

PROJECT REFERENCE NO.	B-4593	SHEET NO.	UC-2
DESIGNED BY:	JV		
DRAWN BY:			
CHECKED BY:	CB		
APPROVED BY:	JV		
REVISED:			
		HDR Engineering, Inc. of the Carolinas 555 Fayetteville St., Suite 900 Raleigh, NC 27601 (919) 232-6600	
		Chris Brown	

7/1/2019

UTILITY SYMBOLOGY B-4593

PROPOSED WATER SYMBOLS

Water Line (Sized as Shown)	
11 1/4 Degree Bend	
22 1/2 Degree Bend	
45 Degree Bend	
90 Degree Bend	
Plug	
Tee	
Cross	
Reducer	
Gate Valve	
Butterfly Valve	
Tapping Valve	
Line Stop	
Line Stop with Bypass	
Blow Off	
Fire Hydrant	
Relocate Fire Hydrant	
Remove Fire Hydrant	
Water Meter	
Relocate Water Meter	
Remove Water Meter	
Water Pump Station	
RPZ Backflow Preventer	
DCV Backflow Preventer	
Relocate RPZ Backflow Preventer	
Relocate DCV Backflow Preventer	

PROPOSED SEWER SYMBOLS

Gravity Sewer Line (Sized as Shown)	
Force Main Sewer Line (Sized as Shown)	
Manhole (Sized per Note)	
Sewer Pump Station	

PROPOSED MISCELLANOUS UTILITIES SYMBOLS

Power Pole		Thrust Block	
Telephone Pole		Air Release Valve	
Joint Use Pole		Utility Vault	
Telephone Pedestal		Concrete Pier	
Utility Line by Others (Type as Shown)		Steel Pier	
Trenchless Installation		Gate Valve	
Water Main			
Encasement by Open Cut			
Encasement			

EXISTING UTILITIES SYMBOLS

Power Pole		*Underground Power Line	
Telephone Pole		*Underground Telephone Cable	
Joint Use Pole		*Underground Telephone Conduit	
Utility Pole		*Underground Fiber Optics Telephone Cable	
Utility Pole with Base		*Underground TV Cable	
H-Frame Pole		*Underground Fiber Optics TV Cable	
Power Transmission Line Tower		*Underground Gas Pipeline	
Water Manhole		Aboveground Gas Pipeline	
Power Manhole		*Underground Water Line	
Telephone Manhole		Aboveground Water Line	
Sanitary Sewer Manhole		*Underground Gravity Sanitary Sewer Line	
Hand Hole for Cable		Aboveground Gravity Sanitary Sewer Line	
Power Transformer		*Underground SS Forced Main Line	
Telephone Pedestal		Underground Unknown Utility Line	
CATV Pedestal		SUE Test Hole	
Gas Valve		Water Meter	
Gas Meter		Water Valve	
Located Miscellaneous Utility Object		Fire Hydrant	
Abandoned According to Utility Records		Sanitary Sewer Cleanout	
End of Information		Well	

ABBREVIATIONS

BC	BACK OF CURB	FOD	FULL OF DEBRIS	RRS	RAILROAD SPIKE
B.H.	BUILDING HEIGHT	PB	PLAT BOOK	R/W	RIGHT-OF-WAY
BST	BITUMINOUS SURFACE TREATMENT	PG	PAGE	SE	SIGHT EASEMENT
CC	CURB CUT	PIN	TAX PARCEL ID NUMBER	S.F.	SQUARE FEET
CGF	COMBINED GRID FACTOR	POB	POINT OF BEGINNING	TW	TOP OF WALL
CH	CHORD	PVC	POLYVINYL CHLORIDE PIPE	(M)	MEASURED
CM	CONCRETE MONUMENT	RCP	REINFORCED CONCRETE PIPE	(R)	RECORDED INVERT ELEVATION
CMP	CORRUGATED METAL PIPE				
CONC.	CONCRETE				
DB	DEED BOOK				
DIP	DUCTILE IRON PIPE				

REVISIONS

6/28/2019
... 286 003_B4593_ut_sjm_UC02_psh.dgn