

# CADD STANDARDS FOR DESIGN

## LAYERS

## SYMBOLS

## LINES

LAYER NAME    USED FOR    COLOR    LINETYPE    WIDTH

### BOUNDARIES

PB-EASEMENT-CE	Conservation Easement	11	PERMDRAIN	0.010
PB-EASEMENT-SDE	Storm Drainage Easement	11	DRAINEASE	0.010
PB-EASEMENT-SUE	Sidewalk/Utility Ease.	11	SUE	0.010
PB-EASEMENT-UTE	Utility Easement	11	UTE	0.010
PB-EASEMENT-TEMP	Temp. Const. Easement	11	TEMPEASE	0.010
PB-PROP-LINE	Proposed Property line	23	PROP	0.020
PB-LIMITS-CUT	Cut line	GREEN	CSLOPE	0.010
PB-LIMITS-FILL	Fill line	GREEN	FSLOPE	0.010
PB-STAKING-PL	Staking/Offset	11	CONTINUOUS	0.010
PB-STAKING-IMPR	Staking/Offset	11	CONTINUOUS	0.010

### DETAIL SHEETS

GF-DETAIL-005	Detail @ PW = .005	33	CONTINUOUS	0.005
GF-DETAIL-010	Detail @ PW = .010	RED	CONTINUOUS	0.010
GF-DETAIL-015	Detail @ PW = .015	BLUE	CONTINUOUS	0.015
GF-DETAIL-EXISTING	"Existing" part of detail	WHITE	HIDDEN2	0.005
GF-DETAIL-HATCH	Hatching for details	BLUE	CONTINUOUS	0.015
GF-GENLNOTES	General notes	GREEN	CONTINUOUS	0.010

### DRAINAGE

PD-DITCH	Ditch/Channel/Swale	CYAN	CONTINUOUS	0.015
PD-DITCH-BL	Ditch baseline	YELLOW	CONTINUOUS	0.010
PD-STORM	Storm drain pipe/structure	131	CONTINUOUS	0.010
PD-STORM-TEXT	Storm Drainage Text	CYAN	CONTINUOUS	0.015
PD-CONT-MJR	Major Contour	MAGENTA	CONTINUOUS	0.015
PD-CONT-MNR	Minor Contour	YELLOW	CONTINUOUS	0.010

### HATCHING

PHTCH-ASPHALT	Asph drive/lot	254	CONTINUOUS	0.005
PHTCH-CONCRETE	Conc C/G, drive/lot	253	CONTINUOUS	0.010
PHTCH-GRASS	Bio-Engineering Veg. Channeling	21	CONTINUOUS	0.005
PHTCH-GRAVEL	Gravel drive/lot	41	CONTINUOUS	0.005
PHTCH-PAVEMENT	New pavement	254	CONTINUOUS	0.001
PHTCH-REMOVAL	Pavement removal	253	CONTINUOUS	0.010
PHTCH-RIPRAP	Rip-rap ditch	21	CONTINUOUS	0.005
PHTCH-SIDEWALK	Sidewalk	253	CONTINUOUS	0.010
PHTCH-PROFILE	Storm Drainage	191	CONTINUOUS	0.015
PHTCH-MISC	Misc. Hatching	253	CONTINUOUS	0.010

### MISCELLANEOUS

PM-BASELINE	Baseline, curve data	MAGENTA	CONTINUOUS	0.015
PM-BASELINE-TEXT	Bearing Text	MAGENTA	CONTINUOUS	0.015
PM-FENCE	Fence	YELLOW	FENCE	0.010
PM-NOTE	Notes	BLUE	CONTINOUS	0.015
PM-PROTECT	Tree protection/removal	20	CONTINUOUS	0.010
PM-STRUCTURE	Bridge, Retaining Wall, Etc.	BLUE	CONTINUOUS	0.015
PM-TEXT	Text	MAGENTA	CONTINUOUS	0.015
PM-UTILITY-GAS	Proposed Gas	YELLOW	GAS	0.010
PM-UTILITY-OVHD	Proposed Overhead Utility	YELLOW	OU	0.010
PM-UTILITY-SAN	Proposed Sewer	YELLOW	SEWER	0.010
PM-UTILITY-UNGD	Proposed Underground Utility	YELLOW	UU	0.010
PM-UTILITY-WATER	Proposed Water	YELLOW	WATER	0.010
PM-VEG	Tree, Shrub, Etc.	GREEN	CONTINUOUS	0.010
PM-TBLOCK-TEXT	Text/Notes	21	CONTINUOUS	0.005
PM-TBLOCK-HEADER	Header	BLUE	CONTINUOUS	0.015

### PAVEMENT

PP-CURB	Curb & gutter	MAGENTA	CONTINUOUS	0.015
PP-DRIVE	Driveway	MAGENTA	CONTINUOUS	0.015
PP-GUARDRAIL	Guardrail/Handrail	42	GDR	0.015
PP-PAINT	Pvmt. marking/Dir. arrow	8	CONTINUOUS	0.010
PP-ROAD	Edge of pavt	MAGENTA	CONTINUOUS	0.015
PP-RRTRACKS	Rail Road Tracks	43	RR	0.010
PP-SAWCUT	Sawcut line	YELLOW	DOT	0.010
PP-SIDEWALK	Sidewalk/Step	MAGENTA	CONTINUOUS	0.015
PP-SILT-FENCE	Silt Fence	62	SILT	0.025















### DRAWING SPACE

PS-MATCH	Match line	BLUE	CONTINUOUS	0.015
PS-MVIEW	Viewport	WHITE	CONTINUOUS	0.005
PS-STAMP	Stamps	62	CONTINUOUS	0.025
PS-TBLOCK-NOTES	Notes	21	CONTINUOUS	0.005
PS-TBLOCK-HEADER	Header	BLUE	CONTINUOUS	0.015
PS-TBLOCK-TEXT	Title Block Text	BLUE	CONTINUOUS	0.015
MS-TEXT	Text	MAGENTA	CONTINUOUS	0.015
MS-ROAD-TEXT	Road/Alignment Name	CYAN	CONTINUOUS	0.015

### PROFILE/CROSS SECTIONS





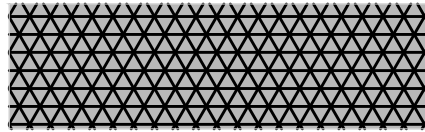


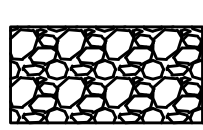
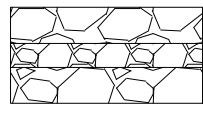
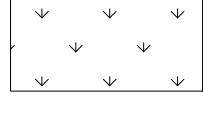

PF-GRID-INDEX	Grid	151	CONTINUOUS	0.010
PF-GRID-INTER	Grid	9	CONTINUOUS	0.005
PF-PFGC	Finish Grade	220	CONTINUOUS	0.025
PF-PEGC	Existing Grade	GREEN	HIDDEN2	0.010
PF-STORM-LT	Storm Drainage	160	CONTINUOUS	0.020
PF-STORM-RT	Storm Drainage	30	CONTINUOUS	0.020
PF-UTILITY-SAN	Proposed Sewer	BLUE	CONTINUOUS	0.015

NAME    SYMBOL    OBJECT SIZE    LAYER    REMARKS

TREE BARRICADE		LINE WIDTH = .60	PM-PROTECT	Length and shape vary
TREE REMOVAL		LINE WIDTH = .60	PM-PROTECT	Length and shape vary
STORM DRAINAGE MANHOLE		RADIUS = 2.50	PD-STORM	 Symbol with structure # (on plan view and profile)
CATCH BASIN		BOX = 4.6 X 3	PD-STORM	 Symbol with structure # (on plan view and profile)
YARD INLET		BOX = 3.5 X 2.5	PD-STORM	 Symbol with structure # (on plan view and profile)
OFFSET CATCH BASIN		BOX = 4.6 X 5	PD-STORM	 Symbol with structure # (on plan view and profile)
UTILITY POLE		RADIUS = 0.8	PM-UTILITY	
FLARED END SECTION		2.4 x 3.5 LONG = 7.2	PD-STORM	
PROPOSED WATER VALVE		3.6 X 1.6	PM-UTILITY	
LIGHT POLE		RADIUS = 0.8	PM-UTILITY	

## HATCHING

APPLIC.    SAMPLE    HATCH    SCALE    LAYER    COLOR

SIDEWALK		SOLID	N/A	PHTCH-SIDEWALK	253
PROPOSED PAVEMENT (e.g. widenings, restoration, asphalt driveway)		SOLID	N/A	PHTCH-PAVEMENT PHTCH-ASPHALT (Use for asphalt driveways)	254
CONCRETE (e.g. ACC, c&g, driveways, etc.)		SOLID	N/A	PHTCH-CONCRETE	253
PROFILE STORM DRAINAGE (Left or Right) (pipes, catch basins, etc.)		SOLID	N/A	PHTCH-PROFILE	191
PROPOSED SIDEWALK BRIDGING TREE ROOTS		NET3	15.0	PHTCH-SIDEWALKBRDG (Use in combination w/PHTCH-CONCRETE)	MAGENTA
PROPOSED 4" SIDEWALK REINFORCEMENT		CROSS	5.0	PHTCH-4SIDEWALKREINF (Use in combination w/PHTCH-CONCRETE)	MAGENTA
PAVT REMOVAL		ANSI37	20.0	PHTCH-REMOVAL	253
GRAVEL		GRAVL1	5.0	PHTCH-GRAVEL	41
RIP-RAP		GRAVL1	6.0 & 10.0	PHTCH-RIPRAP	21
BIO-ENGINEERING VEG. CHANNELING		GRASS	5.0	PHTCH-GRASS	21
WHEELCHAIR RAMP		HEX	4.0	PP-SIDEWALK	MAGENTA

## TEXT

TEXT  
TYPE

TEXT  
SAMPLE







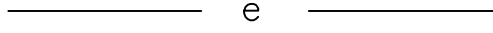



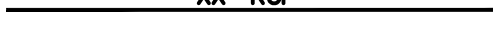
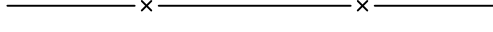

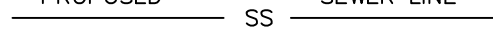
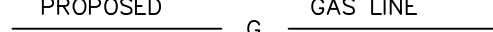


TEXT  
STYLE/FONT/HEIGHT

PROPOSED WORK  
MATCH LINE  
STREET NAME  
"NOTES" heading  
SHEET NOTE

REMOVE ASPHALT BETWEEN...  
MATCH LINE -X-  
XXXX ST  
NOTES  
1. THIS PLAN...

L80 / SIMPLEX / 1.6  
L175 / SIMPLEX / 3.5  
L175 / SIMPLEX / 3.5  
L175 / SIMPLEX / 3.5  
L100 / SIMPLEX / 2.0

NAME    LINETYPE    LAYER    REMARKS

NEW PROPERTY LINE		PB-PROP-LINE	
SLOPE STAKE CUT LINE		PB-LIMITS-CUT	
SLOPE STAKE FILL LINE		PB-LIMITS-FILL	
CONSERVATION EASEMENT		PB-EASEMENT-CE	
STORM DRAINAGE EASEMENT		PB-EASEMENT-SDE	
TEMP. CONSTRUCTION EASEMENT		PB-EASEMENT-TEMP	
SIDEWALK/UTILITY EASEMENT		PB-EASEMENT-SUE	
UTILITY EASEMENT		PB-EASEMENT-UTE	
PROPOSED STORM DRAINAGE PIPE		PD-STORM	Draw pipes to scale. Show pipe wall thickness.
PROPOSED FENCE		PM-FENCE	
PROPOSED WATER		PM-UTILITY-WATER	
PROPOSED SEWER		PM-UTILITY-SAN	
PROPOSED GAS		PM-UTILITY-GAS	
PROPOSED UNDERGROUND		PM-UTILITY-UNGD	See Note 2
PROPOSED OVERHEAD		PM-UTILITY-OVHD	See Note 2
PROPOSED GUARDRAIL		PP-GUARDRAIL	
PROPOSED SILT FENCE		PP-SILT-FENCE	

NOTE: 1. LINETYPES SHALL BE PER CITYSTD.LIN ALSO SEE LINETYPE EXAMPLE SHEET.  
2. THESE LINETYPES ARE FOR NON-SPECIFIC UTILITIES. USE UTILITY SPECIFIC LINETYPE FROM CITYSTD.LIN AS APPLICABLE.

## ABBREVIATIONS

ABAND.	ABANDONED	HDPE	HIGH-DENSITY POLYETHYLENE PIPE
ACCOMP	ASPHALT COATED CORRUGATED METAL PIPE	HW	HEADWALL
ASPH	ASPHALT	HORIZ	HORIZONTAL
B/C	BACK OF CURB	INV	INVERT
CL OR C/L	CENTER LINE	JB	JUNCTION BOX
CL FENCE	CHAIN LINK FENCE	JB W/MH	JUNCTION BOX WITH MANHOLE
C&G	CURB & GUTTER	LF	LINEAR FEET
C&G	CURB & GUTTER	LP	LIGHT POLE
CB	CATCH BASIN	MH	MANHOLE
CMLD	CHARLOTTE-MECKLENBURG LAND DEVELOPMENT	MONO	MONOLITHIC
CMP	CORRUGATED METAL PIPE	mph	MILES PER HOUR
CMUD/CMU	CHARLOTTE-MECKLENBURG UTILITY DEPARTMENT	NTS	NOT TO SCALE
CONC	CONCRETE	PAVT	PAVEMENT
CONST	CONSTRUCT / CONSTRUCTION	PROP.	PROPOSED
DCB	DOUBLE CATCH BASIN	PVC	POLYVINYL CHLORIDE PIPE
DB	DEED BOOK	RCP	REINFORCED CONCRETE PIPE
DI	DROP INLET	RELOC	RELOCATE / RELOCATED
DIP	DUCTILE IRON PIPE	S/R FENCE	SPLIT RAIL FENCE
DIA	DIAMETER	SS	SANITARY SEWER
DW	DRIVEWAY	SSCO	SANITARY SEWER CLEANOUT
ELEV OR EL	ELEVATION	SSMH	SANITARY SEWER MANHOLE
EOP	EDGE OF PAVEMENT	STA	STATION
ESMT	EASEMENT	SW	SIDEWALK
EXIST OR EX	EXISTING	TCE	TEMP CONST ESMT
F/C	FACE OF CURB	T/W	TEST WIRE BOX
FES	FLARED END SECTION	TEMP	TEMPORARY
FH	FIRE HYDRANT	VCP	VITRIFIED CLAY PIPE
FOC	FIBER OPTIC CABLE	VERT	VERTICAL
GV	GAS VALVE	W. VAULT	WATER VAULT
		WL	WATER LINE
		WM	WATER METER
		WV	WATER VALVE

NOTE: OTHER ABBREVIATIONS MAY BE ADDED IF NECESSARY

NOTE: 1. ALL TEXT FOR PROPOSED ITEMS SHOULD USE L80 TEXT STYLE WITH 1.6 HEIGHT UNLESS OTHERWISE NOTED ON THIS SHEET.  
2. ALL STANDARDS ON THIS SHEET ARE BASED ON A SCALE OF 1" = 20'. IF ANOTHER SCALE IS USED, REVISE ACCORDINGLY.  
3. THIS SHEET PROVIDES A PARTIAL LIST OF LAYERS SEE THE STANDARD TEMPLATE FOR ALL LAYERS.  
4. USE CITYSTD.CTB CONFIGURATION FILE AND PLOT IN BLACK.