MISSOURI
DEPARTMENT OF TRANSPORTATION

MicroStation®
CADD Standards

11/07/2008

MicroStation CADD Standards

All Setting Managers

Notes

Component Type: Text Line Style: 0	Color	Level	Line Weight	Text Height
Note .10 Xtra-Small	7	Common-Notes	1	2.5 (.10)
Note .12 Small	5	Common-Notes	2	3.05 (.12)
Note .15 Medium	4	Common-Notes	4	3.8 (.15)
Note .18 Large	1	Common-Notes	5	4.6 (.18)
Note.21Xtra-Large	2	Common-Notes	7	5.3 (.21)
Text .10 Xtra-Small	7	Common-Notes	1	2.5 (.10)
Text .12 Small	5	Common-Notes	2	3.05 (.12)
Text .15 Medium	4	Common-Notes	4	3.8 (.15)
Text .18 Large	1	Common-Notes	5	4.6 (.18)
Text .21 Xtra-Large	2	Common-Notes	7	5.3 (.21)
Text General Note	4	Text-General Notes	4	3.05 (.12)

Title

Notes

Component Type: Text Line Style: 0	Color	Level	Line Weight	Text Height
Text City Name	5	Common-Notes	5	4.6 (.18)
Text Population	5	Common-Notes	4	3.8 (.15)
Text Station Limits	0	Common-Dimensions	5	4.6 (.18)
Text Township/Range	10	Common-Notes	4	3.8 (.15)

Typical Sections

Notes

Component Type: Text Line Style: 0	Color	Level	Line Weight	Text Height
Note Pavement History	4	Common-Notes	2	3.05 (.12)
Note with Slope Arrow	5	Common-Notes	2	3.05 (.12)

Summary

Notes

Component Type: Text Line Style: 0	Color	Level	Line Weight	Text Height
See "All Settings Managers" Above				

Plan

Drainage (notes only)

Component Type: Text Line Style: 0	Color	Level	Line Weight	Text Height
Note CMP,PVC,RCP,Culv't	31	Text-Drainage structure	4	3.05 (.12)
Note Cond Basin	31	Text-Drainage structure	1	2.03 (.08)
Note Ditch Block	68	Text-Ditch labels	2	3.05 (.12)
Note Ditch Lining & Size	52	Text-Ditch labels	2	3.05 (.12)
Note Ditch Type	52	Text-Ditch labels	2	3.05 (.12)
Note Rock Type	0	Text-Ditch labels	2	3.05 (.12)
Note Slope Line	53	Text-Slope line label	2	3.05 (.12)
Text CMP,PVC,RCP,Culv't	31	Text-Drainage structure	4	3.05 (.12)
Text Removals (R)	0	Common-Removals	2	3.05 (.12)

Plan

Exhibits (notes only)

Component Type: Text Line Style: 0	Color	Level	Line Weight	Text Height
BLOCK Style Text Small	5	Common-Notes	2	3.05 (.12)
BLOCK Style Text Medium	4	Common-Notes	4	3.8 (.15)
BLOCK Style Text Large	1	Common-Notes	5	4.6 (.18)
BLOCK Text X-Large	2	Common-Notes	7	5.33 (.21)
Text Small	5	Common-Notes	2	3.05 (.12)
Text Medium	4	Common-Notes	4	3.8 (.15)
Text Large	1	Common-Notes	5	4.6 (.18)
Text X-Large	2	Common-Notes	7	5.33 (.21)

Plan

General Construction (Build)

Component Type: Text Line Style: 0	Color	Level	Line Weight	Text Height
Note Abandoned	0	Common-Removals	2	3.05 (.12)
Note Cons't Dept 2.5mm (.10")	2	Text-Construction notes	1	2.5 (.10)
Note Cons't Dept 3.05mm (.12")	2	Text-Construction notes	2	3.05 (.12)
Note Cons't Dept 3.8mm (.15")	2	Text-Construction notes	4	3.8 (.15)
Note Cons't Dept 4.6mm (.18")	2	Text-Construction notes	5	4.6 (.18)
Note Cons't Dept 5.3mm (.21")	2	Text-Construction notes	7	5.3 (.21)
Note Grading (Grade To Drain)	52	Common-Build notes	2	3.05 (.12)
Note Linear Grading Type	0	Common-Build notes	2	3.05 (.12)
Note Misc Details	0	Common-Build notes	4	3.05 (.12)
Note No Direct Pay	0	Common Build notes	2	3.05 (.12)
Note Obliteration	0	Common-Removals	4	3.05 (.12)
Note Saw Cut - Pav't Repair	0	Common-Build notes	2	3.05 (.12)
Text (L.I.P.)(UIP)(DND)	5	Text-Construction notes	2	3.05 (.12)
Text Beg./ End Project	20	Common-Build notes	2	3.05 (.12)
Text Cons't Dept 2.5mm (.10")	2	Text-Construction notes	1	2.5 (.10)
Text Cons't Dept 3.05mm (.12")	2	Text-Construction notes	2	3.05 (.12)
Text Cons't Dept 3.8mm (.15")	2	Text-Construction notes	4	3.8 (.15)
Text Cons't Dept 4.6 mm (.18")	2	Text-Construction notes	5	4.6 (.18)
Text Cons't Dept 5.3mm (.21")	2	Text-Construction notes	7	5.3 (.21)
Text General Note	4	Text-General notes	4	3.05 (.12)
Text Removals (R)	0	Common-Removals	2	3.05 (.12)

Plan

R/W

Component Type: Text Line Style: 0	Color	Level	Line Weight	Text Height
Note City Limits	5	Common-Notes	4	3.05 (.12)
Note Esm't (Perm)	2	Text-Permenant easement	4	3.8 (.15)
Note Esm't (Temp)	6	Text-Temporary easement	4	3.05 (.12)
Note R/W (Exist)	6	Text-Existing rw label	4	3.8 (.15)

Plan

R/W (Cont.)

Component Type: Text Line Style: 0	Color	Level	Line Weight	Text Height
←——— Note R/W (New)	2	Text-New rw label	4	3.8 (.15)
←— Note R/W - Borrow Area	8	Text-Property owner	4	3.8 (.15)
←——— Note R/W - Excess	2	Common-Notes	4	3.8 (.15)
Text BM or GRS Symbol Notation	10	Text-Bench mark	1	2.03 (.08)
Text Bearing & Dist. and P.O.B.	20	Text-Rw taking	4	3.05 (.12)
Text City Name	5	Common-Notes	5	3.8 (.15)
Text County/State Line	10	Common-Notes	5	3.8 (.15)
Text Esm't (Perm) Sta & Offset	2	Text-Permanant easement	4	3.05 (.12)
Text Landcall (Sec-Twn-Ran)	10	Common-Notes	5	3.8 (.15)
Text Landptn or Corner	5	Text-Bench mark	1	2.03 (.08)
Text R/W (Exist) Sta & Offset	6	Text-Existing rw label	4	3.8 (.15)
Text R/W (New) Sta & Offset	2	Text-New rw label	4	3.8 (.15)
Text Sec ¼, and ¼ ¼ (along)	16	Text-Sections	4	3.05 (.12)
Text Section Line (above elem)	10	Text-Sections	4	3.05 (.12)
Text Section, Township Range	1	Text-Sections	4	3.8 (.15)
Text Subdivision Name & Lot No.	5	Text-Property owner	4	3.05 (.12)
Text Survey & Grant/Lease Line	5	Text-Land tie details	4	3.05 (.12)
Text Township / Range Line	10	Common-Notes	4	3.05 (.12)
Text USGS BM Datum	10	Text-Bench mark	2	3.05 (.12)

Plan

Roadside

Component Type: Text Line Style: 0	Color	Level	Line Weight	Text Height
←——— Note Environmental	99	Text-Environmental	4	3.8 (.15)
←——— Note Landscaping	4	Text-Landscaping	4	3.05 (.12)
Text Benchmark GRS	10	Text-Bench mark	2	3.05 (.12)
Text bldg (B,H,S,G) Overhang	14	Text-Building labels	2	3.05 (.12)
Text Business Name	5	Text-Building labels	5	4.6 (.18)
Text Cemetery	1	Text-Public property	2	3.05 (.12)
Text Delineator/Milemarker/SIGN	0	Text-Signs	1	2.03 (.08)
Text Fence (Woven/Chain Link)	4	Text-Fence	1	2.03 (.08)
Text Private Property	5	Text-Private property	1	2.03 (.08)
Text Sdwk & Border	1	Text-Sidewalk	2	3.05 (.12)
Text Steps & Wheelchair Ramp	1	Text-Sidewalk	1	2.03 (.08)
Text Trail	8	Text-Public property	2	2.03 (.08)

Plan

Roadway

Component Type: Text Line Style: 0	Color	Level	Line Weight	Text Height
Note Abutment	0	Text-Safety label	2	3.05 (.12)
Note Barrier	99	Text-Safety label	2	3.05 (.12)
Note Bridge	0	Text-Safety label	4	3.8 (.15)
Note Cons't Joint	0	Text-Edge of pavement	1	2.03 (.08)
Note Retaining Wall	99	Text-Safety label	2	3.05 (.12)
Note Rte Label - Main Line	20	Text-Main route label	5	3.8 (.15)
Note Sound Wall	99	Text-Safety label	2	3.05 (.12)
Text Alignment Number	20	Text-Alignment info	1	2.03 (.08)
Text Bearing (above)	20	Text-Alignment info	4	3.05 (.12)
Text C&G Sta & Offset	11	Text-Curb	2	3.05 (.12)
Text Curb - Existing	114	Text-Curb	2	3.05 (.12)
Text Curb or C&G	11	Text-Curb	2	3.05 (.12)
Text Curve Number	20	Text Curve info	1	2.03 (.08)
Text Edge of Pavement (EP)	0	Text-Edge of pavement	2	3.05 (.12)
Text Edge of Pvmt Sta & Offset	0	Text-Edge of pavement	2	3.05 (.12)
Text Entrance Edge of Apron	11	Text-Shoulder	2	3.05 (.12)
Text Entrance Radius Points	11	Text-Entrances	2	3.05 (.12)
Text Equation	20	Text-Alignment info	5	3.8 (.15)
Text Island Radius Points	11	Text-Curb	1	2.03 (.08)
Text Matchline	2	Text-Main route label	5	5.00 (.25)
Text Median Radius Point	20	Text-Safety label	2	3.05 (.12)
Text Median or Median Strip	99	Text-Safety label	2	3.05 (.12)
Text PC,PRC,PT,TS,ST	20	Text-Project pt pc	4	3.8 (.15)
Text Pedestrian Overpass	5	Text-Safety label	2	3.05 (.12)
Text Ramp Number	20	Text-Route label	4	3.8 (.15)
Text Retain Wall Sta & Offset	99	Text-Safety label	2	3.05 (.12)
Text Rte Intersection Tie	20	Text-Route label	5	3.8 (.15)
Text Rte Label -Perm. Connection	20	Text-Main route label	5	3.8 (.15)
Text Rte Label -Service/Crossrd	20	Text-Route label	5	3.8 (.15)
Text Rte Label -Side/Outer Roads	20	Text-Route label	5	3.8 (.15)
Text Shoulder	11	Text-Shoulder	2	3.05 (.12)
Text Shoulder Sta & Offset	11	Text-Shoulder	2	3.05 (.12)
Text Stationing	20	Text-Alignment info	7	5.3 (.21)
Text Stationing - Existing	20	Text-Alignment info	4	4.6 (.18)
Text Surface Type	0	Text-Edge of pavement	1	2.03 (.08)

MicroStation CADD Standards

Plan

Roadway (Temporary)

Component Type: Text Line Style: 0	Color	Level	Line Weight	Text Height
←——Note Rte Label-Temp Bypass	20	Common-Removals	4	3.05 (.12)
←—Note Rte Label-Temp Connection	20	Common-Removals	4	3.05 (.12)
←—Note Rte Label-Temp Crossover	20	Common-Removals	4	3.05 (.12)
Text Alignment Number	20	Common-Removals	1	2.03 (.08)
Text Bearing (above elem)	20	Common-Removals	2	3.05 (.12)
Text Curve Number (along elem)	20	Common-Removals	1	2.03 (.08)
Text Equation (above elem)	20	Common-Removals	4	3.05 (.12)
Text PC,PRC,PT,TS,ST	20	Common-Removals	4	3.05 (.12)
Text Rte Intersection Tie	20	Common-Removals	4	3.05 (.12)
Text Stationing	20	Common-Removals	4	3.05 (.12)
Text Striping Description	0	Common-Removals	2	2.03 (.08)

Plan

Sheet Labels - Old Border (bottom 3 are New Border additions)

Component Type: Text Line Style: 0	Color	Level	Line Weight	Text Height
Revision Date Text	0	Common-Sheet info	1	2.85 (.11)
Text Date, Time, Sheet Title	5	Common-Sheet info	2	3.05 (.12)
Text Dist No., Sheet No., Route	1	Common-Sheet info	6	5.3 (.21)
Text Job No. Contract & County	4	Common-Sheet info	6	3.05 (.15)
Text Rev Date, Path, FN	5	Common-Sheet info	2	3.05 (.12)
XXXXX SHEET SHEET XX OF XX	4	Text - General Notes (Standard Sheet Label)	0	N/A
Text Addendum Date	4	Common Sheet Info	3	1.8
Text - Addendum Description	4	Common Sheet Info	3	1.8

Plan

Striping

Component Type: Text Line Style: 0	Color	Level	Line Weight	Text Height
←—Note Permanent Striping Station	0	Text-Perm striping	4	3.05 (.12)
←——Note Permanent Striping Type	0	Text-Perm striping	4	3.05 (.12)
←——Note Temp Striping Station	1	Text-Temp striping	2	3.05 (.12)

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Plan

Utilities

Component Type: Text Line Style: 0	Color	Level	Line Weight	Text Height
Text Cable TV	70	Text-Utility-cable	1	2.03 (.08)
Text Fiber Optic Cable	70	Text-Utility-cable	1	2.03 (.08)
Text Gas	60	Text-Utility-gas	1	2.03 (.08)
Text Pole (Combo Util)	5	Text-Utility-poles	1	2.03 (.08)
Text Power	51	Text-Utility-power	1	2.03 (.08)
Text Railroad	1	Text-Utility-railroad	1	2.03 (.08)
Text Railroad Owner	1	Text-Utility-railroad	4	3.8 (.15)
Text San Sewer	18	Text-Utility-sanitary sewer	1	2.03 (.08)
Text Signal	0	Text-Signal	1	2.03 (.08)
Text Telephone	70	Text-Utility-telephone	1	2.03 (.08)
Text Utility Owner	0	Text-Utility-owner	4	3.8 (.15)
Text Water	13	Utility-Water	1	2.03 (.08)

Plan

Waterways

Component Type: Text Line Style: 0	Color	Level	Line Weight	Text Height
Text 3.05mm (.12")	23	Text-Natural water	2	3.05 (.12)
Text 3.8mm (.15")	23	Text-Natural water	2	3.8 (.15)
Text 4.6mm (.18")	23	Text-Natural water	5	4.6 (.18)

Traffic Control

Notes

Component Type: Text Line Style: 0	Color	Level	Line Weight	Text Height
←Note Barricade	0	Text-Barricades	2	3.05 (.12)
←Note Channelizer/Cones	0	Text-Channelizers	2	3.05 (.12)
←Note Delineator	0	Text-Signs	2	3.05 (.12)
←Note Flashing & Warning Light	20	Text-Electric signs	2	3.05 (.12)
←Note Perm. Construction	0	Common-Build notes	2	3.05 (.12)
←Note Raised Pvm't Marker	20	Text-Misc	2	3.05 (.12)
←NoteSign/Object Marker/Flagger	0	Text-Signs	2	3.05 (.12)
←Note Signal	0	Text-Signal	2	3.05 (.12)
←Note Temp. Construction	0	Common-Removals	2	3.05 (.12)
←Note Temp. Island	11	Common-Removals	2	3.05 (.12)
←Note Temp. Striping White	0	Text-Temp striping	2	3.05 (.12)
←Note Temp. Striping Yellow	20	Text-Temp striping	2	3.05 (.12)
←Note Traffic Barrier	0	Text-Traffic barriers	2	3.05 (.12)
←Note Work Area	0	Common-Build notes	2	3.05 (.12)
Text Sign Station	0	Text-Signs	2	3.05 (.12)

Erosion Control

Notes

Component Type: Text Line Style: 0	Color	Level	Line Weight	Text Height
←Note Rock Ditch Check	0	Text-Ditch labels	2	3.05 (.12)
←Note Sediment Basin	1	Text-Ditch labels	2	3.05 (.12)
←Note Silt Fence	7	Text-Fence	2	3.05 (.12)
←Note Silt Fence Ditch Check	7	Text-Fence	2	3.05 (.12)
←Note Slope Limits	7	Text-Slope line label	2	3.05 (.12)
←Note Sodding	4	Text-Landscaping	2	3.05 (.12)
←Note Straw Bale Ditch Chk	5	Text-Ditch labels	2	3.05 (.12)
←Note Temporary Berm	52	Text-Ditch labels	2	3.05 (.12)
←Note Temporary Pipe	31	Text-Drainage structure	2	3.05 (.12)

Lighting

Notes

Component Type: Text Line Style: 0	Color	Level	Line Weight	Text Height
Note (Conduit)	51	Text-Utility power	4	3.05 (.12)
Note (Junction Box)	5	Text-Utility power	4	3.05 (.12)
Note (Lighting Pattern)	0	Text-Utility-power	4	3.05 (.12)
Note (Power Supply/Source)	51	Text-Utility-power	4	3.05 (.12)
Note (Power to Meter)	51	Text-Utility-power	4	3.05 (.12)
Note (Striping Perm White)	0	Text-Perm striping	2	3.05 (.12)
Note (Striping Perm Yellow)	20	Text-Perm striping	2	3.05 (.12)
Note (Striping Temp White)	0	Text-Temp striping	2	3.05 (.12)
Note (Striping Temp Yellow)	20	Text-Temp striping	2	3.05 (.12)
Text (Luminaire + and offset)	0	Text-Utility-power	4	3.05 (.12)
Text (Luminaire Post #)	0	Text-Utility-power	5	3.05 (.12)

Signal Sheet

Notes

Component Type: Text Line Style: 0	Color	Level	Line Weight	Text Height
Note Conduit	51	Text-Signal	1	3.05 (.12)
Note Controller	0	Text-Signal	1	3.05 (.12)
Note Detector	0	Text-Signal	1	3.05 (.12)
Note Mast Arm	0	Text-Signal	1	3.05 (.12)
Note Perm. Striping White	0	Text-Perm striping	1	3.05 (.12)
Note Perm. Striping Yellow	20	Text-Perm striping	1	3.05 (.12)
Note Signal	0	Text-Signal	1	3.05 (.12)
Note Span Wire	0	Text-Signal	1	3.05 (.12)
Note Temp. Striping White	0	Text-Temp striping	1	3.05 (.12)
Note Temp. Striping Yellow	20	Text-Temp striping	1	3.05 (.12)
Text Signal	0	Text-Signal	2	3.05 (.12)

Signing

Notes

Component Type: Text Line Style: 0	Color	Level	Line Weight	Text Height
Note Pattern Area	0	Common-Patterns-hatch	2	3.05 (.12)
Note Sign	0	Text-Signs	4	3.8 (.15)

Signing Section

Notes

Component Type: Text Line Style: 0	Color	Level	Line Weight	Text Height
Note Entrance	11	Text-Entrances	2	3.05 (.12)
Note Footing	0	Text-Signs	4	3.8 (.15)
Note Post	8	Text-Signs	4	3.8 (.15)

Signing Section

Notes (Cont.)

Note Roadway Grade % w/arrow	1	Text-Slope line label	1	2.5 (.10)
Note Sign	0	Text-Signs	4	3.8 (.15)
Text Sign	0	Text-Signs	4	3.8 (.15)
Text Station	2	Text-Alignment info	7	5.3 (.21)

X-Section/Culverts

Notes

Component Type: Text Line Style: 0	Color	Level	Line Weight	Text Height
Note Centerline of Road	20	XS-Proposed surface-pavement	2	3.05 (.12)
Note Class III Exc	0	Common-Notes	2	3.05 (.12)
Note Existing Ground Line	4	XS-Existing surface-ground	4	3.05 (.12)
Note Flared End Section	31	Text-Dranaige structure	2	3.05 (.12)
Note Pipe Callout	31	Text-Drainage structure	2	3.05 (.12)
Note Profile Grade	1	XS-Text-profile report	2	3.05 (.12)
Note Rock Type Ditch	0	Text-Ditch labels	2	3.05 (.12)
Note Util CATV Exist	15	Text-Utility-cable	1	3.05 (.12)
Note Util CATV New	70	Text-Utility-cable	4	3.05 (.12)
Note Util Gas Exist	116	Text-Utility-gas	1	3.05 (.12)
Note Util Gas New	60	Text-Utility-gas	4	3.05 (.12)
Note Util Power Exist	115	Text-Utility-power	1	3.05 (.12)
Note Util Power New	51	Text-Utility-power	4	3.05 (.12)
Note Util Railroad	1	Text-Utility-railroad	4	3.05 (.12)
Note Util San Sewer Exist	114	Text-Utility-sanitary sewer	1	3.05 (.12)
Note Util San Sewer New	18	Text-Utility-sanitary sewer	4	3.05 (.12)
Note Util Storm Sewer Exist	114	Text-Utility-storm sewer	1	3.05 (.12)
Note Util Storm Sewer New	18	Text-Utility-storm sewer	4	3.05 (.12)
Note Util Telephone Exist	15	Text-Utility-telephone	1	3.05 (.12)
Note Util Telephone New	70	Text-Utility-telephone	4	3.05 (.12)
Note Util Water Exist	12	Text-Utility-water	1	3.05 (.12)
Note Util Water New	13	Text-Utility-water	4	3.05 (.12)
Text Cut and Fill	1	XS-Text-earthwork labels	4	3.8 (.15)
Text Ditch Flowline Elevation	52	Text-Ditch labels	1	2.5 (.10)
Text Ditch Information	52	Text-Ditch labels	1	3.05 (.12)
Text Elevation	5	XS-Text-elevation	5	3.05 (.12)
Text Entrance Grade %	11	Text-Entrances	1	2.5 (.10)
Text Entrance Information	11	Text-Entrances	1	3.05 (.12)
Text Pipe Callout	31	Text-Drainage structure	2	3.05 (.12)
Text Pipe Flowline Elevation	31	Text-Drainage structure	1	2.5 (.10)
Text Pipe Flowline Grade %	31	Text-Drainage structure	1	2.5 (.10)
Text Road Elevations	0	XS-Text-pavement elevations	2	3.8 (.15)
Text Road Elevations Existing	1	XS-Text-pavement elevation	2	3.05 (.12)
Text Stationing	2	XS-Text-pavement elevation	7	5.3 (.21)

Title

Notes

Component		Type:	Color:	Level:	Line Style:	Line Weight:
Note Controlled Access FullHwy	FULLY CONTROLLED ACCESS HIGHWAY 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. 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	Cell		Text-New rw label		
Note Controlled Access Part Hwy	PARTIAL CONTROLLED ACCESS HIGHWAY 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. BEGINNING AND ENDING OF CONTROLLED ACCESS NO RIGHT OF ACCESS OR CROSSING OF LINES BEARING THIS SYMBOL WILL BE PERMITTED UNDER ANY CIRCUMSTANCES.	Cell		Text-New rw label		
Note Controlled Access Hwy	CONTROLLED ACCESS HIGHWAY 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. 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.	Cell		Text-Existing rw label		

Title

Lines (Misc.)

Component	Type:	Color:	Level:	Line Style:	Line Weight:
City Limits (dots)	Linear	5	Title-Location sketch	Custom	2
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

Lines (Road)

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

Title

Lines (Road) (Cont.)

Component	Type:	Color:	Level:	Line Style:	Line Weight:
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

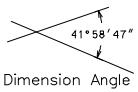
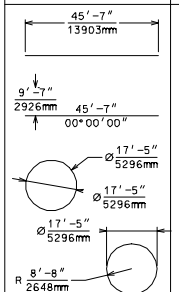
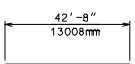
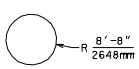
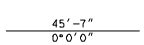
Title

Symbols/Patterns

Bridge	Cell	99	Title-Location sketch	0	1
SCALE IN MILES Graphic Scale 1mm = 50m (1"=2 miles)	Cell	1	Common-Graphic scale	0	3
SCALE IN MILES Graphic Scale 1mm = 25m (1"=1 mile)	Cell	1	Common-Graphic scale	0	3
SCALE IN MILES Graphic Scale 1mm = 12.5m (1"=1/2 miles)	Cell	1	Common-Graphic scale	0	3
Limits Arrow	Cell	0	Common-Dimensions	0	2
North Arrow	Cell	2	Common-North arrow	0	4
Safe & Sound Logo	Cell	0	Common-Misc Details	0	1
Shield-Interstate	Cell	0	Roadway-Signs	0	2
Shield-Interstate Bus. Loop	Cell	0	Roadway-Signs	0	2
Shield-Interstate MO	Cell	0	Roadway-Signs	0	2
XX Lettered Route	Cell	0	Roadway-Signs	0	2
Shield-MO Highway	Cell	0	Roadway-Signs	0	2
XX Shield-US Highway	Cell	0	Roadway-Signs	0	2

Typical Sections

Dimensions

Component	Type:	Color:	Level:	Line Style:	Line Weight:
 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

Typical Sections

Lines

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

Typical Sections

Symbols/Patterns

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
Guardrail Section	Cell	99	Roadway - Safety	0	2
Concrete Areafill	Area Pattern	0	Common-Patterns-hatch	0	1
Cross Hatch Areafill	Area Pattern	0	Common-Patterns-hatch	0	1
Earth Areafill	Area Pattern	8	Common-Patterns-hatch	0	1
Hatch Areafill	Area Pattern	0	Common-Patterns-hatch	0	1
Rock Areafill	Area Pattern	0	Common-Patterns-hatch	0	1
Traffic Barrier	Cell	40	Traffic_Control-Traffic barriers	0	1

Summary

Lines

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

Plan

Construction Symbols

Component	Type:	Color:	Level:	Line Style:	Line Weight:
DFPRP CHECK MARK	Cell	2	Common-Notes	0	0
FPR CHECK MARK	Cell	4	Common-Notes	0	0
RE CHECK MARK	Cell	5	Common-Notes	0	0
FINAL PLANS I certify that this plan sheet accurately depicts the configuration and location of the roadway and all its appurtenant features, to the best of my knowledge, as I and my staff have observed the contractor's construction of this project. I specifically disclaim any responsibility for the design of this project, except as I and my staff may have modified or authorized the modification of the project design during its construction and I disclaim responsibility for the contractor's actual construction of the project, except as I and my staff may have directed or ordered that the project be constructed. Signature Date	Cell	2	Text-General notes	0	1
FINAL PLANS I CERTIFY THAT THIS PLAN SHEET ACCURATELY DEPICTS THE CONFIGURATION AND LOCATION OF THE ROADWAY AND ALL ITS APPURTENANT FEATURES, TO THE BEST OF MY KNOWLEDGE, AS I AND MY STAFF HAVE OBSERVED THE CONTRACTORS CONSTRUCTION OF THIS PROJECT. I SPECIFICALLY DISCLAIM ANY RESPONSIBILITY FOR THE DESIGN OF THIS PROJECT, EXCEPT AS I AND MY STAFF MAY HAVE MODIFIED OR AUTHORIZED THE MODIFICATION OF THE PROJECT DESIGN DURING ITS CONSTRUCTION AND I DISCLAIM RESPONSIBILITY FOR THE CONTRACTOR'S ACTUAL CONSTRUCTION OF THE PROJECT, EXCEPT AS I AND MY STAFF MAY HAVE DIRECTED OR ORDERED THAT THE PROJECT BE CONSTRUCTED. SIGNATURE DATE	Cell	2	Text-General notes	0	1
FINAL PLANS	Cell	13	Text-General notes	0	0

Plan

Dimensions

Component	Type:	Color:	Level:	Line Style:	Line Weight:
41°58′47″ Dimension Angle	Dimension	0	Common-Dimensions	0	2
45′-7″ 13903mm 9′-7″ 2926mm 45′-7″ 00°00′00″ Ø 17′-5″ 5296mm Ø 17′-5″ 5296mm Ø 17′-5″ 5296mm R 8′-8″ 2648mm Dimension Element	Dimension	0	Common-Dimensions	0	2
42′-8″ 13008mm Dimension Point to Point	Dimension	0	Common-Dimensions	0	2
R 8′-8″ 2648mm Dimension Radius	Dimension	0	Common-Dimensions	0	2
45′-7″ 0°0′0″ Label Line (Bearings etc)	Dimension	0	Common-Dimensions	0	2

Plan

Drainage

Component	Type:	Color:	Level:	Line Style:	Line Weight:
Flow Arrow	Cell	52	Roadway-Ditches	0	2

Plan

Exhibits

Modot Logo Wave	Cell		Common-Notes	0	VARIES
Modot State Wave	Cell		Common-Notes	0	VARIES

Plan

General Construction (Build)

BEGIN PROJECT STA END PROJECT STA Begin / End 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
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. Disclaimer - Plan Sheet	Cell	4	Text-General notes	0	4
UNDERGROUND FACILITIES, STRUCTURES AND UTILITIES HAVE BEEN PLOTTED FROM AVAILABLE SURVEY AND RECORDS. THE COMMISSION DOES NOT WARRANT THE LOCATIONS OF THESE FACILITIES AS PRECISE. IT IS POSSIBLE THERE MAY BE OTHERS, THE EXISTENCE OF WHICH IS PRESENTLY NOT KNOWN OR SHOWN. IT IS THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE EXISTENCE AND PRECISE LOCATION OF ALL FACILITIES AND TO AVOID DAMAGE. SEE THE JOB SPECIAL PROVISIONS FOR A LIST OF UTILITY COMPANIES ON OR WITHIN THE VICINITY OF THE PROJECT LIMITS. Disclaimer - Utilities	Cell	4	Text-General notes	0	4
PRELIMINARY/FINAL STRIP MAP ROUTE COUNTY CLASSIFICATION JOB NO. DESIGN SPEED - DESIGN TRAFFIC - CONS'T YEAR ( ) ADT DESIGN YEAR ( ) ADT TRUCK ADT - % SUBMITTED 2 LENGTH OF PROJECT END OF PROJECT STA BEGINNING OF PROJECT STA APPARENT LENGTH EQUATIONS & EXCEPTIONS: NONE NET LENGTH Final Strip Map Note	Cell	4	Text-General Notes	0	VARIES

Plan

Location Survey

MicroStation CADD Standards

Component	Type:	Color:	Level:	Line Style:	Line Weight:
THIS PLAN REPORTS THE RESULTS OF A SURVEY OF RECORDED RIGHT-OF-WAY FOR THE MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION. THE RIGHT-OF-WAY CONVEYED IS DESCRIBED LOCATIONS. THE RIGHT-OF-WAY CORRIDOR ENCOMPASSES ON THIS SURVEY IS CLASSIFIED AS TYPE OF PROPERTY. THE SURVEY WAS COMPLETED ON (DATE) THIS SURVEY WAS EXECUTED IN ACCORDANCE WITH THE MISSOURI MINIMUM STANDARDS FOR PROPERTY BOUNDARY SURVEYS. SURVEY AND PLAT BY THE MISSOURI DEPARTMENT OF TRANSPORTATION.	Cell	0	Location_Survey-Note	0	2
MISSOURI HIGHWAYS & TRANSPORTATION COMMISSION SURVEY OF HIGHWAY RIGHT-OF-WAY	Cell		Location_Survey-Title block		
	Cell	20	Location_Survey-Improvement table	0	3
RECOVERY & IMPROVEMENT TABLE	Cell	20	Location_Survey-Improvement table	0	3
LEGEND - LAND CORNER - SET ⅝" IRON PIN - FOUND MONUMENT - FOUND RIGHT OF WAY MONUMENT - ℄ OF ROADWAY - NEW RIGHT-OF-WAY - PUBLIC LAND LINE - PROPERTY LINE - EXISTING RIGHT-OF-WAY	Cell		Common-Legends		

Plan

General Construction (Build)

ADD SHEET Revision Symbol-Add Sheet	Cell	0	Text-General Notes	0	6
ADDED Revision Symbol-Added	Cell	0	Text-General Notes	0	6
DELETE SHEET Revision Symbol-Delete Sheet	Cell	0	Text-General Notes	0	6
DELETED Revision Symbol-Deleted	Cell	0	Text-General Notes	0	6
REVISED Revision Symbol-Revised	Cell	0	Text-General Notes	0	6

Plan

R/W

Component	Type:	Color:	Level:	Line Style:	Line Weight:
APPROVED R/W PLANS SUBJECT TO CHANGE DATE / / Approved RW Plans Stamp	Cell	2	Text–General Notes	0	5
APPROVED PRELIMINARY PLANS SUBJECT TO CHANGE DATE / / Approved preliminary Plans 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
XX JOHN Q. PROP OWNER XXX.XX NEW R/W XXX.XX PERM. ESM'T. XXX.XX TEMP. ESM'T. XXX.XX REMAINING Prop. Owner Note & Circle	Cell	5	Text–Property owner & Text–Rw taking	0	4
Property Line Symbol	Cell	5	Roadway–Land lines	0	4
Property Tie	Cell	5	Roadway–Land lines	0	2
RW Exist Plus Offset above RW Exist Plus Offset below	Cell	6	Text–Existing rw label	0	4

Plan

R/W (Cont.)

RW New Plus Offset above RW New Plus Offset below	Cell	2	Text–New rw label	0	4

Plan

Roadway

Component	Type:	Color:	Level:	Line Style:	Line Weight:
P.I. Δ - D - T - L - R - SE - W - Curve Data (Curve)	Cell	20	Text–Curve info	0	2
P.I. Δ - D - T - L - R - SE - W - Curve Data (Curve) box	Cell		Text–Curve Info	0	
P.I. Δ - D - T - L - R - SE - OS - Xc - Yc - Curve Data (Spiral)	Cell	20	Text–Curve Info	0	2
P.I. Δ - D - T - L - R - SE - OS - Xc - Yc - Curve Data (Spiral) box	Cell		Text–Curve Info	0	

Plan

Roadway (Cont.)

Component	Type:	Color:	Level:	Line Style:	Line Weight:
TYPE I DRWY. T- STA. Driveway Type & Stationing	Cell	11	Text–Entrances	0	4
TYPE I DRWY. XT- XXX+XX.XX RT. X. (XXXm ACCESS BREAK) X.Xm TOP XX.Xm X XX.Xm GR. B PIPE Driveway Type, Angle, Pipe Text	Cell	11	Text–Entrances	0	4
STA. XXX+XX.XX XT- EXISTING XX.XXm ENTR. (XXXm ACCESS BREAK) Entrance Existing Plus Offset	Cell	11	Text–Entrances	0	4
ENTRANCE STA. ENTRANCE TYPE ENTRANCE STA. ENTRANCE TYPE Entrance Sta Descript. above Entrance Sta Descript. below	Cell	11	Text–Entrances	0	2
EXISTING AND CONSTRUCTED ENTRANCES MAY BE WIDENED TO A MAXIMUM WIDTH OF 18m BY PERMIT UNLESS OTHERWISE NOTED. Entrance Width Note	Cell	11	Text–Entrances	0	4
Entrance Width Box	Linear	11	Text–Entrances	0	4

Plan

Roadway (Cont.)

Component	Type:	Color:	Level:	Line Style:	Line Weight:
PC STA. PC STA. Equation above Equation below	Cell	20	Text–Alignment info	0	5
Matchline	Linear	2	Text–Main route label	0	5
PC STA. PC STA. PC PS PT STA. above PC PS PT STA. below	Cell	20	Text–Project pt pc	0	4

Plan
Roadway (Temporary)

Component	Type:	Color:	Level:	Line Style:	Line Weight:
PC STA. PC STA. Equation above Equation below	Cell	20	Text–Alignment info	0	5
PC STA. PC STA. PC PS PT STA. above PC PS PT STA. below	Cell	20	Text–Project pt pc	0	4

Plan
Striping

STRIPING LEGEND 4" INTERMITTENT WHITE 4" SOLID WHITE 4" INTERMITTENT YELLOW 4" SOLID YELLOW Pavement Marking Legend	Cell		Common–Legends		2

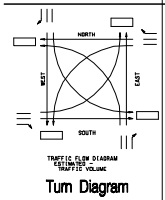
Plan
Symbols/Patterns

Component	Type:	Color:	Level:	Line Style:	Line Weight:
SCALE 0 10 20 30 Graphic Scale 1"=10'	Cell	0	Common–Graphic scale	VARIES	3
SCALE 0 20 40 60 Graphic Scale 1"=20'	Cell	0	Common–Graphic scale	VARIES	3
SCALE 0 30 60 90 Graphic Scale 1"=30'	Cell	0	Common–Graphic scale	VARIES	3
SCALE 0 40 80 120 Graphic Scale 1"=40'	Cell	0	Common–Graphic scale	VARIES	3

MicroStation CADD Standards

Component	Type:	Color:	Level:	Line Style:	Line Weight:
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
North Arrow	Cell	2	Common-North Arrow	0	4
Pattern-Removals	Pattern Area	0	Pattern-Removals	0	1
Pattern-Rock Blanket	Pattern Area	0	Pattern-Rock Blanket	0	1
Pattern-Rock Ditch Liner	Pattern Area	0	Pattern-Rock Ditch Liner	0	1
Pattern-Rock Lining(Outlet)	Pattern Area	0	Pattern-Rock Lining(Outlet)	0	1
Concrete	Pattern Area	0	Common-Patterns-hatch	0	1
Cross Hatch	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
Hatch	Pattern Area	0	Common-Patterns-hatch	0	1
Rock	Pattern Area	0	Common-Patterns-hatch	0	1
Swamp	Pattern Area	23	Common-Patterns-hatch	0	1

Plan
Symbols/Patterns (Cont.)

Component	Type:	Color:	Level:	Line Style:	Line Weight:
 Turn Diagram	Cell		Common-Legends		

Profile
Drainage

CMP – Circle	L	31	Roadway–Ditches	0	2
Ditch Special RT /LT	L	52	Roadway–Ditches	Dash 4	4
Flow Arrow	C	52	Roadway–Ditches	0	2
Manhole 12", 18", or 24" San Sewer	C	18	Utility–Sanitary sewer	0	1
RCP 12"–84" Circle	C	31	Roadway–Ditches	0	1

Profile
Lines (Profile and Grid Lines)

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

Profile

Symbols/Patterns

Component	Type:	Color:	Level:	Line Style:	Line Weight:
10 Graphic Scale 10'	C	1	Common–Graphic scale	0	4
20 Graphic Scale 20'	C	1	Common–Graphic scale	0	4
5 Graphic Scale 5'	C	1	Common–Graphic scale	0	4
PC PT PVI Circle	C	0	Roadway–Curve pc pt	0	4
PC STA. PC STA. PC PT PVI Sta Elev Above PC PT PVI Sta Elev Below	C	20	Text–Project pt pc	0	4

Profile

Utilities

Component	Type:	Color:	Level:	Line Style:	Line Weight:
CATV UG Exist	L	15	Utility–Cable	C	2
CATV UG New	L	70	Utility–Cable	C	4
FO Cable Exist	L	15	Utility–Cable	C	2
FO Cable New	L	70	Utility–Cable	C	4
Gas UGG Exist	L	116	Utility–Gas	C	2
Gas UGG New	L	60	Utility–Gas	C	4
Power UGP Exist	L	115	Utility–Power	C	2
Power UGP New	L	51	Utility–Power	C	4
Railroad	L	1	Utility–Railroad	C	2
Railroad Dash	L	1	Utility–Railroad	C	4
San. Sewer UG Exist	L	18	Utility–Sanitary sewer	C	2
San. Sewer UG New	L	18	Utility–Sanitary sewer	C	4
Storm Sewer UG Exist	L	18	Utility–Storm sewer	C	2
Storm Sewer UG New	L	18	Utility–Storm sewer	C	4
Telephone UGT Exist	L	15	Utility–Telephone	C	2
Telephone UGT New	L	70	Utility–Telephone	C	4
Water UGW Exist	L	12	Utility–Water	C	2
Water UGW New	L	13	Utility–Water	C	4

User

CMP/RCP

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

User

Drainage

Component	Type:	Color:	Level:	Line Style:	Line Weight:
BRCHNL	Linear	95	Drainage–Structures	0	3
CONBASIN	Linear	95	Drainage–Structures	Dash 3	1
Culvert	Linear	95	Drainage–Structures	0	2
Dam inside	Linear	52	Drainage–Structures	Custom	4
Dam outside	Linear	52	Drainage–Structures	Custom	4
Ditch – FB Line For Tapering	Linear	52	Roadway–Ditches	Dash 5	2
Ditch – Flat Bottom 1.22m – 3.05m (4'–10')	Linear	52	Roadway–Ditches	Custom	2
Ditch – Inter Line For Tapering	Linear	52	Roadway–Ditches	0	2
Ditch – Interception 1.22m – 3.05m (4'–10')	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 Block	Cell	52	Roadway–Ditches	0	1
Ditch Flow Line	Linear	52	Roadway–Ditches	Custom	2
Ditch Solid Line For Tapers	Linear	52	Roadway–Ditches	0	2
Drain Marker	Cell	5	Drainage–Structures	0	1
Drainage – Perm. Esmt.	Linear	2	Roadway–Permanent easement	Dash 6	4
Existing Culvert	Linear	95	Drainage–Structures	Dash 1	1
Flow Arrows	Cell	52	Roadway–Ditches	0	2

MicroStation CADD Standards

User

Drainage (Cont.)

Component	Type:	Color:	Level:	Line Style:	Line Weight:
Ford	Linear	31	Roadway–Ditches	Dash 5	2
Levee – Interception 4'–10'	Linear	52	Roadway–Levee	Custom	2
Levee inside	Linear	52	Roadway–Levee	Custom	2
Levee outside	Linear	52	Roadway–Levee	Custom	1
Levee w/Interception 4'–10'	Linear	52	Roadway–Levee	Custom	2
PVC	Linear	95	Drainage–Structures	Dash 1	1
Paved Ditch	Linear	1	Roadway–Ditches	0	2
Ridge	Linear	52	Roadway–Land lines	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	Raodway–Slope lines	Custom	2
Temporary Berm	Linear	52	Raodway–Berm line	Custom	2
Terrace	Linear	52	Roadway–Berm line	Dash 6	2
Trench	Linear	52	Roadway–Berm line	Dash 5	2

MicroStation CADD Standards

User

Drop Inlets

Component	Type:	Color:	Level:	Line Style:	Line Weight:
Drop Inlets (3'x2') (3'x3') (4'x2') (5'x2') (3'x5')	Cell	31	Drainage–Structures	0	1
DI – Drop Inlet	Cell	31	Drainage–Structures	0	1
DI –Type D DI	Cell	31	Drainage–Structures	0	1
DI –Type T DI	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–Sructures	0	1
Grate	Linear	0	Drainage–Structures	0	2
MH	Cell	31	Drainage–Structures	0	1
MH – 1.22m (4') MH	Cell	31	Drainage–Structures	0	1
MH – SSMH Storm Sewer MH	Cell	18	Utility–Storm sewer	0	1

User

Environmental

Archaeological	Linear	99	Environmental–Geometry	0	1
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

MicroStation CADD Standards

User

Environmental

Component	Type:	Color:	Level:	Line Style:	Line Weight:
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
H1 Historic General 1	Cell	4	Archeology-Historical general 1	0	1
H2 Historic General 2	Cell	2	Archeology-Historic general 2	0	1
H3 Historic General 3	Cell	3	Archeology-Historic general 3	0	1
Historical Structure	Linear	99	Environmental-Geometry	Dash 1	1
Human Bones	Cell	20	Archeology-Human remains	0	1
Large Tree	Cell	4	Environmental-New trees	0	1
M 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
Pottery	Cell	8	Archeology-Pottery	0	1
P1 Prehistoric General	Cell	4	Archeology-Prehistoric general 1	0	1
P2 Prehistoric General	Cell	2	Archeology-Prehistorc general 2	0	1
P3 Prehistoric General	Cell	3	Archeology-Prehistoric general 3	0	1

User

Environmental (Cont.)

Component	Type:	Color:	Level:	Line Style:	Line Weight:
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
Timber Line	Linear	4	Environmental-New trees	Custom	2
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
Wetland Boundary	Linear	17	Drainage-Area	Dash 5	5

User

Flared End Sections (CONC)

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

User

Flared End Sections (METAL)

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

User

Property

Component	Type:	Color:	Level:	Line Style:	Line Weight:
Building	Linear	14	Property-Buildings	Dash 2	2
BUS STOP Bus Stop	Cell	0	Roadway-Signs	0	1
CAVE Cave	Cell	8	Property-Public	Dash 2	1
Cellar	Linear	14	Property-Private	Dash 1	1
Conc. Misc.	Linear	48	Property-Private	0	4
Fence Chain Link	Linear	4	Property-Fences	Custom	1
Fence Woven Wire	Linear	4	Property-Fences	Custom	1
FLAG Flag Pole	Cell	1	Property-Fences	0	1
Foundation	Linear	48	Property-Buildings	Dash 2	2
Gate Post	Cell	4	Property-Fences	0	1
Grave	Cell	144	Property-Buildings	0	1
House	Linear	14	Property-Buildings	Dash 2	2
Liquid Propane Tank	Linear	28	Property-Private	0	1

User

Property (Cont.)

Component	Type:	Color:	Level:	Line Style:	Line Weight:
Mailbox	Cell	59	Survey-Miscellaneous roadside	0	1
Mine	Cell	5	Property-Private	0	1
Overhang	Linear	14	Property-Buildings	Dash 2	2
Pool (Swimming)	Linear	23	Property-Private	0	2
Satellite	Cell	15	Property-Private	0	1
Stock Pile	Linear	112	Property-Private	1	1
Tank	Linear	0	Property-Private	Dash 1	1
Tower	Cell	15	Utility-Pole	0	1
Trail	Linear	8	Property-Public	Dash 3	4
Wood Post	Cell	4	Lighting_Signals-Equipment	0	1

User

R/W

¼ Line	Linear	16	Roadway-Land lines	Dash 6	4
¼ ¼ Line	Linear	16	Roadway-Land lines	Dash 6	4
Borrow Area	Linear	8	Roadway-Rural land use	0	4
City Limits Line	Linear	5	Roadway-Land lines	Custom	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 Limit Access	Linear	2	Roadway-Permanent easement	Custom	6
Easement Perm.	Linear	2	Roadway-Permanent easement	Dash 6	4
Easement Temp.	Linear	6	Roadway-Temporary easement	Dash 4	2

User

R/W (Cont.)

Component	Type:	Color:	Level:	Line Style:	Line Weight:
Exist. Controlled Access Symbol	Cell	6	Roadway-Existing rw	0	1
Exist. R/W Controlled Access	Linear	6	Roadway-Existing rw	Custom	4
Exist. R/W Line	Linear	6	Roadway-Existing rw	Dash 4	4
Exist. R/W Location Survey Mark	Cell	6	Roadway-Exisitng rw	Dash 1	4
Exist. R/W Marker (Conc. or Copper)	Cell	6	Roadway-Exisitng rw	Dash 1	4
Exist. R/W Marker (Steel)	Cell	6	Roadway-Existing rw	Dash 1	4
Exist. R/W No Right Access	Linear	6	Roadway-Existing rw	Custom	4
Exist. R/W Prop. Limit Access	Linear	6	Roadway-Existing rw	Custom	4
Exist. R/W Temp. Access Line	Linear	6	Roadway-Existing rw	Custom	4
Exist. Temporary Access Symbol	Cell	6	Roadway-Existing rw	0	2
Exist. Terminal Point Symbol	Cell	22	Roadway-Existing rw	0	2
Grant/Lease Line	Linear	5	Roadway-Land lines	Dash 4	4
Landcorner	Cell	5	Roadway-Land lines	0	4
Latitude/Longitude Line	Linear	9	Roadway-Land lines	0	1
New Controlled Access Symbol	Cell	51	Roadway-New rw	0	9
New R/W Controlled Access Line	Linear	2	Roadway-New rw	Custom	6
New R/W Line	Linear	2	Roadway-New rw	0	6
New R/W Location Survey Marker	Cell	2	Roadway-New rw	0	4
New R/W No Right Access	Linear	2	Roadway-New rw	Custom	6

User

R/W (Cont.)

Component	Type:	Color:	Level:	Line Style:	Line Weight:
New R/W Temp. Access Line	Linear	2	Roadway-New rw	Custom	6
New Temp. Access Symbol	Cell	51	Roadway-New rw	0	9
New Terminal Point Symbol	Cell	2	Roadway-New rw	0	2
Property Line	Linear	5	Roadway-Land lines	Dash 5	2
Property Pin	Cell	5	Text-Property private	0	4
Property Tie	Cell	5	Roadway-Land lines	0	2
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

User

Roadside

Component	Type:	Color:	Level:	Line Style:	Line Weight:
Benchmark	Cell	10	Roadway-Land lines	0	1
GRS Monument	Cell	10	Roadway-Land lines	0	1
Landscaping	Linear	4	Environmental-Landscaping	0	3
Side Walk	Linear	1	Roadway-Sidewalks	Custom	2
Steps	Linear	1	Roadway-Sidewalks	0	2
Traverse	Linear	5	Roadway-Sidewalks	Dash 2	2
Wheelchair Ramp	Linear	1	Roadway-Sidewalks	0	2

User

Roadway

Component	Type:	Color:	Level:	Line Style:	Line Weight:
Baseline Ramp Alignment	Linear	20	Roadway-Centerline other	0	6
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	Roadway-Curbs and or gutters	Dash 3	2
Edge of Pavement	Linear	0	Roadway-Edge of pavement	0	2
Edge of Pavement Exist.	Linear	112	Roadway-Edge of pavement	Dash 3	2
Edge of Pavement Temporary	Linear	0	Roadway-Edge of pavement	0	2
Entrance	Linear	11	Roadway-Entrances	0	2
Entrance Edge of Apron	Linear	11	Roadway-Entrances	Dash 2	2
Entrance Exist.	Linear	114	Roadway-Entrances	Dash 3	2
Entrance Temporary	Linear	11	Roadway-Entrances	0	2
Island	Linear	11	Roadway-Entrances	0	2
Island Exist.	Linear	114	Roadway-Entrances	Dash 3	2
Oil Surface	Linear	1	Survey-Oil surface	0	2
Outer Road Alignment	Linear	20	Roadway-Centerline other	0	6
Shoulder	Linear	11	Roadway-Edge of shoulder	0	2

User
Roadway (Cont.)

Component	Type:	Color:	Level:	Line Style:	Line Weight:
Shoulder Exist.	Linear	114	Roadway-Edge of shoulder	Dash 3	2
Shoulder Temporary	Linear	11	Roadway-Edge of shoulder	0	2
Temporary Bypass Alignment	Linear	20	Roadway-Centerline other	0	6
Temporary Crossover Alignment	Linear	20	Roadway-Centerline other	0	6

User
Safety

Abutment	Linear	51	Roadway-Safety	Dash 3	1
Barrier	Linear	51	Roadway-Safety	Dash 3	1
Guard Cable-Existing	Linear	51	Roadway-Safety	Custom	2
Guard Cable-New	Linear	19	Roadway-Safety	Custom	4
Guardrail	Cell	1	Roadway-Safety	0	1
Guardrail B Nose for Piers	Cell	19	Roadway-Safety	0	2
Guardrail B Nose Med 15' to over 33'	Cell	19	Roadway-Safety	0	2
Guard Rail ET2000	Cell	2	Roadway-Safety	0	4
Guard Rail ET2000 End	Cell	2	Roadway-Safety	0	4
Guard Rail Line Exist.	Linear	51	Roadway-Safety	Custom	2
Guard Rail Line New	Linear	19	Roadway-Safety	Custom	4
Median	Linear	51	Roadway-Safety	0	2
Median Strip	Linear	51	Roadway-Safety	0	2
Pedestrain Overpass	Linear	51	Roadway-Safety	0	2
Retaining Wall	Linear	51	Roadway-Walls	0	2
Sound Wall	Linear	51	Roadway-Walls	Dash 3	2

User

Signs/Signals

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

User

Symbols/Patterns

Component	Type:	Color:	Level:	Line Style:	Line Weight:
12S - 3.66m (12') Stop Line	Cell	0	Traffic_Control-Permanent striping	0	4
14S - 4.27m (14') Stop Line	Cell	0	Traffic_Control-Permanent striping	0	4
24S - 7.32 (24') Stop Line	Cell	0	Traffic_Control-Permanent striping	0	4
P.I. Δ - D - T - L - R - SE - W - Curve Data	Cell	20	Text-Curve info	0	2
P.I. Δ - D - T - L - R - SE - Ds - Xc - Yc - Curve Data - Spiral	Cell	20	Text-Curve info	0	2
LA Traffic Flow Arrow	Cell	20	Traffic_Control-Flow arrows	0	0

MicroStation CADD Standards

Symbols/Patterns (Cont.)

Component	Type:	Color:	Level:	Line Style:	Line Weight:
North Arrow	Cell	2	Common-North arrow	0	4
PC PT PRC ST TS Circles	Cell	20	Roadway-Curves pc pt	0	4
PI Lines	Linear	20	Roadway-Curve pc pt	Dash 1	1
Pattern Removals	Area Pattern	0	Pattern Removals	0	1
Pattern Rock Blanket	Area Pattern	0	Pattern Rock Blanket	0	1
Pattern Rock Ditch Liner	Area Pattern	0	Pattern Rock Ditch Liner	0	1
Pattern Rock Lining (Outlet)	Area Pattern	0	Pattern Rock Lining (Culvert Outlet)	0	1
Pattern Area Concrete	Area Pattern	0	Common-Patterns-hatch	0	1
Pattern Area Cross Hatch	Area Pattern	0	Common-Patterns-hatch	0	1
Pattern Area Earth	Area Pattern	8	Common-Patterns-hatch	0	1
Pattern Area Grass	Area Pattern	4	Common-Patterns-hatch	0	1
Pattern Area Hatch	Area Pattern	0	Common-Patterns-hatch	0	1
Pattern Area Rock	Area Pattern	0	Common-Patterns-hatch	0	1
Pattern Area Swamp	Area Pattern	23	Common-Patterns-hatch	0	1
RA Traffic Flow Arrow	Cell	20	Traffic_Control-Flow arrows	0	0
SA Traffic Flow Arrow	Cell	20	Traffic_Control-Flow arrows	0	0
SLA Traffic Flow Arrow	Cell	20	Traffic_Control-Flow arrows	0	0
SRA Traffic Flow Arrow	Cell	20	Traffic_Control-Flow arrows	0	0
SRL Traffic Flow Arrow	Cell	20	Traffic_Control-Flow arrows	0	0

MicroStation CADD Standards

User

Utilities

Component	Type:	Color:	Level:	Line Style:	Line Weight:
CATV C - Under Gnd CATV Exist.	Linear	15	Utility-Cable	Custom	2
CATV C - Under Gnd CATV New	Linear	70	Utility-Cable	Custom	4
FO FO - Fiber Optic Cable Existing	Linear	15	Utility-Cable	Custom	2
FO FO - Fiber Optic Cable New	Linear	70	Utility-Cable	Custom	4
GD G - GDRIP	Cell	60	Utility-Gas	0	1
G - GFILLER	Cell	60	Utility-Gas	0	1
G - GMARKER	Cell	60	Utility-Gas	0	1
GM G - GMETER	Cell	60	Utility-Gas	0	1
GV G - GVALVE	Cell	60	Utility-Gas	0	1
G - GVENT	Cell	60	Utility-Gas	0	1
G - Gas Island	Linear	60	Utility-Gas	0	2
G G - Under Gnd Gas Exist.	Linear	116	Utility-Gas	Custom	2
G G - Under Gnd Gas New	Linear	28	Utility-Gas	Custom	4
P - Anchor	Cell	5	Photo-Anchor	0	1
P RISER P - CTVRISER	Cell	5	Utility-Pole	0	1
PED P - PED	Cell	1	Utility-Telephone	0	1
GUY P - POLEGUY	Cell	5	Utility-Pole	0	1
P - POLEL (Light)	Cell	5	Utility-Pole	0	1
P METER P - POLEMT (Power w/ Meter)	Cell	5	Utility-Pole	0	1
PP P - POLEP (Power)	Cell	5	Utility-Pole	0	1
PAC P - POLEPC (Power/Cable)	Cell	5	Utility-Pole	0	1
PAL P - POLEPL (Power/Light)	Cell	5	Utility-Pole	0	1

MicroStation CADD Standards

Component	Type:	Color:	Level:	Line Style:	Line Weight:
P - POLEPR (Power w/ Riser)	Cell	5	Utility-Pole	0	1
P - POLEPTC (Power/Tele/Cable)	Cell	5	Utility-Telephone	0	1
P - POLEPTCL (Pow/Tele/Cable/Light)	Cell	5	Utility-Telphone	0	1
P - POLET (Telephone)	Cell	5	Utility-Pole	0	1
P - POLETC (Tele/Cable)	Cell	5	Utility-Telephone	0	1
P - POLETP (Tele/Power)	Cell	5	Utility-Pole	0	1
P - POLETR (Power w/Transformer)	Cell	5	Utility-Pole	0	1
P - POWERHV (High Voltage Tower)	Cell	5	Utility-Pole	0	1
P - POWERHW (H-Frame PP)	Cell	5	Utility-Pole	0	1
Power Over Head Exist.	Linear	115	Utility-Power	Custom	2
Power Over Head New	Linear	27	Utility-Power	Custom	4
P - Tower	Cell	15	Utility-Pole	0	1
Under Gnd Power Exist.	Linear	115	Utility-Power	Custom	2
Under Gnd Power New	Linear	27	Utility-Power	Custom	4
RR - Railroad Dash	Linear	1	Utility-Railroad	Custom	2
RR - Railroad Single	Linear	1	Utility-Railroad	Custom	2
RR - RAILTOP	Linear	1	Utility-Railroad	0	2
S - Drain Field	Linear	13	Utility-Sanitary sewer	Dash 2	2
S - SAN MH	Cell	18	Utility-Sanitary sewer	0	1
S - Sanitary Sewer Exist.	Linear	130	Utility-Sanitary sewer	Custom	2
S - Sanitary Sewer New	Linear	18	Utility-Sanitary sewer	Custom	4

User

Utilities (Cont.)

Component	Type:	Color:	Level:	Line Style:	Line Weight:
S - Septic Tank	Linear	18	Utility-Sanitary sewer	0	2
SS - Storm Sewer Exist.	Linear	130	Utility-Storm sewer	Custom	2
SS - Storm Sewer New	Linear	18	Utility-Storm sewer	Custom	4
T - TELERISER	Cell	5	Utility-Telephone	0	1
T - TELEPAY (Pay Telephone)	Cell	15	Utility-Telephone	0	1
T - TMH (Tele. Manhole)	Cell	15	Utility-Telephone	0	1
T - Tele. Pedistal	Cell	1	Utility-Telephone	0	1
T - Telephone Over Head Exist.	Linear	15	Utility-Telephone	Custom	2
T - Telephone Over Head New	Linear	70	Utility-Telephone	Custom	4
T - Under Gnd Telephone Exist.	Linear	15	Utility-Telephone	Custom	2
T - Under Gnd Telephone New	Linear	70	Utility-Telephone	Custom	4
W - HYDRANT	Cell	31	Utility-Water	0	1
W - Sprinkler	Cell	13	Utility-Water	0	1
W - Under Gnd Water Exist.	Linear	12	Utility-Water	Custom	2
W - Under Gnd Water New	Linear	13	Utility-Water	Custom	4
W - WELL	Cell	3	Utility-Water	0	1
W - WFAUCET	Cell	13	Utility-Water	0	1
W - WMETER	Cell	13	Utility-Water	0	1
W - WVALVE	Cell	13	Utility-Water	0	1

User

Waterways

Component	Type:	Color:	Level:	Line Style:	Line Weight:
CL of River	Linear	3	Environmental-Natural water	cl3	2
Lake	Linear	3	Environmental-Natural water	Phantom	4
Pond	Linear	3	Envrionmental-Natural water	Phantom	4
River	Linear	3	Environmental-Natural water	0	4
SPRING Spring	Cell	23	Environmental-Natural water	0	1
Stream	Linear	3	Envronmental-Natural water	pl2	4
Swamp	Cell	23	Common-Patterns hatch	0	1

Reference

Symbols/Patterns

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

Coordinate

Lines (Grid)

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

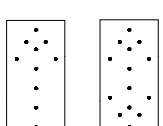
Traffic Control

Signs (D-2bs)

Component	Type: cell	Color: 0	Level: Roadway Signs	Line Style: 0	Line Weight: 2
Sign Character Marker (1, 2 or 3 digit)					

Traffic Control

Signs (D-2bs)

Component	Type: cell	Color: 0	Level: Roadway Signs	Line Style: 0	Line Weight: 2
Work Zone Fine			CONST-3A		
Speeding/Passing Plate			CONST-3X		
Drive Smart			CONST-6-48		
Gore Exit			EOS-1		
Gore Exit Open/Closed			EOS-2 EOS-2a		
	Type: cell	Color: 2	Levels: Roadway Signs	Line Style: 0	Line Weight: 1
Flagger (Symbol)					
Flashing Arrow Panel (Single or Double)					
Flashing Electric Light					

Traffic Control

Signs (D-2bs) (Cont.)

Component	Type: cell	Color: 0	Level: Roadway Signs	Line Style: 0	Line Weight: 2
Fresh Oil - Loose Gravel			FRESH OIL LOOSE GRAVEL SPECIAL		
Road Work Next __ Miles			ROAD WORK NEXT MILES G020-1		
End Road Work			END ROAD WORK G020-2a		
Pilot Car Follow Me			PILOT CAR FOLLOW ME G020-4		
Work Zone Plaque			WORK ZONE G023-1		
Give 'Em A Brake			Give 'em a BRAKE SLOW DOWN		
Grooved Pavement Ahead			GROOVED PAVEMENT AHEAD SPECIAL		
Hit A Worker			Hit a Worker $10,000 Fine Lose Your License		
Advance Right/Left Turn Arrow			M5-1R M5-1L		

Traffic Control

Signs (D-2bs) (Cont.)

Component	Type: cell	Color: 0	Level: Roadway Signs	Line Style: 0	Line Weight: 2
Turn Arrow			M6-1		
Straight Arrow			M6-3		
Alternate Assembly			M04-1 M3-_ M1-_ M_-_		
Detour (In Left Arrow)			M04-10L		
Detour (In Right Arrow)			M04-10R		
Detour Assembly			M04-8 M3-_ M1-_ M_-_		

Traffic Control

Signs (D-2bs) (Cont.)

Component	Type: cell	Color: 0	Level: Roadway Signs	Line Style: 0	Line Weight: 2
End Detour			MD4-8a		
Detour w/ Left Arrow			MD4-9L		
Detour w/ Right Arrow			MD4-9R		
Moveable Barricade (Left)	cell	2	Traffic_Control Barricades	0	1
Moveable Barricade (Right)	cell	2	Traffic_Control Barricades	0	1
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

Traffic Control

Signs (D-2bs) (Cont.)

Component	Type: cell	Color: 0	Level: Roadway Signs	Line Style: 0	Line Weight: 2
POP - Bridge Construction			Bridge Construction CONST-S-96		
POP - Bridge Improvements			Bridge Improvements CONST-S-96		
POP - Intersection Improvements			Intersection Improvements CONST-S-96		
POP - Lane Additions			Lane Additions CONST-S-96		
POP - New Bridge			New Bridge CONST-S-96		
POP - New Interchange			New Interchange CONST-S-96		
POP - New Intersection			New Intersection CONST-S-96		
POP - New Pavement			New Pavement CONST-S-96		

Traffic Control

Signs (D-2bs) (Cont.)

Component	Type: cell	Color: 0	Level: Roadway Signs	Line Style: 0	Line Weight: 2
POP - New Signals			New Signals CONST-5-96		
POP - Pavement Improvements			Pavement Improvements CONST-5-96		
POP - Road Improvements			Road Improvements CONST-5-96		
POP - Road Resurfacing			Road Resurfacing CONST-5-96		
POP - Road Widening			Road Widening CONST-5-96		
POP - Safety Improvements			Safety Improvements CONST-5-96		
POP - Signal Improvements			Signal Improvements CONST-5-96		

Traffic Control

Signs (D-2bs) (Cont.)

Component	Type: cell	Color: 0	Level: Roadway Signs	Line Style: 0	Line Weight: 2
Please Wait For Pilot Car			PLEASE WAIT FOR PILOT CAR SPECIAL		
Stop			STOP R1-1b		
Yield			YIELD R1-2		
4-Way (Plaque)			4-WAY R1-3		
3-Way (Plaque)			3-WAY R1-3		
X-Way (Plaque)			-WAY R1-3		
Stop Here On Red (Arrow)			STOP HERE ON RED R10-6		
Road Closed			ROAD CLOSED R11-2		

Traffic Control

Signs (D-2bs) (Cont.)

Component	Type: cell	Color: 0	Level: Roadway Signs	Line Style: 0	Line Weight: 2
Road Closed XX Miles Ahead			ROAD CLOSED MILES AHEAD LOCAL TRAFFIC ONLY R11-3a		
Road Closed To Thru Traffic			ROAD CLOSED TO THRU TRAFFIC R11-4		
To Oncoming Traffic			TO ONCOMING TRAFFIC R12-3b		
Speed Limit XX			SPEED LIMIT R2-1		
Reduced Speed Ahead			REDUCED SPEED AHEAD R2-5a		

Traffic Control

Signs (D-2bs) (Cont.)

Component	Type: cell	Color: 0	Level: Roadway Signs	Line Style: 0	Line Weight: 2
No Right Turn (Symbol)			R3-1		
No Left Turn (Symbol)			R3-2		
No Turns			R3-3		
No U-Turn (Symbol)			R3-4		
Left Lane Must Turn Left			R3-7L		
Right Lane Must Turn Rignt			R3-7R		

Traffic Control

Signs (D-2bs) (Cont.)

Component	Type: cell	Color: 0	Level: Roadway Signs	Line Style: 0	Line Weight: 2
Do Not Pass			R4-1		
Keep Left			R4-17aL		
Keep Right			R4-17aR		
Pass With Care			R4-2		
Keep Right (Horiz. Arrow)			R4-7a		
Keep Left (Horiz. Arrow)			R4-7aL		

Traffic Control

Signs (D-2bs) (Cont.)

Component	Type: cell	Color: 0	Level: Roadway Signs	Line Style: 0	Line Weight: 2
Do Not Enter			R5-1		
Wrong Way			R5-1a		
One Way Arrow (Left)			R6-1L		
One Way Arrow (Right)			R6-1R		
One Way (Left)			R6-2L		
One Way (Right)			R6-2R		
When Flashing			S4-4		

Traffic Control

Signs (D_2bs) (Cont.)

Component	Type: cell	Color: 0	Level: Roadway Signs	Line Style: 0	Line Weight: 2
Show Me Progress			CONST-2-30 CONST-2A-30		
Sign Symbol w/ Number (1 Sided)	cell	0	Roadway Signs	0	2
Sign Symbol w/ Number (2 Sided)	cell	0	Roadway Signs	0	2
Special Low Clearance XX' XX"					
Special Width Restriction					
Railroad Crossing			W10-1		

Traffic Control

Signs (D-2bs) (Cont.)

Component	Type: cell	Color: 0	Level: Roadway Signs	Line Style: 0	Line Weight: 2
Reduced Speed Limit Ahead			W3-5		
Road Work Ahead			W020-1		
Turn (Symbol Left Arrow)			W01-1L		

Traffic Control

Signs (D-2bs) (Cont.)

Component	Type: cell	Color: 0	Level: Roadway Signs	Line Style: 0	Line Weight: 2
Turn (Symbol Right Arrow)			WO1-1R		
Curve (Symbol Left Arrow)			WO1-2L		
Curve (Symbol Right Arrow)			WO1-2R		
Reverse Turn (Symbol Left Arrow)			WO1-3L		
Reverse Turn (Symbol Right Arrow)			WO1-3R		

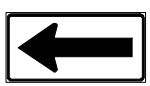
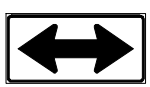
Traffic Control

Signs (D-2bs) (Cont.)

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

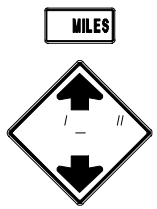
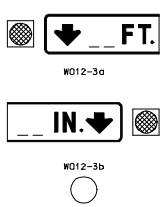
Traffic Control

Signs (D-2bs) (Cont.)

Component	Type: cell	Color: 0	Level: Roadway Signs	Line Style: 0	Line Weight: 2
Reverse Curve (Symbol Right Arrow)			WO1-4R		
Horizontal Arrow Sm. or Lg.			 WO1-6 (Sm.) OR WO1-6a (Lg.)		
Double Head Horizontal Arrow. Sm. or Lg.			 WO1-7 (Sm.) OR WO1-7a (Lg.)		
Chevron Sm. or Lg.			WO1-8 (Sm.) OR WO1-8a (Lg.)		
Double Down Arrow			WO12-1		

Traffic Control

Signs (D-2bs) (Cont.)

Component	Type: cell	Color: 0	Level: Roadway Signs	Line Style: 0	Line Weight: 2
Low Clearance					
Overhead Low Clearance					
Advisory Speed (Plaque)					
Detour Ahead					

Traffic Control

Signs (D-2bs) (Cont.)

Component	Type: cell	Color: 0	Level: Roadway Signs	Line Style: 0	Line Weight: 2
Road Closed Ahead			W020-3		
One Lane Road Ahead			W020-4		
Rt/Ctr/Lt Lane Closed Ahead			W020-5 CENTER LANE OR LEFT LANE		
Rt/Ctr/Lt 2 Lanes Closed Ahead			W020-5a CENTER OR LEFT		
Rt/Ctr/Lt Lane Closed			W020-6a CENTER OR LEFT		
Flagger (Sign)			W020-7a		

Traffic Control

Signs (D-2bs) (Cont.)

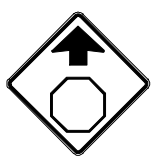
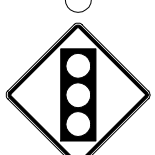
Component	Type: cell	Color: 0	Level: Roadway Signs	Line Style: 0	Line Weight: 2
Be Prepared to Stop			W03-4		
500 Ft. / 1000 Ft.			W016-2		
Open Trench			W020-9c		
Fresh Oil			W021-2		
Road Work Ahead			W020-1		

Traffic Control

Signs (D-2bs) (Cont.)

Component	Type: cell	Color: 0	Level: Roadway Signs	Line Style: 0	Line Weight: 2
Shoulder Work Ahead			W021-5b		
Sand Blasting			W021-7		
Blasting Zone 1000 Ft			W022-1		
Turn Off 2-Way Radios			W022-2		
End Blasting Zone			W022-3		
Wet Paint			W022-6a		

Signs (D-2bs) (Cont.)

Component	Type: cell	Color: 0	Level: Roadway Signs	Line Style: 0	Line Weight: 2
1/2 Mile 1 Mile (Plaque)			W016-3		
1/2 Mile 1 Mile (Plaque)			W16-3a		
Stop Ahead			W03-1		
Stop Ahead (Symbol)			 W03-1a		
Yield Ahead			W03-2		
Yield Ahead (Symbol)			W03-2a		
Signal Ahead (Symbol)			 W03-3		

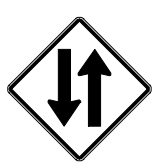
Traffic Control

Signs (D-2bs) (Cont.)

Component	Type: cell	Color: 0	Level: Roadway Signs	Line Style: 0	Line Weight: 2
Merge (Symbol From Left)			W04-1L		
Merge (Symbol From Right)			W04-1R		
Road Narrows			W05-1		
One Lane Bridge			W05-3		

Traffic Control

Signs (D-2bs) (Cont.)

Component	Type: cell	Color: 0	Level: Roadway Signs	Line Style: 0	Line Weight: 2
Narrow Lanes			W05-5		
Divided Highway (Symbol)			W06-1		
Divided Highway Ends (Symbol)			W06-2		
Two Way Traffic (Symbol)			 W06-3		

Traffic Control

Signs (D-2bs) (Cont.)

Component	Type: cell	Color: 0	Level: Roadway Signs	Line Style: 0	Line Weight: 2
Next XX Miles (Plaque)			W07-3a		
Bump			W08-1		
Uneven Lanes			W08-11		
No Center Stripe			W08-12		
Dip			W08-2		

Traffic Control

Signs (D-2bs) (Cont.)

Component	Type: cell	Color: 0	Level: Roadway Signs	Line Style: 0	Line Weight: 2
Pavement Ends			WD8-3		
Soft Shoulder			WD8-4		
Slippery When Wet (Symbol)			WD8-5		
Truck Crossing			WD8-6		
Truck Entrance			WD8-6a		
Loose Gravel			WD8-7		

Traffic Control

Signs (D-2bs) (Cont.)

Component	Type: cell	Color: 0	Level: Roadway Signs	Line Style: 0	Line Weight: 2
Low Shoulder			W08-9		
Shoulder Drop-Off			W08-9a		

Traffic Control

Pavement Markings

Component	Type:	Color:	Level:	Line Style:	Line Weight:
Permanent 4" White Intermittent	Linear	0	Traffic_Control-Permanent striping	Dash	7
Permanent 4" Yellow Intermittent	Linear	20	Traffic_Control-Permanent striping	Dash	7
Perm. 4" White Solid	Linear	0	Traffic_Control-Permanent striping	0	7
Perm 4" Yellow Solid	Linear	20	Traffic_Control-Permanent striping	0	7
Preformed Left Arrow	Cell	0	Traffic_Control-Flow arrows	0	4
Preformed Railroad Crossing	Cell	0	Traffic_Control-Pavement marker	0	3
Preformed Right Arrow	Cell	0	Traffic_Control-Flow arrows	0	4
Preformed Straight Arrow	Cell	0	Traffic_Control-Flow arrows	0	4
Preformed Straight-Left Arrow	Cell	0	Traffic_Control-Flow arrows	0	4
Preformed Straight-Right Arrow	Cell	0	Traffic_Control-Flow arrows	0	4

Traffic Control

Pavement Markings

Component	Type:	Color:	Level:	Line Style:	Line Weight:
ONLY Preformed "Only" 8'	Cell	0	Traffic_Control-Pavement marker	0	4
ONLY Preformed "Only" 10'	Cell	0	Traffic_Control-Pavement marker	0	4
Preformed Stop Line 12', 14' & 24'	Cell	0	Traffic_Control-Permanent striping	0	4
Temp. (4") White Intermittent	Linear	0	Traffic_Control-Temporary striping	Dash	7
Temp. (4") Yellow Intermittent	Linear	20	Traffic_Control-Temporary striping	Dash	7
Temp. (4") White Solid	Linear	0	Traffic_Control-Temporary striping	0	7
Temp. (4") Yellow Solid	Linear	20	Traffic_Control-Temporary striping	0	7

Traffic Control

Symbols/Patterns

SCALE 0 10 20 30 Graphic Scale 1"=10', 1"=20', 1"=30', 1"=40', 1"=50', 1"=60', 1"=100', 1"=200'	Cell	0	Common-Graphic scales	0	3
N North Arrow	Cell	2	Common-North arrow	0	4
Pattern - Removals	Area Pattern	0	Common-Patterns-hatch	0	1
Work Area Pattern	Area Pattern	0	Common-Patterns-hatch	0	1
TRAFFIC CONTROL LEGEND SIGN (SINGLE SIDED) SIGN (DOUBLE SIDED) FLAGGER CONE CHANNELIZER BARRICADE CHANGEABLE MESSAGE BOARD Traffic Control Legend	Cell		Common-Legends		
NORTH WEST EAST SOUTH TRAFFIC FLOW DIAGRAM ESTIMATED TRAFFIC VOLUME Turning Diagram	Cell		Common-Legends		

MicroStation CADD Standards

Component	Type:	Color:	Level:	Line Style:	Line Weight:
Attenuator	L	0	Traffic_Control-Attenuators	0	2
Portable Changeable Message Sign (PCMS)	Cell	6	Traffic_Control-Electric Signs	0	2
Channelizer	Cell		Traffic_Control-Channelizers		
Channelizer Cone	Cell		Traffic_Control-Channelizers		
Channelizer Drum-Like	Cell		Traffic_Control-Channelizers		
Channelizer Trim-Like	Cell		Traffic_Control-Channelizers		
Cone	Cell		Traffic_Control-Channelizers		
Delineator (filled circle)	Cell		Roadway-Signs		
Delineator (filled square)	Cell		Roadway-Signs		
Delineator (filled triangle)	Cell		Roadway-Signs		
Impact Attenuator 8,9,10,12,14,17,19	Cell	0	Roadway-Signs - Attenuators	0	2
Delineator (open circle)	Cell	0	Roadway-Signs	0	2
Flagger Symbol	Cell	2	Roadway-Signs	0	1
Movable Barricade Plan View	Cell	2	Traffic_Control-Barricades	0	1
Dir. Indicator Barricade (Lt or Rt)	Cell		Traffic_Control-Barricades		
Movable Barricade Side View Lt or Rt	Cell		Traffic_Control-Barricades		
Raised Pvm't Marker	Linear	20	Traffic_Control-Pavement	0	2
Sign Symbol (1 & 2 Sided)	Cell	0	Roadway-Signs	0	2
Sign Symbol w/Number (1 Sided)	Cell	0	Roadway-Signs	0	2
Sign Symbol w/Number (2 Sided)	Cell	0	Roadway-Signs	0	2
Traffic Barrier Plan View	Multi-Line	0	Roadway-Safety	0	2
Traffic Barrier Section View	Cell	40	Traffic_Control-Traffic barriers	0	1

Erosion Control
Symbols/Patterns

MicroStation CADD Standards

Component	Type:	Color:	Level:	Line Style:	Line Weight:
Flow Arrow	Cell	52	Roadway-Ditches	0	2
Graphic Scale 1"=10', 1"=20', 1"=30', 1"=40', 1"=50', 1"=60',1"=100', 1"=200',	Cell	0	Common-Graphic scales	0	3
North Arrow	Cell	2	Common-North arrow	0	4
Pattern-Removals	Area Pattern	0	Common-Patterns-hatch	0	1
Pattern-Rock Blanket	Area Pattern	0	Common-Patterns-hatch	0	1
Pattern-Rock Ditch Liner	Area Pattern	0	Common-Patterns-hatch	0	1
Pattern-RockLining(Outlet)	Area Pattern	0	Common-Patterns-hatch	0	1
Rock Lining Pattern	Area Pattern	0	Common-Patterns-hatch	0	1
Sodding Area Pattern	Area Pattern	4	Common-Patterns-hatch	0	5
TEMPORARY EROSION CONTROL LEGEND ROCK DITCH CHECK STRAW BALE DITCH CHECK STRAW BALE FENCE TEMPORARY BERM SILT FENCE SILT FENCE STRAW BALE FENCE	Cell		Common-Legends		

Erosion Control
Temporary Erosion Control Devices

Temporary Pipe 6" - 36"	MultiLine	31	Erosion_Control-Temporary pipe	0	2
Rock Ditch Check	Cell	1	Erosion_Control-Rock ditch check	0	1
Sediment Basin	Linear	1	Erosion_Control-Sediment basin	0	2
Silt Fence (Inside)(Outside)	Linear	7	Erosion_Control-Silt fence	Custom	4
Silt Fence B (Inside)(Outside)	Linear	7	Erosion_Control-Silt fence	Custom	4
Silt Fence F (Inside)(Outside)	Linear	7	Erosion_Control-Silt fence	Custom	4
Slope Limits	Linear	7	Roadway-Slope lines	Dash 1	4
Slope Limits in Cut	Linear	7	Roadway-Slope break line	Custom	4
Slope Limits in Fill	Linear	7	Roadway-Slope break line	Custom	4

Erosion Control

Temporary Erosion Control Devices (Cont.)

Component	Type:	Color:	Level:	Line Style:	Line Weight:
Straw Bale Ditch Check	Cell	5	Erosion_Control-Straw bale ditch check	0	1
Straw Bale Fence	Cell	5	Erosion_Control-Straw bale ditch check	0	1
Temporary Berm	Linear	52	Erosion_Control-Temporary berms	Custom	4

Lighting

Equipment

Cable-Conduit	Linear	51	Lighting_Signals-Conduit	0	4
Cable-Conduit (Existing)	Linear	51	Lighting_Signals-Conduit	3	2
Conduit, rigid (Existing)	Linear	51	Lighting_Signals-Conduit	Custom	1
Conduit, rigid (bridge)	Linear	51	Lighting_Signals-Conduit	Custom	2
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
Controller, Lighting	Cell	0	Lighting_Signals-Equipment	0	1
Controller, Lighting (Existing)	Cell	0	Lighting_Signals-Equipment	2	1
JCT Junction Box	Cell	5	Lighting_Signals-Equipment	0	1
Post, wood	Cell	4	Lighting_Signals-Equipment	0	1
Power Cable	Linear	51	Utility-Power	0	2
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

Lighting

Equipment (Cont.)

Component	Type:	Color:	Level:	Line Style:	Line Weight:
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 (Existing)	Cell	0	Lighting_Signals-Equipment	0	1

Lighting

Luminaires

Arm w/150w H.P.S.L. (4' to 15')	Cell	0	Lighting_Signals-Equipment	0	1
Arm w/250w H.P.S.L. (4' to 15')	Cell	0	Lighting_Signals-Equipment	0	1
Arm w/400w H.P.S.L. (4' to 15')	Cell	0	Lighting_Signals-Equipment	0	1
Underpass, 150w Luminaire	Cell	0	Lighting_Signals-Equipment	0	1

Lighting

Symbols/Patterns

Graphic Scale 1"= 20'	Cell	0	Common-Graphic Scales	0	3
Graphic Scale 1"= 50'	Cell	0	Common-Graphic Scales	0	3
Lighting Legend	Cell		Common-Legends		
North Arrow	Cell	2	Common-North arrow	0	4

Signals

Equipment

Component	Type:	Color:	Level:	Line Style:	Line Weight:
Conduit, bridge	Linear	51	Lighting_Signals-Conduit	Custom	2
Conduit, existing	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
Controller, Signals	Cell	0	Lighting_Signals-Equipment	0	1
Controller, Signals (existing)	Cell	0	Lighting_Signals-Equipment	2	1
Detector, 6'x15' loop	Cell	0	Roadway-Signals	0	2
Detector, 6'x30' loop	Cell	0	Roadway-Signals	0	2
Detector, 6'x6' loop	Cell	0	Roadway-Signals	0	2
Detector, push button	Cell	0	Lighting_Signals-Equipment	0	1
JCT Junction Box	Cell	5	Lighting_Signals-Equipment	0	1
Post, wood	Cell	4	Lighting_Signals-Equipment	0	1
Power Cable	Linear	51	Utility-Power	Custom	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 (existing)	Cell	0	Lighting_Signals-Equipment	0	1

MicroStation CADD Standards

Signals

Equipment (Cont.)

Component	Type:	Color:	Level:	Line Style:	Line Weight:
Pull Box preformed Type 1	Cell	0	Lighting_Signals-Equipment	0	1
Pull Box preformed Type 2	Cell	0	Lighting_Signals-Equipment	0	1
Signal Head, (existing)	Cell	0	Lighting_Signals-Conduit	0	1
Signal Head, (opt. lim. conv.)	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, (standard)	Cell	0	Lighting_Signals-Conduit	0	1
Signal Wire, straight (d38)	Linear	0	Lighting - Signals - Conduit	0	2
Span Wire	Linear	0	Lighting - Signals - Conduit	0	1
Video Detector	Cell	0	Lighting - Signals - Conduit	0	1

Signals

Mast Arms Type A Base

A Type Base 8' - 54'	Cell	0	Lighting_Signals-Equipment	0	1

Signals

Mast Arms Type C Base

C Type Base 8' - 54'	Cell	0	Lighting_Signals-Equipment	0	1

Signals

Mast Arms Type F Base

F Type Base 8' - 54'	Cell	0	Lighting_Signals-Equipment	0	1

Signals

Pavement Marking

Perm.4" Intermittent White	Linear	0	Traffic_Control-Pavement striping	Dash 3	7
Perm.4" Intermittent Yellow	Linear	20	Traffic_Control-Pavement striping	Dash 3	7
Perm.4" Solid White	Linear	0	Traffic_Control-Pavement striping	0	7
Perm.4" Solid Yellow	Linear	20	Traffic_Control-Pavement striping	0	7

Signals

Pavement Marking

Component	Type:	Color:	Level:	Line Style:	Line Weight:
Preformed Left Arrow	Cell	0	Traffic_Control-Flow arrows	0	4
Preformed Right Arrow	Cell	0	Traffic_Control-Flow arrows	0	4
Preformed Straight Arrow	Cell	0	Traffic_Control-Flow arrows	0	4
Preformed Straight Left Arrow	Cell	0	Traffic_Control-Flow arrows	0	4
Preformed Straight Right Arrow	Cell	0	Traffic_Control-Flow arrows	0	4
ONLY Preformed ONLY (8')	Cell	0	Traffic_Control-Pavement marker	0	4
ONLY Preformed ONLY (10')	Cell	0	Traffic_Control-Pavement marker	0	4
Stop Line (12", 14' & 24')	Cell	0	Traffic_Control-Permanent striping	Cust	4
Temp. 8mm (4") Intermittent White	Linear	0	Traffic_Control-Temporary striping	Dash 3	7
Temp. 8mm (4") Intermittent Yellow	Linear	20	Traffic_Control-Temporary striping	Dash 3	7
Temp. 8mm (4") Solid White	Linear	0	Traffic_Control-Temporary striping	0	7
Temp. 8mm (4") Solid Yellow	Linear	20	Traffic_Control-Temporary striping	0	7

Signals

Symbols/Patterns

D 38 Standard Plan Light	Cell	0	Lighting_Signals-Conduit	0	1
D 38 Standard Plan No Turn	Cell	20	Lighting_Signals-Conduit	0	1
D 38 Standard Plan Left Turn	Cell	20	Lighting_Signals-Conduit	0	1
D 38 Standard Plan Right Turn	Cell	20	Lighting_Signals-Conduit	0	1
D 38 Standard Stop Line	Cell	20	Lighting_Signals-Conduit	0	1
SCALE 0 100 200 300 400 500 Graphic Scale 10', 20',30',40',50',60', 100', 200'	Cell	0	Common-Graphic scales	0	3
25 15 5 0 25 50 SCALE IN METERS Graphic Scale 1:500,1:1000	Cell	0	Common-Graphic scales	0	3

Signals

Symbols/Patterns (Cont.)

Component	Type:	Color:	Level:	Line Style:	Line Weight:
North Arrow	Cell	2	Common-North arrow	0	4
Symbol, Detector (Hexagon)	Cell	0	Lighting_Signals-Conduit	0	1
Symbol, Pull Box (Rectangle)	Cell	0	Lighting_Signals-Conduit	0	1
Symbol, Signal Head (Triang.)	Cell	0	Lighting_Signals-Conduit	0	1
Symbol, Signal Pole (Circle)	Cell	0	Lighting_Signals-Conduit	0	1
Traffic Signals Legend	Cell		Common-Legends		
Turning Diagram	Cell		Common-Legends		

Signing

Signs (Cont.)

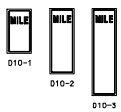
Component	Type: cell	Color: 0,2,3	Level: Roadway Signs	Line Style: 0	Line Weight: 0,2
1,2,3 Character Sign Marker					
ALTPAS Alt. Passing Lane					

Signing

Signs (Cont.)

Component	Type: cell	Color: 0,2,3	Level: Roadway Signs	Line Style: 0	Line Weight: 0,2
Hospital (Symbol)			D9-2		
Camping (Symbol)			D9-3		
Trailer Camping (Symbol)			D9-3a		
Handicap Access (Symbol)			D9-6		
Gas (Symbol)			D9-7		
Food (Symbol)			D9-8		
Lodging (Symbol)			D9-9		
R.V. Sanitary Station			D9-12		

MicroStation CADD Standards

Component	Type: cell	Color: 0	Level: Roadway Signs	Line Style: 0	Line Weight: 2
Milepost Marker 1,2,3 Digit					
Missouri Welcome Center					
Gore Exit (1 Character)					
Gore Exit (2 Character)					
Gore Exit					
Train Station (Symbol)					
Interstate Shield					
Interstate Shield (MO)					
U.S. Route Marker					
U.S. Shield					
State Numbered Route Marker					
State Numbered Shield					

Signing

Signs (Cont.)

Component	Type: cell	Color: 0,3	Level: Roadway Signs	Line Style: 0	Line Weight: 0,2
State Lettered Route Marker			M1-7		
State Lettered Shield			M1-7a		
Junction Marker			JCT M2-1		
North - Direction Marker			NORTH M3-1		
East - Direction Marker			EAST M3-2		
South - Direction Marker			SOUTH M3-3		
West - Direction Marker			WEST M3-4		
Alternate Marker			ALTERNATE M4-1		
Business Marker			BUSINESS M4-3		
To Marker			TO M4-5		
End Marker			END M4-6		
Advance Left Turn Arrow			M5-1L		

Signing

Signs (Cont.)

Component	Type: cell	Color: 0	Level: Roadway Signs	Line Style: 0	Line Weight: 2
Advance Right Turn Arrow			M5-1R		
Advance Turn Arrow 45° Lt.			M5-2L		
Advance Turn Arrow 45° Rt.			M5-2R		
Turn Arrow			M6-1		
Arrow 45° Lt.			M6-2L		
Arrow 45° Rt.			M6-2R		
Straight Ahead Arrow			M6-3		
Arrow Lt./Rt.			M6-4		
Double Head Arrow Diagonal			M6-5		
Arrow Straight/Lt.			M6-6L		
Arrow Straight/Rt.			M6-6R		

Signing

Signs (Cont.)

Component	Type: cell	Color: 0	Level: Roadway Signs	Line Style: 0	Line Weight: 2
Arrow Straight/45° Lt.			M6-7L		
Arrow Straight/45° Rt.			M6-7R		
Missouri on the Move			MISSOURI ON THE MOVE Progress as Promised		
Stop			STOP R1-1b		
Yield			YIELD R1-2		
3-Way and 4-Way (Plaque)			3-WAY R1-3 4-WAY R1-3		
X-Way (Plaque)			-WAY R1-3		
Speed Limit			SPEED LIMIT R2-1		

Signing

Signs (Cont.)

Component	Type: cell	Color: 0	Level: Roadway Signs	Line Style: 0	Line Weight: 0,2
Reduced Speed Ahead			R2-5a		
No Right Turn (Symbol)			R3-1		
No Left Turn (Symbol)			R3-2		
No Turns			R3-3		
No U-Turn (Symbol)			R3-4		
Left Arrow Only			R3-5L		
Right Arrow Only			R3-5R		

Signing

Signs (Cont.)

Component	Type: cell	Color: 0	Level: Roadway Signs	Line Style: 0	Line Weight: 2
Straight Ahead Arrow Only			R3-5S		
Left Arrow/ Straight Arrow			R3-6L		
Right Arrow/ Straight Arrow			R3-6R		
Left Lane Must Turn Left			R3-7L		
Right Lane Must Turn Right			R3-7R		
Left Arrow Only Left Arrow/ Straight Arrow			R3-8		
Two Way Left Turn Only			R3-9a		

Signing

Signs (Cont.)

Component	Type: cell	Color: 0	Level: Roadway Signs	Line Style: 0	Line Weight: 0,2
Center Lane Only			R3-9b		
Do Not Pass			R4-1		
Pass With Care			R4-2		
Slower Traffic Keep Right			R4-3		
Keep Right (Symbol)			R4-7		
Keep Right (Horizontal Arrow)			R4-7a		
Keep Right (45 degrees)					
Keep Left (Horizontal Arrow)			R4-7aL		

Signing

Signs (Cont.)

Component	Type: cell	Color: 0	Level: Roadway Signs	Line Style: 0	Line Weight: 2
Keep Left (Symbol)			R4-8		
Next Passing Lane X Miles			R4-13		
End Passing Lanes			R4-14		
Keep Left			R4-17aL		
Keep Right			R4-17aR		
Do Not Enter			R5-1		
Wrong Way			R5-1a		
One Way Arrow (Left)			R6-1L		
One Way Arrow (Right)			R6-1R		

Signing

Signs (Cont.)

Component	Type: cell	Color: 0	Level: Roadway Signs	Line Style: 0	Line Weight: 0,2
One Way (Left Arrow)			R6-2L R6-2R		
Divided Highway			R6-3		
Divided Highway			R6-3a		
No Turn On Red			R10-11e		
Road Closed			R11-2		
Road Closed xx Miles Ahead			R11-3a		
Road Closed To Thru Traffic			R11-4		
To Oncoming Traffic			R12-3b		
Buckle Safety Buckle			R20-2		
School Crossing			S1-1		

Signing

Signs (Cont.)

Component	Type: cell	Color: 0	Level: Roadway Signs	Line Style: 0	Line Weight: 2
School Crossing			S2-1		
School Bus Stop Ahead			S3-1		
School Plaque			S4-3		
When Flashing			S4-4		
Turn Left Arrow			M1-1L		
Turn Right Arrow			M1-1R		
Curve Left Arrow			M1-2L		
Curve Right Arrow			M1-2R		

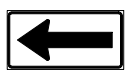
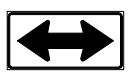
Signing

Signs (Cont.)

Component	Type: cell	Color: 0	Level: Roadway Signs	Line Style: 0	Line Weight: 0,2
Reverse Turn Left Arrow			W1-3L		
Reverse Turn Right Arrow			W1-3R		
Reverse Curve Left Arrow			W1-4L		
Reverse Curve Right Arrow			W1-4R		
Double Arrow Reverse Curve Left			W1-4bL		
Double Arrow Reverse Curve Right			W1-4bR		
Winding Road Left			W1-5L		

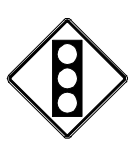
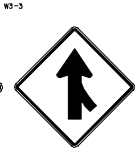
Signing

Signs (Cont.)

Component	Type: cell	Color: 0	Level: Roadway Signs	Line Style: 0	Line Weight: 2
Winding Road Right			W1-5R		
Horizontal Arrow Left & Right			 W1-6		
Double Headed Horizontal Arrow			 W1-7		
Chevron			W1-8		
Crossroad			W2-1		
Side Road			W2-2		
Side Road Oblique			W2-3		
T-Intersection			W2-4		

Signing

Signs (Cont.)

Component	Type: cell	Color: 0	Level: Roadway Signs	Line Style: 0	Line Weight: 0,2
Y-Intersection	W2-5				
Passing Lane Ends	W4-10				
Watch Left Turn Traffic	W4-11				
Passing Lane Symbol/Plaque	W4-12 W4-12A				
Stop Ahead/ Yield Ahead	W3-1 W3-2				
Signal Ahead	 W3-3				
Merge From Left/Right	W4-1L  W4-1R				

Signing

Signs (Cont.)

Component	Type: cell	Color: 0	Level: Roadway Signs	Line Style: 0	Line Weight: 2
Lane Reduction	W4-2				
Added Lane	W4-3L W4-3R				
Road Narrows	W5-1				
Narrow Bridge	W5-2				
One Lane Bridge	W5-3				
Divided Highway	W6-1				
Divided Highway Ends	W6-2				

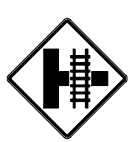
Signing

Signs (Cont.)

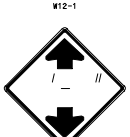
Component	Type: cell	Color: 0	Level: Roadway Signs	Line Style: 0	Line Weight: 0,2
Two Way Traffic			W6-3		
Hill			W7-1		
Bump			W8-1		
Dip			W8-2		
Pavement Ends			W8-3		
Soft Shoulder			W8-4		
Slippery When Wet			W8-5		

Signing

Signs (Cont.)

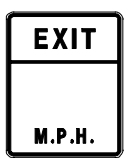
Component	Type: cell	Color: 0	Level: Roadway Signs	Line Style: 0	Line Weight: 2
Right Lane Ends					
Lane Ends Merge Lt/Rt					
Railroad Crossing					
Railroad Crossing Crossroad					
Railroad Crossing Side Road					
Railroad Crossing T-Intersection					

MicroStation CADD Standards

Component	Type: cell	Color: 0	Level: Roadway Signs	Line Style: 0	Line Weight: 0,2
Bicycle			W11-1		
Horse & Buggy			W11-12		
Emergency Signal Ahead			W11-12p		
Pedestrian Crossing			W11A-2		
Deer Crossing			W11-3		
Cattle Crossing			W11-4		
Emergency Vehicle Ahead			W11-8		
Double Down Arrow			W12-1		
Low Clearance			 W12-2		

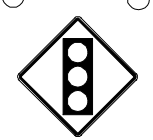
Signing

Signs (Cont.)

Component	Type: cell	Color: 0	Level: Roadway Signs	Line Style: 0	Line Weight: 2
Low Clearance Plaque			W12-2x		
Overhead Low Clearance (Feet)			W12-3a		
Overhead Low Clearance (Inches)			W12-3b		
Advisory Speed			W13-1		
Advisory Exit Speed			 W13-2		
Dead End			W14-1		
No Outlet			W14-2		
No Passing Zone Pennant			W14-3		
Share The Road			W16-1		

Signing

Signs (Cont.)

Component	Type: cell	Color: 0	Level: Roadways Signs	Line Style: 0	Line Weight: 2
Stop Ahead Sign/Plaque			W03-1 W03-1a		
Yield Ahead Sign/Plaque			W03-2 W03-2a		
Signal Ahead			 W03-3		
Reduced Speed Limit Ahead			W03-5		

Signing

Symbols & Patterns

Component	Type:	Color:	Level:	Line Style:	Line Weight:
Hatch Area Pattern	Area Pattern	0	Common-Patterns-hatch	0	2
Cross Hatch Area Pattern	Area Pattern	0	Common-Patterns-hatch	0	2
Concrete Areafill	Area Pattern	0	Common-Patterns-hatch	0	1

Signing

Symbols & Patterns (Cont.)

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

Signing Section

Lines (Misc)

Component	Type:	Color:	Level:	Line Style:	Line Weight:
Entrance Line	Linear	11	Roadway-Entrances	0	5
Grid Primary Lines	Linear	4	Grid_Line-Main	0	4
Grid Secondary Lines	Linear	7	Grid_Line-Secondary	0	1
Road Section	Linear	1	Typical_Section-New line	0	5

Signing Section

Signs

Existing Sign Board	Linear	1	Roadway-Signs	Dash 2	2
Footing	Linear	0	Roadway-Signs	0	4
Post	Linear	8	Roadway-Signs	0	4
Post Behind Sign	Linear	150	Roadway-Signs	Dash 2	2
Sign Board	Linear	0	Roadway-Signs	0	4

Signing Section

Symbols/Patterns

Component	Type:	Color:	Level:	Line Style:	Line Weight:
Concrete Areafill	Area Pattern	1	Common-Patterns-hatch	0	1
Earth Areafill	Area Pattern	8	Common-Patterns-hatch	0	1
10' Graphic Scale 10	Cell	1	Common-Graphic scales	0	4
20' Graphic Scale 20	Cell	1	Common-Graphic scales	0	4
Graphic Scale 5	Cell	1	Common-Graphic scales	0	4
Rock Areafill	Area Pattern	1	Common-Patterns-hatch	0	1

Signing Section

Utilities

Component	Type:	Color:	Level:	Line Style:	Line Weight:
CATV CATV - UG Cable Exist	Linear	15	Utility-Cable	Custom	2
CATV CATV - UG Cable New	Linear	70	Utility-Cable	Custom	4
FO FO - Fiber Optic Cable Exist	Linear	15	Utility-Cable	Custom	2
FO FO - Fiber Optic Cable New	Linear	70	Utility-Cable	Custom	4
G G - UG Gas Exist	Linear	116	Utility-Gas	Custom	2
G G - Gas New	Linear	28	Utility-Gas	Custom	4
P P - UG Power Exist	Linear	115	Utility-Power	Custom	2
P P - UG Power New	Linear	51	Utility-Power	Custom	4
RR - Railroad	Linear	1	Utility-Railroad	Custom	2
S San Sewer Line Exist	Linear	114	Utility-Sanitary sewer	Custom	2
S San Sewer Line New	Linear	18	Utility-Sanitary sewer	Custom	4
SS SS - Storm Sewer Exist	Linear	114	Utility-Storm sewer	Custom	2

Signing Section

Utilities (Cont.)

SS - Storm Sewer New	Linear	18	Utility-Storm sewer	Custom	4
T - UG Telephone Exist	Linear	15	Utility-Telephone	Custom	2
T- UG Telephone New	Smart Line	70	Utility-Telephone	Custom	4
W - Water Line Exist	Smart Line	12	Utility-Water	Custom	2
W - Water Line New	Linear	13	Utility-Water	Custom	4

X-Section/Culverts

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' Right	Cell	1	Drainage-Structures	0	1
DI Base 2'-4' Center	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

X-Section/Culverts

Drop Inlet Tops

A 3'x2' left, right, sideview	Cell	1	Drainage-Structures	0	1
A 4'x2' left, right	Cell	1	Drainage-Structures	0	1
B 3'x2' 4'x2' left, right	Cell	1	Drainage-Structures	0	1
C 3'x2' 4'x2' left, right	Cell	1	Drainage-Structures	0	1
D 2'x2' left w/ curb D 2'x2' right w/ curb	Cell	1	Drainage-Structures	0	1
D 2'x2' left w/o curb mh D 2'x2' right w/o curb mh	Cell	1	Drainage-Structures	0	1

X-Section/Culverts

Drop Inlet Tops (Cont.)

Component	Type:	Color:	Level:	Line Style:	Line Weight:
E variable front view E variable side view	Cell	1	Drainage-Structures	0	1
S-1 5'x2' 5'x3' side view S-1 variable side view	Cell	1	Drainage-Structures	0	1
S-2 5'x2' left, right	Cell	1	Drainage-Structures	0	1
S-2 variable left, right, sideview	Cell	1	Drainage-Structures	0	1
S-3 3'x2' side view	Cell	1	Drainage-Structures	0	1
S-3 5'x3' left, right, sideview	Cell	1	Drainage-Structures	0	1
S-3 variable for E & EE mod.	Cell	1	Drainage-Structures	0	1
S-3 variable side view S-3 variable side view	Cell	1	Drainage-Structures	0	1
T 2.5'x3' left, right	Cell	1	Drainage-Structures	0	1
T 2.5'x3' left,right w/ mh	Cell	1	Drainage-Structures	0	1
T variable	Cell	1	Drainage-Structures	0	1
X variable left, right	Cell	1	Drainage-Structures	0	1

X-Section/Culverts

Flared End Sections (Concrete)

12"-84" Inlet Left	Cell	31	Drainage-Structures	0	2
12"-84" Inlet Right	Cell	31	Drainage-Structures	0	2
12"-84" Outlet Left	Cell	31	Drainage-Structures	0	2
12"-84" Outlet Right	Cell	31	Drainage-Structures	0	2

X-Section/Culverts

Flared End Sections (Concrete) (Cont.)

Component	Type:	Color:	Level:	Line Style:	Line Weight:
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

X-Section/Culverts

Flared End Sections (Metal)

12"-84"F.E.S. Left	Cell	31	Drainage-Structures	0	4
12"-84"F.E.S. Right	Cell	31	Drainage-Structures	0	4

X-Section/Culverts

Lines (Ground, Flow, Entrance)

Component	Type:	Color:	Level:	Line Style:	Line Weight:
Centerline of Road	Linear	20	XS-Existing surface-ground	4	4
Existing Ground Line	Linear	90	XS-Existing surface-ground	2	3
Finished Ground Line	Linear	1	XS-Proposed surface-ground	0	5
Subgrade Line	Linear	0	XS-Existing surface-ground	0	2
Entrance Line	Linear	11	Roadway-Entrances	0	5
Flowline of Pipe	Linear	31	Drainage-Structures	0	1

X-Section/Culverts

Lines (Right of Way)

Component	Type:	Color:	Level:	Line Style:	Line Weight:
Permanent Easement	Linear	2	Roadway-Permanent easement	Dash 6	4
Existing Right of Way	Linear	6	Roadway-Existing rw	Dash 4	4
New Right of Way	Linear	2	Roadway-New rw	0	6
Temporary Easement	Linear	6	Roadway-Temporary easement	Dash 4	2

X-Section/Culverts

Manholes - Precast

Manhole Top Type 4 variable	Cell	1	Drainage-Structures	0	1
Manhole Base Type 4 variable	Cell	1	Drainage-Structures	0	1
Manhole Top 6'	Cell	1	Drainage-Structures	0	1
Manhole Base 6'	Cell	1	Drainage-Structures	0	1

X-Section/Culverts

Pipes/Culverts

Component	Type:	Color:	Level:	Line Style:	Line Weight:
1½' - 8'Box Culvert Exist	Multi-line	31	Drainage-Structures	Dash 3	2
1½' - 8' Box Culvert New	Multi-line	31	Drainage-Structures	0	4
CMP 6" - 84" Exist	Multi-line	31	Drainage-Structures	Dash 3	2
CMP 6" - 84" New	Multi-line	31	Drainage-Structures	0	4
CMP/RCP/Culvert Exist Line	Linear	31	Drainage-Structures	Dash 3	2
CMP/RCP/Culvert New Line	Linear	31	Drainage-Structures	0	4

X-Section/Culverts

Pipes/Culverts (Cont.)

Component	Type:	Color:	Level:	Line Style:	Line Weight:
RCP 12" - 84" Exist	Multi-line	31	Drainage-Structures	Custom	2
RCP 12" - 84" New	Multi-line	31	Drainage-Structures	Custom	4

X-Section/Culverts

Safety

Guardrail Section	Cell	99	Roadway-Safety	0	2
Traffic Barrier Section	Cell	40	Traffic_Control-Traffic barriers	0	1

X-Section/Culverts

Symbols/Patterns

Component	Type:	Color:	Level:	Line Style:	Line Weight:
Class III Excavation Hatching	Area Pattern	0	Common-Patterns-hatch	0	1
Concrete Pattern Area	Area Pattern	0	Common-Patterns-hatch	0	1
Earth Pattern Area	Area Pattern	8	Common-Patterns-hatch	0	1
F.E.S. Callout Bubble	Cell	31	Text-Drainage structure	0	2
Flowline Arrow	Cell	52	Roadway-Ditches	0	2
Graphic Scale 10	Cell	1	Common-Graphic scales	0	4
Graphic Scale 20	Cell	1	Common-Graphic scales	0	4
Graphic Scale 5	Cell	1	Common-Graphic scales	0	4
Rock Ditch Liner	Area Pattern	0	Common-Patterns-hatch	0	1
Rock Lining	Linear	1	Common-Patterns-hatch	0	2
Steel Pattern Area	Area Pattern	1	Common-Patterns-hatch	0	2
Pattern-Rock Blanket	Area Pattern	0	Common-Patterns-hatch	0	1
Pattern-Rock Ditch Liner	Area Pattern	0	Common-Patterns-hatch	0	1
Pattern-Rock Lining(Outlet)	Area Pattern	0	Common-Patterns-hatch	0	1

X-Section/Culverts

Utilities

Component	Type:	Color:	Level:	Line Style:	Line Weight:
CATV - UG Cable Exist Section	Linear	15	Utility-Cable	Dash 2	1
CATV - UG Cable New Section	Linear	70	Utility-Cable	0	4
FO - Fiber Optic Cable Exist Section	Linear	15	Utility-Cable	Dash 2	1
FO - Fiber Optic Cable New Section	Linear	70	Utility-Cable	0	4
G - Gas Existing Section	Linear	116	Utility-Gas	Dash 2	1
G - Gas New Section	Linear	60	Utility-Gas	0	4
P - Power UG Exist Section	Linear	115	Utility-Power	Dash 2	1
P - Power UG New Section	Linear	51	Utility-Power	0	4
RR - Railtops	Linear	1	Utility-Railroad	0	1
S - San Sewer Exist Section	Linear	114	Utility-Sanitary sewer	Dash 2	1
S - San Sewer New Section	Linear	18	Utility-Sanitary sewer	0	4
SS - Storm Sewer Exist Section	Linear	114	Utility-Storm sewer	Dash 2	1
SS - Storm Sewer New Section	Linear	18	Utility-Storm sewer	0	4
T - Telephone UG Exist Section	Linear	15	Utility-Telephone	Dash 2	1
T - Telephone UG New Section	Linear	70	Utility-Telephone	0	4
W - Water Exist Section	Linear	12	Utility-Water	Dash 2	1
W - Water New Section	Linear	13	Utility-Water	0	4

X-Section/Culverts

Walls

Retaining Wall	Linear	99	Roadway-Walls	0	4
Sound Wall	Linear	99	Roadway-Walls	0	4

Preliminary Plan

Component	Type:	Color:	Level:	Line Style:	Line Weight:
Plot Limits 4' - 25' Color: 2 Line Style: 0 Plot Window Color: 7 Line Style: 2 Construction Element Color: 4 Line Style: 0	CELL	2,4,7	1	0,2	0

Scales	
ENGLISH	**METRIC**
1" = 20' - 4' - 25' 1" = 50' - 4' - 25' 1" = 100' - 4' - 25' 1" = 200' - 4' - 25' 1" = 500' - 4' - 25' 1" = 1000' - 4' - 25'	1:500 - 4' - 25' 1:1000 - 4' - 25' 1:1250 - 4' - 25' 1:1500 - 4' - 25' 1:2000 - 4' - 25'

Note: The Preliminary Plan settings manager is located in the pull down menu. (MoDot/Preliminary Plan).