3-17aP Bike Lane Ahead (Plaque)			 R3-17aP		
R3-17bP Bike Lane Ends (Plaque)			 R3-17bP		
R4-1 Do Not Pass			 R4-1		
R4-2 Pass With Care			 R4-2		
R4-3 Slower Traffic Keep Right			 R4-3		

Design MicroStation CADD Standards

Signing Sheets










Signs - Regulatory Signs (Cont.)

Component	Type: cell	Color: 0	Level: Roadway Signs	Line Style: 0	Line Weight: 2
R4-4 Right Turn Lane Yield Bike			 R4-4		
R4-7 Keep Right (Symbol)			 R4-7		
R4-7a Keep Right (Horizontal Arrow)			 R4-7a		
R4-7b Keep Right (45 Degrees)			 R4-7b		
R4-8 Keep Left (Symbol)			 R4-8		
R4-28 Next Passing Lane X Miles			 R4-28		
R4-29 End Passing Lanes			 R4-29		

Design MicroStation CADD Standards

Signing Sheets











Signs - Regulatory Signs (Cont.)

Component	Type: cell	Color: 0	Level: Roadway Signs	Line Style: 0	Line Weight: 2
R5-1 Do Not Enter					
R5-1a Wrong Way					
R5-2 No Trucks					
R5-26 No More Trash					
R5-32 Left Lane No Trucks 24 Tons					
R6-1L One Way in Arrow (Left)					
R6-1R One Way in Arrow (Right)					
R6-2L One Way (Left Arrow)					
R6-2R One Way (Right Arrow)					

Design MicroStation CADD Standards

Signing Sheets

Signs - Regulatory Signs (Cont.)

Component	Type: cell	Color: 0	Level: Roadway Signs	Line Style: 0	Line Weight: 2
R6-3 Divided Highway			 R6-3		
R6-3a Divided Highway			 R6-3a		
R6-4 Double Chevron			 R6-4		
R7-1 No Parking Any Time			 R7-1		
R7-1D No Parking Any Time (Both Directions)			 R7-1D		
R7-1L No Parking Any Time (Left Arrow)			 R7-1L		
R7-1R No Parking Any Time (Right Arrow)			 R7-1R		
R7-8 Handicap Reserved Parking			 R7-8		
R8-7 Emergency Stopping Only			 R8-7		
R8-8 Do Not Stop on Tracks			 R8-8		

Design MicroStation CADD Standards

Signing Sheets










Signs - Regulatory Signs (Cont.)

Component	Type: cell	Color: 0	Level: Roadway Signs	Line Style: 0	Line Weight: 2
R10-3eL Pedestrian Signal Countdown (Left)			 R10-3eL		
R10-3eR Pedestrian Signal Countdown (Right)			 R10-3eR		
R10-6L Stop Here on Red 45 Arrow (Left)			 R10-6L		
R10-6R Stop Here on Red 45 Arrow (Right)			 R10-6R		
R10-10R Right Turn Signal			 R10-10R		
R10-11a No Turn on Red			 R10-11a		
R10-12 Left Turn Yield on Green			 R10-12		
R10-15L Left Turning Vehicles - Yield to Pedestrians			 R10-15L		
R10-15R Right Turning Vehicles - Yield to Pedestrians			 R10-15R		

Design MicroStation CADD Standards

Signing Sheets









Signs - Regulatory Signs (Cont.)

Component	Type: cell	Color: 0	Level: Roadway Signs	Line Style: 0	Line Weight: 2
R10-18a Photo Enforced Traffic Light			 R10-18a		
R10-18aP Includes Right Turn			 R10-18aP		
R11-1 Keep Off Median			 R11-1		
R11-2 Road Closed			 R11-2		
R11-3a Road Closed Miles Ahead Local Traffic Only			 R11-3a		
R11-4 Road Closed to Thru Traffic			 R11-4		
R12-1 Weight Limit XX Tons			 R12-1		
R16-27 Buckle Up - It's The Law			 R16-27		
R16-27a Buckle Up - It's The Law			 R16-27a		

Design MicroStation CADD Standards

Signing Sheets









Signs - Warning Signs

Component	Type: cell	Color: 0	Level: Roadway Signs	Line Style: 0	Line Weight: 2
W1-1L Turn Left Arrow					
W1-1R Turn Right Arrow					
W1-2L Curve Left Arrow					
W1-2R Curve Right Arrow					
W1-3L Reverse Turn Left Arrow					
W1-3R Reverse Turn Right Arrow					
W1-4L Reverse Curve Left Arrow					
W1-4R Reverse Curve Right Arrow					

Design MicroStation CADD Standards

Signing Sheets








Signs - Warning Signs (Cont.)

Component	Type: cell	Color: 0	Level: Roadway Signs	Line Style: 0	Line Weight: 2
W1-5L Winding Road (Left)					
W1-5R Winding Road (Right)					
W1-6 Horizontal Arrow (Left & Right)					
W1-7 Double Headed Horizontal Arrow					
W1-8 Chevron					
W2-1 Crossroad					
W2-2 Side Road					
W2-3L Side Road - Oblique					

Design MicroStation CADD Standards

Signing Sheets

Signs - Warning Signs (Cont.)

Component	Type: cell	Color: 0	Level: Roadway Signs	Line Style: 0	Line Weight: 2
W2-3R Side Road - Oblique			 W2-3R		
W2-4 T-Intersection			 W2-4		
W2-5 Y-Intersection			 W2-5		
W2-6 Circular Intersection			 W2-6		
W3-1 Stop Ahead (Symbol)			 W3-1		
W3-2 Yield Ahead (Symbol)			 W3-2		
W3-3 Signal Ahead			 W3-3		

Design MicroStation CADD Standards

Signing Sheets







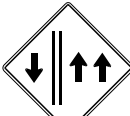

Signs - Warning Signs (Cont.)

Component	Type: cell	Color: 0	Level: Roadway Signs	Line Style: 0	Line Weight: 2
W3-4 Be Prepared To Stop					
W3-5 Reduced Speed Limit Ahead					
W4-1L Merge From Left					
W4-1R Merge From Right					
W4-2L Pavement Width Transition (Left)					
W4-2R Pavement Width Transition (Right)					
W4-3L Added Lane (Left)					

Design MicroStation CADD Standards

Signing Sheets









Signs - Warning Signs (Cont.)

Component	Type: cell	Color: 0	Level: Roadway Signs	Line Style: 0	Line Weight: 2
W4-3R Added Lane (Right)			 W4-3R		
W4-4P Cross Traffic Does Not Stop			 W4-4P		
W5-1 Road Narrows			 W5-1		
W5-3 One Lane Bridge			 W5-3		
W6-1 Divided Highway			 W6-1		
W6-3 Two Way Traffic			 W6-3		
W6-6a Passing Lane Symbol			 W6-6a		
W6-6aP Passing Lane Plaque			 W6-6aP		

Design MicroStation CADD Standards

Signing Sheets





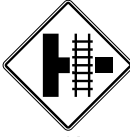
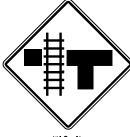
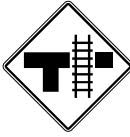
Signs - Warning Signs (Cont.)

Component	Type: cell	Color: 0	Level: Roadway Signs	Line Style: 0	Line Weight: 2
W6-16 Passing Lane Ends			 <p style="text-align: center;">W6-16</p>		
W6-17 Watch Left Turn Traffic			 <p style="text-align: center;">W6-17</p>		
W7-1 Hill			 <p style="text-align: center;">W7-1</p>		
W7-3aP Next XXX Miles			 <p style="text-align: center;">W7-3aP</p>		
W8-3 Pavement Ends			 <p style="text-align: center;">W8-3</p>		
W8-4 Soft Shoulder			 <p style="text-align: center;">W8-4</p>		
W9-1L Left Lane Ends			 <p style="text-align: center;">W9-1L</p>		
W9-1R Right Lane Ends			 <p style="text-align: center;">W9-1R</p>		

Design MicroStation CADD Standards

Signing Sheets









Signs - Warning Signs (Cont.)

Component	Type: cell	Color: 0	Level: Roadway Signs	Line Style: 0	Line Weight: 2
W9-2L Lane Ends Merge Left			 W9-2L		
W9-2R Lane Ends Merge Right			 W9-2R		
W10-1 Railroad Crossing			 W10-1		
W10-2 Railroad Crossing (Crossroad)			 W10-2		
W10-3 Railroad Crossing (Side Road)			 W10-3		
W10-4L Railroad Crossing (T-Intersection) Left			 W10-4L		
W10-4R Railroad Crossing (T-Intersection) Right			 W10-4R		

Design MicroStation CADD Standards

Signing Sheets




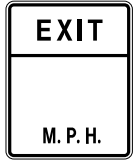




Signs - Warning Signs (Cont.)

Component	Type: cell	Color: 0	Level: Roadway Signs	Line Style: 0	Line Weight: 2
W11-1 Bicycle			 W11-1		
W11-2 Pedestrian Symbol			 W11-2		
W11-3 Deer			 W11-3		
W11-4 Cow			 W11-4		
W11-8 Emergency Vehicle Ahead			 W11-8		
W11-12P Emergency Signal Ahead			 W11-12p		
W11-14 Horse and Buggy			 W11-14		
W12-1 Double Down Arrow			 W12-1		

Design MicroStation CADD Standards

Signing Sheets








Signs - Warning Signs (Cont.)

Component	Type: cell	Color: 0	Level: Roadway Signs	Line Style: 0	Line Weight: 2
W12-2 Low Clearance					
	 W12-2				
W12-2a Overhead Low Clearance Plaque (Feet and Inches)					
	 W12-2a				
W13-1P Advisory Speed					
	 W13-1P				
W13-2 Advisory Exit Speed					
	 W13-2				
W14-1 Dead End					
	 W14-1				
W14-2 No Outlet					
	 W14-2				
W14-3 Not Passing Zone Pennant					
	 W14-3				
W16-1P Share The Road					
	 W16-1P				

Design MicroStation CADD Standards


Signing Sheets

Signs - Warning Signs (Cont.)

Component	Type: cell	Color: 0	Level: Roadway Signs	Line Style: 0	Line Weight: 2
W16-2P XXX Feet			 W16-2P		
W16-3P XXX Miles			 W16-3P		
W16-4P Next XXX Feet			 W16-4P		
W16-7P 45 Degree Directional Arrow (Left)			 W16-7P		
W16-7P 45 Degree Directional Arrow (Right)			 W16-7P		
W16-9P Ahead			 W16-9P		
W16-17P Roundabout Plaque			 W16-17P		

Signing Sheets










Misc. Symbols

Component	Type:	Color:	Level:	Line Style:	Line Weight:
○ 1 Character Sign Marker	Cell	0	Roadway-Signs	0	2
○ 2 Character Sign Marker	Cell	0	Roadway-Signs	0	2
○ 3 Character Sign Marker	Cell	0	Roadway-Signs	0	2
SIGN  Sign Symbol	Cell	0	Roadway-Signs	0	1
○ Attenuator	Linear	0	Roadway-Safety	0	2
○ Delineator - White	Linear	0	Roadway-Safety	0	2
○ Delineator - Yellow	Linear	20	Roadway-Safety	0	2

Design MicroStation CADD Standards






Signing Section Sheets

Lines (misc.)

Component	Type:	Color:	Level:	Line Style:	Line Weight:
 Entrance Line	Linear	11	Roadway-Entrances	0	5
 Existing Sign Board	Linear	1	Roadway-Signs	Dash 2	2
 Footing	Linear	0	Roadway-Signs	0	4
 Grid Lines - Primary	Linear	4	Grid_Line-Main	0	4
 Grid Lines - Secondary	Linear	7	Grid_Line-Main	0	1
 Post	Linear	8	Roadway-Signs	0	4
 Post Behind Sign	Linear	150	Roadway-Signs	Dash 2	2
 Road Section	Linear	1	Typical_Section-New line	0	5
 Sign Board	Linear	0	Roadway-Signs	0	4

Signing Section Sheets

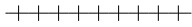
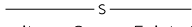
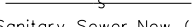
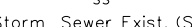
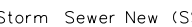
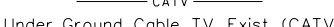
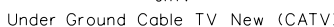
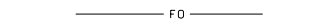
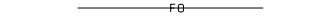
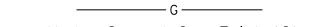
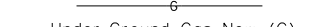

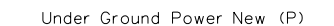


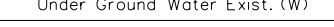
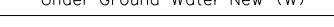
Notes

Component	Type:	Color:	Level:	Line Style:	Line Weight:
 Note Entrance	Note	11	Text-Entrances	0	2
 Note Footing	Note	0	Text-Signs	0	4
 Note Post	Note	8	Text-Signs	0	4
 Note Roadway Grade %	Note	1	Text-Slope line label	0	1
 Note Sign	Note	0	Text-Signs	0	4
Text Sign	Text	0	Text-Signs	0	4
Text Station	Text	2	Text-Alignment info	0	7

Design MicroStation CADD Standards

Signing Section Sheets







Utilities

Component	Type:	Color:	Level:	Line Style:	Line Weight:
 Railroad Single	Linear	1	Utility-Railroad	Custom	2
 Sanitary Sewer Exist. (S)	Linear	114	Utility-Sanitary sewer	Custom	2
 Sanitary Sewer New (S)	Linear	18	Utility-Sanitary sewer	Custom	4
 Storm Sewer Exist. (SS)	Linear	114	Utility-Storm sewer	Custom	2
 Storm Sewer New (SS)	Linear	18	Utility-Storm sewer	Custom	4
 Under Ground Cable TV Exist. (CATV)	Linear	15	Utility-Cable	Custom	2
 Under Ground Cable TV New (CATV)	Linear	70	Utility-Cable	Custom	4
 Under Ground Fiber Optic Cable Exist. (FO)	Linear	15	Utility-Cable	Custom	2
 Under Ground Fiber Optic Cable New (FO)	Linear	70	Utility-Cable	Custom	4
 Under Ground Gas Exist. (G)	Linear	116	Utility-Gas	Custom	2
 Under Ground Gas New (G)	Linear	28	Utility-Gas	Custom	4
 Under Ground Power Exist. (P)	Linear	115	Utility-Power	Custom	2
 Under Ground Power New (P)	Linear	51	Utility-Power	Custom	4
 Under Ground Telephone Exist. (T)	Linear	15	Utility-Telephone	Custom	2
 Under Ground Telephone New (T)	Linear	70	Utility-Telephone	Custom	4
 Under Ground Water Exist. (W)	Linear	12	Utility-Water	Custom	2
 Under Ground Water New (W)	Linear	13	Utility-Water	Custom	4

Design MicroStation CADD Standards














Cross Sections - Culvert Sheets

Drop Inlet (Bases)

Component	Type:	Color:	Level:	Line Style:	Line Weight:
 DI Base 2'-4' Left	Cell	1	Drainage-Structures	0	1
 DI Base 2'-4' Center	Cell	1	Drainage-Structures	0	1
 DI Base 2'-4' Right	Cell	1	Drainage-Structures	0	1
 DI Base 5' Center	Cell	1	Drainage-Structures	0	1
 DI Base Type X variable Left	Cell	1	Drainage-Structures	0	1
 DI Base Type X variable Right	Cell	1	Drainage-Structures	0	1

Cross Sections - Culvert Sheets
















Drop Inlet (Tops)

Component	Type:	Color:	Level:	Line Style:	Line Weight:
 A (2x2) left, right	Cell	1	Drainage-Structures	0	1
 A (2x2) side view	Cell	1	Drainage-Structures	0	1
 A (4x2) left, right	Cell	1	Drainage-Structures	0	1
 B (2x2) left, right	Cell	1	Drainage-Structures	0	1
 B (4x2) left, right	Cell	1	Drainage-Structures	0	1
 C (2x2) left, right	Cell	1	Drainage-Structures	0	1
 C (4x2) left, right	Cell	1	Drainage-Structures	0	1
 D (2x2) left w/curb, right w/curb	Cell	1	Drainage-Structures	0	1
 D (2x2) left w/out curb manhole, right w/out curb manhole	Cell	1	Drainage-Structures	0	1
 E variable side view	Cell	1	Drainage-Structures	0	1
 E variable front view	Cell	1	Drainage-Structures	0	1
 S-1 (5x2) side view	Cell	1	Drainage-Structures	0	1
 S-1 (5x3) side view	Cell	1	Drainage-Structures	0	1

Design MicroStation CADD Standards

Cross Sections - Culvert Sheets



Drop Inlet (Tops) (Cont.)

Component	Type:	Color:	Level:	Line Style:	Line Weight:
 S-1 variable side view	Cell	1	Drainage-Structures	0	1
 S-1 variable side view(1)	Cell	1	Drainage-Structures	0	1
 S-2 (5x2) left, right	Cell	1	Drainage-Structures	0	1
 S-2 variable left, right	Cell	1	Drainage-Structures	0	1
 S-2 variable side view	Cell	1	Drainage-Structures	0	1
 S-3 (3x2) side view	Cell	1	Drainage-Structures	0	1
 S-3 (5x3) left, right	Cell	1	Drainage-Structures	0	1
 S-3 (5x3) side view	Cell	1	Drainage-Structures	0	1
 S-3 variable side view	Cell	1	Drainage-Structures	0	1
 S-3 variable side view(1)	Cell	1	Drainage-Structures	0	1
 S-3 variable for E & EE modified	Cell	1	Drainage-Structures	0	1
 T (2.5x3) left, right	Cell	1	Drainage-Structures	0	1
 T (2.5x3) left w/ manhole right w/ manhole	Cell	1	Drainage-Structures	0	1
 T variable	Cell	1	Drainage-Structures	0	1
 X variable left, right	Cell	1	Drainage-Structures	0	1

Design MicroStation CADD Standards





Cross Sections - Culvert Sheets

Flared End Sections (Metal)

Component	Type:	Color:	Level:	Line Style:	Line Weight:
 12''-84'' F.E.S. Left	Cell	31	Drainage-Structures	0	4
 12''-84'' F.E.S. Right	Cell	31	Drainage-Structures	0	4


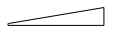
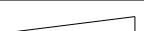

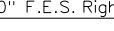
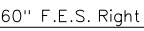
Cross Sections - Culvert Sheets

Flared End Sections (Concrete)

Component	Type:	Color:	Level:	Line Style:	Line Weight:
 12''-84'' Inlet Left	Cell	31	Drainage-Structures	0	4
 12''-84'' Outlet Left	Cell	31	Drainage-Structures	0	4
 12''-84'' Inlet Right	Cell	31	Drainage-Structures	0	4
 12''-84'' Outlet Right	Cell	31	Drainage-Structures	0	4

Cross Sections - Culvert Sheets

Flared End Sections (Safety)

Component	Type:	Color:	Level:	Line Style:	Line Weight:
 15''-60'' F.E.S. Left (4:1)	Cell	31	Drainage-Structures	0	4
 15''-60'' F.E.S. Left (6:1)	Cell	31	Drainage-Structures	0	4
 15''-36'' F.E.S. Left (10:1)	Cell	31	Drainage-Structures	0	4
 15''-60'' F.E.S. Right (4:1)	Cell	31	Drainage-Structures	0	4
 15''-60'' F.E.S. Right (6:1)	Cell	31	Drainage-Structures	0	4
 15''-36'' F.E.S. Right (10:1)	Cell	31	Drainage-Structures	0	4

Design MicroStation CADD Standards

Cross Sections - Culvert Sheets

Labels

Component	Type:	Color:	Level:	Line Style:	Line Weight:
Profile Report Text	Text	1	XS-Text-profile report	0	0

Cross Sections - Culvert Sheets




Lines (misc.)

Component	Type:	Color:	Level:	Line Style:	Line Weight:
----- Centerline of Road	Linear	20	XS-Existing surface-ground	4	4
/// /// /// Class 3 Excavation Line	Linear	31	Default	Custom	2
----- Entrance Line	Linear	11	Roadway-Entrances	0	5
----- Flowline of Pipe	Linear	31	Drainage-Structures	0	1
----- Ground Line (Exist.)	Linear	90	XS-Existing surface-ground	2	3
----- Ground Line (New)	Linear	1	XS-Proposed surface-ground	0	5
----- Headwall (Exist.)	Linear	31	Drainage-Structures	Dash 2	2
----- Headwall (New)	Linear	31	Drainage-Structures	0	2
----- Metal Flared End Section (Exist.)	Linear	31	Drainage-Structures	Dash 2	2
----- Metal Flared End Section (New)	Linear	31	Drainage-Structures	0	2
----- Permanent Easement	Linear	2	Roadway-Permanent easement	Dash 6	4
----- Retaining Wall	Linear	99	Roadway-Walls	0	4
----- Right of Way (Exist.)	Linear	6	Roadway-Existing rw	Dash 4	4
----- Right of Way (New)	Linear	2	Roadway-New rw	0	6
----- Rock Lining	Linear	1	Common-Patterns-hatch	0	2
----- Sound wall	Linear	99	Roadway-Walls	0	4
----- Subgrade Line	Linear	0	XS-Existing surface-ground	0	2
----- Temporary Easement	Linear	6	Roadway-Temporary easement	Dash 4	2

Design MicroStation CADD Standards







Cross Sections - Culvert Sheets

Precast Manholes

Component	Type:	Color:	Level:	Line Style:	Line Weight:
 Manhole 4'-6'	Cell	1	Drainage-Structures	0	1
 Manhole Top 4'-6' (Paved)	Cell	1	Drainage-Structures	0	1
 Manhole Top 4'-6' (Unpaved)	Cell	1	Drainage-Structures	0	1



Cross Sections - Culvert Sheets

Pipes-Culverts (CMP, RCP, & Culverts)

Component	Type:	Color:	Level:	Line Style:	Line Weight:
 CMP/RCP/Culvert (Exist.)	Linear	31	Drainage-Structures	Dash 3	2
 CMP/RCP/Culvert (New)	Linear	31	Drainage-Structures	0	4
 CMP/RCP 6" - 84" (Exist.)	Multi-line	31	Drainage-Structures	Dash 3	2
 CMP/RCP 6" - 84" (New)	Multi-line	31	Drainage-Structures	0	4
 1/2' - 8' Box Culvert (Exist.)	Multi-line	31	Drainage-Structures	Dash 3	2
 1/2' - 8' Box Culvert (New)	Multi-line	31	Drainage-Structures	0	4

Cross Sections - Culvert Sheets










Safety

Component	Type:	Color:	Level:	Line Style:	Line Weight:
 Guardrail Section	Cell	99	Roadway-Safety	0	2
 Traffic Barrier Section	Cell	40	Traffic_Control-Traffic barriers	0	1

Design MicroStation CADD Standards

Cross Sections - Culvert Sheets

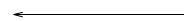




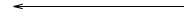




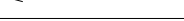







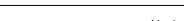



Utilities

Component	Type:	Color:	Level:	Line Style:	Line Weight:
 Railtops	Linear	1	Utility-Railroad	0	1
 Sanitary Sewer Section (Exist.)	Linear	114	Utility-Sanitary sewer	Dash 2	1
 Sanitary Sewer Section (New)	Linear	18	Utility-Sanitary sewer	0	4
 Storm Sewer Section (Exist.)	Linear	114	Utility-Storm sewer	Dash 2	1
 Storm Sewer Section (New)	Linear	18	Utility-Storm sewer	0	4
 Under Ground Cable TV Section (Exist.)	Linear	15	Utility-Cable	Dash 2	1
 Under Ground Cable TV Section (New)	Linear	70	Utility-Cable	0	4
 Under Ground Fiber Optic Cable Section (Exist.)	Linear	15	Utility-Cable	Dash 2	1
 Under Ground Fiber Optic Cable Section (New)	Linear	70	Utility-Cable	0	4
 Under Ground Gas Section (Exist.)	Linear	116	Utility-Gas	Dash 2	1
 Under Ground Gas Section (New)	Linear	60	Utility-Gas	0	4
 Under Ground Power Section (Exist.)	Linear	115	Utility-Power	Dash 2	1
 Under Ground Power Section (New)	Linear	51	Utility-Power	0	4
 Under Ground Telephone Section (Exist.)	Linear	15	Utility-Telephone	Dash 2	1
 Under Ground Telephone Section (New)	Linear	70	Utility-Telephone	0	4
 Under Ground Water Section (Exist.)	Linear	12	Utility-Water	Dash 2	1
 Under Ground Water Section (New)	Linear	13	Utility-Water	0	4

Design MicroStation CADD Standards



Cross Sections - Culvert Sheets

Notes

Component	Type:	Color:	Level:	Line Style:	Line Weight:
 Note Centerline of Road	Note	Note	20	XS-Proposed surface-pavement	0 2
 Note Class III Excavation	Note	Note	0	Common-Notes	0 2
 Note Existing Ground Line	Note	Note	4	XS-Existing surface-ground	0 4
 Note Flared End Section	Note	Note	31	Text-Drainage structure	0 2
 Note Pipe Callout	Note	Note	31	Text-Drainage structure	0 2
 Note Profile Grade	Note	Note	1	XS-Text-profile report	0 2
 Note Rock Type Ditch	Note	Note	0	Text-Ditch labels	0 2
 Note Utility Cable TV (Exist.)	Note	Note	15	Text-Utility-cable	0 1
 Note Utility Cable TV (New)	Note	Note	70	Text-Utility-cable	0 4
 Note Utility Gas (Exist.)	Note	Note	116	Text-Utility-gas	0 1
 Note Utility Gas (New)	Note	Note	60	Text-Utility-gas	0 4
 Note Utility Power (Exist.)	Note	Note	115	Text-Utility-power	0 1
 Note Utility Power (New)	Note	Note	51	Text-Utility-power	0 4
 Note Utility Railroad	Note	Note	1	Text-Utility-railroad	0 4
 Note Utility Sanitary Sewer (Exist.)	Note	Note	114	Text-Utility-sanitary sewer	0 1
 Note Utility Sanitary Sewer (New)	Note	Note	18	Text-Utility-sanitary sewer	0 4
 Note Utility Storm Sewer (Exist.)	Note	Note	114	Text-Utility-storm sewer	0 1
 Note Utility Storm Sewer (New)	Note	Note	18	Text-Utility-storm sewer	0 4
 Note Utility Telephone (Exist.)	Note	Note	15	Text-Utility-telephone	0 1
 Note Utility Telephone (New)	Note	Note	70	Text-Utility-telephone	0 4
 Note Utility Water (Exist.)	Note	Note	12	Text-Utility-water	0 1
 Note Utility Water (New)	Note	Note	13	Text-Utility-water	0 4
Text Cut and Fill	Text	Text	1	XS-Text-earthwork labels	0 4
Text Ditch Flowline Elevation	Text	Text	52	Text-Ditch labels	0 1
Text Ditch Information	Text	Text	52	Text-Ditch labels	0 1
Text Elevation	Text	Text	5	XS-Text-elevation	0 5
Text Entrance Grade %	Text	Text	11	Text-Entrances	0 1
Text Entrance Information	Text	Text	11	Text-Entrances	0 1
Text Pipe Callout	Text	Text	31	Text-Drainage structure	0 2
Text Pipe Flowline Elevation	Text	Text	31	Text-Drainage structure	0 1
Text Pipe Flowline Grade %	Text	Text	31	Text-Drainage structure	0 1
Text Road Elevations (Exist.)	Text	Text	1	XS-Text-pavement elevations	0 2
Text Road Elevations (New)	Text	Text	0	XS-Text-pavement elevation	0 2
Text Stationing	Text	Text	2	XS-Text-pavement elevation	0 7

Cross Sections - Culvert Sheets

Misc. Symbols

Component	Type:	Color:	Level:	Line Style:	Line Weight:
 Flared End Section Callout Bubble	Cell	Cell	31	Text-Drainage structure	0 2
 Flowline Arrow	Cell	Cell	52	Roadway-Ditches	0 2