
附录 A. 1 工程计量(BIM) XML 文件

```
<?xml version="1.0" encoding="UTF-8"?>
<xs:schema xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType name="ConstructionProject">
    <xs:annotation>
      <xs:documentation>建设项目</xs:documentation>
    </xs:annotation>
    <xs:sequence>
      <xs:choice>
        <xs:element ref="Site"/>
        <xs:element ref="Building"/>
      </xs:choice>
      <xs:element ref="BaseData"/>
    </xs:sequence>
    <xs:attribute name="Number" type="xs:string" use="required">
      <xs:annotation>
        <xs:documentation>项目编号</xs:documentation>
      </xs:annotation>
    </xs:attribute>
    <xs:attribute name="Name" type="xs:string" use="required">
      <xs:annotation>
        <xs:documentation>项目名称</xs:documentation>
      </xs:annotation>
    </xs:attribute>
    <xs:attribute name="StartDate" type="xs:date">
      <xs:annotation>
        <xs:documentation>开工时间</xs:documentation>
      </xs:annotation>
    </xs:attribute>
    <xs:attribute name="BillDataBase" type="xs:string">
      <xs:annotation>
        <xs:documentation>清单规则库</xs:documentation>
      </xs:annotation>
    </xs:attribute>
    <xs:attribute name="NormDataBase" type="xs:string">
      <xs:annotation>
        <xs:documentation>定额规则库</xs:documentation>
      </xs:annotation>
    </xs:attribute>
    <xs:attribute name="MeasurementMode" type="xs:int" use="required">
      <xs:annotation>
```

```
        <xs:documentation>计量模式</xs:documentation>
    </xs:annotation>
</xs:attribute>
<xs:attribute name="PersonVersionNo" type="xs:string">
    <xs:annotation>
        <xs:documentation>版本编号</xs:documentation>
    </xs:annotation>
</xs:attribute>
<xs:attribute name="PersonFamilyName" type="xs:string">
    <xs:annotation>
        <xs:documentation>所属部门</xs:documentation>
    </xs:annotation>
</xs:attribute>
<xs:attribute name="PersonGivenName" type="xs:string">
    <xs:annotation>
        <xs:documentation>作者姓名</xs:documentation>
    </xs:annotation>
</xs:attribute>
<xs:attribute name="PersonMakeDate" type="xs:date">
    <xs:annotation>
        <xs:documentation>创建时间</xs:documentation>
    </xs:annotation>
</xs:attribute>
<xs:attribute name="OrganizationName" type="xs:string">
    <xs:annotation>
        <xs:documentation>软件公司名称</xs:documentation>
    </xs:annotation>
</xs:attribute>
<xs:attribute name="AppFullName" type="xs:string">
    <xs:annotation>
        <xs:documentation>软件名称</xs:documentation>
    </xs:annotation>
</xs:attribute>
<xs:attribute name="AppVersion" type="xs:string">
    <xs:annotation>
        <xs:documentation>软件版本号</xs:documentation>
    </xs:annotation>
</xs:attribute>
<xs:attribute name="AppIdentifier" type="xs:string">
    <xs:annotation>
        <xs:documentation>识别符</xs:documentation>
    </xs:annotation>
</xs:attribute>
<xs:attribute name="ID" type="xs:string">
```

```

    <xs:annotation>
      <xs:documentation>项目唯一ID</xs:documentation>
    </xs:annotation>
  </xs:attribute>
</xs:complexType>
<xs:element name="Quantities">
  <xs:annotation>
    <xs:documentation>工程量汇总</xs:documentation>
  </xs:annotation>
  <xs:complexType>
    <xs:sequence>
      <xs:element ref="BillTotal"/>
      <xs:element ref="CompQtyTotal"/>
      <xs:element ref="SteelTotal"/>
      <xs:element ref="SteelTieinTotal"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
<xs:element name="BillTotal">
  <xs:annotation>
    <xs:documentation>清单/定额工程量汇总</xs:documentation>
  </xs:annotation>
  <xs:complexType>
    <xs:sequence minOccurs="0">
      <xs:element ref="BillItem" minOccurs="0"/>
    </xs:sequence>
    <xs:attribute name="ID" type="xs:integer" use="required">
      <xs:annotation>
        <xs:documentation>编号</xs:documentation>
      </xs:annotation>
    </xs:attribute>
    <xs:attribute name="PID" type="xs:integer" use="required">
      <xs:annotation>
        <xs:documentation>父系编号</xs:documentation>
      </xs:annotation>
    </xs:attribute>
    <xs:attribute name="Code" use="required">
      <xs:annotation>
        <xs:documentation>清单（定额）编号</xs:documentation>
      </xs:annotation>
      <xs:simpleType>
        <xs:restriction base="xs:string">
          <xs:length value="12"/>
        </xs:restriction>
      </xs:simpleType>
    </xs:attribute>
  </xs:complexType>
</xs:element>

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```

        </xs:simpleType>
    </xs:attribute>
    <xs:attribute name="Name" use="required">
        <xs:annotation>
            <xs:documentation>清单（定额）名称</xs:documentation>
        </xs:annotation>
        <xs:simpleType>
            <xs:restriction base="xs:string"/>
        </xs:simpleType>
    </xs:attribute>
    <xs:attribute name="Attr" type="xs:string">
        <xs:annotation>
            <xs:documentation>项目特征</xs:documentation>
        </xs:annotation>
    </xs:attribute>
    <xs:attribute name="Content" type="xs:string">
        <xs:annotation>
            <xs:documentation>工作内容</xs:documentation>
        </xs:annotation>
    </xs:attribute>
    <xs:attribute name="QuantityKind" use="required">
        <xs:annotation>
            <xs:documentation>工程量类型</xs:documentation>
        </xs:annotation>
        <xs:simpleType>
            <xs:restriction base="xs:string">
                <xs:enumeration value="1: 定额"/>
                <xs:enumeration value="2: 清单"/>
                <xs:enumeration value="3: 其它"/>
            </xs:restriction>
        </xs:simpleType>
    </xs:attribute>
    <xs:attribute name="Unit" type="xs:string" use="required">
        <xs:annotation>
            <xs:documentation>单位</xs:documentation>
        </xs:annotation>
    </xs:attribute>
    <xs:attribute name="Quantity" type="xs:double" use="required">
        <xs:annotation>
            <xs:documentation>工程量</xs:documentation>
        </xs:annotation>
    </xs:attribute>
    <xs:attribute name="Remark" type="xs:string" use="optional">
        <xs:annotation>

```

```

        <xs:documentation>备注</xs:documentation>
    </xs:annotation>
</xs:attribute>
</xs:complexType>
</xs:element>
<xs:element name="BillItem">
    <xs:annotation>
        <xs:documentation>清单/定额工程量明细</xs:documentation>
    </xs:annotation>
    <xs:complexType>
        <xs:attribute name="ID" type="xs:string" use="required">
            <xs:annotation>
                <xs:documentation>编号</xs:documentation>
            </xs:annotation>
        </xs:attribute>
        <xs:attribute name="PID" type="xs:integer" use="required"/>
        <xs:attribute name="FloorName" type="xs:string">
            <xs:annotation>
                <xs:documentation>楼层名称</xs:documentation>
            </xs:annotation>
        </xs:attribute>
        <xs:attribute name="CompID" type="xs:string" use="required">
            <xs:annotation>
                <xs:documentation>构件编号</xs:documentation>
            </xs:annotation>
        </xs:attribute>
        <xs:attribute name="Unit" type="xs:string" use="required">
            <xs:annotation>
                <xs:documentation>单位</xs:documentation>
            </xs:annotation>
        </xs:attribute>
        <xs:attribute name="Express" type="xs:string">
            <xs:annotation>
                <xs:documentation>工程量表达式</xs:documentation>
            </xs:annotation>
        </xs:attribute>
        <xs:attribute name="Quantity" type="xs:double" use="required">
            <xs:annotation>
                <xs:documentation>工程量</xs:documentation>
            </xs:annotation>
        </xs:attribute>
        <xs:attribute name="QuantityKind" use="required">
            <xs:annotation>

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```

        <xs:documentation>工程量类型</xs:documentation>
    </xs:annotation>
    <xs:simpleType>
        <xs:restriction base="xs:string">
            <xs:enumeration value="1: 定额"/>
            <xs:enumeration value="2: 清单"/>
            <xs:enumeration value="3: 其它"/>
        </xs:restriction>
    </xs:simpleType>
</xs:attribute>
<xs:attribute name="Remark" type="xs:string" use="optional">
    <xs:annotation>
        <xs:documentation>备注</xs:documentation>
    </xs:annotation>
</xs:attribute>
</xs:complexType>
</xs:element>
<xs:element name="CompQtyTotal">
    <xs:annotation>
        <xs:documentation>构件工程量汇总</xs:documentation>
    </xs:annotation>
    <xs:complexType>
        <xs:sequence>
            <xs:element ref="CompQtyItem" minOccurs="0"/>
        </xs:sequence>
        <xs:attribute name="CompType" type="xs:string" use="required">
            <xs:annotation>
                <xs:documentation>构件类型</xs:documentation>
            </xs:annotation>
        </xs:attribute>
        <xs:attribute name="Name" use="required">
            <xs:annotation>
                <xs:documentation>混凝土清单名称</xs:documentation>
            </xs:annotation>
            <xs:simpleType>
                <xs:restriction base="xs:string"/>
            </xs:simpleType>
        </xs:attribute>
        <xs:attribute name="Express" type="xs:string">
            <xs:annotation>
                <xs:documentation>工程量表达式</xs:documentation>
            </xs:annotation>
        </xs:attribute>
        <xs:attribute name="Unit" type="xs:string" use="required">

```

```

        <xs:annotation>
            <xs:documentation>单位</xs:documentation>
        </xs:annotation>
    </xs:attribute>
    <xs:attribute name="Quantity" type="xs:double" use="required">
        <xs:annotation>
            <xs:documentation>工程量</xs:documentation>
        </xs:annotation>
    </xs:attribute>
    <xs:attribute name="Remark" type="xs:string" use="optional">
        <xs:annotation>
            <xs:documentation>备注</xs:documentation>
        </xs:annotation>
    </xs:attribute>
</xs:complexType>
</xs:element>
<xs:element name="CompQtyItem">
    <xs:annotation>
        <xs:documentation>构件工程量明细</xs:documentation>
    </xs:annotation>
    <xs:complexType>
        <xs:attribute name="CompID" type="xs:string">
            <xs:annotation>
                <xs:documentation>构件ID</xs:documentation>
            </xs:annotation>
        </xs:attribute>
        <xs:attribute name="Name" use="required">
            <xs:annotation>
                <xs:documentation>混凝土清单名称</xs:documentation>
            </xs:annotation>
            <xs:simpleType>
                <xs:restriction base="xs:string"/>
            </xs:simpleType>
        </xs:attribute>
        <xs:attribute name="Express" type="xs:string">
            <xs:annotation>
                <xs:documentation>工程量表达式</xs:documentation>
            </xs:annotation>
        </xs:attribute>
        <xs:attribute name="Unit" type="xs:string" use="required">
            <xs:annotation>
                <xs:documentation>单位</xs:documentation>
            </xs:annotation>
        </xs:attribute>
    </xs:complexType>
</xs:element>

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```

<xs:attribute name="Quantity" type="xs:double" use="required">
  <xs:annotation>
    <xs:documentation>数量</xs:documentation>
  </xs:annotation>
</xs:attribute>
<xs:attribute name="Remark" type="xs:string">
  <xs:annotation>
    <xs:documentation>备注</xs:documentation>
  </xs:annotation>
</xs:attribute>
<xs:attribute name="FloorName" type="xs:string">
  <xs:annotation>
    <xs:documentation>楼层</xs:documentation>
  </xs:annotation>
</xs:attribute>
</xs:complexType>
</xs:element>
<xs:element name="SteelTieinTotal">
  <xs:annotation>
    <xs:documentation>钢筋接头汇总</xs:documentation>
  </xs:annotation>
  <xs:complexType>
    <xs:attribute name="Name" type="xs:string" use="required">
      <xs:annotation>
        <xs:documentation>搭接形式</xs:documentation>
      </xs:annotation>
    </xs:attribute>
    <xs:attribute name="FloorName" type="xs:string" use="required">
      <xs:annotation>
        <xs:documentation>楼层名称</xs:documentation>
      </xs:annotation>
    </xs:attribute>
    <xs:attribute name="CompType" type="xs:string" use="required">
      <xs:annotation>
        <xs:documentation>构件类型</xs:documentation>
      </xs:annotation>
    </xs:attribute>
    <xs:attribute name="Dia" type="xs:string" use="required">
      <xs:annotation>
        <xs:documentation>钢筋直径</xs:documentation>
      </xs:annotation>
    </xs:attribute>
    <xs:attribute name="Num" type="xs:integer" use="required">
      <xs:annotation>

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```

        <xs:documentation>搭接数量</xs:documentation>
      </xs:annotation>
    </xs:attribute>
  </xs:complexType>
</xs:element>
<xs:element name="SteelTotal">
  <xs:annotation>
    <xs:documentation>钢筋工程量汇总</xs:documentation>
  </xs:annotation>
  <xs:complexType>
    <xs:sequence minOccurs="0">
      <xs:element ref="SteelItem" minOccurs="0" maxOccurs="unbounded"/>
    </xs:sequence>
    <xs:attribute name="CompType" type="xs:string" use="required">
      <xs:annotation>
        <xs:documentation>构件类型</xs:documentation>
      </xs:annotation>
    </xs:attribute>
    <xs:attribute name="Level" type="xs:string" use="required">
      <xs:annotation>
        <xs:documentation>钢筋级别</xs:documentation>
      </xs:annotation>
    </xs:attribute>
    <xs:attribute name="Dia" type="xs:string" use="required">
      <xs:annotation>
        <xs:documentation>钢筋直径</xs:documentation>
      </xs:annotation>
    </xs:attribute>
    <xs:attribute name="Weight" type="xs:double" use="required">
      <xs:annotation>
        <xs:documentation>钢筋重量</xs:documentation>
      </xs:annotation>
    </xs:attribute>
    <xs:attribute name="Unit" type="xs:string" use="required">
      <xs:annotation>
        <xs:documentation>单位</xs:documentation>
      </xs:annotation>
    </xs:attribute>
  </xs:complexType>
</xs:element>
<xs:element name="SteelItem">
  <xs:annotation>
    <xs:documentation>钢筋工程量明细</xs:documentation>
  </xs:annotation>

```

```

<xs:complexType>
  <xs:attribute name="CompID" type="xs:string" use="required">
    <xs:annotation>
      <xs:documentation>构件ID</xs:documentation>
    </xs:annotation>
  </xs:attribute>
  <xs:attribute name="FloorName" type="xs:string">
    <xs:annotation>
      <xs:documentation>楼层</xs:documentation>
    </xs:annotation>
  </xs:attribute>
  <xs:attribute name="Name" use="required">
    <xs:annotation>
      <xs:documentation>钢筋名称</xs:documentation>
    </xs:annotation>
    <xs:simpleType>
      <xs:restriction base="xs:string">
        <xs:length value="255"/>
      </xs:restriction>
    </xs:simpleType>
  </xs:attribute>
  <xs:attribute name="Desc" type="xs:string">
    <xs:annotation>
      <xs:documentation>钢筋描述</xs:documentation>
    </xs:annotation>
  </xs:attribute>
  <xs:attribute name="Level" use="required">
    <xs:annotation>
      <xs:documentation>钢筋等级</xs:documentation>
    </xs:annotation>
    <xs:simpleType>
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        <xs:length value="10"/>
      </xs:restriction>
    </xs:simpleType>
  </xs:attribute>
  <xs:attribute name="Dia" use="required">
    <xs:annotation>
      <xs:documentation>钢筋直径</xs:documentation>
    </xs:annotation>
    <xs:simpleType>
      <xs:restriction base="xs:string">
        <xs:length value="255"/>
      </xs:restriction>
    </xs:simpleType>
  </xs:attribute>

```

```

        </xs:simpleType>
    </xs:attribute>
    <xs:attribute name="Num" type="xs:int" use="required">
        <xs:annotation>
            <xs:documentation>钢筋数量</xs:documentation>
        </xs:annotation>
    </xs:attribute>
    <xs:attribute name="Len" type="xs:int" use="required">
        <xs:annotation>
            <xs:documentation>钢筋长度</xs:documentation>
        </xs:annotation>
    </xs:attribute>
    <xs:attribute name="SingleWeight" type="xs:double" use="required">
        <xs:annotation>
            <xs:documentation>钢筋单重</xs:documentation>
        </xs:annotation>
    </xs:attribute>
    <xs:attribute name="TotalWeight" type="xs:double">
        <xs:annotation>
            <xs:documentation>钢筋总重</xs:documentation>
        </xs:annotation>
    </xs:attribute>
    <xs:attribute name="TieinNum" type="xs:int">
        <xs:annotation>
            <xs:documentation>搭接数</xs:documentation>
        </xs:annotation>
    </xs:attribute>
    <xs:attribute name="TieinType">
        <xs:annotation>
            <xs:documentation>搭接形式</xs:documentation>
        </xs:annotation>
        <xs:simpleType>
            <xs:restriction base="xs:string">
                <xs:length value="255"/>
            </xs:restriction>
        </xs:simpleType>
    </xs:attribute>
</xs:complexType>
</xs:element>
<xs:element name="Site">
    <xs:annotation>
        <xs:documentation>区域</xs:documentation>
    </xs:annotation>
</xs:complexType>

```

```

<xs:sequence>
  <xs:element ref="Building" maxOccurs="unbounded">
    <xs:annotation>
      <xs:documentation>建筑项目（单位工程）</xs:documentation>
    </xs:annotation>
  </xs:element>
</xs:sequence>
<xs:attribute name="Number" type="xs:string">
  <xs:annotation>
    <xs:documentation>区域编号</xs:documentation>
  </xs:annotation>
</xs:attribute>
<xs:attribute name="Name" use="required">
  <xs:annotation>
    <xs:documentation>区域名称</xs:documentation>
  </xs:annotation>
  <xs:simpleType>
    <xs:restriction base="xs:string">
      <xs:enumeration value="区域1"/>
    </xs:restriction>
  </xs:simpleType>
</xs:attribute>
<xs:attribute name="Description">
  <xs:annotation>
    <xs:documentation>描述</xs:documentation>
  </xs:annotation>
  <xs:simpleType>
    <xs:restriction base="xs:string">
      <xs:enumeration value=""/>
    </xs:restriction>
  </xs:simpleType>
</xs:attribute>
<xs:attribute name="Address">
  <xs:annotation>
    <xs:documentation>地址</xs:documentation>
  </xs:annotation>
  <xs:simpleType>
    <xs:restriction base="xs:string">
      <xs:enumeration value=""/>
    </xs:restriction>
  </xs:simpleType>
</xs:attribute>
</xs:complexType>
</xs:element>

```

```

<xs:element name="Building">
  <xs:annotation>
    <xs:documentation>建筑物</xs:documentation>
  </xs:annotation>
  <xs:complexType>
    <xs:sequence>
      <xs:element ref="BuildingFloor" maxOccurs="unbounded">
        <xs:annotation>
          <xs:documentation>建筑楼层</xs:documentation>
        </xs:annotation>
      </xs:element>
      <xs:element ref="Quantities"/>
    </xs:sequence>
    <xs:attribute name="Name" type="xs:string" use="required">
      <xs:annotation>
        <xs:documentation>工程名称</xs:documentation>
      </xs:annotation>
    </xs:attribute>
    <xs:attribute name="Description">
      <xs:annotation>
        <xs:documentation>描述</xs:documentation>
      </xs:annotation>
      <xs:simpleType>
        <xs:restriction base="xs:string">
          <xs:enumeration value=""/>
        </xs:restriction>
      </xs:simpleType>
    </xs:attribute>
  </xs:complexType>
</xs:element>
<xs:element name="BuildingFloor">
  <xs:annotation>
    <xs:documentation>建筑物楼层</xs:documentation>
  </xs:annotation>
  <xs:complexType>
    <xs:sequence>
      <xs:element ref="Component" maxOccurs="unbounded">
        <xs:annotation>
          <xs:documentation>构件</xs:documentation>
        </xs:annotation>
      </xs:element>
    </xs:sequence>
    <xs:attribute name="Name" type="xs:string" use="required">
      <xs:annotation>

```

```

        <xs:documentation>楼层名称</xs:documentation>
    </xs:annotation>
</xs:attribute>
<xs:attribute name="Type" type="xs:integer" use="required">
    <xs:annotation>
        <xs:documentation>楼层类型</xs:documentation>
    </xs:annotation>
</xs:attribute>
<xs:attribute name="Num" type="xs:integer" use="required">
    <xs:annotation>
        <xs:documentation>层数</xs:documentation>
    </xs:annotation>
</xs:attribute>
<xs:attribute name="Height" type="xs:double" use="required">
    <xs:annotation>
        <xs:documentation>楼层高度</xs:documentation>
    </xs:annotation>
</xs:attribute>
<xs:attribute name="Elevation" type="xs:double" use="required">
    <xs:annotation>
        <xs:documentation>楼层底标高</xs:documentation>
    </xs:annotation>
</xs:attribute>
<xs:attribute name="Description">
    <xs:annotation>
        <xs:documentation>描述</xs:documentation>
    </xs:annotation>
    <xs:simpleType>
        <xs:restriction base="xs:string">
            <xs:enumeration value=""/>
        </xs:restriction>
    </xs:simpleType>
</xs:attribute>
</xs:complexType>
</xs:element>
<xs:element name="Component">
    <xs:annotation>
        <xs:documentation>构件</xs:documentation>
    </xs:annotation>
    <xs:complexType>
        <xs:sequence>
            <xs:element ref="Geometrys"/>
            <xs:element ref="ComponentParams"/>
            <xs:element ref="Component"/>

```

```

</xs:sequence>
<xs:attribute name="ID" use="required">
  <xs:annotation>
    <xs:documentation>构件ID</xs:documentation>
  </xs:annotation>
  <xs:simpleType>
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      <xs:enumeration
value="00356850C3BD44B3A477776E5AA0B23C"/>
      <xs:enumeration
value="00E94F92D9D647D5BF0940929DCEEBCF"/>
      <xs:enumeration
value="00EF7851D31F423BADCA491A7FD6DF34"/>
      <xs:enumeration value="02D11885C7A0461CB4399CB1007F3F6A"/>
      <xs:enumeration value="031823C1F7F84444B2E14FC248999E14"/>
      <xs:enumeration
value="09B277B3D6684CAB9A7DF4F1CD15E4B9"/>
      <xs:enumeration
value="09C1AD45A96E4E8AACAB543A561F10B7"/>
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      <xs:enumeration value="0E7390224ED04429A5DE5F906B394C62"/>
      <xs:enumeration value="0EE0673219394A56A5A8C5C30C00E205"/>
      <xs:enumeration
value="0F9C2756791D4B9EB6BD6BE7347D0F08"/>
      <xs:enumeration
value="0FCBD1E4AABC4D648F10FEE4F8F464D0"/>
      <xs:enumeration
value="10FFC82AEFF4487DAA01C0333FC4A040"/>
      <xs:enumeration
value="1239D8ECE18E417AA45A84FD5D8248AE"/>
      <xs:enumeration
value="1330A4C1794B43F5BA2FADF3E384E0FA"/>
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      <xs:enumeration value="16F9FDE9ADC14993A81070F918B07420"/>
      <xs:enumeration value="17B9814C6EB34698A402E1329EFC599B"/>
      <xs:enumeration
value="1AAD5ABEAB16470E811905622058D2A2"/>
      <xs:enumeration
value="1B043A7C74D84B3085EEDE37C0D8DBEE"/>
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            <xs:annotation>
                <xs:documentation>坐标值列表</xs:documentation>
            </xs:annotation>
        </xs:attribute>
    </xs:complexType>
</xs:element>
<xs:element name="Body">
    <xs:annotation>
        <xs:documentation>几何体</xs:documentation>
    </xs:annotation>
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        <xs:attribute name="Start" type="xs:string" use="required">
            <xs:annotation>

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        <xs:documentation>起点面多义线</xs:documentation>
      </xs:annotation>
    </xs:attribute>
    <xs:attribute name="End" type="xs:string">
      <xs:annotation>
        <xs:documentation>终点面多义线</xs:documentation>
      </xs:annotation>
    </xs:attribute>
    <xs:attribute name="Path" type="xs:string" use="required">
      <xs:annotation>
        <xs:documentation>起点面到终点面的路径</xs:documentation>
      </xs:annotation>
    </xs:attribute>
  </xs:complexType>
</xs:element>
<xs:element name="Sphere">
  <xs:annotation>
    <xs:documentation>球体</xs:documentation>
  </xs:annotation>
  <xs:complexType>
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      <xs:annotation>
        <xs:documentation>圆心点</xs:documentation>
      </xs:annotation>
    </xs:attribute>
    <xs:attribute name="Radius" type="xs:string" use="required">
      <xs:annotation>
        <xs:documentation>半径</xs:documentation>
      </xs:annotation>
    </xs:attribute>
  </xs:complexType>
</xs:element>
<xs:element name="BaseData">
  <xs:annotation>
    <xs:documentation>基础数据</xs:documentation>
  </xs:annotation>
  <xs:complexType>
    <xs:sequence>
      <xs:element ref="Materials" maxOccurs="unbounded"/>
      <xs:element ref="CompTypes"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
<xs:element name="Materials">

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<xs:annotation>
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</xs:complexType>
</xs:element>
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  <xs:complexType>
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        <xs:documentation>材质库ID</xs:documentation>
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    </xs:attribute>
    <xs:attribute name="Name" type="xs:string" use="required">
      <xs:annotation>
        <xs:documentation>材质名称</xs:documentation>
      </xs:annotation>
    </xs:attribute>
    <xs:attribute name="FileFull" type="xs:string">
      <xs:annotation>
        <xs:documentation>材质图片路径及文件名称</xs:documentation>
      </xs:annotation>
    </xs:attribute>
    <xs:attribute name="Description" type="xs:string">
      <xs:annotation>
        <xs:documentation>描述</xs:documentation>
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    </xs:attribute>
    <xs:attribute name="Type" type="xs:string">
      <xs:annotation>
        <xs:documentation>材质类型</xs:documentation>
      </xs:annotation>
    </xs:attribute>
    <xs:attribute name="AuthorName" type="xs:string">
      <xs:annotation>
        <xs:documentation>制造商</xs:documentation>
      </xs:annotation>
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  </xs:complexType>
</xs:element>

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    <xs:attribute name="T" type="xs:integer">
      <xs:annotation>
        <xs:documentation>Transparency透明度</xs:documentation>
      </xs:annotation>
    </xs:attribute>
    <xs:attribute name="R" type="xs:integer">
      <xs:annotation>
        <xs:documentation>Red</xs:documentation>
      </xs:annotation>
    </xs:attribute>
    <xs:attribute name="G" type="xs:integer">
      <xs:annotation>
        <xs:documentation>Green</xs:documentation>
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    </xs:attribute>
    <xs:attribute name="B" type="xs:integer">
      <xs:annotation>
        <xs:documentation>Blue</xs:documentation>
      </xs:annotation>
    </xs:attribute>
  </xs:complexType>
</xs:element>
<xs:element name="CompTypes">
  <xs:annotation>
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  </xs:annotation>
  <xs:complexType>
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    <xs:attribute name="MaterialID" type="xs:string" use="required">
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        <xs:documentation>材质库ID</xs:documentation>
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</xs:element>
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  <xs:annotation>
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  </xs:annotation>
  <xs:complexType>
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</xs:element>
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  </xs:annotation>
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      </xs:annotation>
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  </xs:annotation>
  <xs:complexType>
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</xs:schema>