Chapter 16 Standards

U.S. CUSTOMARY SCALES

SETTINGS MANAGER SCALES

Overview

The following scales are available through MicroStations Settings Managers. The scales described will inform you on what the absolute scale will be when referencing saved views to paper space borders.

1/32”=1’ _____ 1:384

1/16”=1’ _____ 1:192

3/32”=1’ _____ 1:128

1/8”=1’ _____ 1:96

3/16”=1’ _____ 1:64

1/4”=1’ _____ 1:48

3/8”=1’ _____ 1:32

1/2”=1’ _____ 1:24

3/4”=1’ _____ 1:16

1” =1’ _____ 1:12

1½”=1’ _____ 1:8

2” =1’ _____ 1:6

3” =1’ _____ 1:4

6” =1’ _____ 1:2

12” =1’ _____ 1:1

1”= 4’ _____ 48

1”= 5’ _____ 60

1”= 10’ _____ 120

1”= 20’ _____ 240

1”= 25’ _____ 300

1”= 30’ _____ 360

1”= 40’ _____ 480

1”= 50’ _____ 600

1”= 60’ _____ 720

1”= 100’ _____ 1200

1”= 200’ _____ 2400

1”= 400’ _____ 4800

1”= 500’ _____ 6000

1”= 1000’ _____ 12000

LEVEL STRUCTURE

ROADWAY LEVEL STRUCTURE

This level structure is used for all plan related files.

Level Name	Level Number	Level Description
Default	0	
FRAME	1	Mx Boundary
BRIDGE_TITLE	2	Title Box Information
BORDER	3	Border Details
HIGHWAY_TITLE	4	Title Box Information
MINOR	5	Minor Grid Lines
MEDIUM	6	Medium Grid Lines
MAJOR	7	Major Grid Lines
H_V CONTROLS	8	PI, PT, PC, Curve Data, Etc.
H_V ANNOTATION	9	Stationing, etc
TEMPLATE	10	Roadway (in prof, xsc)
DTM	11	Triangulation (Mx)
GROUND	12	Ground&Level strings, spot elevs
POINTS	13	Mx Points
SUBGRADE	14	Subgrade limits
CUTFILLCLL	15	Cut, fill, clearing limit
CENTERLINE	16	Alignment and Stationing
ROAD	17	Travelway, Shoulder, Turning
CRB_SDWK_RAIL	18	Curb,Sidewalk,GRail,Indvdl Posts
SIGNS_TRAFFIC	19	Traff Items,Pvm Mrk,Signs w_Txt
ANNOTATION	20	Unless otherwise noted
PCRB_PSW_PRAIL	21	Prop. Curb,Sw,Grail,Indvdl Posts
DRIVE_FLD_LOT	23	Drives,Entrs,Field&Lot features
LAWN FEATS	24	Steps,yardlights,Satel dish,etc.
ROCKS	25	Ledge, Riprap, Boulders
BLDNGS_FEATS	29	Buildings,Carports,Slabs,etc.
PRPTY ENVRN	30	Septic,Wells,Graves,Fences,etc.
RIGHT OF WAY	31	ROW pins, Stonewalls, etc w_Text
PBSUPER	33	Prop Bridge Superstructure
PBSUB	34	Proposed Minor_SubStructures
MINOR STRUCTS	35	MultiPlate,Box culvert,sm bridge

Level Name	Level Number	Level Description
BRIDGE DECK	36	All Bridge Deck features
SUPERSTRUCT	37	NonDeck Superstr,Grdrs,Laterals
RETWAL_SUBSTR	38	Retwalls,Abuts,Piers,Brg Areas
OBSCURED	39	Undefined Mapping Area
BANNOTATION	40	Bridge Annotation
JUNK	41	JUNK LEVEL
WATER_DAM	42	Dams&Waterways 'cept wetlands
WTLND_RARE VEG	43	Wetlands and Rare trees_plants
TREES_BUSHES	44	Nonpay trees, bushes, not hedges
PAY TREES	45	Lrg Trees for Pay if Removed
WATR_VEGT TEXT	46	EnviroFeature & Vegetation Text
PVEGT	47	Proposed Vegetation
PVEGTTXT	48	Proposed Vegetation Text
TEXT	49	Complete Original Topo Text
UNCLASSED	50	Topo items not identifiable
PATTERNING	51	Hatching, Patterning, Shading
CLOSED DRNAGE	52	Closed Drainage Systm,CB's, etc.
OPEN DRNAGE	53	Open Drainage, not MultiPls Boxs
DRNAGE INVERTS	54	Open & Closed Drainage Inverts
PRE VERIFICATION	55	Borings, Test Pits
PDRAIN	56	Proposed Drainage
PDRAINTXT	57	Proposed Drainage Text
UTILS GRND	58	Utilities On or In Ground
UTILS AERIAL	59	Aerial Utilities (wire carrying)
PLOT BOUNDARY	60	Plotting Area
PUTIL	61	Proposed Utilities& Text
UTILITY TEXT	63	Text for All Utilities

ROW LEVEL STRUCTURE

This level structure is for all Right-of-Way files.

Level Name	Level Number	Level Description
Default	0	
BASE LINE	2	Base line
CURVE DATA	3	Curve Data
BEARINGS	4	All Bearings, alignment & bridge
North Arrows	5	Tentative North Arrows ea. Plan
CHIEF ENG SEAL	6	
H_V CONTROLS	8	Horizontal & Vertical Controls
Existing ROW	9	All lines for Exst Right of Way
ROW REFERENCES	10	All refrnces: Old prjs, Cnty,Twn
EX ROW NOTES	11	Notes re Existing Right of Way
EX ROW JUNK	12	Workspace for Exist ROW
Border	13	
PROPERTY LINES	14	Property lines, prvt easemnts,+
PROPERTY NOTES	16	Property notes for Final Plans
PRP OWNER NAMES	17	Property Owner Names
PROPERTY JUNK	18	WrkSpace for Prpty Owner work
PRPTY SETUPS	19	Property Owner Set-ups
POLITICAL BNDRY	22	County,State,Town Lines
MISCELLN TEXT	23	Miscellaneous Text
PROPSD ROW LINES	26	Proposed ROW Lines
PROPSD ROW NOTES	27	Proposed ROW Notes
PROP ALONG EXIST	28	
TIE LINES	30	Tie Lines
TIE STATIONS	31	Tie Stations
TIE DISTANCES	32	Tie Distances
PERM EASEMENTS	35	Slope Easements
TEMP RIGHTS	40	Other Permanent Easements
BASELN DIST_NTES	46	Baseline Distances & Notes
CONDEMNTN DISTS	47	Condemenation Distances
PARCEL DISTS	48	Parcel Distances
CLRLGD2	50	Color Legend Line1
Patterning	51	Driveway Hatching, etc.
JUNK	52	Miscellaneous Workspace
CLRLGD3	53	Color Legend Line2
CLRLGD4	54	Color Legend Line3
PLOT BOUNDARY	60	Border layout for plotting areas

STRUCTURAL DETAILING LEVELS

This level structure is used for all structural detailing files.

Level Name	Level Number	Level Description
Default	0	
Exist_ Structure	15	Existing Structure
Footing	16	Footing
Abutment	17	Abutment
Pier	18	Pier
Superstructure	19	Superstructure
Fram_Steel	20	Structural Framing/Stee
F_S Precast	21	Precast Struc Frm/Steel
Precast	22	Reserved
Rebar	23	Reinforcing Steel
Rebar Text	24	Reinforcing Steel Text
Retaining Wall	25	Retaining Wall Concrete
Dimensions	28	Dimensions
Buried Structure	30	Culverts, Pipes, Arches, Etc.
Approach	31	
Junk	50	
Patterning	51	Hatching / Filled Shapes

PUBLIC HEARING LEVELS

This level structure is used for Public Hearing Plans.

Level Name	Level Number	Level Description
Default	0	
P:TRAVEL:WAY	1	COLOR-6
P:SHOULDER:PAV	2	COLOR-253
P:SHOULDER:GRAV	3	COLOR-180
P:DRIVES:PAVED	4	COLOR-253
P:DRIVES:GRAV	5	COLOR-180
P:PAV:APRONS	6	COLOR-253
P:SIDEWALKS	7	COLOR-19
P:SLOPE-GRASS	8	COLOR-244
P:ISLAND:RAISED	9	COLOR-40
P:ISLAND:FLUSH	10	COLOR-229
WETLANDS:MITIG	11	COLOR-106
REMOV_BLD_TREE+	12	COLOR-2
CUT:SLOPE:LINE	13	COLOR-38 W-2
FILL:SLOPE:LINE	14	COLOR-5 W-2
P:CENTERE:LINE	15	COLOR-2 W-4
P:R_W:LINES	16	COLOR-30 W-4
TEXT	17	COLOR-1 & VAR--- S&W VARIABLE
TRAVEL:LANE:LINE	18	COLOR-1 W-4
DIR_ ARROWS	19	COLOR-1
P:SUB:GRADE	20	COLOR-27
P:BRIDGE:STEEL-1	21	COLOR-240
P:BRIDGE:STEEL-2	22	COLOR-242
P:BRIDGE:STEEL-3	23	COLOR-244
P:BRIDGE:WOOD-1	24	COLOR-176
P:BRIDGE:WOOD-2	25	COLOR-26
P:BRIDGE:WOOD-3	26	COLOR-25
P:BRIDGE:CONC-1	27	COLOR-18
P:BRIDGE:CONC-2	28	COLOR-17
P:BRIDGE:CONC-3	29	COLOR-16
PROPOSED:TREES	30	COLOR-136
P:DETOURS	31	COLOR-133
E:TRAVELWAY	32	COLOR-115
E:SHOULDERS	33	COLOR-116
E:DRIVES:E:LOTS	34	COLOR-117
E:BUILDINGS	35	COLOR-21
E:ISLANDS	36	COLOR-118
E:SIDEWALKS	37	COLOR-22
E:TREES:CONIF	38	COLOR-109
E:TREES:DECID	39	COLOR-39
E:WOODS	40	COLOR-56
E:BRUSH	41	COLOR-75
E:BUSH	42	COLOR-243
WATER-1	43	COLOR-151

Level Name	Level Number	Level Description
WATER-2	44	COLOR-153
WATER-3	45	COLOR-155
WATER-4	46	COLOR-156
WATER-5	47	COLOR-157
DEVERTED-WATER	48	WATERWAYS-DEVERTED-ALL
E:WETLANDS	49	COLOR-77
E:WOOD:WALLS	50	COLOR-182
E:GARDENS	51	COLOR-230
E:CENTER:LINES	52	COLOR-7 W-3
E:BRIDGE:DECK	53	COLOR-113
Level 54	54	
Level 55	55	
Level 56	56	
Level 57	57	
Level 58	58	
Level 59	59	
Level 60	60	
Level 61	61	
Level 62	62	
Level 63	63	

This level structure is used for Public Hearing Profiles.

Level Name	Level Number	Level Description
Default	0	
P:TRAVEL:WAY	1	
P:SHOULDER:PAV	2	
P:SHOULDER:GRAV	3	
P:DRIVES:PAVED	4	
P:DRIVES:GRAV	5	
P:PAV:APRONS	6	
P:SIDEWALKS	7	
P:SLOPE-GRASS	8	Survey Horiz. & Vert. Controls
P:ISLAND:RAISED	9	Text for Horiz/Vert Survey Cntrl
P:ISLAND:FLUSH	10	
WETLANDS:MITIG	11	
REMOV BLD TREE	12	Ground&Level strings, spot elevs
GROUND TEXT	13	Ground Text only
Level 14	14	
Level 15	15	
EX CENTERLINE	16	Apparent Existing Centerline
ROAD FEATURES	17	Road Feats.(Shldr,Pavement,etc.)
TRAVEL:LANE:LINECOLOR-1	18	Curb,Sidewalk,GRail,Indvdl Posts
SIGNS_TRAFFIC	19	Traff Items,Pvm Mrk,Signs w/Txt
P:SUB:GRADE	20	Roadway,Traff,Crb&Rail Text
Level 21	21	
Level 22	22	
DRIVE_FLD_LOT	23	Drives,Entrs,Field&Lot features

Level Name	Level Number	Level Description
P:BRIDGE:WOOD-1	24	Steps,yardlights,Satel dish,etc.
P:BRIDGE:WOOD-2	25	Ledge, Riprap, Boulders
P:BRIDGE:WOOD-3	26	Text for Features off Roadway
P:BRIDGE:CONC-1	27	
P:BRIDGE:CONC-2	28	
P:BRIDGE:CONC-3	29	Buildings,Carports,Slabs,etc.
PROPOSED:TREES	30	Septic,Wells,Graves,Fences,etc.
P:DETOURS	31	ROW pins, Stonewalls, etc w/Text
E:TRAVELWAY	32	Text for Buildings,etc. NOT ROW
E:SHOULDERS	33	
E:DRIVES:E:LOTS	34	
E:BUILDINGS	35	MultiPlate,Box culvert,sm bridge
E:ISLANDS	36	All Bridge Deck features
E:SIDEWALKS	37	NonDeck Superstr,Grdrs,Laterals
E:TREES:CONIF	38	Retwalls,Abuts,Piers,Brg Areas
E:TREES:DECID	39	Bridge & Retaining Wall Text
E:WOODS	40	
E:BRUSH	41	
E:BUSH	42	Dams&Waterways 'cept wetlands
WATER-1	43	Wetlands and Rare trees/plants
WATER-2	44	Nonpay trees, bushes, not hedges
WATER-3	45	Lrg Trees for Pay if Removed
WATER-4	46	EnviroFeature & Vegetation Text
WATER-5	47	
DEVERTED-WATER	48	
E:WETLANDS	49	Complete Original Topo Text
E:WOOD:WALLS	50	Topo items not identifiable
E:GARDENS	51	
CLOSED DRNAGE	52	Closed Drainage Systm,CB's, etc.
E:BRIDGE:DECK	53	Open Drainage, not MultiPls Boxs
Level 54	54	Open & Closed Drainage Inverts
Level 55	55	Text for All Drainage Elements
Level 56	56	
Level 57	57	
Level 58	58	Utilities On or In Ground
Level 59	59	Aerial Utilities (wire carrying)
Level 60	60	Text for All Utilities
Level 61	61	
Level 62	62	
Level 63	63	

This level structure is used for Public Hearing Sections.

Level Name	Level Number	Level Description
Default	0	
P:TRAV:WAY	1	COLOR-6
P:SHOULDER:PAV_	2	COLOR-253
E:WOOD:BRIDGE-1	3	COLOR-180

Level Name	Level Number	Level Description
E:WOOD:BRIDGE-2	4	COLOR-181
E:WOOD:BRIDGE-3	5	COLOR-182
P:SHOULDER:GRAV_	6	COLOR-180
P:SIDE:WALK	7	COLOR-19
E:STEEL:BRIDGE-1	8	COLOR-244
E:STEEL:BRIDGE-2	9	COLOR-245
E:STEEL:BRIDGE-3	10	COLOR-246
P:ISLAND:RAISED	11	COLOR-40
P:ISLAND:FLUSH	12	COLOR-229
P:SLOPE-GRASS	13	COLOR-244
Level 14	14	
P:CENTER:LINE	15	COLOR-2
Level 16	16	
TEXT	17	COLOR-1 & VAR.
P:LANE:LINES	18	COLOR-1
DIR_ ARROWS	19	COLOR-1
Level 20	20	
P:STEEL:BRIDGE-1	21	COLOR-240
P:STEEL:BRIDGE-2	22	COLOR-242
P:STEEL:BRIDGE-3	23	COLOR-244
P:WOOD:BRIDGE-1	24	COLOR-176
P:WOOD:BRIDGE-2	25	COLOR-26
P:WOOD:BRIDGE-3	26	COLOR-25
P:CONC:BRIDGE-1	27	COLOR-18
P:CONC:BRIDGE-2	28	COLOR-17
P:CONC:BRIDGE-3	29	COLOR-16
Level 30	30	
Level 31	31	
E:GROUND-1	32	COLOR-115
E:GROUND-2	33	COLOR-116
E:GROUND-3	34	COLOR-117
E:CONC:BRIDGE-1	35	COLOR-20
E:CONC:BRIDGE-2	36	COLOR-21
E:CONC:BRIDGE-3	37	COLOR-22
P:SUB:GRADE-1	38	COLOR-176
P:SUB:GRADE-2	39	COLOR-179
P:SUB:GRADE-3	40	COLOR-180
Level 41	41	
Level 42	42	
E:WATER-1	43	COLOR-151
E:WATER-2	44	COLOR-153
E:WATER-3	45	COLOR-155
E:WATER-4	46	COLOR-156
E:WATER-5	47	COLOR-157
Level 48	48	
Level 49	49	
Level 50	50	
Level 51	51	

Level Name	Level Number	Level Description
E:CENTER:LINE	52	COLOR-7
E:BRIDGE:DECK	53	COLOR-113
Level 54	54	
Level 55	55	
Level 56	56	
Level 57	57	
Level 58	58	
Level 59	59	
Level 60	60	
Level 61	61	
Level 62	62	
Level 63	63	

LINE STYLES

MDOT STANDARD U.S. CUSTOMARY LINESTYLES

USARROW	IARROW	IMARROW
USARRWIDE	IARRWIDE	IMARRWIDE
USBCURB	IBCURB	IMBCURB
USBCURBP	IBCURBP	IMBCURBP
USBFENCE	IBFENCE	IMBFENCE
USBLAZED	IBLAZED	IMBLAZED
USBOG	IBOG	IMBOG
USBOX	IBOX	IMBOX
USBOXP	IBOXP	IMBOXP
USBREAKDOUBLE		
USBREAKSINGLE		
USBRWALL	IBRWALL	IMBRWALL
USBUILD	IMBUILD	USBUILD
USBUSH	IBUSH	IMBUSH
USBUSHH	IBUSHH	IMBUSHH
USCATV	ICATV	IMCATV
USCCL	ICCL	IMCCL
USCCURB	ICCURB	IMCCURB
USCCURBP	ICCURBP	IMCCURBP
USCD	ICD	IMCD
USCFENCE	ICFENCE	IMCFENCE
USCITY	ICITY	IMCITY
USCITY2A	ICITY2A	IMCITY2A
USCITY3A	ICITY3A	IMCITY3A
USCOA	ICOA	IMCOA
USCOMBI	ICOMBI	IMCOMBI
USCONSLIM	ICONSLIM	IMCONSLIM
USCOUNTY	IMCOUNTY	IMCOUNTY

MDOT
Linestyles

FILE NAME: US_LINESTYLES, I_LINESTYLES and IM_LINESTYLES

DATE: July 8, 2003

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NOTE: US are 1:1, I are 1:300 and IM are 1:600 scale

USCREEK	ICREEK	IMCREEK
USCULV	ICULV	IMCULV
USCULVP	ICULVP	IMCULVP
USCUT	ICUT	IMCUT
USDBLPOST	IDBLPOST	IMDBLPOST
USDIM	IDIM	IMDIM
USDIMOFFSETLT		
USDIMOFFSETRT		
USDIMWIDE	IDIMWIDE	IMDIMWIDE
USDITCH	IDITCH	IMDITCH
USDITCHP	IDITCHP	IMDITCHP
USDPRIPRAP	IDPRIPRAP	IMDPRIPRAP
USEEM	IEEM	IMEEM
USEFENCE	IEFENCE	IMEFENCE
USELEC	IELEC	IMELEC
USERIPRAP	IERIPRAP	IMERIPRAP
USESLOPE	IESLOPE	IMESLOPE
USEUS	IEUS	IMEUS
USEXCONREM		
USEXCONREM2		
USEXTENSION		
USFILL	IFILL	IMFILL
USG1CURB	IG1CURB	IMG1CURB
USG1CURBP	IG1CURBP	IMG1CURBP
USG5CURB	IG5CURB	IMG5CURB
USG5CURBP	IG5CURBP	IMG5CURBP
USGARDEN	IGARDEN	IMGARDEN
USGAS	IGAS	IMGAS

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FILE NAME: US_LINESTYLES, I_LINESTYLES and IM_LINESTYLES

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NOTE: US are 1:1, I are 1:300 and IM are 1:600 scale

USGR	IGR	IMGR
USGRADLIM	IGRADLIM	IMGRADLIM
USGRAV	IGRAV	IMGRAV
USGRB	IGRB	IMGRB
USGRBP	IGRBP	IMGRBP
USGRP	IGRP	IMGRP
USH20TANK	IH20TANK	IMH20TANK
USHEDGE	IHEDGE	IMHEDGE
USHEDGEH	IHEDGEH	IMHEDGEH
USHILL1	IHILL1	IMHILL1
USHOLLOW	IHOLLOW	IMHOLLOW
USINTRD1	IINTRD1	IMINTRD1
USINTROAD	IINTROAD	IMINTROAD
USIRFENCE	IIRFENCE	IMIRFENCE
USISTREAM	IISTREAM	IMISTREAM
USLAWN	ILAWN	IMLAWN
USLDROAD	ILDROAD	IMLDROAD
USLEADER	ILEADER	IMLEADER
USLEDGE	ILEDGE	IMLEDGE
USLEDGEL	ILEDGEL	IMLEDGEL
USLP	ILP	IMLP
USLPGAS	ILPGAS	IMLPGAS
USLUS	ILUS	IMLUS
USMATCH	IMATCH	IMMATCH
USMMXB	IMMXB	IMMMXB
USMOW	IMOW	IMMOW
USMULTI	IMULTI	IMMULTI
USMULTIP	IMULTIP	IMMULTIP

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NOTE: US are 1:1, I are 1:300 and IM are 1:600 scale

	USNATION	INATION	IMNATION
	USNATPARK	INATPARK	IMNATPARK
OTH	USOTH	IOTH	IMOTH
	USPARKL	IPARKL	IMPARKL
	USPARKS	IPARKS	IMPARKS
	USPAVE	IPAVE	IMPAVE
PEM	USPEM	IPEM	IMPEM
P P	USPETRO	IPETRO	IMPETRO
PETRO	USPETTANK	IPETTANK	IMPETTANK
PFO	USPFO	IPFO	IMPFO
	USPGFENCE	IPGFENCE	IMPGFENCE
	USPICFENC	IPICFENC	IMPICFENC
	USPOWER1	IPOWER1	IMPOWER1
	USPRFENCE	IPRFENCE	IMPRFENCE
	USPRIPRAR	IPRIPRAR	IMPRIPRAR
	USPIROAD	IPIROAD	IMPIROAD
	USPROPERT	IPROPERT	IMPROPERT
PSS	USPSS	IPSS	IMPSS
	USRIPRAP	IRIPRAP	IMRIPRAP
	USRAILROAD	IRAILROAD	IRAILROAD
	USREBARDIM		
	USREBAREXT		
	USRETWALL	IRETWALL	IMRETWALL
	USRETWALLP	IRETWALLP	IMRETWALLP
	USROCK		
	USROCKCUT		
	USRR	IRR	IMRR
	USRR2	IRR2	IMRR2

MDOT *Linestyles*	FILE NAME: US_LINESTYLES, I_LINESTYLES and IM_LINESTYLES	DATE: July 8, 2003	PAGE 4
	NOTE: US are 1:1, I are 1:300 and IM are 1:600 scale		

	USRRABD	IRRABD	IMRRABD
	USRRGRADE	IRRGRADE	IMRRGRADE
	USRUN	IRUN	IMRUN
RUS	USRUS	IRUS	IMRUS
	USRW	IRW	IMRW
	USRWEP	IRWEP	IMRWEP
	USRWP	IRWP	IMRWP
	USRWPE	IRWPE	IMRWPE
	USRWRR	IRWRR	IMRWRR
	USSANI	ISANI	IMSANI
	USSANIP	ISANIP	IMSANIP
	USSECROAD USSECTION	ISECROAD	IMSECROAD
	USSHORE	ISHORE	IMSHORE
	USSHORE1	ISHORE1	IMSHORE1
	USSHORE2	ISHORE2	IMSHORE2
S/F S/F	USSILTF	ISILTF	IMSILTF
	USSLOPE	ISLOPE	IMSLOPE
	USSQUIGARROW		
	USSTATE	ISTATE	IMSTATE
	USSTFENCE	ISTFENCE	IMSTFENCE
	USSTORM	ISTORM	IMSTORM
	USSTORMP	ISTORMP	IMSTORMP
	USSTREAM1	ISTREAM1	IMSTREAM1
	USSTREAM2	ISTREAM2	IMSTREAM2
	USSTWALL	ISTWALL	IMSTWALL
	USSTWALLM	ISTWALLM	IMSTWALLM
TANK TANK TANK	USTANK	ITANK	IMTANK

MDOT
Linestyles

FILE NAME: US_LINESTYLES, I_LINESTYLES and IM_LINESTYLES

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NOTE: US are 1:1, I are 1:300 and IM are 1:600 scale

USTELE	ITELE	IMTELE
USTOWN	ITOWN	IMTOWN
USTRAV	ITRAV	IMTRAV
USTREE	ITREE	IMTREE
USTREEH	ITREEH	IMTREEH
USTW	ITW	IMTW
USWTROAD	IWTROAD	IMWTROAD
USUNINVRD	IUNINVRD	IMUNINVRD
USUNROAD	IUNROAD	IMUNROAD
USURBAN	IURBAN	IMURBAN
USVERNALPL	IVERNALPL	IMVERNALPL
USVINE	IVINE	IMVINE
USWATER	IWATER	IMWATER
USWETF	IWETF	IMWETF
USWETLAND	IWETLAND	IMWETLAND
USWETS	IWETS	IMWETS
USWLANDF1	IWLANDF1	IMWLANDF1
USWLANDF2	IWLANDF2	IMWLANDF2
USWLANDF3	IWLANDF3	IMWLANDF3
USWLANDS1	IWLANDS1	IMWLANDS1
USWLANDS2	IWLANDS2	IMWLANDS2
USWLANDS3	IWLANDS3	IMWLANDS3
USWP	IWP	IMWP

MDOT
Linestyles

FILE NAME: US_LINESTYLES, I_LINESTYLES and IM_LINESTYLES

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NOTE: US are 1:1, I are 1:300 and IM are 1:600 scale

MDOT STANDARD METRIC CUSTOM LINESTYLES

MDOT *Line Styles*	FILE LOCATION Mstaconf & !msjconf	DATE 2-23-00	As Notes SCALE
	FILE NAME mdotlinestyle, j_mdotstyles, k_mdotstyles, l_mdotstyles, l_mdotstyles_environ, m_mdotstyles, m_mdotstyles_environ, mapping_met and rwstyles		1
	NOTE:		PAGE

Names and Scale

1:1	1:50	1:250	1:500
ARROW,JARROW	KARROW	LARROW	
ARRWIDE,JARRWIDE	KARRWIDE	LARRWIDE	
BCURB		LBCURB	MBCURB
BCURBP		LBCURBP	MBCURBP
BFENCE		LBFENCE	MBFENCE
BOG,LBOG			
BOX		LBOX	MBOX
BOXP		LBOXP	MBOXP
BREAK,JBREAK	KBREAK		
BRWALL		LBRWALL	MBRWALL
BUILD		LBUILD	MBUILD
BUSH		LBUSH	MBUSH
BUSHH		LBUSHH	MBUSHH
CATV		LCATV	MCATV
CCL		LCCL	MCCL
CCURB		LCCURB	MCCURB
CCURBP		LCCURBP	MCCURBP
CD		LCD	MCD
CEMETERY		LIRFENCE	MIRFENCE
CFENCE		LCFENCE	MCFENCE
CITY,LCITY			
CITY2A,LCITY2			
CITY3A,LCITY3			
COA		LCOA	MCOA
COMBI		LCOMBI	MCOMBI
CONSLIM		LCONSLIM	MCONSLIM
COUNTY,LCOUNTY			
CREEK		LCREEK	MCREEK
CULV		LCULV	MCULV
CULVP		LCULVP	MCULVP
CUT		LCUT	MCUT
DBLPOST		LDBLPOST	MDBLPOST
DIM,JDIM	KDIM	LDIM	MDIM
DIMWIDE,JDIMWIDE	KDIMWIDE	LDIMWIDE	MDIMWIDE
DITCH		LDITCH	MDITCH
DITCHP		LDITCHP	MDITCHP

Names and Scale

1:1	1:50	1:250	1:500
EEM		LEEM	MEEM
EFENCE		LEFENCE	MEFENCE
ELEC		LELEC	MELEC
EUS		LEUS	MEUS
ESLOPE		LFSLOPE	MFSLOPE
FILL		LFILL	MFILL
GICURB		LGICURB	MGICURB
GICURBP		LGICURBP	MGICURBP
G5CURB		LG5CURB	MG5CURB
G5CURBP		LG5CURBP	MG5CURBP
GARDEN		LGARDEN	MGARDEN
GAS		LGAS	MGAS
GR		LGR	MGR
GRADLIM		LGRADLIM	MGRADLIM
GRAV		LGRAV	MGRAV
GRB		LGRB	MGRB
GRBP		LGRBP	MGRBP
GRP		LGRP	MGRP
H2OTANK		LH2OTANK	MH2OTANK
HEDGE		LHEDGE	MHEDGE
HILLI,LHILLI			
INTRDI,LINTRDI			
INTROAD,LINTROAD			
ISTREAM,LISTREAM			
LAWN		LLLAWN	MLAWN
LDROAD,LLDROAD			
LEADER,JLEADER	KLEADER		
LEDGE		LLEDGE	MLEDGE
LEDGEL		LLEDGEL	MLEDGEL
LPGAS		LLPGAS	MLPGAS
LUS		LLUS	MLUS
MOW		LMOW	MMOW
MULTI		LMULTI	MMULTI
MULTIP		LMULTIP	MMULTIP
NATION,LNATION			

Names and Scale

1:1	1:50	1:250	1:500
NATPARK,LNATPARK			
OTH		LOTH	MOTH
PARKL,LPARKL			
PARKS,LPARKS			
PAVE		LPAVE	MPAVE
PEM		LPEM	MPEM
PETRO		LPETRO	MPETRO
PETTANK		LPETTANK	MPETTANK
PFO		LPFO	MPFO
PGFENCE		LPGFENCE	MPGFENCE
PICFENC		LPICFENC	MPICFENC
POWERI,LPOWERI			
PRFENCE		MPRFENCE	MPRFENCE
PRIROAQD,LPRIROAD			
PROPERT		LPROPERT	MPROPERT
PSS		LPSS	MPSS
RAILROAD		LRAILROAD	MRAILROAD
RETWALL		LRETWALL	MRETWALL
RETWALP		LRETWALP	MRETWALP
RIPRAP,ERIPRAP		LERIPRAP	MERIPRAP
PRIPRAP		LPRIPRAP	MPRIPRAP
ROCK,JROCK	KROCK		
ROCKCUT,JROCKCUT	KROCKCUT		
RR,LRR			
RR2,LRR2			
RRABD,LRRABD			
RRGRADE,LRRGRADE			
RUN		LRUN	MRUN
RUS		LRUS	MRUS
RW		LRW	MRW
RWEP		LRWEP	MRWEP
RWP		LRWP	MRWP
RWPE		LRWPE	MRWPE
RWRR		LRWRR	MRWRR
SANI		LSANI	MSANI
SANIP		LSANIP	MSANIP

Names and Scale

1:1	1:50	1:250	1:500
SECROAD,LSECROAD			
SHORE		LSHORE	MSHORE
SHOREI,LSHOREI			
SHORE2,LSHORE2			
S/F SILTF		LSILTF	MSILTF
SLOPE		LSLOPE	MSLOPE
STATE,LSTATE			
STFENCE		LSTFENCE	MSTFENCE
STORM		LSTORM	MSTORM
STORMP		LSTORMP	MSTORMP
STREAMI,LSTREAMI			
STREAM2,LSTREAM2			
STWALL		LSTWALL	MSTWALL
STWALLM		LSTWALLM	MSTWALLM
TELE		LTELE	MTELE
TOWN,LTOWN			
TRAV		LTRAV	MTRAV
TREE		LTREE	MTREE
TREEH		LTREEH	
TW		LTW	MTW
TWROAD,LTWOROAD			
UNINVRD,LUNIVRD			
UNROAD,LUNROAD			
URBAN,LURBAN			
VINE		LVINE	MVINE
WI WATER		LWATER	MWATER
WETF		LWETF	MWETF
WETLAND WETLAND		LWETS	MWETS
WETS		LWETLAND	MWETLAND
WLANDFI		LWLANDFI	MWLANDFI
WLANDF2		LWLANDF2	MWLANDF2
WLANDF3		LWLANDF3	MWLANDF3
WLANDSI		LWLANDSI	MWLANDSI
WLANDS2		LWLANDS2	MWLANDS2
WLANDS3		LWLANDS3	MWLANDS3
WP		LWP	MWP

STRUCTURAL LINESTYLES

Samples

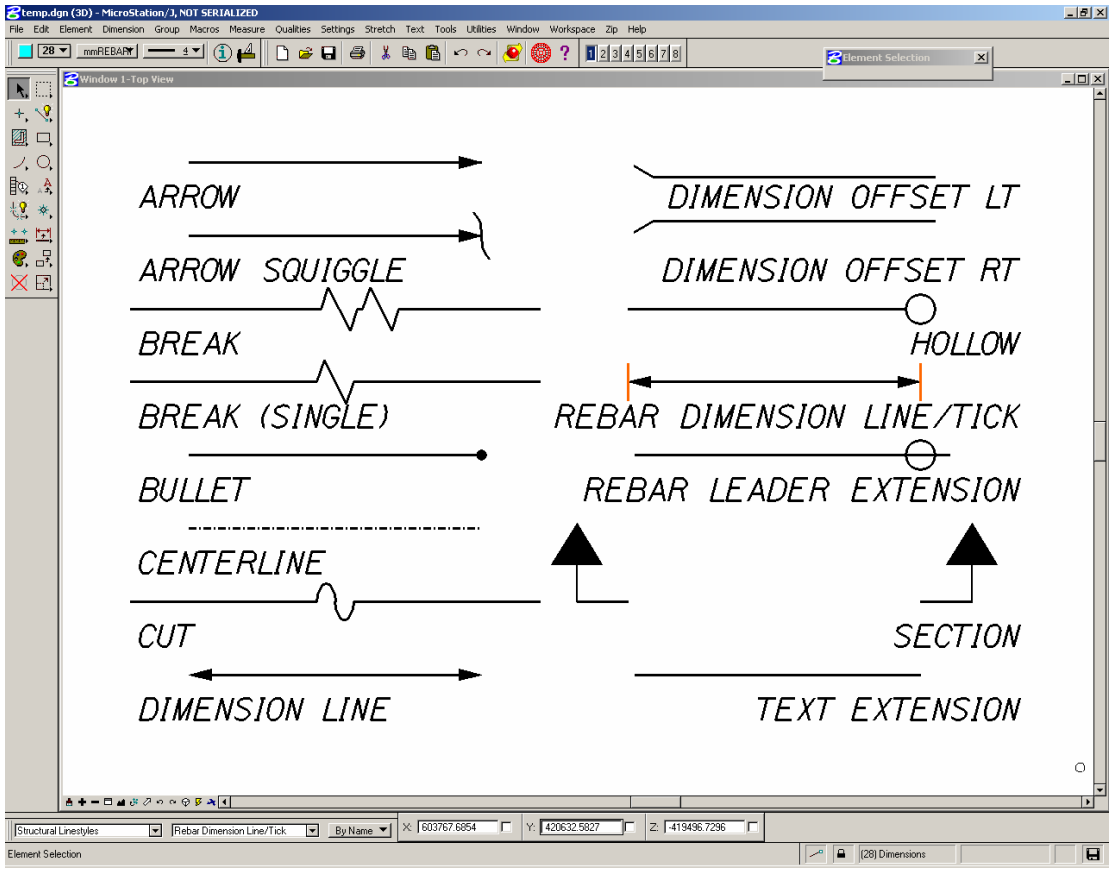


Figure 16-1: Structural Linestyles

Using Custom Linestyles

Linestyles are activated from the **Settings Manager**, **Structural Linestyles** group (Figure 16-2).

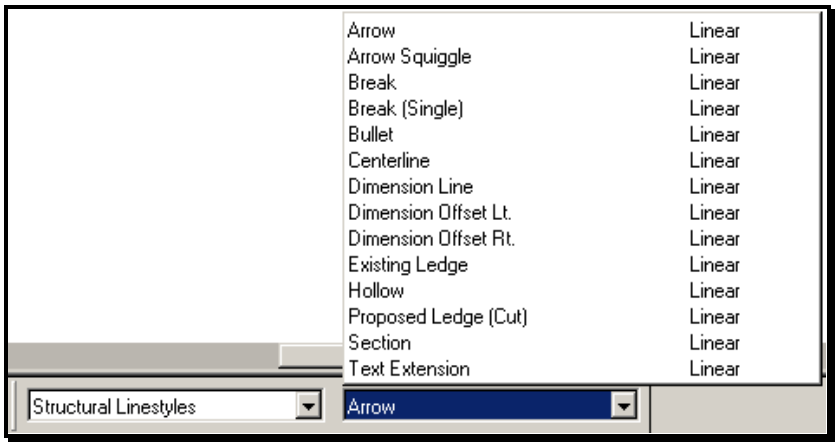


Figure 16-2: Structural Linestyle Options

Line styles are scale-dependent. Make sure you select the appropriate scale from the **Settings Manager** (by right-clicking and choosing **Category > Scale** from the **Settings Manger**) before you make a line style selection.

Tweaking Line style Size

Sometimes your lines are going to show up either bigger or smaller than you'd like them to be. The Break and Cut line styles are most likely going to be the culprits here -- you may want to squeeze a break line into a small area.

Go through the routine outlined above as a starting point. If the Break line is too big for example, select **Element>Line Style>Custom** from the *Main Menu.*

This will open up the **Line Styles** dialog (Figure 16-3).

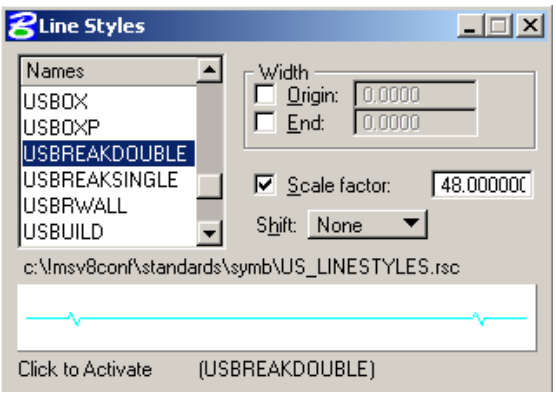


Figure 16-3: Line Styles Dialog

Note that there is an on/off switch labeled **Scale Factor:** followed by a text field. This is the scale, as determined by the **Settings Manager**, to place your line style.

♫ If you want your line style, to be smaller, edit the number in the **Scale Factor** text field. If it is currently 48, changing it to 24 will make it smaller (half as big) and changing it to 96 will make it bigger (twice as big.)

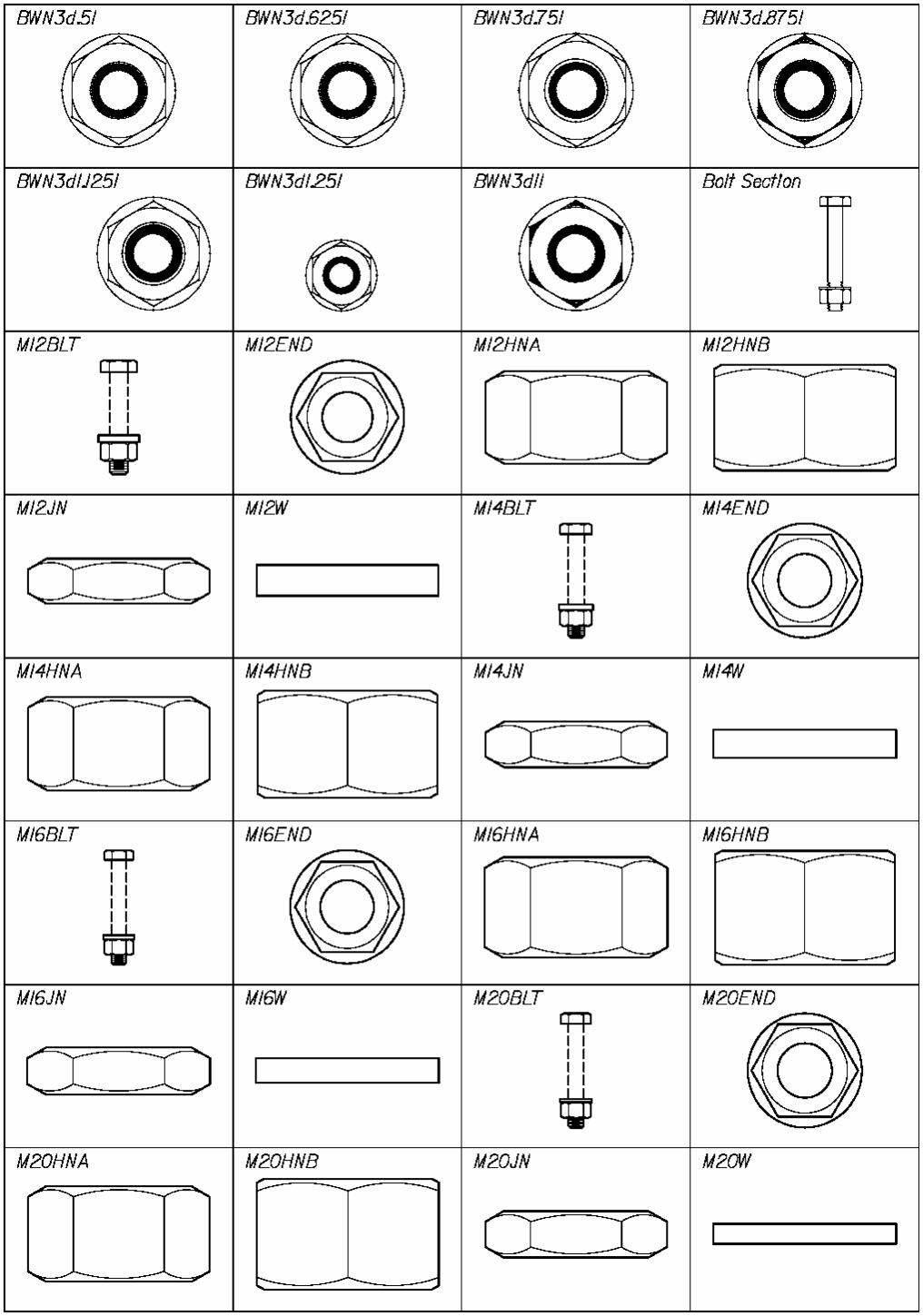
CELL LIBRARIES

Cell Library: Accld2d.cel

ACNARW	ARDL40	ARDL80	ARDR40
ARDR80	ARUL40	ARUL80	ARUR40
ARUR80	BSCARW	BTARWL	BTDARW
NODEBX	POLE	SIGN	SSHWAV
STOPSN	TLIGHT	TRMNTR	TRMOPN
TXTCRC	TXTSQR		

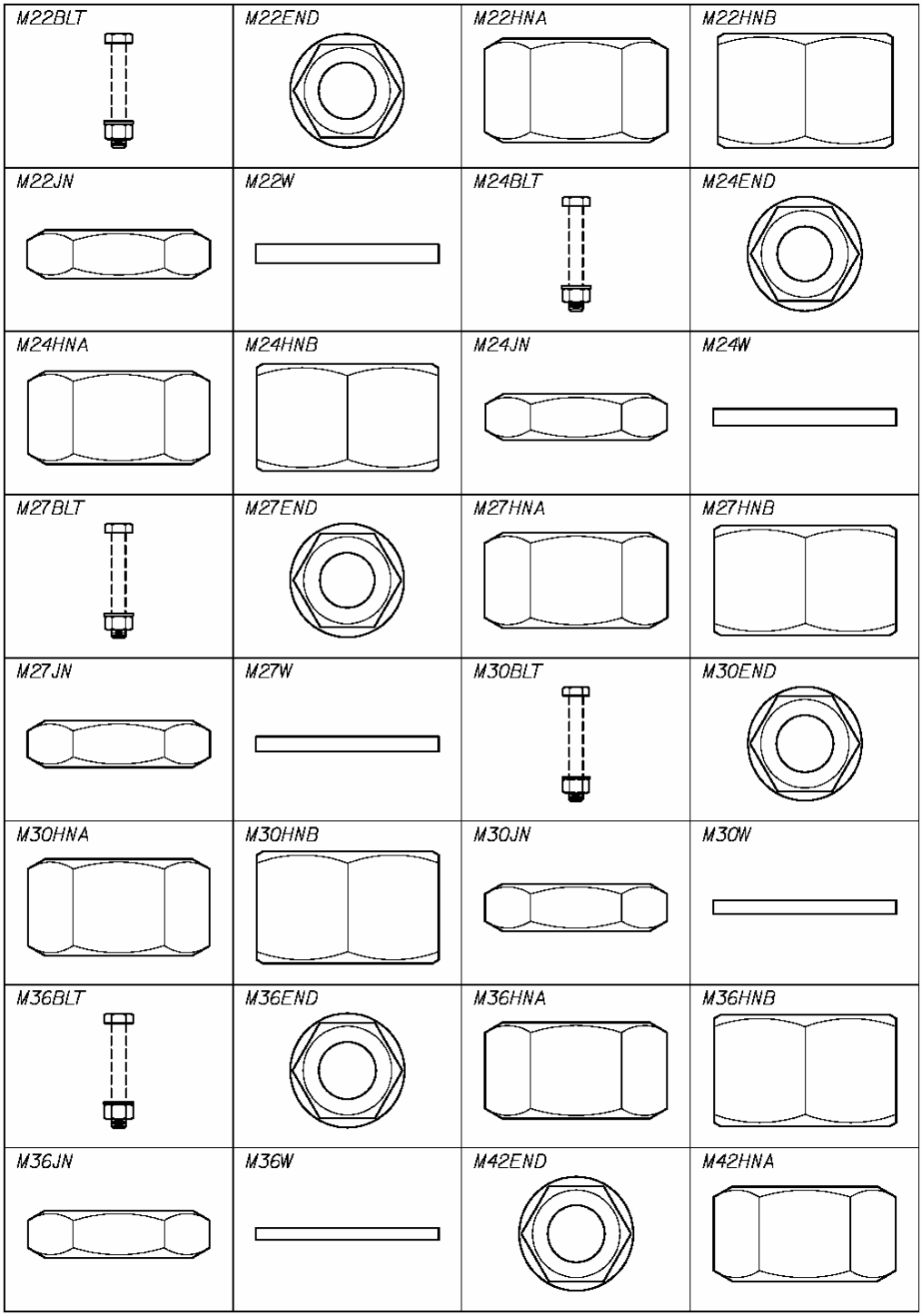
Page 1

Cell Library: BOLTS.cel



Page 1

Cell Library: BOLTS.cel



Page 2

Cell Library: BOLTS.cel

M42HNB	M42W	M48END	M48HNA
M48HNB	M48W	M56END	M56HNA
M56HNB	M56W		

Page 3

Cell Library: Border.cel

10FT	15FT	20FT	5FT
BDGBORDER	BORDER	BORDERSC	BRGTITLE
CL8X11	CLP2	CONOTE	CSTBRD
DOTADD	DRAINAGE	EN8X11	ENVLAY
ENVTITLE	ESTIMATE	HWYTITLE	LMAPBD
PLANPROF1	PLANPROF2	PLNSH2	PLNSHT
PROFILE	PROFILE1	PROFILE2	PROFSC
REBAR	RWBORD	RWBORDDT	RWCLP2

Page 1

Cell Library: Border.cel

RWCOORD	STDDTL	TYPICAL	XSECTH
XSECTHF	XSECTION	XSECTV	XSECTVF

Page 2

Cell Library: BRDETLIB.CEL

ARP	BR2T	BR4TB	BR4TP
BRBASE	BRBMB	BRBMP	BRTRI
CL	CLBGA1 ℄ Brg., Abut. No. 1	CLBGA2 ℄ Brg., Abut. No. 2	CLBGP1 ℄ Brg., Pier No. 1
CLBGP2 ℄ Brg., Pier No. 2	CLBGP3 ℄ Brg., Pier No. 3	CLBGP4 ℄ Brg., Pier No. 4	CLBGP5 ℄ Brg., Pier No. 5
CLCON ℄ Const.	CLCONS ℄ Construction	CLPR1 ℄ Pier No. 1	CLPR2 ℄ Pier No. 2
CLPR3 ℄ Pier No. 3	CLPR4 ℄ Pier No. 4	CLPR5 ℄ Pier No. 5	CLPR6 ℄ Pier No. 6
CLPR7 ℄ Pier No. 7	CLPR8 ℄ Pier No. 8	DIMDOT	DOWEL
GRCONC	GRTBPL	GRTC	GRTSEC

Page 1

Cell Library: BRDETLIB.CEL

GRTSRT	GRTWT	GRWBPL	GRWSEC
GRWSRT	LOCMAP	PI74	PI85
PCI2X3	PCB3A	PCEI23	PCERT
TCBSEC	TICK5	TICK50	

Page 2

Cell Library: BridgeStNotes.cel

SNABUT	SNARBX	SNBDST	SNBOX
SNCOFF	SNDESG	SNDESL	SNDRAN
SNELBR	SNGENC	SNHYDF	SNHYDP
SNMATR	SNMOTR	SNPIER	SNPILE
SNPREC	SNSPEC	SNSTL	SNSTPL
SNSUP	SNTRAF	SNTWAL	SNUTIL

Cell Library: CHIEFENGRSEALS.cel

Cell Name: LOGOCA	Cell Name: LOGODE
Cell Name: RWSJD	Cell Name: RWSRC
Cell Name: RWSTK	

Page 1

Cell Library: E0.cel

ARBVIT	ASH	BEECH	BIRCH
COBOLD	CONCRT	DTDSHT	EARTH
FIR	FLCRAB	FORSYT	FOUNTN
FPDNSM	FPSPR2	FPSPR5	FPSPR7
FPSPRB	FZHXPT	GRI2SP	GRI4SP
GRI7SP	GRI9SP	GR2ISP	GRASS
GRASSP	GRAVL	LINDEN	MAPLE
MHPC	MTPBSN	OAK	ORNCND

Page 1

Cell Library: EO.cel

ORNCNL	ORNCNM	ORNCNS	ORNDCL
ORNDCM	ORNDCS	ORNPER	ORSHRD
PBEDRP	PBEDUG	PBGRVL	PBLBIG
PBLMED	PBLSML	PBSAND	PBUSH
PINE	PKADFP	POPLAR	POROUS
PRIVET	PTREE	RHODOD	ROSE
SNCOFF	SNDESG	SNDGRC	SNGENC
SPECS	SPRUCE	STCNPL	STNCRC

Page 2

Cell Library: E0.cel

STNLOV	STNMOV	STNNCR	STNOVL
STNWAL	STONWL	STSND2	WDWSTI
WDWST2	WETKEY	WILLOW	WOODI
WOOD2	WTLFRP	WTLFRS	WTLSLP
WTLSLT	YEW		

Page 3

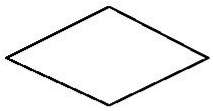
Cell Library: GEOTECH.cel

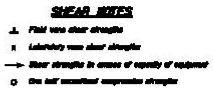
10FTCR	5FTCR	ARTPRS	BDA3IB
BDA3IT	BDA3MB	BDA3MT	BLCNTA
BLWCNT	BRGNOT	BRNGBT	BRNGRF
BRNRFL	DRSIMB	DRSIMT	DRSMTB
DRSMTT	FSNOTE	HMBORING	HNDAGR
LDGCRI	LDGCR5	LEDOC	NOREF
PAWT(PLAN)	PLSLQL	PWRAGR	REF
RODSND	SCPLM2	SCPR24	SCPR48

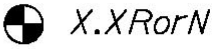
Page 1

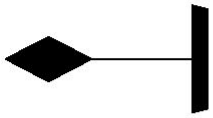
Cell Library: GEOTECH.cel

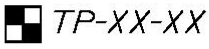
SCPRM2	SEISHT	SHRNOT	SHSTEX
SSABORING	SSHOT	TPBORING	TSTPIT
VNFLDT	VNLBTS	VNSHFL	WBTOP
WSHBRN	WTCTNT		

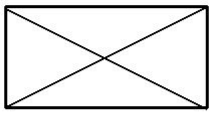


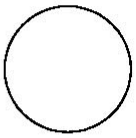


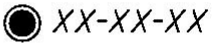


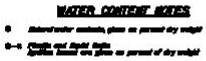












Page 2

Cell Library: HEARING.CEL

3D	3DMAN	3DMAN2	AERIAL
AIR	ALL	BKEY	BORDER
BUSH	CAR1	CAR2	CAR3
CHART	CHART2	CHART3	COLKEY
DIRIGO	DOT	FROAD	GUIDE1
GUIDE2	ICON	LEDGE	LEDGE2
LEDGE3	LOCMAP	LODMAP	LOGO
MAP	MAPS	MAT	MATF

Page 1

Cell Library: HEARING.CEL

MATF2	MICRO Micro Station Presents	NEW	NOTE borders for hearingplans 1-5875 0-9525 for 250 scale 3-175 1-905 for 500 scale
PC	PLAN	PLANI	POLE
PROF	PROFI	REC	REC2
REC3	RIPRAP	ROCKS	SCALE
SCALE2	SCALE3	SYM	TEST
TEST2	TITLEB	TRBUC	TRCCNP
TRCCP	TRDCNP	TRDCP	TYP
TYPI	US	USINT	USINTW

Page 2

Cell Library: HEARING.CEL

USTATE	USW	WETI	WMILL
WOODS	ZALL	ZPLAN	ZPROF
ZTYP			

Page 3

Cell Library: MAPPING.cel

BRSYMB	BRWPIT	CEMLRG	CEMSML
CHURCH	FIREST	HSPTAL	PIT
POLICE	QUARRY	SCHOOL	SCL24K
SCL48K	SCTL2K	SCTL2M	SWAMP
TWNHAL			

Page 1

Cell Library: MDOTMX.CEL

ALARMX	ANTWDX	BNCHMK	BOULDR
BUSHES	CB	CBPROP	CONNOP
CONPAY	DECTNP	DECTRP	DEDTNP
DEDTRP	DROUTX	DRPINB	DRPINX
ELCTOT	FILCAP	GASPMX	GATEGS
GATEWT	GRAVE	GUYANC	HYDRNT
INVERT	IRONPN	LEDGSH	MAILBX
MASTRX	MHELCP	MHELCT	MHGAS

Page 1

Cell Library: MDOTMX.CEL

MHGASP	MHOTHP	MHOTHR	MHSANP
MHSANT	MHSTRM	MHTELE	MHTELP
MHWATP	MHWATR	MNMNTC	MNMTRW
MNMTSR	MNMTST	MSL_0	MSL_1
MSL_10	MSL_11	MSL_12	MSL_13
MSL_14	MSL_15	MSL_16	MSL_17
MSL_2	MSL_3	MSL_4	MSL_5
MSL_6	MSL_7	MSL_8	MSL_9

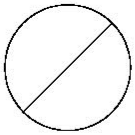
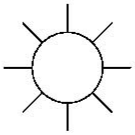
Page 2

Cell Library: MDOTMX.CEL

POLBRC	POLFLG	POLGNP	POLGNX
POLLIT	POLLTP	POLSPR	POLSTB
POLTRF	PRJMKR	RARPLN	RARSHR
RARTRE	RODAGR	RRSGNL	RRSWIT
RRXING	SGNSGL	SILLS	STPOST
TANKSP	TELEBT	TESTPT	TRCTRL
TREERT	TRFSGX	TRJNCT	TRSTMP
TRTP	UTLTWX	VENPIP	WELLSX

Page 3

Cell Library: MDOTMX.CEL

WSHTOX 	YRDLGT 		

Page 4

Cell Library: PATTERN.CEL

AGGREGATE	CLFENCE	COBBLE	COBOLD
COMMON	CONCRETE	DTDSHP	FNSAN2
FNSAND	GRANULAR	GRASS	GRASSP
GRAVEL	HSWAMP	PBGRVL	PBSAND
POROUS	RIPRAPP	RIPRAPPL	RIPRAPSE
RIPRAPSP	SNDGRC	SNDGRN	STEEL
STNWAL	STONWL	STSAND	STSND2
TICK25FT	TICK50FT	WOOD	WTLFRP

Page 1

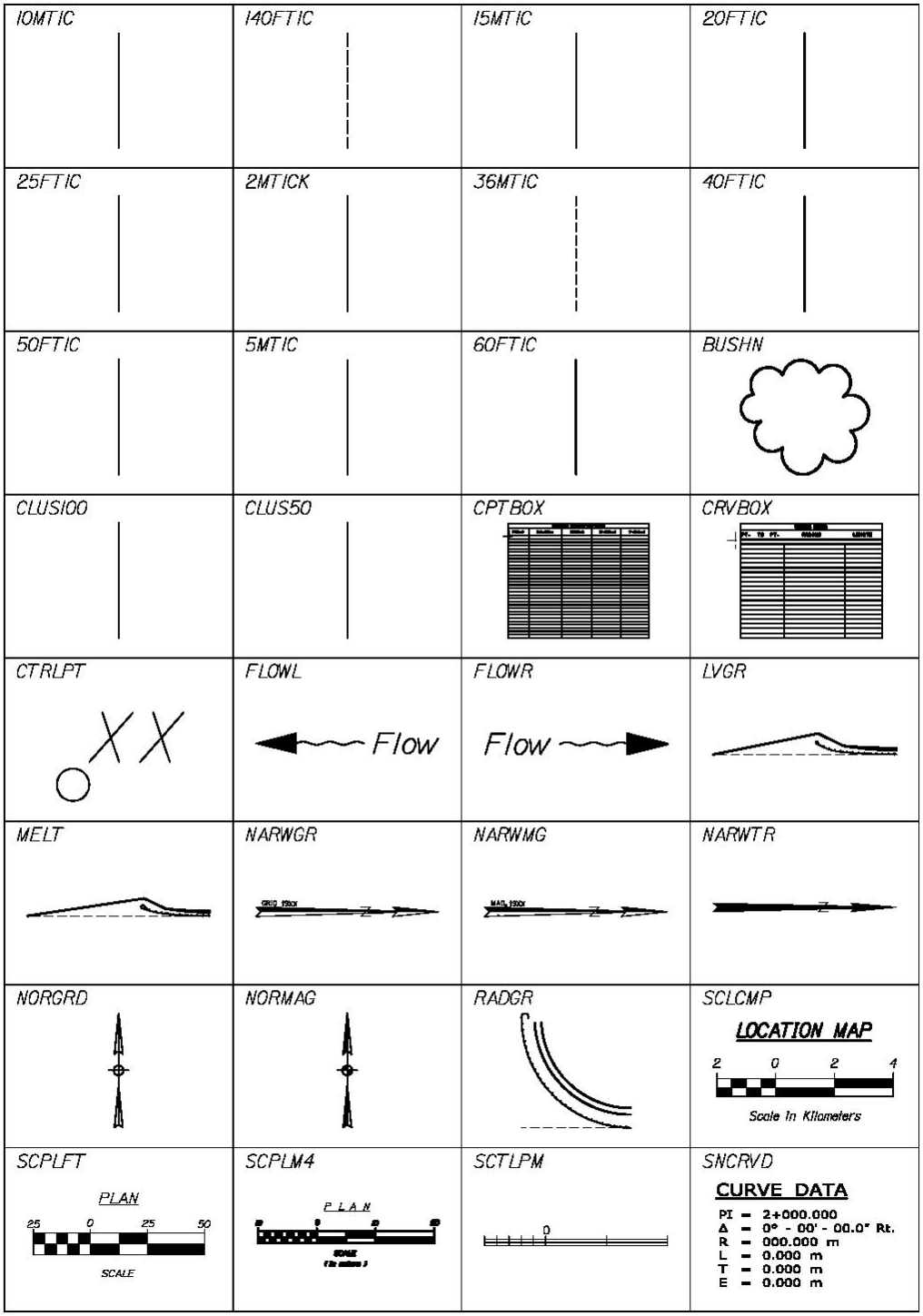
Cell Library: PATTERN.CEL

WTLFRS	WTLSLP	WTLSLT	

Page 2

Cell Library: PLAN.cel

10MTIC	140FTIC	15MTIC	20FTIC
25FTIC	2MTICK	36MTIC	40FTIC
50FTIC	5MTIC	60FTIC	BUSHN
CLUS100	CLUS50	CPTBOX	CRVBOX
CTRLPT	FLOWL	FLOWR	LVGR
MELT	NARWGR	NARWMG	NARWTR
NORGRD	NORMAG	RADGR	SCLCMP
SCPLFT	SCPLM4	SCTLPM	SNCRVD



Page 1

Cell Library: PLAN.cel

TICK	TRBUC	TRCCNP	TRCCP
TRDCNP	TRDCP	TREESN	USLCMP LOCATION MAP 2 0 2 4 Scale In Miles
USLVGR	USMELT	USNCRVD CURVE DATA PI = 2+00.00 D = 0° - 00' - 00.0" Δ = 0° - 00' - 00.0" Rt. R = 000.00' L = 0.00' T = 0.00' E = 0.00'	USRADGR
USSCLAY LAYOUT SCALE X 0 X X Scale In Feet			

Page 2

Cell Library: PROFILE.cel

Cell Name: SCPR22 PROFILE HORIZ. 10 0 10 20 VERT. 1 0 1 2 SCALE (in meters)	Cell Name: SCPRFT PROFILE HORIZ. 25 0 25 50 VERT. 5 0 5 10 SCALE
Cell Name: VCL V.C.L. =	

Page 1

Cell Library: REBAR.CEL

BBGRID	REBNOT	SBGRID	TYPEA
TYPEB	TYPEC	TYPECB	TYPEEP
TYPEH	TYPEHB	TYPEJ	TYPEL
TYPEM	TYPEPA	TYPEPR	TYPES
TYPESB	TYPESC	TYPESJ	TYPESL
TYPET	TYPEV	TYPEW	

Page 1

Cell Library: ROW.cel

FINAORD	NOSCALE	NOTE1	ROWCOL
NOTE: ADMINISTRATION OF A PORTION OF RAMP, NO-(12)/(24) TRANSFERRED TO DEPARTMENT OF OF INLAND FISHERIES AND WILDLIFE BY FINANCIAL ORDER, NO. 6000 IN DATED: 00-00-0000	NOTE: THIS PLAN IS NOT TO SCALE	THIS PLAN THE PROMISE OF CONVEYANCE THE DEPARTMENT ACCORDS OF INSIL PURPOSES THE DEPARTMENT PERPETUALLY GRANTS AN EASE ON WHICH SPACE THE OWNERS LEGAL PROPERTIES EXPRESS EXCEPTION PRIVATE SPACE	PERMANENT EASEMENT TEMPORARY EASEMENT TEMPORARY ROAD EASEMENT
ROWCOL2	RWBIRD	RWCVD	RWNAGRID
DRAINAGE EASEMENT PERMANENT EASEMENT TEMPORARY EASEMENT TEMPORARY ROAD EASEMENT		CURVE DATA P.I. STA. Δ = T = L = E = R =	GRID 19XX
RWNAMAG	RWNM1	RWNM2	RWNM3
MAG. 19XX	NOTE: THIS AREA WAS NEED REMOVED FOR SUITABLE RETENTION PURPOSES AND CANNOT BE SOLD OR TRANSFERRED WITHOUT WRITTEN CONSENT OF THE COMMISSIONER OF TRANSPORTATION AND THE APPROPRIATE REGULATORY AGENCIES	NOTE: THIS AREA WAS NEED REMOVED FOR SUITABLE RETENTION PURPOSES AND CANNOT BE SOLD OR TRANSFERRED WITHOUT WRITTEN CONSENT OF THE COMMISSIONER OF TRANSPORTATION AND THE APPROPRIATE REGULATORY AGENCIES	NOTE: THIS AREA WAS NEED REMOVED FOR SUITABLE RETENTION PURPOSES AND CANNOT BE SOLD OR TRANSFERRED WITHOUT WRITTEN CONSENT OF THE COMMISSIONER OF TRANSPORTATION AND THE APPROPRIATE REGULATORY AGENCIES	NOTE: THIS AREA WAS NEED REMOVED FOR SUITABLE RETENTION PURPOSES AND CANNOT BE SOLD OR TRANSFERRED WITHOUT WRITTEN CONSENT OF THE COMMISSIONER OF TRANSPORTATION AND THE APPROPRIATE REGULATORY AGENCIES
RWNRES	RWNRR1	RWNRR2	RWNWP
NOTE: USE OF LAND AND BUILDING WITHIN AREA INDICATED RESERVED TO OWNER UNTIL	NOTE: RIGHTS TAKEN TO RAZE AND REMOVE THAT PORTION OF THE BUILDING THAT LIES OUTSIDE OF THE NEW BOUNDARIES OF STATE HIGHWAY " " AT ABOUT STA. X	NOTE: RIGHTS TAKEN TO RAZE OR REMOVE BUILDING AT STA. X	NOTE: PRESCRIPTIVE EASEMENT FOR HIGHWAY PURPOSES WITHIN LIMITS OF WROUGHT PORTION
RWSCOA	RWSREG	RWSU	RWSUIT
CONTROLLED ACCESS LIMIT CONTROLLED ACCESS LIMIT LINE ALONG R/W LINE CONTROLLED ACCESS LIMIT LINE NOT ON R/W LINE NO ACCESS WILL BE PERMITTED TO OR FROM STATE HIGHWAY "X" AND ADJOINING PROPERTIES WITHIN BOUNDARIES DEFINED BY CONTROLLED ACCESS LIMIT LINES	STATE OF MAINE REGISTRY OF DEEDS COUNTY _____ RECEIVED _____ at ____h ____m ____ M and recorded in Plan Book _____, Page _____ Attest: _____ REGISTER	PARCEL NO. ( ) LAND TAKEN = SLOPE EASE. = TEMP. CONST. RIGHTS = TOTAL AREA = REM. AREA =	ITEM NO. ( ) GRADING RIGHTS = TOTAL AREA =
RWSUTC	RWSUWP	RWTICK	
ITEM NO. () TEMP. CONST. RIGHTS = TOTAL AREA =	PARCEL NO. ( ) LAND TAKEN = (PRESC. EASE.) LAND TAKEN = (OTHER) TOTAL LAND TAKEN = SLOPE EASE. = TEMP. CONST. RIGHTS = TOTAL AREA = REM. AREA =	0+000	

Page 1

Cell Library: SECTION.cel

BACK SLOPE	BLDSCL	BLDSCR	CB5LTP
CB5LTX	CB5RTP	CB5RTX	CBSCEP
CBSCEX	CBSCFP	CBSCFX	CBSECP
CBSECX	CLELFL (EL. 0.000)	CRBILT	CRBIRT
CRB2LT	CRB2RT	CRB3IL	CRB3IR
CRB32L	CRB32R	CRB33L	CRB33R
CRB5LT	CRB5RT	CRX3IL	CRX3IR
CTRLNS	DITCH	GRLSCP	GRLSCX

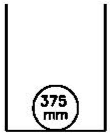
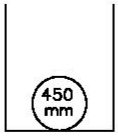
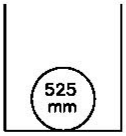
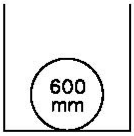
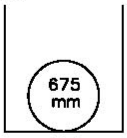
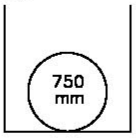
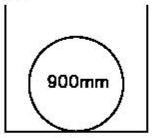
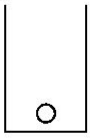
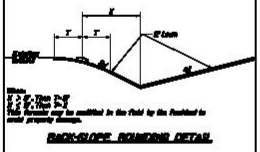
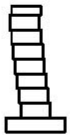
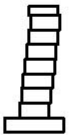
Page 1

Cell Library: SECTION.cel

GRRSCP	GRRSCX	GRTSCL	GRTSCR
GRTSEC	GRTSRT	HYDRSC	HYDRSX
MHSCPL	MHSCPR	MHSCXL	MHSCXR
POLPLX	POLPRX	POLXLX	POLXRX
S10212	S13216	S17220	S21224
S25228	S29232	S33236	S37242
S43248	S49254	S55260	SCL5FT
STM123	STM426	STM729	U300MM

Page 2

Cell Library: SECTION.cel

U375MM 	U450MM 	U525MM 	U600MM 
U675MM 	U750MM 	U900MM 	UDRANB 
USBACK SLOPE 	XRETWL 	XRETWR 	

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Cell Library: TRAFFIC.cel

ARWDTL	ARWDWB	ARWUPB	ARWUPL
DLNDTL	DLPLTP	INDCAT	JUNCBX
LUP640	LUP650	LUP66	LUP68
MAST15	MAST20	MAST25	MAST30
MAST35	MAST40	MAST45	MAST50
MKLGND	NARWTF	PMART	PMATHU
PMATRT	PMONLY	PMRRX	POLTRF
S1WAY	S2LTNL	S4WAY	SALLWA

Page 1

Cell Library: TRAFFIC.cel

SAVO AUTHORIZED VEHICLES ONLY	SBIKER BIKE ROUTE	SBIKWS	SCANSH 2
SCOUNL KNOX COUNTY LINE	SCRVIR	SCRV2R	SCRV3R
SCRV4R	SCRV5R	SCRVMK	SDNENT DO NOT NTER
SDRM5I	SDRM6I	SDRM62	SDRM63
SDRM64	SDRM66	SEAST EAST	SEMCEL
SEXINF EXIT 30	SGHEDP	SGNLTM	SIGNOH
SINSPH PROHIBITED ON INTERSTATE 65	SISL47	SJUNC JCT	SKBLPR KEEP LEFT RIGHT
SKPLBR KEEP LEFT RIGHT	SKRETP KEEP RIGHT EXCEPT TO PASS	SLGDSP	SLGDWP

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Cell Library: TRAFFIC.cel

SMOOSE	SMRG41	SMRG42	SMTA
SMUNIC	SNLTTR	SNORT	SNOWMO
SNRTTR	SNUTR	SOM3	SOMCIR
SRPMPH	SRSPAH	SRTISS	SRTISW
SRTNOS	SRTNOW	SRTUSS	SRTUSW
SSBIKE	SSCAMP	SSCHLS	SSCHLT
SSCHLX	SSDISL	SSFOOD	SSGAS
SSHAND	SSHOSP	SSINFO	SSLODG

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Cell Library: TRAFFIC.cel

SSMESI	SSNO	SSOUT	SSPED
SSPEED	SSPHON	SSPRTK	SSTOP
SSTPAH	SSTPAT	STHRRT	STHRU
STLAHD	STO	STONLY	STR7IA
STUCLO	STURLO	SVCI22	SWEST
SWRWAY	SXNUM	SYELAS	SYELAT
SYIELD	SYLTOG	WIRNDI	

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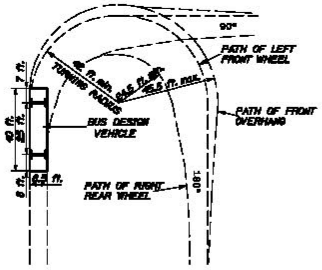
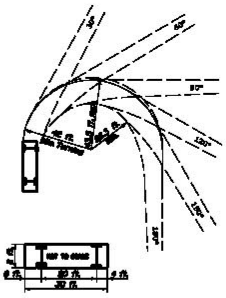
Cell Library: turnradii.cel

Cell Name: IMPBUS



Cell Name: IMPSU



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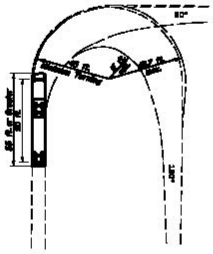

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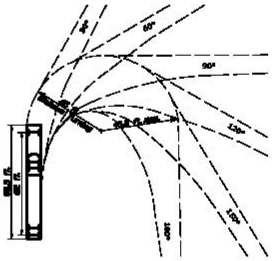

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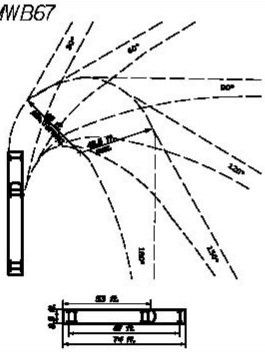
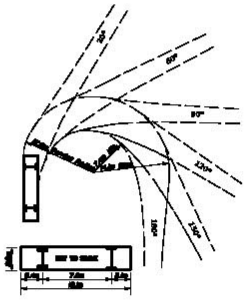
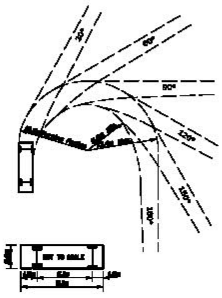


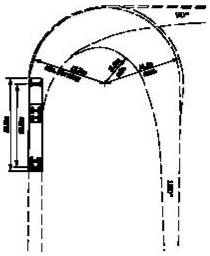
Cell Name: METBUS



Cell Name: METSU



Cell Name: MEWBI5



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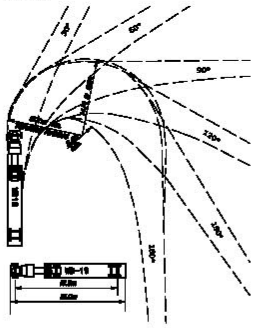
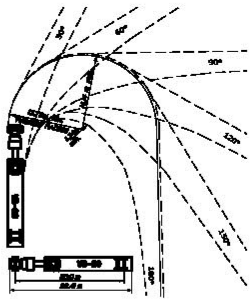
Cell Library: turnradii.cel

Cell Name: MEWB19 	Cell Name: MEWB20 

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Cell Library: US_BridgeStNotes.cel

USNABUT	USNARBX	USNBDST	USNBOX
USNCOFF	USNDESG	USNDESL	USNDRAN
USNELBR	USNGENC	USNHYDF	USNHYDP
USNMATR	USNMOTR	USNPIER	USNPILE
USNPREC	USNSPEC	USNSTL	USNSTPL
USNSUP	USNTRAF	USNTWALL	USNUTIL

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Cell Library: US_ROW.CEL

USFINAORD	USNOSCALE	USNOTEI	USROWCOL
	NOTE: THIS PLAN IS NOT TO SCALE		DRAINAGE EASEMENT PERMANENT EASEMENT TEMPORARY EASEMENT TEMPORARY ROAD EASEMENT
USRWBIRD	USRWCVD	USRWNAGRID	USRWNAMAG
	CURVE DATA P.I. STA. D = Δ = T = L = E = R =		
USRWNMI	USRWNM2	USRWNM3	USRWNRES
			NOTE: USE OF LAND AND BUILDING WITHIN AREA INDICATED RESERVED TO OWNER UNTIL
USRWNRRI	USRWNRR2	USRWNWP	USRWSCOA
NOTE: RIGHTS TAKEN TO RAZE AND REMOVE THAT PORTION OF THE BUILDING THAT LIES OUTSIDE OF THE NEW BOUNDARIES OF STATE HIGHWAY " " AT ABOUT STA. X	NOTE: RIGHTS TAKEN TO RAZE OR REMOVE BUILDING AT STA. X	NOTE: PRESCRIPTIVE EASEMENT FOR HIGHWAY PURPOSES WITHIN LIMITS OF WROUGHT PORTION	CONTROLLED ACCESS LIMIT CONTROLLED ACCESS LIMIT LINE ALONG R/W LINE— R/W LINE— CONTROLLED ACCESS LIMIT LINE NOT ON R/W LINE— NO ACCESS WILL BE PERMITTED TO OR FROM STATE HIGHWAY "X" AND ADJOINING PROPERTIES WITHIN BOUNDARIES DEFINED BY CONTROLLED ACCESS LIMIT LINES
USRWSREG	USRWSU	USRWSUIT	USRWSUTC
STATE OF MAINE REGISTRY OF DEEDS COUNTY _____ RECEIVED _____ at ____h____m ____ and recorded in Plan Book _____, Page _____ Attest: _____ REGISTER	PARCEL NO. ( ) LAND TAKEN = SLOPE EASE. = TEMP. CONST. RIGHTS = TOTAL AREA = REM. AREA =	ITEM NO. ( ) GRADING RIGHTS = TOTAL AREA =	ITEM NO. () TEMP. CONST. RIGHTS = TOTAL AREA =
USRWSUWP	USRWTICK		
PARCEL NO. ( ) LAND TAKEN = (PRESC. EASE.) LAND TAKEN = (OTHER) TOTAL LAND TAKEN = SLOPE EASE. = TEMP. CONST. RIGHTS = TOTAL AREA = REM. AREA =	0+00		

Page 1

Cell Library: usBorder.cel

USI0FT	USI5FT	US20FT	US5FT
USBDGBORDER	USBORDER	USBORDERSC	USBRGTITLE
USCL8XII	USCLP2	USCONOTE	USCSTBRD
USDOTADD	USDRAINAGE	USEN8XII	USENVLAY
USENVTITLE	USESTIMATE	USHWYTITLE	USLMAPBD
USMULTITITLE	USPLANPROFI	USPLANPROF2	USPLNSH2
USPLNSHT	USPROFILE	USPROFILEI	USPROFILE2
USPROFSC	USREBAR	USRWBORD	USRWBORDDT

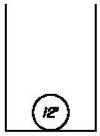
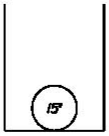
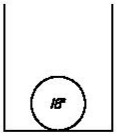
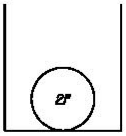
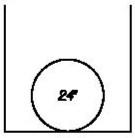
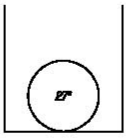
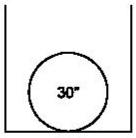
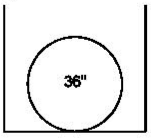
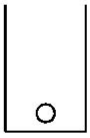
Page 1

Cell Library: usBorder.cel

USRWCLP2	USRWCOORD	USSTDDTL	USTYPICAL
USXSECTH	USXSECTHF	USXSECTION	USXSECTV
USXSECTVF			

Page 2

Cell Library: US_Underdrain.cel

UI2IN 	UI5IN 	UI8IN 	U2IIN 
U24IN 	U27IN 	U30IN 	U36IN 
UDRANB 			

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Cell Library: Usairport.cel

A S BORDER LAND	A S BORDER PORT	AIRPORT LOCATION	ASOS
AWOS	BEACON	CLOSE IN OBSTRUCTION AND TEXT	CONTROLLING OBSTRUCTION AND TEXT
GS	HELIPAD LOCATOR	LOCALIZER	LOCATIOM MAP
MAG VAG	MM	NDB	OPTMAP
PAPI	REILS	RUNWAY GRADIENT	RUNWAY ID NUMBER
SCALE1IN500FT	SEAPLANE BASE LOCATOR	SECUHAZ	SEGMENTED CIRCLE
SWAMP	TETRAHEDRON	TETRAHEDRON LIGHTED	THRESHOLD LIGHTS
VASI	VOR	WIND TEE	WIND TEE LIGHTED

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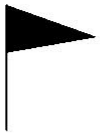
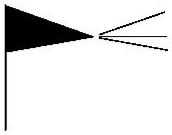
Cell Library: Usairport.cel

WINSOCK 	WINSOCK LIGHTED 		

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Cell Library: USBRDETLIB.cel

ALUM BR 2 BAR TRAFFIC	ALUM BR BASE	BRIDGE TRANS 1	CONC CURB - BIT WS
CONC CURB - CONC WS	CONSPAN 12	CONSPAN 14	CONSPAN 16A
CONSPAN 16B	CONSPAN 20A	CONSPAN 20B	CONSPAN 24A
CONSPAN 24B	CONSPAN 28A	CONSPAN 28B	CONSPAN 32A
CONSPAN 32B	CONSPAN 36A	CONSPAN 36B	CONSPAN 42EXT
CONSPAN 42MOD	CONSPAN 48EXT	CONSPAN WNG PLAN	CONSPAN WNG SECT
EXP DEV COMP 1	EXP DEV COMP 2	EXP DEV FINGER 1	EXP DEV FINGER 2
EXP DEV GLAND 1	EXP DEV GLAND 2	GR CONC BLOCK	GR CURB MTD BASE

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Cell Library: USBRDETLIB.cel

GR CURB MTD ELEV	GR CURB MTD SECT	GR THRIE BEAM CON	GR THRIE BEAM ELEV
GR THRIE BEAM SECT	GR THRIE BEAM TRANS	GR W BEAM ELEV	GR W BEAM SECT
H-PILE PLAN BATTERED	H-PILE PLAN PLUMB	H-PILE SECT BATTERED	H-PILE SECT PLUMB
LIGHT ELEV	LIGHT PLAN	LIGHT PLAN FOUND	PC BARRIER IIIA - BIT WS
PC BARRIER IIIA - CONC WS	PC BARRIER IIIB - BIT WS	PC BARRIER IIIB - CONC WS	PCI BI-36
PCI BI-36 EXT	PCI BI-48	PCI BI-48 EXT	PCI BII-36
PCI BII-36 EXT	PCI BII-48	PCI BII-48 EXT	PCI BIII-36
PCI BIII-36 EXT	PCI BIII-48	PCI BIII-48 EXT	PCI BIV-36

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Cell Library: USBRDETLIB.cel

PCI BIV-36 EXT	PCI BIV-48	PCI BIV-48 EXT	PCI BT-54
PCI BT-63	PCI BT-72	PCI I	PCI II
PCI III	PCI IV	PCI SI-36	PCI SI-36 EXT
PCI SI-48	PCI SI-48 EXT	PCI SII-36	PCI SII-36 EXT
PCI SII-48	PCI SII-48 EXT	PCI SIII-36	PCI SIII-36 EXT
PCI SIII-48	PCI SIII-48 EXT	PCI SIV-36	PCI SIV-36 EXT
PCI SIV-48	PCI SIV-48 EXT	PCI V	PCI VI
SAMPLE RAIL AND CURB	STL BR 1 BAR BM PED	STL BR 2 BAR BM BIKE	STL BR 2 BAR TRAFFIC

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Cell Library: USBRDETLIB.cel

STL BR 4 BAR TRAF BIKE	STL BR 4 BAR TRAF PED	STL BR BASE	T-WALL 10' STD SECT
T-WALL 12' STD SECT	T-WALL 4' DET SECT	T-WALL 4' STD SECT	T-WALL 6' EXTD SECT
T-WALL 6' PLAN	T-WALL 6' STD SECT	T-WALL 8' STD SECT	T-WALL BAT SECT
T-WALL PLUMB SECT	TEMP CONC BARRIER	TEX BR PED - BIT WS	TEX BR TRAF - BIT WS
TRANS BARRIER PLAN			

Page 4

Cell Library: USHEARING.CEL

3D MAN	3D MAN2	AERIAL	AIR
BORDER	CAR1	CAR2	CAR3
CHART	CHART2	CHART3	COLKEY
DIRIGO	DOT	GUIDE1	GUIDE2
LODMAP	LOGO	PC	PLAN1
PROF1	REC	REC2	REC3
SCALE2	SCALE3	TITLEB	TRBUC
TRCCNP	TRCCP	TRDCNP	TRDCP

Page 1

Cell Library: USHEARING.CEL

TYPI	US	USINT	USINTW
USTATE	USW		

Page 2

Cell Library: USmultimodel.cel

CLFPED	CLFPLE	CLFPRE	CLFSP
RXDDFC	RXDF	RXDFC	RXDFWG
RXSB	RXSF	RXSFC	RXSFWG
RXSWG	TwR6x8x102	TwR7x9x108	

Page 1

MX STRING LABELS

MX STRING LABELS

BAB = BRIDGE: ABUTMENT (Bottom)

BB = BUILDING: BUSINESS/COMMERCIAL

BCB = BRIDGE: CURB

BCL = BRIDGE: CENTERLINE

BCR = BRIDGE: COLUMN (2 shots on diameter)

BCS = BRIDGE: COLUMN (Square 3 corners)

BDK = BRIDGE: DECK

BEJ = BRIDGE: EXPANSION JOINT

BFA = BRIDGE: FASCHIA

BFB = BRIDGE: FOOTING (Bottom)

BFT = BRIDGE: FOOTING (Top)

BIL = BRIDGE: RAIL

BLZ = BLAZED LINE

BM = BUILDING: MUNICIPAL/GOVERNMENT

BP = BUILDING: PORCH/DECK/BULKHEAD, ETC.

BPA = BRIDGE: PARAPET

BPI = BRIDGE: PIER (Bottom)

BR = BUILDING: RESIDENTIAL

BST = BRIDGE: SEAT

BWT = BRIDGE: WINGWALL (Top)

BX = CULVERT: BOX CULVERT

BZ = BUILDING: RUINS/CELLAR HOLE/FOUND.

C = CENTERLINE

CAP = CULVERT: CORRUGATED ARCH PIPE

CB = CURB: BITUMINOUS (Top)

CC = CURB: CONCRETE (Top)

CE = CURB: GRANITE EDGING (Sloped Curb)

CEM = CEMETERY

CG = CURB: GRANITE (Top)

CHEK= CHECK SHOT ON TRAV. / BM

CMT = CULVERT: MULTI-PLATE

CO = CURB: OTHER (Top)

CP = CONCRETE PAD/SLAB

CS = CURB: BUMPER

CU = CENTERLINE OF RUN

CV = CULVERT: TOP

CY = CANOPY / CARPORT

DAM = DAM

DC = DRIVEWAY: CONCRETE

DG = DRIVEWAY: GRAVEL

DL = DITCH LINE

DMG = DAM GATE

DNS = DOWNSPOUT (Ditch)

DO = DRIVEWAY: OTHER (Must be commented)

DP = DRIVEWAY: PAVED

EF = ENTRANCE: FIELD

EP = EDGE: PAVEMENT

ES = EDGE: SHOULDER

EW = ENTRANCE: WOODS

F = FENCE

FB = FENCE: BARBED WIRE

FC = FENCE: CHAIN LINK

FE = FENCE: ELECTRIC

FG = FENCE: GATE

FLY = FLY POINT (a.k.a. TOPO POINT)

FP = FENCE: PAGE

FPI = FENCE: PICKET

FPR = FENCE: POST AND RAIL

FS = FENCE: STOCKADE/POST/PLANK

FSR = FENCE: SPLIT RAIL

FW = FENCE: SMOOTH WIRE (Non-Electric)

G = GROUND: ALL GROUND FEATURES

GB = GUARDRAIL: BEAM

GC = GUARDRAIL: CABLE

GJ = GUARDRAIL: JERSEY BARRIER

GN = GARDEN

GPI = GAS PUMP ISLAND (Top)

GU = GUARDRAIL: OTHER

HE = HEDGE

HWT = HEADWALL: TOP

KB = STEPS: BRICK (Must be commented)

KC = STEPS: CONCRETE (Must be commented)

KO = STEPS: OTHER (Must be commented)

KS = STEPS: STONE (Must be commented)

KW = STEPS: WOOD (Must be commented)

L = LEVEL STRING

LA = LAWN

LE = LEDGE / OUTCROP

LF = LEACHFIELD

LMB = MULTIPLE MAILBOXES (2 SHOTS)

LP = PLANTER

PALM= ALARM BOX ON POST

PBDN= BRIDGE: DOWNSPOUT

PBLD= BOULDER / ROCK

PBMK= BENCH MARK

PBOR= BORING LOCATIONS

PBTH= TELEPHONE: PUBLIC

PBUS= BUSH/SHRUB (Center)

PCBI= CATCH BASIN: INVERT

PCBS= CATCH BASIN: SUMP

PCBT= CATCH BASIN: TOP

PCLP= CENTERLINE POINT (R/R Spike)

PCMN= CONCRETE MONUMENT (General)

PCTL= GEODETIC CONTROL POINT

PCUI= CULVERT: INVERT

PDAT= ANTENNA/TOWER/DISH

PDIN= DROP INLET

PDRO= DRAIN OUTLET

PDTN= TREE: DEAD (Non-Pay Less than 12")

PDTP= TREE: DEAD (Pay 12" or Larger)

PELO= ELECTRICAL OUTLET

PELV= SPOT ELEVATION

PFLY= SURVEY FLY POINT

PGBM= GEODETIC BENCH MARK

PGGT= GAS GATE

PGPM= GAS PUMPS

PGRA= GRAVE / GRAVE MARKER

PGSO= GAS SHUT-OFF

PHYD= HYDRANT

PIPP= IRON PIN / PIPE

PITT= UTILITY ESCAVATION

PJCT= CONTROL/JUNCTION BOX

PLED= LEDGE OUTCROP

PMBX= MAILBOX

PMHD= MANHOLE: DRAINAGE

PMHE= MANHOLE: ELECTRIC

PMHG= MANHOLE: GAS

PMHS= MANHOLE: SEWER

PMHT= MANHOLE: TELEPHONE

PMHU= MANHOLE: UNKNOWN USE

PMHW= MANHOLE: WATER

POLB= POLE: BRACE

POLE= POLE: POWER POLE

POLF= POLE: FLAGPOLE

POLG= POLE: GUY WIRE ANCHOR

POLJ= POLE: JOINT POWER AND TELEPHONE

POLL= POLE: STREET LIGHT / LAMP POST

POLS= POLE: SUPPORT

POLT= POLE: TELEPHONE / TELEGRAPH

POLU= POLE: STUB

PPCN= POST: CONCRETE

PPJM= PROJECT MARKER

PPST= POST: STEEL

PPWD= POST: WOOD

PRPL= RARE PLANT

PRRG= RAILROAD: GATE

PRSL= RAILROAD: SIGNAL

PRSW= RAILROAD: SWITCH

PRTR= RARE TREE

PRWM= R/W MONUMENT

PSEP= SEPTIC TANK: SINGLE SHOT

PRSH= RARE SHRUB

PSGN= SIGN: SINGLE POST

PSIL= SILL ELEVATION

PSMN= STONE MONUMENT (General)

PSSA= SURVEY TRAVERSE STATION

PSTT= STORAGE TANK FILL CAP

PSUR= SURVEY MONUMENT

PTCN= TREE: CONIFER (Non-Pay Less than 12")

PTCP= TREE: CONIFER (Pay 12" or Larger)

PTDN= TREE: DECIDUOUS (Non-Pay Less than 12")

PTDP= TREE: DECIDUOUS (Pay 12" or Larger)

PTOW= UTILITY TOWER (Center)

PTRA= SURVEY TRAVERSE POINT

PTRR= TREE: ROOT

PTRS= TREE: STUMP

PTSM= TRAFFIC SIGNAL: POLE W/ MAST ARM

PTSS= TRAFFIC SIGNAL: SIGNAL POLE

PUDO= UNDERDRAIN OUTLET

PVNT= VENT PIPE

PWGT= WATER GATE

PWLG= WELL: GROUND ELEVATION

PWLT= WELL: TOP

PWSO= WATER SHUT-OFF

PYLT= YARD: LIGHT

PZZZ= MISC. ITEMS (MUST BE COMMENTED)

QB = FIREPLACE / BAR-B-QUE

QP = POOLS

RP = RIPRAP

RT = RAILROAD: TRACKS

RWT = RETAINING WALL: TOP

SB = SIDEWALK: BRICK

SC = SIDEWALK: CONCRETE

SGG = STORAGE TANK: LP GAS, PROPANE, ETC

SGP = STORAGE TANK: GASOLINE, OIL, ETC.

SGT = STORAGE TANK

SGW = STORAGE TANK: WATER

SLW = SLUICEWAY

SN = SIGN: BASE

SND = SIGN: DOUBLE POSTS (2 SHOTS)

SO = SIDEWALK: OTHER (Must be commented)

SP = SIDEWALK: PAVED

SPT = SEPTIC TANK: EXPOSED

SW = STONE WALL

TB = TREE: TREE LINE (BUSHES)

TI = TRAVERSE TIES

TL = TREE: EDGE WOODS / TREE LINE

UE = UNDERGROUND ELECTRIC

UG = UNDERGROUND GAS

UO = UNDERGROUND OIL MAIN

US = UNDERGROUND SEWER

UT = UNDERGROUND TELEPHONE

UW = UNDERGROUND WATER

VA = WETLAND: ESTUARINE UNVEG.SUBSTR.

VC = WETLAND: ESTUARINE EMERGENT

VE = WETLAND: PALUSTRINE EMERGENT

VH = WETLAND: PALUSTRINE SCRUB-SHRUB

VK = WETLAND: PALUSTRINE FORESTED

VO = WETLAND: UNCLASSIFIED

VR = WETLAND: RIVERINE UNCONS.SUBSTR.

VU = WETLAND: LACUSTRINE UNCONS.SUBSTR.

VW = WETLAND: VERNAL POOL

WA = EDGE: WET AREA

WC = WALKWAY: CONCRETE

WO = WALKWAY: OTHER (Must be commented)

WP = WALKWAY: PAVED

WR = EDGE: RIVER/BK./STR./POND/LAKE

WX = PAINTED LINES

X = EDGE: TRAVELLED WAY

YG = YARD: GRAVEL

YP = YARD: PAVED

ZZ = MISC. FEATURE (MUST BE COMMENTED)

TEXT

Accessing Custom Symbols

We have added a number of characters to our fonts. They can be accessed from the text editor by typing a “backslash” and then the number corresponding to the character.

Note that in these tables, the number corresponding to a symbol is the number above the symbol. So to type the Centerline symbol, type “\201”

The Degrees Symbol

The degrees symbol can be accessed by typing **Shift + 6** (the ^ symbol).

Font 32: DOT_ENG

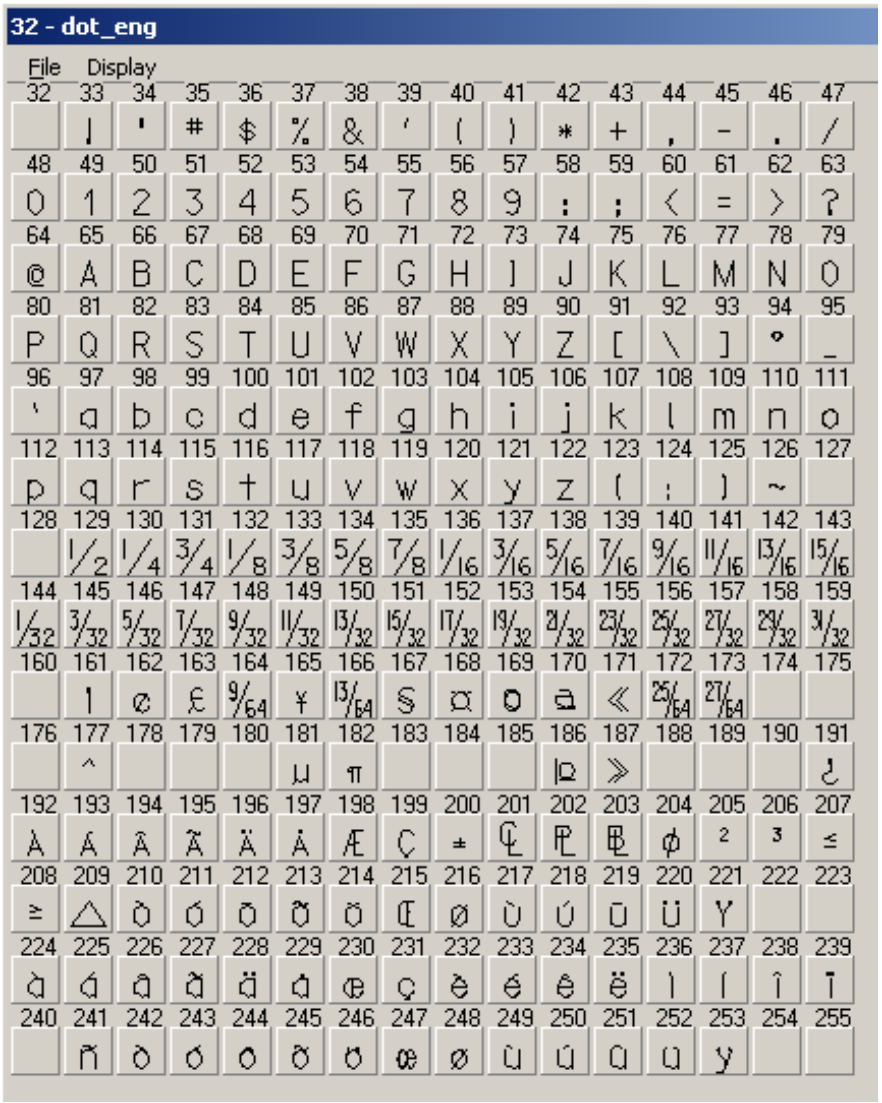

Figure 16-4: Character Map of Font 32, DOT_ENG

Font 123 DOTITALICS

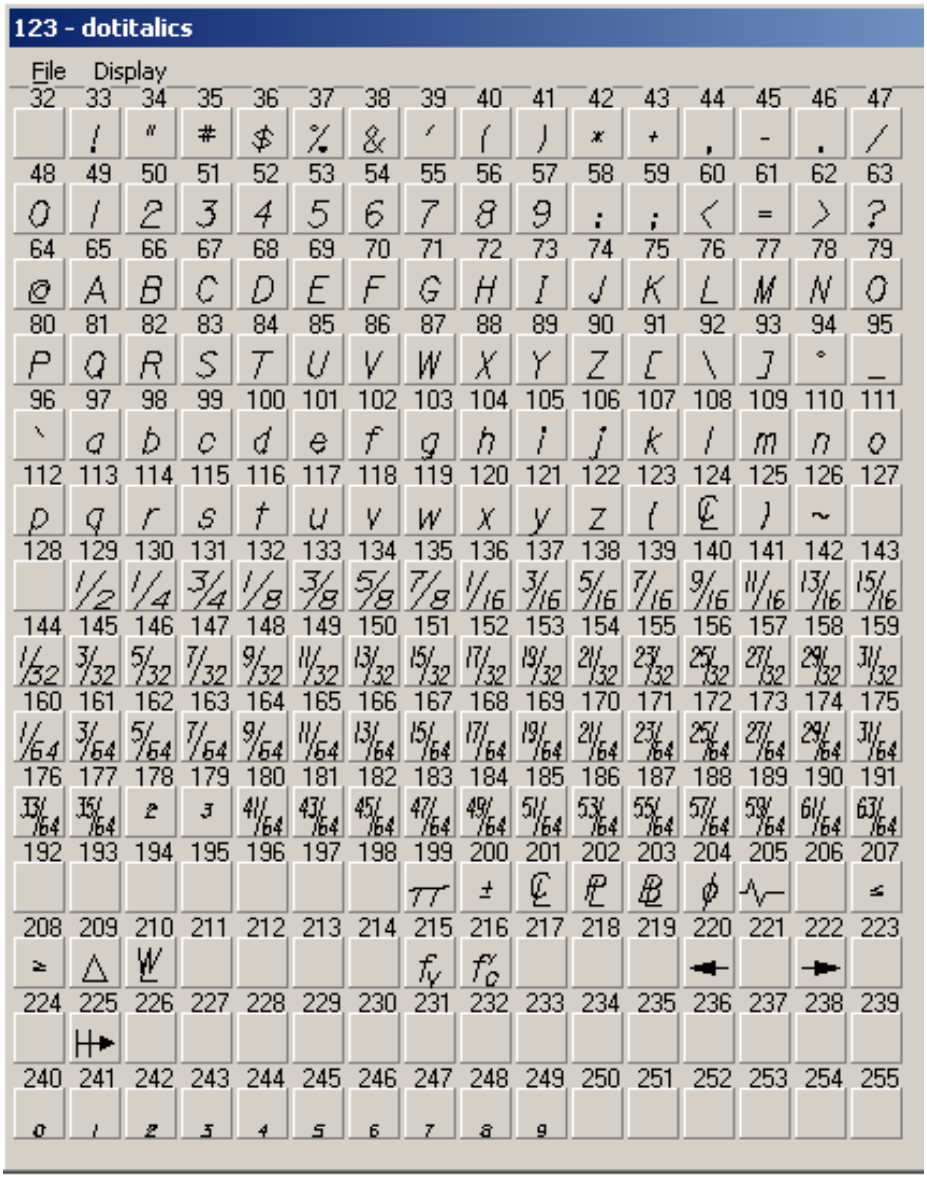

Figure 16-5: Character Map of Font 123, dotitalics

Font 229 (Verdana)

229 - verdana

File Display

32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47
	!	"	#	$	%	&	'	(	)	±	+	,	-	.	/
48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63
0	1	2	3	4	5	6	7	8	9	:	;	<	=	>	?
64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79
@	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O
80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95
P	Q	R	S	T	U	V	W	X	Y	Z	[	\	]	°	_
96	97	98	99	100	101	102	103	104	105	106	107	108	109	110	111
`	a	b	c	d	e	f	g	h	i	j	k	l	m	n	o
112	113	114	115	116	117	118	119	120	121	122	123	124	125	126	127
p	q	r	s	t	u	v	w	x	y	z	{	|	}	~	
128	129	130	131	132	133	134	135	136	137	138	139	140	141	142	143
144	145	146	147	148	149	150	151	152	153	154	155	156	157	158	159
160	161	162	163	164	165	166	167	168	169	170	171	172	173	174	175
	¡	¢	£	¤	¥	¦	§	¨	©	ª	«	¬	-	®	¯
176	177	178	179	180	181	182	183	184	185	186	187	188	189	190	191
°	±	²	³	´	µ	¶	·	¸	¹	º	»	¼	½	¾	¿
192	193	194	195	196	197	198	199	200	201	202	203	204	205	206	207
À	Á	Â	Ã	Ä	Å	Æ	Ç	È	É	Ê	Ë	Ì	Í	Î	Ï
208	209	210	211	212	213	214	215	216	217	218	219	220	221	222	223
Ð	Ñ	Ò	Ó	Ô	Õ	Ö	×	Ø	Ù	Ú	Û	Ü	Ý	Þ	ß
224	225	226	227	228	229	230	231	232	233	234	235	236	237	238	239
à	á	â	ã	ä	å	æ	ç	è	é	ê	ë	ì	í	î	ï
240	241	242	243	244	245	246	247	248	249	250	251	252	253	254	255
ð	ñ	ò	ó	ô	õ	ö	÷	ø	ù	ú	û	ü	ý	þ	ÿ

Figure 16-6: Character Map of Font 229, Verdana