

# STATE OF NORTH CAROLINA DIVISION OF HIGHWAYS

## UTILITIES PLAN SHEET SYMBOLS

### PROPOSED WATER SYMBOLS

Water Line (Sized as Shown)	----- 12" WL -----
11¼ Degree Bend	----- ⚡ -----
22½ Degree Bend	----- ⚡ -----
45 Degree Bend	----- ⚡ -----
90 Degree Bend	----- ⚡ -----
Plug	-----   -----
Tee	----- ⊕ -----
Cross	----- ⊕ -----
Reducer	----- ▶ -----
Gate Valve	----- GV -----
Butterfly Valve	----- BV -----
Tapping Valve	----- TV -----
Line Stop	----- LS -----
Line Stop with Bypass	----- LS/BP -----
Blow Off	----- BO -----
Fire Hydrant	----- FH -----
Relocate Fire Hydrant	----- RFH -----
Remove Fire Hydrant	----- REM FH -----
Water Meter	----- WM -----
Relocate Water Meter	----- RWM -----
Remove Water Meter	----- REM WM -----
Water Pump Station	----- PS(W) -----
RPZ Backflow Preventer	----- RPZ -----
DCV Backflow Preventer	----- DBFP -----
Relocate RPZ Backflow Preventer	----- RRPZ -----
Relocate DCV Backflow Preventer	----- RDBFP -----

### PROPOSED SEWER SYMBOLS

Gravity Sewer Line (Sized as Shown)	----- 12" SS -----
Force Main Sewer Line (Sized as Shown)	----- 12" FSS -----
Manhole (Sized per Note)	----- • -----
Sewer Pump Station	----- PS(SS) -----

### PROPOSED MISCELLANEOUS UTILITIES SYMBOLS

Power Pole	----- ○ -----
Telephone Pole	----- ○ -----
Joint Use Pole	----- ○ -----
Telephone Pedestal	----- TEL PED -----
Utility Line by Others (Type as Shown)	----- PROP O/H POW LINES -----
Trenchless Installation	----- 12" TL INSTALL -----
Encasement by Open Cut	----- 24" ENCAS BY OC -----
Encasement	----- 24" ENCASUREMENT -----

Thrust Block	-----   -----
Air Release Valve	----- AR -----
Utility Vault	----- UV -----
Concrete Pier	----- CP -----
Steel Pier	----- SP -----
Plan Note	----- NOTE -----
Pay Item Note	----- PAY ITEM -----

### 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	----- A/G Gas -----
Power Manhole	----- ⊙ -----	*Underground Water Line	-----
Telephone Manhole	----- ⊙ -----	Aboveground Water Line	----- A/G Water -----
Sanitary Sewer Manhole	----- ⊙ -----	*Underground Gravity Sanitary Sewer Line	----- ss -----
Hand Hole for Cable	----- □ -----	Aboveground Gravity Sanitary Sewer Line	----- A/G Sanitary Sewer -----
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	----- AATUR -----	Sanitary Sewer Cleanout	----- ⊙ -----
End of Information	----- E.O.I. -----		

\*For Existing Utilities  
Utility Line Drawn from Record (Type as Shown) -----  
Designated Utility Line (Type as Shown) -----

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