



ALL OF ALL EXISTING AND PROPOSED SERVICES ARE APPROXIMATE AND MUST BE CONFIRMED INDEPENDENTLY WITH LOCAL UTILITY COMPANIES PRIOR TO COMMENCEMENT OF ANY CONSTRUCTION OR EXCAVATION. SANITARY SEWER AND ALL OTHER UTILITY SERVICE CONNECTION POINTS SHALL BE CONFIRMED BY THE CONTRACTOR IN ACCORDANCE WITH THE CITY OF CHICAGO'S STANDARD SPECIFICATIONS FOR CONSTRUCTION. ALL DISCREPANCIES SHALL BE REPORTED IMMEDIATELY IN WRITING TO THE ENGINEER. CONSTRUCTION SHALL COMMENCE BEGINNING AT THE LOWEST INVERT (POINT OF CONNECTION) AND PROGRESS UP GRADIENT. INTERFACE POINTS (CROSSINGS) WITH EXISTING UNDERGROUND UTILITIES SHALL BE FIELD VERIFIED BY TEST PIT PRIOR TO COMMENCEMENT OF CONSTRUCTION.

IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY UTILITY "ONE-CALL" NUMBER 72 HOURS PRIOR TO ANY EXCAVATION ON THIS SITE. CONTRACTOR SHALL ALSO NOTIFY LOCAL WATER & SEWER DEPARTMENTS TO MARK-OUT THEIR UTILITIES.

BE REFERRED TO ARCHITECTURAL DRAWINGS FOR EXIST BUILDING UTILITY CONNECTION LOCATIONS, WHERE CONFLICTS EXIST WITH THESE SITE PLANS, ENGINEER IS TO BE NOTIFIED PRIOR TO CONSTRUCTION TO RESOLVE SAME. SERVICE SEIZES TO BE DETERMINED BY ARCHITECT.

WATER SERVICE MATERIALS SHALL BE SPECIFIED BY THE LOCAL UTILITY COMPANY. CONNECTIONS PIPE FOR WATER SERVICE SHALL INCLUDE ALL FEES AND EXPENSES REQUIRED BY THE UTILITY TO PROVIDE A COMPLETE WORKING SERVICE.

ALL WATER MAIN SHALL BE CEMENT-UNION, CLASS 52 DUCTILE IRON PIPE, UNLESS OTHERWISE DESIGNATED.

THE MINIMUM DIAMETER FOR DOMESTIC WATER SERVICES SHALL BE 1 INCH.

SEWER MAINS SHALL BE SEPARATED FROM WATER MAINS BY A DISTANCE OF AT LEAST 10 FEET HORIZONTALLY. WHERE THIS IS NOT POSSIBLE, THE PIPES SHALL BE IN SEPARATE TRENCHES WITH THE SEWER MAIN AT LEAST 18 INCHES BELOW THE WATER MAIN. ALL SEWER MAINS SHALL BE SDR-35 PIPE UNLESS OTHERWISE DESIGNATED.

ALL SEWER PIPE INSTALLED WITH LESS THAN 3 FEET OF COVER, GREATER THAN 2 FEET OF COVER OR WITHIN 18 INCHES OF A WATER MAIN SHALL BE CONSTRUCTED OF DUCTILE IRON PIPE. ALL DUCTILE IRON SEWER PIPE SHALL BE CEMENT-UNION, CLASS 52 PIPE, FURNISHED WITH SEWER COAT, OR APPROVED EQUAL.

WHERE SANITARY SEWER LATERALS ARE GREATER THAN 10" DEEP AT CONNECTION TO THE SEWER MAIN, CONTRACTOR DEEP LATERAL CONNECTIONS ARE TO BE UTILIZED.

THE CONTRACTOR IS RESPONSIBLE FOR THE STABILIZATION OF THE EXISTING SEWER MAIN, STRUCTURES AND APPURTENANCES DURING CONNECTION.

1. LOCATION & LAYOUT OF GAS, ELECTRIC & TELECOMMUNICATION UTILITY LINES AND SERVICES SHOWN ON THESE PLANS ARE SCHEMATIC IN NATURE. ACTUAL LOCATION & LAYOUT OF THESE UTILITIES & SERVICES ARE TO BE PER THE APPROPRIATE UTILITY PROVIDER.

2. ROOF LEADER COLLECTION PIPES ARE CONCEPTUAL IN UTILITY AND ARE NOT FOR CONSTRUCTION. ACTUAL ROOF LEADER COLLECTION PIPING IS TO BE COORDINATED BY ARCHITECTURAL PLANS FOR EACH INDIVIDUAL BUILDING. ALL ROOF LEADER COLLECTION PIPING SHALL BE SCHEDULE 40 PVC UNLESS OTHERWISE DESIGNATED.

ALL SEWER AND WATER FACILITIES SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE REGULATORY AGENCY'S RULES AND REGULATIONS.

ALL PROPOSED UTILITIES TO BE INSTALLED UNDERGROUND UNLESS OTHERWISE NOTED.

5.1. MANUFACTURED REINFORCED CONCRETE STORM PIPE TO CONFORM TO ASTM C-507, CLASS C-16, UNLESS OTHERWISE DESIGNATED. MANUFACTURED REINFORCED CONCRETE CIRCULPTIC STORM PIPE TO CONFORM TO PIPE C-507, CLASS C-16, UNLESS OTHERWISE DESIGNATED. REINFORCED CONCRETE STORMWATER PIPE TO BE CONSTRUCTED IN ACCORDANCE WITH AUSTRIAN STANDARD EN 12952. STORMWATER INSTALLATION GUIDELINES AND MONITOR OR PREFORMED FLEXIBLE JOINT SEALS IN ACCORDANCE WITH ASTM C990 TO BE UTILIZED TO PROVIDE A SLIT-TIGHT JOINT. WHERE SPECIFICALLY INDICATED, REINFORCED CONCRETE STORM PIPE JOINTS SHALL BE WATER-TIGHT AND CONFORM TO ASTM C-443.

5.2. HDPE DRAINAGE PIPE SHALL HAVE A SMOOTH WALL INTERIOR WITH ANNULAR EXTERIOR CORRUGATIONS AND CONFORM TO ASTM F2306. SOLID PIPE SHALL HAVE CORRUGATIONS VERTICALLY AND CONFORM TO ASTM F2306 AND ASTM D3212. PERFORATED PIPE SHALL HAVE GASKETED SLIT-TIGHT JOINTS MEETING THE REQUIREMENTS OF ASTM F2306 AND ASTM F472. HDPE PIPE SHALL BE FROM A MANUFACTURER WHO IS AN EASTERN STATES CONSORTIUM (ESC) QUALIFIED MANUFACTURER OF HDPE PIPE AND INSTALLED IN ACCORDANCE WITH PIPE MANUFACTURER RECOMMENDATIONS.

5.3. HDPE DRAINAGE PIPE SHALL HAVE A SMOOTH WALL INTERIOR WITH ANNULAR EXTERIOR CORRUGATIONS AND CONFORM TO ASTM F2375 (12"-30" PIPE) AND ASTM F2881 (36"-60" PIPE). PIPE SHALL HAVE GASKETED WATER-TIGHT JOINTS MEETING THE REQUIREMENTS OF ASTM D3212 AND ASTM F472. FIELD WATER TIGHTNESS CORROSION VERIFICATION MAY BE ACCOMPLISHED IN ACCORDANCE WITH ASTM F4767. HDPE PIPE SHALL BE FROM A MANUFACTURER WHO IS AN EASTERN STATES CONSORTIUM (ESC) QUALIFIED MANUFACTURER OF HDPE PIPE AND INSTALLED IN ACCORDANCE WITH PIPE MANUFACTURER RECOMMENDATIONS.

5.4. PIPE LENGTHS ON THIS PLAN HAVE BEEN MEASURED AS THE DISTANCE BETWEEN THE CENTER POINT OF THE 2 CONNECTED STRUCTURES. ACTUAL PHYSICAL PIPE LENGTH FOR INSTALLATION IS EXPECTED TO BE LESS AND SHOULD BE ACCOUNTED FOR BY THE CONTRACTOR ACCORDINGLY.

Crossing #	Pipe 1 - Top of Pipe	Pipe 2 - Bottom of Pipe	Separation
1	6" SAN. PVC Pipe: 88.01'	12" STM. HDPE Pipe: 90.95'	2.94'
2	6" SAN. PVC Pipe: 88.96'	15" STM. HDPE Pipe: 91.14'	2.18'
3	6" SAN. PVC Pipe: 90.64'	6" STM. PVC Pipe: 94.24'	3.60'
4	18" STM. HDPE Pipe: 91.97	15" STM. HDPE Pipe: 93.47'	1.50'

