



**UTILITY LEGEND**

|                               | EXISTING | PROPOSED |
|-------------------------------|----------|----------|
| OVERHEAD ELECTRICAL           | ---      | ---      |
| UNDERGROUND ELECTRICAL        | ---      | ---      |
| GAS                           | ---      | ---      |
| SANITARY SEWER                | ---      | ---      |
| TELEPHONE                     | ---      | ---      |
| UNDERGROUND TELEPHONE         | ---      | ---      |
| WATER                         | ---      | ---      |
| STAND PIPE SUPPLY             | ---      | ---      |
| FIRE PROTECTION               | ---      | ---      |
| FORCE MAIN                    | ---      | ---      |
| CHILLED WATER                 | ---      | ---      |
| FOUNDATION DRAIN              | ---      | ---      |
| FIBER OPTIC                   | ---      | ---      |
| ROOF DRAIN (SEE NOTE #4)      | ---      | ---      |
| STORM DRAIN                   | ---      | ---      |
| LIGHT POLE                    | ☆ LP     | ☆        |
| UTILITY POLE                  | ☆ PP     | ☆        |
| MANHOLE                       | ⊙ MH     | ⊙        |
| CLEAN OUT                     | ⊙        | ⊙        |
| DROP INLET/CATCH BASIN        | □ DI, CB | □        |
| FIRE HYDRANT                  | ⊖ FH     | ⊖        |
| WATER VALVE                   | ⊖ WV     | ⊖        |
| THRUST BLOCK                  |          | ⊖        |
| SANITARY SEWER STRUCTURE I.D. |          | ⊖        |
| STORM SEWER STRUCTURE I.D.    |          | ⊖        |

**UTILITY NOTES**

- ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH ALL CITY OF WILMINGTON STANDARDS AND SPECIFICATIONS.
- INSTALL WATERMAINS WITH A COVER OF NO LESS THAN 4'-FT. INSTALL WATER SERVICES WITH NO LESS THAN 18-IN OF COVER TO SUBGRADE.
- INSTALL SEWER MAINS WITH A COVER OF NO LESS THAN 3'-FT TO FINISHED GRADE UNLESS DUCTILE IRON PIPE IS USED. INSTALL SEWER SERVICES WITH NO LESS THAN 18-IN OF COVER TO SUBGRADE.
- INSTALL ALL UTILITIES TO PROVIDE REQUIRED CLEARANCES AS INDICATED IN THE SPECIFICATIONS.
- WATERLINES AND SEWER MAINS SHALL BE INSTALLED WITH A MINIMUM HORIZONTAL CLEARANCE OF 10'-FT.
- WATER AND SEWER MAINS SHALL BE INSTALLED WITH A MINIMUM VERTICAL CLEARANCE OF 12"-IN TO STORM DRAINAGE PIPES.
- COORDINATE AND SCHEDULE INSTALLATION OF ALL UTILITIES WITH OTHER PRIME CONTRACTORS, UTILITY COMPANIES AND OTHER TRADES INCLUDING BUT NOT LIMITED TO: NATURAL GAS, ELECTRICITY, TELEPHONE AND CATV.
- VERIFY EXISTING CONDITIONS AND CONNECTIONS TO EXISTING UTILITIES PRIOR TO CONSTRUCTION. NOTIFY ARCHITECT IF ANY DISCREPANCIES ARE DISCOVERED.
- CONTRACTOR IS RESPONSIBLE FOR ALL DAMAGES DURING CONSTRUCTION AND SHALL MAKE REPAIRS AT NO EXPENSE TO THE OWNER.
- ALL CONSTRUCTION SHALL COMPLY WITH ALL APPLICABLE NCSCC AND OSHA REQUIREMENTS.
- THE CONTRACTOR SHALL PROVIDE AN AS-BUILT SURVEY OF ALL UTILITY AND STORM DRAINAGE IMPROVEMENTS FOLLOWING CONSTRUCTION.
- CONTRACTOR SHALL PHASE DEMOLITION AND NEW CONSTRUCTION TO ENSURE UNINTERRUPTED ACCESS AND UTILITY SERVICE TO ADJACENT FACILITIES. COORDINATE SHORT-TERM, OFF-HOUR, TEMPORARY SHUT-DOWNS WITH THE OWNER.
- SEE GENERAL NOTES ON EXISTING CONDITIONS AND DEMOLITION PLAN FOR REQUIREMENTS FOR REMOVAL AND PATCHING OF PAVEMENT FOR UTILITY INSTALLATION.
- ALL SANITARY SEWER SERVICES SHALL BE 4" PVC (SCH 40) @ 1.04% MIN. SLOPE UNLESS INDICATED OTHERWISE. USE DUCTILE IRON WHEN COVER IS LESS THAN 24"-IN.

**KEY NOTES**

- 6" FERRO MASTER SERIES LP88V REDUCED PRESSURE ZONE DETECTOR ASSEMBLY (RPZDA) OR APPROVED EQUAL WITHIN HEATED ENCLOSURE. SEE DETAIL SHEET CS.04 AND ELEC. PLANS FOR ADDITIONAL INFO.
  - FIRE HYDRANT ASSEMBLY. SEE DETAIL SHEET CS.04.
  - GATE VALVE AND VALVE BOX. SEE DETAIL SHEET 5.04.
  - CONTRACTOR SHALL COORDINATE TEMPORARY SHUTDOWN OF EXISTING WATER SYSTEM WITH OWNER AND OPTICAL SURVEY EXISTING MAIN, INSTALL TEE, GATE VALVE, BLOCKING AND APPURTENANCES IN ACCORDANCE WITH OPTICAL REQUIREMENTS.
  - THRUST BLOCKING, TYP. SEE DETAIL SHEET CS.05.
  - FIRE DEPARTMENT CONNECTION ON BUILDING WALL. SEE FIRE PROTECTION PLANS.
  - POST INDICATOR VALVE WITH TAMPER SWITCH. SEE ELECTRICAL PLANS FOR ADDITIONAL INFO.
  - EXTEND UTILITY TO WITHIN 5'-0" OF BUILDING WALL OR AS INDICATED ON PLUMBING PLANS. REFER TO PLUMBING PLANS FOR EXACT LOCATION AND INVERT ELEVATION. SEE DETAIL SHEET CS.02.
  - 2" ZURN 975SL REDUCED PRESSURE ASSEMBLY BACKFLOW PREVENTER OR APPROVED EQUAL WITHIN HEATED ENCLOSURE. SEE DETAIL SHEET CS.04 AND ELECTRICAL PLANS FOR ADDITIONAL INFORMATION.
- ALL PAVEMENT OR CONCRETE TO BE REMOVED SHALL BE SAW CUT TO PROVIDE A STRAIGHT AND UNIFORM JOINT WITH NEW CONSTRUCTION. ANY EXISTING PAVEMENT, SIDEWALK, CURB & GUTTER, ETC. THAT MUST BE REMOVED TO ALLOW NEW CONSTRUCTION SHALL BE REMOVED AND REPAIRED PER THE SPECIFICATIONS AND DETAILS OR TO MATCH EXISTING CONDITIONS (WHETHER OR NOT SHOWN ON THE DRAWINGS TO BE REMOVED). UTILITY INSTALLATIONS MAY UTILIZE OPEN CUT OF PAVEMENTS UNLESS INDICATED OTHERWISE. TRENCH IN EXISTING ASPHALT SHALL BE PATCHED PER PAVEMENT REPAIR DETAIL.

