THE ASSOCIATED GENERAL CONTRACTORS OF AMERICA NATIONAL INSTITUTE OF BUILDING SCIENCES

agcXML

OWNER CONTRACTOR AGREEMENT
DATA SPECIFICATION AND SCHEMA

VERSION 1.0 MARCH 4, 2009

The agcXML Project

The Associated General Contractors of America

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1. OWNER CONTRACTOR AGREEMENT DIAGRAM

The agcXML <code>OwnerContractorAgreement</code> schema is discussed in this document as a class diagram using the Unified Modeling Language notation, UML. The document presents the overall structure of the agcXML schema and discusses its components and dependencies – particularly the interrelationship between the common layer for <code>aecXML</code> definitions, common <code>agcXML</code> definitions and the particular usage and extension for the <code>OwnerContractorAgreement</code> schema. It also shows where components from <code>ifcXML</code> are reused and where IFC based BIM information can be handled and mapped into <code>agcXML</code>.

1.1 The OwnerContractorAgreement schema

The OwnerContractorAgreement schema is the schema to be used for sending and receiving contractual documents between parties involved in electronic exchange of business messages. The schema deals with the variable part of contractual forms, not with the legal text itself. In scope are:

- The contract meta-data
- The standard contract data fields
- The reference to the contract section by contract type

In addition two other forms of electronic exchange of contractual documents are discussed, a document with alternations of the standard contractual text, and a document containing the contractual language as part of the exchange. In scope are:

- Reference to standard text with alternates
- Including of full contractual language as a blob within the exchange message

In both cases the actual formatting of the contractual text is not part of this schema development, only the metadata, the standard and variable contract data fields and the reference to the underlying contract type (the agcXML document number or similar).

1.1.1 Name space considerations

The following name spaces are assigned:

- ifcXML not part of the XML schema, will be handled by XSLT based mapping, when required
- aecXMLCOS:
 - xmlns:cos="http://www.aecXML.org/aecXML/cos"
- agcXMLCommon:
 - xmlns:agcxml="http://www.aecXML.org/agcXML/agcXMLCommon"
- OwnerContractorAgreement:
 - xmlns:agcoca="http://www.aecXML.org/agcXML/OwnerContractorAgreement"

1.2 The OwnerContractorAgreement root element

The root element of the xml exchange document is the OwnerContractorAgreement element. It is defined in the OwnerContractorAgreement name space, and inherits from the DocumentTransaction in the agcXMLCommon name space. All attributes and elements of DocumentTransaction are explained in the document "agcXML common definitions".

The OwnerContractorAgreement element adds the following application for payment specific elements:

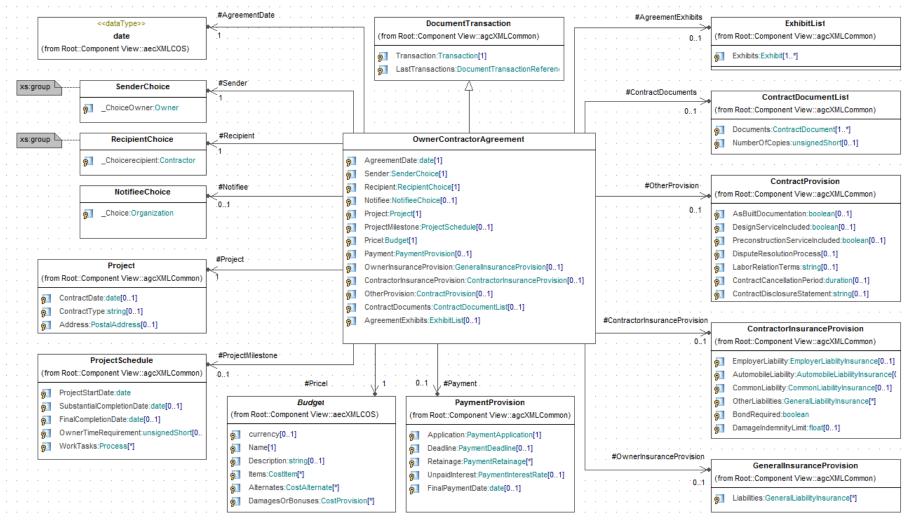


Figure 1: the root element Agreement in OwnerContractorAgreement name space

1.2.1 Basic document information

The OwnerContractorAgreement holds (if requested and/or provided by the contract form) the following information:

- The governing contract form (i.e. the contract template number for the boiler plate text)
- The agreement date
- The information about the parties of the agreement
 - The sender information, being:
 - Owner information
 - The recipient information, being:
 - Contractor information
 - The notifiee information, being zero or one of:
 - Architect information
 - Engineer information
- The project information, including
 - Project address
 - Project milestone dates
- The contract financial terms
 - Overall contract sum
 - Alternates to the contract sum
 - Unit cost items
 - Damage and/or bonus provisions
- Payment terms, including
 - Application for payment
 - Payment deadlines
 - Retainage
 - Interest rates
- Insurance, bond and indemnity provisions
 - Owner insurance
 - Contractor insurances
- The contract documents
- The exhibits to the contract

1.2.2 Governing form

The exchange of the owner contractor agreement is based on the standard forms published by the Associated General Contractors of America (AGC), by the American Institute of Architects (AIA), or other standard templates. The element GoverningForm is defined at Document.

It should be noted that the exchange of the boiler plate text that is included in the standard form is not facilitated by this schema. Proposed changes of the boiler plate text have to be exchanged in addition, e.g. by a referenced electronic document.

It identifies the underlying and governing form, which currently may be any one of the following:

 ConsensusDOCS 200 (formerly AGC Document 200) Owner/Contractor Standard Agreement & General Conditions (Lump Sum)

 Consensus DOCS 205 (formerly AGC Document 205) Owner/Contractor Agreement, Short Form (Lump Sum)

•	ConsensusDOCS 510 (formerly AGC Document 230)	Owner/Construction Manager Agreement formerly Owner/Contractor Agreement, (Cost plus PreConstruction Services Fee)
•	AGC Document 235	Short Form Agreement Between Owner & Contractor (Cost of Work)
•	AGC Document 250	Owner/Contractor Agreement (GMP plus optional Preconstruction Service Fee)
•	AIA Document A101	Owner/Contractor Agreement (Stipulated Sum)
•	AIA Document A105	Owner/Contractor Agreement for Small Project (Stipulated Sum)
•	AIA Document A107	Owner/Contractor Agreement, Limited Scope (Stipulated Sum)
•	AIA Document A111	Owner/Contractor Agreement (Cost plus with GMP)
•	AIA Document A114	Owner/Contractor Agreement (Cost plus with no GMP)

1.2.3 Agreement date

The date of the agreement is given by AgreementDate:date, based on xs:date datatype. The display of the date in either alphanumerical or digital form is chosen by the user interface of the participating software systems.

1.3 The parties involved in the agreement

An owner contractor agreement transaction is established between a sender, the owner, and a recipient, the contractor. In addition, others can be notified. Sender and recipient may also be the signatories of the agreement.

Information about organization and person information of the parties is provided in the document "agcXML common definitions" section "Person and organization".

1.3.1 The sender Information

The sender for the OwnerContractorAgreement is presented by the Owner. The information is accessible as Sender.

1.3.2 The recipient Information

The recipient for the OwnerContractorAgreement is presented by the Contractor. The information is accessible as Recipient.

1.3.3 The notifiee Information

Other parties may be notified of the OwnerContractorAgreement. Notifiees for the OwnerContractorAgreement can be Architect or Engineer. It is accessible as Notifiee. The notifiee information is optional, and can include zero or one notifiee.

1.3.4 Choice of roles for sender, recipient and notifiee

Information about Owner, Contractor, Engineer, and Architect is provided in the document "agcXML common definitions". The information about any of the actors may include an:

- Address (postal and/or telecom)
- License
- Representative
- Representative Signature

The information is independent of whether the organization is the sender, recipient or notifiee in this transaction.

1.4 The project information of the agreement

1.4.1 Project information

The ProjectInformation is provided by Project defined in agcXMLCommon name space. The minimum information provided within the OwnerContractorAgreement element should be Project.Name, .Description, .ProjectId, .ContractDate, and .Address.

Information about Project is provided in the document "agcXML common definitions", section "Project".

1.4.2 Project milestone dates

The project milestone is defined as ProjectSchedule in the agcXMLCommon name space. The structure allows reusing the common definitions of a schedule in agcXML within the OwnerContractorAgreement. Simplifications should be agreed upon within implementation agreements. The minimum information provided within the ProjectSchedule element should be ProjectStartDate, SubstantialCompletionDate, FinalCompletionDate, and OwnerTimeRequirement. Optionally a list of WorkTask's with individual StartDate and CompletionDate can be included.

Information about **ProjectSchedule** is provided in the document "agcXML common definitions", section "Schedule".

1.5 Contract sum

The overall sum of the agreement defines the budget and can be expressed by either:

- lump sum
- contractor's fee
- guaranteed maximum sum

In addition to the overall sum, unit costs may be provided. They can be part of the contract sum, or given in addition to the contract sum. These include:

- preconstruction services compensation
- unit prices
- allowances
- labor rates

For each budget a list of alternates can be provided, being either accepted or outstanding alternates. They can be itemized, if appropriate.

- accepted alternates
- outstanding alternates

Additional liquidated damage provisions or bonus provisions are included.

The basis contract sum schema is therefore structured into different element types for the overall contract sum, different types of individual unit cost items, alternates and damage/bonus provisions.

The total contract sum is available as PriceInformation from the root OwnerContractorAgreement element.

1.5.1 Budget

The total project budget is provided as **Budget** as an abstract element in the **accXMLCOS** name space. It is specialized into three forms within the **agcXMLCommon** name space, depending on the nature of the agreement form:

- BudgetByContractorFee,
- BudgetByLumpSum, and

BudgetByGuaranteedMax

Depending on the kind of agreement, one of the three budget information can be utilized. Each individual element has the name, total sum, and eventual adjustment terms, saving provisions, or other price assumptions.

Information about Budget is provided in the "aecXML common object schema," section "Budget."

1.5.2 Cost Item

The Budget, provides as PriceInformation, may contain individual cost items (depending on contract document form), they are provided as CostItem, an abstract element in the accmLCos name space. The following four elements specialized within the accmLCommon name space, can be utilized for the owner contractor agreement depending on the nature of the cost item form:

- UnitPrice.
- Allowance,
- EmployeeRate and
- Compensation.

Information about UnitPrice, Allowance, EmployeeRate and Compensation is provided in the "aecXML common object schema," section "Cost item."

1.5.3 Cost Alternates

In addition a Budget may include alternates given by or requested from a contractor. Zero, one or many AcceptedAlternate and/or OutstandingAlternate can be provided.

Information about AcceptedAlternate and OutstandingAlternate is provided in the "aecXML common object schema," section "Cost alternate."

1.5.4 Cost Provisions

An agreement may include liquidated damage or bonus provisions, e.g. for early or late completion. An abstract element <code>CostProvision</code> in the <code>agcXMLCommon</code> name space provides the common supertype for <code>DamageProvision</code> and <code>BonusProvision</code> elements. A bonus or damage provision has a name or id, an optional descriptive text, a sum, and optionally a basis for the payment sum (e.g. per day, per week, etc.).

Information about **DamageProvision** and **BonusProvision** is provided in "aecXML common object schema," section "Cost provisions."

1.6 Payment provisions

The OwnerContractorAgreement may include payment provisions; they are grouped into the element PaymentProvision defined in the agcXMLCommon name space. It includes:

- Application for payment
- Payment deadline (owner to pay contractor)
- Payment retainage (primary, additional, material & equipment, subcontractor)
- Interest rates for unpaid payments
- Final payment date

Information about PaymentProvision is provided in the "aecXML common object schema," section "Payment provision."

1.7 Insurance, Bond and Indemnity Provisions

The OwnerContractorAgreement may include insurance provisions; for both the owner and the contractor. The insurance provision combines the individual bond requirements, liability limits and indemnity limits.

Information about GeneralInsuranceProvision and ContractorInsuranceProvision is provided in the document "agcXML common definitions", section "Insurance".

1.7.1 Owner insurance

The OwnerInsurance is a specific type of InsuranceProvision defined in the aecXMLCommon name space. It uses the GeneralInsuranceProvision that allows adding any LiabilityInsurance provision,

1.7.2 Contractor insurance

The ContractorInsurance is a specific type of InsuranceProvision defined in the AECxmlCommon name space. It used the ContractorInsuranceProvision that allows adding four particular insurances information to represent required liability limits are added as particular elements:

- EmployerLiabilityInsurance to capture the bodily injury liability limits,
- AutomobileLiabilityInsurance to capture the vehicle accident liability limit,
- GeneralLiabilityInsurance to capture general liability limits.
- CommonLiabilityInsurance

In addition the information of whether a bond is required, **BondRequired**, and the amount of a general **DamageIndemnityLimit** can be provided.

1.8 Contract provisions

Other provisions, such as design service included, pre-construction service included, labor relation terms, etc. are provided by ContractProvision, referring to the ContractProvision element defined in the agcXMLCommon name space.

Information about ContractProvision is provided in the document "agcXML common definitions", section "Contract provision".

1.9 Documents and exhibits

Contract documents and exhibits can be referenced from the OwnerContractorAgreement. Contract document and exhibits are specialized in the agcXMLCommon name space.

1.9.1 Contract documents

For each referenced document, an element ContractDocument is included providing a list of ContractDocument within the ContractDocumentList. Both elements are defined in the agcXMLCommon name space.

Information about ContractDocumentList and ContractDocument is provided in the document "agcXML common definitions", section "Document references".

1.9.2 Exhibits

For each referenced exhibit, an element AgreementExhibits is included providing a list of Exhibit within the ExhibitList. Both elements are defined in the agcXMLCommon name space.

Information about ExhibitList and Exhibit is provided in the document "agcXML common definitions", section "Document references".

2 XML SCHEMA

The XML schema definitions are defined in different name spaces following the agcXML technical framework.

- The most general definitions are included in the aecxMLCOS name space; some of those definitions are taken from other standards, such as ifcxML for general elements and ISO-IEC_82045-5 for document metadata.
- Definitions that are common to AGC document exchanges within the scope of agcXMLare included in the agcXMLCommon name space.
- Definitions that are specific to the exchange of owner contractor agreements are included in the OwnerContractorAgreement name space.

2.1 aecXMLCOS name space

The XML schema definitions of the aecXMLCOS schema are provided in the document "agcXML common definitions", section "aecXML schema".

2.2 agcXMLCommon name space

The XML schema definitions of the agcXMLCommon schema are provided in the document "agcXML common definitions", section "agcXMLCommon schema".

2.3 agcXMLOCA name space

```
<?xml version="1.0" encoding="UTF-8"?>
<!-- Mit XMLSpy v2007 sp2 (http://www.altova.com) von Thomas Liebich (AEC3 Deutschland GmbH) bearbeitet
<xs:schema xmlns:xs="http://www.w3.org/2001/XMLSchema"</pre>
xmlns:agcoca="http://www.aecXML.org/agcXML/OwnerContractorAgreement"
xmlns:agcxml="http://www.aecXML.org/agcXML/agcXMLCommon" xmlns:cos="http://www.aecXML.org/aecXML/cos"
targetNamespace="http://www.aecXML.org/agcXML/OwnerContractorAgreement" elementFormDefault="qualified"
attributeFormDefault="unqualified">
   <xs:import namespace="http://www.aecXML.org/aecXML/cos" schemaLocation="aecXMLCOS.xsd"/>
   <xs:import namespace="http://www.aecXML.org/agcXML/agcXMLCommon" schemaLocation="agcXMLCommon.xsd"/>
   <!--Owner contractor agreement diagram-->
   <xs:element name="OwnerContractorAgreement" type="agcoca:OwnerContractorAgreement"</pre>
substitutionGroup="agcxml:DocumentTransaction" nillable="false"/>
   <xs:complexType name="OwnerContractorAgreement">
      <xs:complexContent>
         <xs:extension base="agcxml:DocumentTransaction">
            <xs:sequence>
               <xs:element name="AgreementDate" type="xs:date"/>
               <xs:element name="Sender">
                  <xs:complexType>
                     <xs:group ref="agcoca:SenderChoice"/>
                  </xs:complexType>
               </xs:element>
               <xs:element name="Recipient">
                  <xs:complexType>
                     <xs:group ref="agcoca:RecipientChoice"/>
                  </xs:complexType>
               </xs:element>
               <xs:element name="Notifiee">
                  <xs:complexType>
                     <xs:choice>
                        <xs:element ref="agcxml:Organization"/>
                     </xs:choice>
                  </xs:complexType>
               </xs:element>
               <xs:element name="Project" type="agcxml:Project"/>
               <xs:element name="ProjectMilestone" type="agcxml:ProjectSchedule" minOccurs="0"/>
               <xs:element name="Price" type="cos:Budget"/>
               <xs:element name="Payment" type="agcxml:PaymentProvision" minOccurs="0"/>
```

```
<xs:element name="OwnerInsuranceProvision" type="agcxml:GeneralInsuranceProvision"</pre>
                   minOccurs="0"/>
                <xs:element name="ContractorInsuranceProvision" type="agcxml:ContractorInsuranceProvision"</pre>
                   minOccurs="0"/>
                <xs:element name="ContractProvision" type="agcxml:ContractProvision" minOccurs="0"/>
                <xs:element name="ContractDocuments" type="agcxml:ContractDocumentList" minOccurs="0"/>
<xs:element name="AgreementExhibits" type="agcxml:ExhibitList" minOccurs="0"/>
             </xs:sequence>
          </xs:extension>
      </xs:complexContent>
   </xs:complexType>
   <!--Actor definition diagram-->
   <xs:group name="SenderChoice">
      <xs:choice>
         <xs:element ref="agcxml:Owner"/>
      </xs:choice>
   </xs:group>
   <xs:group name="RecipientChoice">
      <xs:choice>
          <xs:element ref="agcxml:Contractor"/>
      </xs:choice>
   </xs:group>
</xs:schema>
```

A . ASSIGNMENT TO COMPARATIVE ANALYSIS

The following table shows each agcXML element reference (from root element Agreement in OwnerContractorAgreement name space) assigned to the corresponding data field obtained from the comparative analysis of the existing transaction media for owner-contractor agreement transactions (the commonly accepted standard contract forms published by the AIA, AGC, and EJCDC, and others). The table is NOT intended to represent the entire content of the schema or the actual cardinality of each element in the schema. The full comparative analysis is published separately and can be obtained from AGC.

Comparative Analysis Owner/Contractor Agreements Data Field Description/Content

Names in current agcXML schema

GoverningForm (based on value – correct template to be used)

		GoverningForm (based on value – correct template to be used)
Agreement Date		
Project Agreement Date: Day	[1]	only numeric
Project Agreement Date: Month	[1]	only numeric
Project Agreement Date: Year	[1]	only numeric
Project Agreement Date (dd/mm/yyyy)	[1]	AgreementDate:date (based on xs:date)
Owner Information		
Owner Company Name	[1]	Sender: Owner.Name
Owner Project Number	[1]	Sender: Owner.ProjectNumber
Owner Address 1	[1]	Sender: Owner.PostalAddress.AddressLine1
Owner Address 2	[1]	Sender: Owner.PostalAddress.AddressLine2
Owner City	[1]	Sender: Owner.PostalAddress.Town
Owner State	[1]	Sender: Owner.PostalAddress.Region
Owner Country	[1]	Sender: Owner.PostalAddress.Country
Owner Company Phone	[1]	Sender: Owner.TelecomAddress.Telephone
Owner Company Fax	[1]	Sender: Owner.TelecomAddress.Facsimile
Owner Representative Last Name	[1]	Sender: Owner.Representative.FamilyName
Owner Representative First Name	[1]	Sender: Owner.Representative.GivenName
Owner Representative Phone	[1]	Sender: Owner.Representative.TelecomAddress.Telephone
Owner Representative Fax	[1]	Sender: Owner.Representative.TelecomAddress.Facsimile
Owner Representative e-mail Address	[1]	Sender: Owner.Representative.TelecomAddress.Email
Owner Signature	[1]	< <actual -="" about="" discussion="" electronic="" exchanged="" not="" see="" signature="">></actual>
Owner Signatory Last Name	[1]	Sender: Owner.Representative.Signature.SignatoryName
Owner Signatory First Name		Sender: Owner.Representative.Signature.SignatoryName

Owner Signatory Title	[1]	Sender: Owner.Representative.Signature.SignatoryTitle
Owner Signature Witness Signature		< <actual about="" discussion="" electronic="" exchanged="" not="" see="" signature="" –="">></actual>
Owner Signature Witness Signatory Last Name		Sender: Owner.Representative.Signature.SignatoryWithnessName
Owner Signature Witness Signatory First Name		Sender: Owner.Representative.Signature.SignatoryWithnessName
Owner Signature Witness Signatory Title		Sender: Owner.Representative.Signature.SignatoryWithnessTitle
Contractor Information		
Contractor Company Name	[1]	Recipient: Contractor.Name
Contractor Project Number	[1]	Recipient: Contractor.ProjectNumber
Contractor Account Code	[1]	Recipient: Contractor.ProjectAccountCode
Contractor Address 1	[1]	Recipient: Contractor.PostalAddress.AddressLine1
Contractor Address 2	[1]	Recipient: Contractor.PostalAddress.AddressLine2
Contractor City	[1]	Recipient: Contractor.PostalAddress.Town
Contractor State	[1]	Recipient: Contractor.PostalAddress.Region
Contractor Country	[1]	Recipient: Contractor.PostalAddress.Country
Contractor Company Phone	[1]	Recipient: Contractor.TelecomAddress.Telephone
Contractor Company Fax	[1]	Recipient: Contractor.TelecomAddress.Facsimile
Contractor Representative Name	[1]	Recipient: Contractor.Representative.FamilyName
		Recipient: Contractor.Representative.GivenName
Contractor Representative Phone	[1]	Recipient: Contractor.Representative.TelecomAddress.Telephone
Contractor Representative Fax	[1]	Recipient: Contractor.Representative.TelecomAddress.Facsimile
Contractor Representative e-mail Address	[1]	Recipient: Contractor.Representative.TelecomAddress.Email
Contractor Safety Representative Name	[1]	Recipient: Contractor.SafetyRepresentative.FamilyName
		Recipient: Contractor.SafetyRepresentative.GivenName
Contractor Safety Representative Phone	[1]	Recipient: Contractor.SafetyRepresentative.TelecomAddress.Telephone
Contractor Safety Representative Fax	[1]	Recipient: Contractor.SafetyRepresentative.TelecomAddress.Facsimile
Contractor Safety Representative e-mail Address	[1]	Recipient: Contractor.SafetyRepresentative.TelecomAddress.Email
Contractor Signature	[1]	< <actual -="" about="" discussion="" electronic="" exchanged="" not="" see="" signature="">></actual>
Contractor Signature Witness Signature	[1]	Recipient: Contractor.Representative.Signature.SignatoryWithnessName
		Recipient: Contractor.Representative.Signature.SignatoryWithnessTitle
Contractor Signatory Name	[1]	Recipient: Contractor.Representative.Signature.SignatoryName
Contractor Signatory Title	[1]	Recipient: Contractor.Representative.Signature.SignatoryTitle
Contractor License Number	[1]	Recipient: Contractor.License.Number
Contractor License Jurisdiction City	[1]	Recipient: Contractor.License.JurisdictionTown
Contractor License Jurisdiction State	[1]	Recipient: Contractor.License.JurisdictionState

Project Information				
Project name and location	[1]			
Project Name 1 (e.g., Smith Biophysics Laboratory)	[1]	ProjectInformation.Name		
Project Name 2 (e.g., University of Toledo)	[1]	ProjectInformation.LongName		
Project Reference Number	[1]	ProjectInformation.ReferenceNumber		
Project Street Address 1	[1]	ProjectInformation.Address.AddressLine1		
Project Street Address 2	[1]	ProjectInformation.Address.AddressLine2		
Project City	[1]	ProjectInformation.Address.Town		
Project State/Province	[1]	ProjectInformation.Address.Region		
Project Country	[1]	ProjectInformation.Address.Country		
Project Postal Code	[1]	ProjectInformation.Address.PostalCode		
Prime Design Professional Information				
Architect/Engineer, name, address, and other information	[1]			
Architect/Engineer Company Name	[01]	Notifiee: Architect Engineer.Name		
Architect/Engineer Project Number	[01]	Notifiee: Architect Engineer.ProjectNumber		
Architect/Engineer Address 1	[01]	Notifiee: Architect Engineer.PostalAddress.AddressLine1		
Architect/Engineer Address 2	[01]	Notifiee: Architect Engineer.PostalAddress.AddressLine2		
Architect/Engineer City	[01]	Notifiee: Architect Engineer.PostalAddress.Town		
Architect/Engineer State	[01]	Notifiee: Architect Engineer.PostalAddress.Region		
Architect/Engineer Country	[01]	Notifiee: Architect Engineer.PostalAddress.Country		
Architect/Engineer Company Phone	[01]	Notifiee: Architect Engineer.TelecomAddress.Telephone		
Architect/Engineer Company Fax	[01]	Notifiee: Architect Engineer.TelecomAddress.Facsimile		
Architect/Engineer Representative Name	[01]	Notifiee: Architect Engineer.Representative.FamilyName		
•		Notifiee: Architect Engineer.Representative.GivenName		
Architect/Engineer Representative Phone	[01]	Notifiee: Architect Engineer.Representative.TelecomAddress.Telephone		
Architect/Engineer Representative Fax	[01]	Notifiee: Architect Engineer.Representative.TelecomAddress.Facsimile		
Architect/Engineer Representative e-mail Address	[01]	Notifiee: Architect Engineer.Representative.TelecomAddress.Email		
Architect/Engineer License Number	[01]	Notifiee: Architect Engineer.License.Number		
S .		Notifiee: Architect Engineer.License.JurisdictionTown		
Architect/Engineer License Jurisdiction State	[01]	Notifiee: Architect Engineer.License.JurisdictionState		
Project Milestone Dates				
Project Start Date (if different from Project Agreement Date)	[1]	ProjectMilestone.StartDate		
Owner's Time Requirement Prior to Commencement	[1]	ProjectMilestone.OwnerTimeRequirement		
Substantial Completion Date (calendar days from date of commencement,	[1]	only numeric		

in words)		
Substantial Completion Date (calendar days from date of commencement, in numerals)	[1]	only numeric as date
Substantial Completion Date - Alternate (calendar date; format: mm/dd/yyyy)	[1]	ProjectMilestone.SubstantialCompletionDate
Final Completion Date (calendar days from date of substantial completion, in words)	[1]	only numeric
Final Completion Date (calendar days from date of substantial completion, in numerals)	[1]	ProjectMilestone.FinalCompletionDate
Portion of Work	[0*]	ProjectMilestone.WorkTasks[*].Completion
Portion of Work Value, in dollars	[0*]	
Substantial Completion Date, Portion of Work (one per Portion of Work; format: mm/dd/yyyy)	[0*]	ProjectMilestone.WorkTasks[*].SubstantialCompletionDate
Liquidated Damage or Bonus Provisions		
Provisions for Liquidated Damages or Bonus Payments for Late/Early Completion	[1]	(for damage) PriceInformation.DamagesOrBonuses.DamageFine PriceInformation.DamagesOrBonuses.DamageFineBasis (for bonus) PriceInformation.DamagesOrBonuses.BonusFee PriceInformation.DamagesOrBonuses.BonusFee
Contract Sum		
Contract Sum		
Contract Sum in words	[01]	only numerically given in the schema
-	[01] [01]	only numerically given in the schema PriceInformation.{BudgetByLumpSum}.LumpSum
Contract Sum in words		
Contract Sum in words Contract Sum in numerals	[01]	PriceInformation.{BudgetByLumpSum}.LumpSum
Contract Sum in words Contract Sum in numerals Contractor's Fee (Cost-Plus-a-Fee Agreements only)	[01] [01]	PriceInformation.{BudgetByLumpSum}.LumpSum PriceInformation.{BudgetByContractorFee}.TotalContractorFee
Contract Sum in words Contract Sum in numerals Contractor's Fee (Cost-Plus-a-Fee Agreements only) Contractor's Fee Adjustment Terms	[01] [01] [01]	PriceInformation.{BudgetByLumpSum}.LumpSum PriceInformation.{BudgetByContractorFee}.TotalContractorFee PriceInformation.{BudgetByContractorFee}.AdjustmentTerms
Contract Sum in words Contract Sum in numerals Contractor's Fee (Cost-Plus-a-Fee Agreements only) Contractor's Fee Adjustment Terms Preconstruction Services Compensation	[01] [01] [01] [01]	PriceInformation.{BudgetByLumpSum}.LumpSum PriceInformation.{BudgetByContractorFee}.TotalContractorFee PriceInformation.{BudgetByContractorFee}.AdjustmentTerms PriceInformation.Items{Compensation}[*].CompensationSum
Contract Sum in words Contract Sum in numerals Contractor's Fee (Cost-Plus-a-Fee Agreements only) Contractor's Fee Adjustment Terms Preconstruction Services Compensation Contractor's Office Project Personnel Functional Title	[01] [01] [01] [01] [0*]	PriceInformation.{BudgetByLumpSum}.LumpSum PriceInformation.{BudgetByContractorFee}.TotalContractorFee PriceInformation.{BudgetByContractorFee}.AdjustmentTerms PriceInformation.Items{Compensation}[*].CompensationSum PriceInformation.Items{EmployeesRateItem}[*].EmployeeFunctionTitle
Contract Sum in words Contract Sum in numerals Contractor's Fee (Cost-Plus-a-Fee Agreements only) Contractor's Fee Adjustment Terms Preconstruction Services Compensation Contractor's Office Project Personnel Functional Title Contractor's Site Personnel	[01] [01] [01] [01] [0*]	PriceInformation.{BudgetByLumpSum}.LumpSum PriceInformation.{BudgetByContractorFee}.TotalContractorFee PriceInformation.{BudgetByContractorFee}.AdjustmentTerms PriceInformation.Items{Compensation}[*].CompensationSum PriceInformation.Items{EmployeesRateItem}[*].EmployeeFunctionTitle PriceInformation.Items{EmployeesRateItem}[*].Name
Contract Sum in words Contract Sum in numerals Contractor's Fee (Cost-Plus-a-Fee Agreements only) Contractor's Fee Adjustment Terms Preconstruction Services Compensation Contractor's Office Project Personnel Functional Title Contractor's Site Personnel Contractor's Site Personnel, Status (one per Contractor's Site Personnel) Contractor's Site Personnel, Rate of Compensation (one per Contractor's Site Personnel) Contractor's Site Personnel, Compensation Period (allowable values:	[01] [01] [01] [01] [0*] [0*]	PriceInformation.{BudgetByLumpSum}.LumpSum PriceInformation.{BudgetByContractorFee}.TotalContractorFee PriceInformation.{BudgetByContractorFee}.AdjustmentTerms PriceInformation.Items{Compensation}[*].CompensationSum PriceInformation.Items{EmployeesRateItem}[*].EmployeeFunctionTitle PriceInformation.Items{EmployeesRateItem}[*].Name PriceInformation.Items{EmployeesRateItem}[*].EmployeeStatus
Contract Sum in words Contract Sum in numerals Contractor's Fee (Cost-Plus-a-Fee Agreements only) Contractor's Fee Adjustment Terms Preconstruction Services Compensation Contractor's Office Project Personnel Functional Title Contractor's Site Personnel Contractor's Site Personnel, Status (one per Contractor's Site Personnel) Contractor's Site Personnel, Rate of Compensation (one per Contractor's Site Personnel)	[01] [01] [01] [04] [0*] [0*] [0*]	PriceInformation.{BudgetByLumpSum}.LumpSum PriceInformation.{BudgetByContractorFee}.TotalContractorFee PriceInformation.{BudgetByContractorFee}.AdjustmentTerms PriceInformation.Items{Compensation}[*].CompensationSum PriceInformation.Items{EmployeesRateItem}[*].EmployeeFunctionTitle PriceInformation.Items{EmployeesRateItem}[*].Name PriceInformation.Items{EmployeesRateItem}[*].EmployeeStatus PriceInformation.Items{EmployeesRateItem}[*].EmployeeRate
Contract Sum in words Contract Sum in numerals Contractor's Fee (Cost-Plus-a-Fee Agreements only) Contractor's Fee Adjustment Terms Preconstruction Services Compensation Contractor's Office Project Personnel Functional Title Contractor's Site Personnel Contractor's Site Personnel, Status (one per Contractor's Site Personnel) Contractor's Site Personnel, Rate of Compensation (one per Contractor's Site Personnel) Contractor's Site Personnel, Compensation Period (allowable values: <hoptnotection< td=""><td>[01] [01] [01] [01] [0*] [0*] [0*] [0*]</td><td>PriceInformation.{BudgetByLumpSum}.LumpSum PriceInformation.{BudgetByContractorFee}.TotalContractorFee PriceInformation.{BudgetByContractorFee}.AdjustmentTerms PriceInformation.Items{Compensation}[*].CompensationSum PriceInformation.Items{EmployeesRateItem}[*].EmployeeFunctionTitle PriceInformation.Items{EmployeesRateItem}[*].Name PriceInformation.Items{EmployeesRateItem}[*].EmployeeStatus PriceInformation.Items{EmployeesRateItem}[*].EmployeeRate PriceInformation.Items{EmployeesRateItem}[*].RateTimeUnit</td></hoptnotection<>	[01] [01] [01] [01] [0*] [0*] [0*] [0*]	PriceInformation.{BudgetByLumpSum}.LumpSum PriceInformation.{BudgetByContractorFee}.TotalContractorFee PriceInformation.{BudgetByContractorFee}.AdjustmentTerms PriceInformation.Items{Compensation}[*].CompensationSum PriceInformation.Items{EmployeesRateItem}[*].EmployeeFunctionTitle PriceInformation.Items{EmployeesRateItem}[*].Name PriceInformation.Items{EmployeesRateItem}[*].EmployeeStatus PriceInformation.Items{EmployeesRateItem}[*].EmployeeRate PriceInformation.Items{EmployeesRateItem}[*].RateTimeUnit
Contract Sum in words Contract Sum in numerals Contractor's Fee (Cost-Plus-a-Fee Agreements only) Contractor's Fee Adjustment Terms Preconstruction Services Compensation Contractor's Office Project Personnel Functional Title Contractor's Site Personnel Contractor's Site Personnel, Status (one per Contractor's Site Personnel) Contractor's Site Personnel, Rate of Compensation (one per Contractor's Site Personnel) Contractor's Site Personnel, Compensation Period (allowable values: <houl> <hr/> <houl> <hr/> <hr/> <houl> <hr/> <hr/></houl></houl></houl>	[01] [01] [01] [01] [0*] [0*] [0*] [0*] [1]	PriceInformation.{BudgetByLumpSum}.LumpSum PriceInformation.{BudgetByContractorFee}.TotalContractorFee PriceInformation.{BudgetByContractorFee}.AdjustmentTerms PriceInformation.Items{Compensation}[*].CompensationSum PriceInformation.Items{EmployeesRateItem}[*].EmployeeFunctionTitle PriceInformation.Items{EmployeesRateItem}[*].Name PriceInformation.Items{EmployeesRateItem}[*].EmployeeStatus PriceInformation.Items{EmployeesRateItem}[*].EmployeeRate PriceInformation.Items{EmployeesRateItem}[*].RateTimeUnit PriceInformation.{BudgetByGuaranteedMax}.MaxPrice
Contract Sum in words Contract Sum in numerals Contractor's Fee (Cost-Plus-a-Fee Agreements only) Contractor's Fee Adjustment Terms Preconstruction Services Compensation Contractor's Office Project Personnel Functional Title Contractor's Site Personnel Contractor's Site Personnel, Status (one per Contractor's Site Personnel) Contractor's Site Personnel, Rate of Compensation (one per Contractor's Site Personnel) Contractor's Site Personnel, Compensation Period (allowable values: <hourly> <weekly> <bi-weekly> <semi-monthly> <monthly>) Guaranteed Maximum Price Guaranteed Maximum Price Savings Provisions</monthly></semi-monthly></bi-weekly></weekly></hourly>	[01] [01] [01] [01] [0*] [0*] [0*] [0*] [1] [01]	PriceInformation.{BudgetByLumpSum}.LumpSum PriceInformation.{BudgetByContractorFee}.TotalContractorFee} PriceInformation.{BudgetByContractorFee}.AdjustmentTerms PriceInformation.Items{Compensation}[*].CompensationSum PriceInformation.Items{EmployeesRateItem}[*].EmployeeFunctionTitle PriceInformation.Items{EmployeesRateItem}[*].Name PriceInformation.Items{EmployeesRateItem}[*].EmployeeStatus PriceInformation.Items{EmployeesRateItem}[*].EmployeeRate PriceInformation.Items{EmployeesRateItem}[*].RateTimeUnit PriceInformation.{BudgetByGuaranteedMax}.MaxPrice PriceInformation.{BudgetByGuaranteedMax}.MaxPriceSavingTerms

Accepted Alternate Title/Description (one per Accepted Alternate ID)	[0*]	PriceInformation.Alternates{AcceptedAlternate}[*].Description
Accepted Alternate Sum (one per Accepted Alternate ID)	[0*]	PriceInformation.Alternates{AcceptedAlternate}[*].AcceptedSum
Outstanding Alternate ID	[0*]	PriceInformation.Alternates{OutstandingAlternate}[*].Name
Outstanding Alternate Title/Description (one per Outstanding Alternate ID)	[0*]	PriceInformation.Alternates{OutstandingAlternate}[*].Description
Outstanding Alternate Sum	[0*]	PriceInformation.Alternates{OutstandingAlternate}[*].OutstandingSum
Outstanding Alternate Expiration Date (one per Outstanding Alternate ID)	[0*]	PriceInformation.Alternates{OutstandingAlternate}[*].ExpirationDate
Unit Price Item ID	[0*]	PriceInformation.Items{UnitPriceItem}[*].Name
Unit Price Item Title/Description (one per Unit Price Item ID)	[0*]	PriceInformation.Items{UnitPriceItem}[*].Description
Unit Price Number of Units (one per Unit Price Item ID)	[0*]	PriceInformation.Items{UnitPriceItem}[*].UnitCount
Unit Price, Cost per Unit (one per Unit Price Item ID)	[0*]	PriceInformation.Items{UnitPriceItem}[*].UnitCost
Allowance Item ID	[0*]	PriceInformation.Items{AllowanceItem}[*].Name
Allowance Item Title/Description (one per Allowance Item ID)	[0*]	PriceInformation.Items{AllowanceItem}[*].Description
Allowance Item Sum (one per Allowance Item ID)	[0*]	PriceInformation.Items{AllowanceItem}[*].AllowanceSum
Allowance Item Type (one per Allowance Item ID; allowable values: <labor></labor>	[0*]	PriceInformation.Items{AllowanceItem}[*].Usage
<materials> <labor &="" materials="">)</labor></materials>		
Payment Provisions		
Payment Procedures and Retainage Provisions		
Application for Payment Period (default value: one calendar month)	[1]	PaymentInformation.Application.PaymentPeriod
Application for Payment Period End (day of month; default value: last day of month)	[1]	PaymentInformation.Application.RecurringPaymentDay
Application for Payment Receipt Deadline (single field; no specified format)		
Day of month application for payment to be received by architect, in words	[1]	only numeric
Day of month application for payment to be received by architect, in	[1]	PaymentInformation.Application.RecurringReceiptDay
numbers	. ,	,
Day of month owner to pay contractor (single field; no specified format)		
Day of month owner to pay contractor, in words	[01]	only numeric
Day of month owner to pay contractor, in numerals	[01]	PaymentInformation.Deadline.RecurringDay
Month Owner to Pay Contractor (allowable values: <same> or <following>)</following></same>	[01]	included in PaymentInformation.Deadline.RecurringDay
Period, in days from receipt of application, Owner to Pay Contractor, in words	[01]	only numeric
Period, in days from receipt of application, Owner to Pay Contractor, in numerals	[01]	PaymentInformation.Deadline.ElapsingDays
Retainage, in words	[01]	only numeric
Retainage, in numerals	[01]	PaymentInformation.Retainage.Retainange
Additional Retainage, in words	[01]	using RetainangeUsage=Primary only numeric

Additional Retainage, in numerals	[01]	PaymentInformation.Retainage.Retainange using RetainangeUsage=Additional
Retainage, Materials & Equipment, in words	[01]	only numeric
Retainage, Materials & Equipment, in numerals	[01]	PaymentInformation.Retainage.Retainange using RetainangeUsage=MaterialAndEquipment
Retainage, Subcontractors, in words	[01]	only numeric
Retainage, Subcontractors, in numerals	[01]	PaymentInformation.Retainage.Retainange
Limitation of Retainage	[01]	using RetainangeUsage=PrimarySubcontractor PaymentInformation.Retainage.RetainangeLimit applicable to all RetainangeUsage
Interest rate on unpaid payments due	[01]	
Interest rate on unpaid payments due (in words)	[01]	only numeric
Interest rate on unpaid payments due (in numerals)	[01]	PaymentInformation.UnpaidInterest.InterestRate
Interest period on unpaid payments due (in words; e.g., per annum, per month)	[01]	PaymentInformation.UnpaidInterest.RatePeriod
Final Payment Date (default value: 30 days after final Certificate for Payment)	[01]	PaymentInformation.FinalPaymentDate
Insurance, Bond, & Indemnity Provisions		
Insurance & Bond Type, Unspecified Party (list, unlimited number of items)		
Insurance & Bond, Unspecified Party, Required Limit (list, unlimited number		
of items)		
Performance & Payment Bond Requirement (allowable values <are< td=""><td>[01]</td><td>ContractorInsuranceProvision.BondRequired</td></are<>	[01]	ContractorInsuranceProvision.BondRequired
Performance & Payment Bond Requirement (allowable values <are required=""> <are not="" required="">)</are></are>		·
Performance & Payment Bond Requirement (allowable values <are required=""> <are not="" required="">) Contractor's Employers' Liability Insurance, Required Limit of Liability,</are></are>	[01] [01]	ContractorInsuranceProvision.BondRequired ContractorInsuranceProvision.EmployerLiability. BodilyInjuryByAccidentPerAccidentLimit
Performance & Payment Bond Requirement (allowable values <are required=""> <are not="" required="">) Contractor's Employers' Liability Insurance, Required Limit of Liability, Bodily Injury By Accident, Each Accident</are></are>	[01]	ContractorInsuranceProvision.EmployerLiability. BodilyInjuryByAccidentPerAccidentLimit
Performance & Payment Bond Requirement (allowable values <are required=""> <are not="" required="">) Contractor's Employers' Liability Insurance, Required Limit of Liability, Bodily Injury By Accident, Each Accident Contractor's Employers' Liability Insurance, Required Limit of Liability,</are></are>		·
Performance & Payment Bond Requirement (allowable values <are required=""> <are not="" required="">) Contractor's Employers' Liability Insurance, Required Limit of Liability, Bodily Injury By Accident, Each Accident Contractor's Employers' Liability Insurance, Required Limit of Liability, Bodily Injury by Disease, Policy Limit Contractor's Employers' Liability Insurance, Required Limit of Liability,</are></are>	[01]	ContractorInsuranceProvision.EmployerLiability. BodilyInjuryByAccidentPerAccidentLimit
Performance & Payment Bond Requirement (allowable values <are required=""> <are not="" required="">) Contractor's Employers' Liability Insurance, Required Limit of Liability, Bodily Injury By Accident, Each Accident Contractor's Employers' Liability Insurance, Required Limit of Liability, Bodily Injury by Disease, Policy Limit Contractor's Employers' Liability Insurance, Required Limit of Liability, Bodily Injury by Disease Per Employee</are></are>	[01] [01] [01]	ContractorInsuranceProvision.EmployerLiability. BodilyInjuryByAccidentPerAccidentLimit ContractorInsuranceProvision.EmployerLiability. BodilyInjuryByDiseasePerEmployeeLimit ContractorInsuranceProvision.EmployerLiability. BodilyInjuryByDiseasePolicyLimit
Performance & Payment Bond Requirement (allowable values <are required=""> <are not="" required="">) Contractor's Employers' Liability Insurance, Required Limit of Liability, Bodily Injury By Accident, Each Accident Contractor's Employers' Liability Insurance, Required Limit of Liability, Bodily Injury by Disease, Policy Limit Contractor's Employers' Liability Insurance, Required Limit of Liability, Bodily Injury by Disease Per Employee Contractor's Business Automobile Liability Insurance, Required Limit of</are></are>	[01]	ContractorInsuranceProvision.EmployerLiability. BodilyInjuryByAccidentPerAccidentLimit ContractorInsuranceProvision.EmployerLiability. BodilyInjuryByDiseasePerEmployeeLimit
Performance & Payment Bond Requirement (allowable values <are required=""> <are not="" required="">) Contractor's Employers' Liability Insurance, Required Limit of Liability, Bodily Injury By Accident, Each Accident Contractor's Employers' Liability Insurance, Required Limit of Liability, Bodily Injury by Disease, Policy Limit Contractor's Employers' Liability Insurance, Required Limit of Liability, Bodily Injury by Disease Per Employee Contractor's Business Automobile Liability Insurance, Required Limit of Liability Per Accident</are></are>	[01] [01] [01] [01]	ContractorInsuranceProvision.EmployerLiability. BodilyInjuryByAccidentPerAccidentLimit ContractorInsuranceProvision.EmployerLiability. BodilyInjuryByDiseasePerEmployeeLimit ContractorInsuranceProvision.EmployerLiability. BodilyInjuryByDiseasePolicyLimit ContractorInsuranceProvision.AutomobileLiability.VehiclePerAccidentLimit
Performance & Payment Bond Requirement (allowable values <are required=""> <are not="" required="">) Contractor's Employers' Liability Insurance, Required Limit of Liability, Bodily Injury By Accident, Each Accident Contractor's Employers' Liability Insurance, Required Limit of Liability, Bodily Injury by Disease, Policy Limit Contractor's Employers' Liability Insurance, Required Limit of Liability, Bodily Injury by Disease Per Employee Contractor's Business Automobile Liability Insurance, Required Limit of Liability Per Accident Contractor's General Liability Insurance, Limit of Liability Per Occurrence</are></are>	[01] [01] [01] [01]	ContractorInsuranceProvision.EmployerLiability. BodilyInjuryByAccidentPerAccidentLimit ContractorInsuranceProvision.EmployerLiability. BodilyInjuryByDiseasePerEmployeeLimit ContractorInsuranceProvision.EmployerLiability. BodilyInjuryByDiseasePolicyLimit ContractorInsuranceProvision.AutomobileLiability.VehiclePerAccidentLimit ContractorInsuranceProvision.GeneralLiability.PerOccurrenceLimit
Performance & Payment Bond Requirement (allowable values <are required=""> <are not="" required="">) Contractor's Employers' Liability Insurance, Required Limit of Liability, Bodily Injury By Accident, Each Accident Contractor's Employers' Liability Insurance, Required Limit of Liability, Bodily Injury by Disease, Policy Limit Contractor's Employers' Liability Insurance, Required Limit of Liability, Bodily Injury by Disease Per Employee Contractor's Business Automobile Liability Insurance, Required Limit of Liability Per Accident Contractor's General Liability Insurance, Limit of Liability, General</are></are>	[01] [01] [01] [01]	ContractorInsuranceProvision.EmployerLiability. BodilyInjuryByAccidentPerAccidentLimit ContractorInsuranceProvision.EmployerLiability. BodilyInjuryByDiseasePerEmployeeLimit ContractorInsuranceProvision.EmployerLiability. BodilyInjuryByDiseasePolicyLimit ContractorInsuranceProvision.AutomobileLiability.VehiclePerAccidentLimit
Performance & Payment Bond Requirement (allowable values <are required=""> <are not="" required="">) Contractor's Employers' Liability Insurance, Required Limit of Liability, Bodily Injury By Accident, Each Accident Contractor's Employers' Liability Insurance, Required Limit of Liability, Bodily Injury by Disease, Policy Limit Contractor's Employers' Liability Insurance, Required Limit of Liability, Bodily Injury by Disease Per Employee Contractor's Business Automobile Liability Insurance, Required Limit of Liability Per Accident Contractor's General Liability Insurance, Limit of Liability, General Aggregate</are></are>	[01] [01] [01] [01] [01]	ContractorInsuranceProvision.EmployerLiability. BodilyInjuryByAccidentPerAccidentLimit ContractorInsuranceProvision.EmployerLiability. BodilyInjuryByDiseasePerEmployeeLimit ContractorInsuranceProvision.EmployerLiability. BodilyInjuryByDiseasePolicyLimit ContractorInsuranceProvision.AutomobileLiability.VehiclePerAccidentLimit ContractorInsuranceProvision.GeneralLiability.PerOccurrenceLimit ContractorInsuranceProvision.GeneralLiability.GeneralAggregateLimit
Performance & Payment Bond Requirement (allowable values <are required=""> <are not="" required="">) Contractor's Employers' Liability Insurance, Required Limit of Liability, Bodily Injury By Accident, Each Accident Contractor's Employers' Liability Insurance, Required Limit of Liability, Bodily Injury by Disease, Policy Limit Contractor's Employers' Liability Insurance, Required Limit of Liability, Bodily Injury by Disease Per Employee Contractor's Business Automobile Liability Insurance, Required Limit of Liability Per Accident Contractor's General Liability Insurance, Limit of Liability Per Occurrence Contractor's General Liability Insurance, Limit of Liability, General Aggregate Contractor's General Liability Insurance, Limit of Liability, Products/Completed Operations Aggregate</are></are>	[01] [01] [01] [01]	ContractorInsuranceProvision.EmployerLiability. BodilyInjuryByAccidentPerAccidentLimit ContractorInsuranceProvision.EmployerLiability. BodilyInjuryByDiseasePerEmployeeLimit ContractorInsuranceProvision.EmployerLiability. BodilyInjuryByDiseasePolicyLimit ContractorInsuranceProvision.AutomobileLiability.VehiclePerAccidentLimit ContractorInsuranceProvision.GeneralLiability.PerOccurrenceLimit
Performance & Payment Bond Requirement (allowable values <are required=""> <are not="" required="">) Contractor's Employers' Liability Insurance, Required Limit of Liability, Bodily Injury By Accident, Each Accident Contractor's Employers' Liability Insurance, Required Limit of Liability, Bodily Injury by Disease, Policy Limit Contractor's Employers' Liability Insurance, Required Limit of Liability, Bodily Injury by Disease Per Employee Contractor's Business Automobile Liability Insurance, Required Limit of Liability Per Accident Contractor's General Liability Insurance, Limit of Liability Per Occurrence Contractor's General Liability Insurance, Limit of Liability, General Aggregate Contractor's General Liability Insurance, Limit of Liability, Products/Completed Operations Aggregate Contractor's General Liability Insurance, Limit of Liability, Products/Completed Operations Aggregate Contractor's General Liability Insurance, Limit of Liability, Products/Completed Operations Aggregate Contractor's General Liability Insurance, Limit of Liability, Products/Completed Operations Aggregate</are></are>	[01] [01] [01] [01] [01]	ContractorInsuranceProvision.EmployerLiability. BodilyInjuryByAccidentPerAccidentLimit ContractorInsuranceProvision.EmployerLiability. BodilyInjuryByDiseasePerEmployeeLimit ContractorInsuranceProvision.EmployerLiability. BodilyInjuryByDiseasePolicyLimit ContractorInsuranceProvision.AutomobileLiability.VehiclePerAccidentLimit ContractorInsuranceProvision.GeneralLiability.PerOccurrenceLimit ContractorInsuranceProvision.GeneralLiability.GeneralAggregateLimit
Performance & Payment Bond Requirement (allowable values <are required=""> <are not="" required="">) Contractor's Employers' Liability Insurance, Required Limit of Liability, Bodily Injury By Accident, Each Accident Contractor's Employers' Liability Insurance, Required Limit of Liability, Bodily Injury by Disease, Policy Limit Contractor's Employers' Liability Insurance, Required Limit of Liability, Bodily Injury by Disease Per Employee Contractor's Business Automobile Liability Insurance, Required Limit of Liability Per Accident Contractor's General Liability Insurance, Limit of Liability Per Occurrence Contractor's General Liability Insurance, Limit of Liability, General Aggregate Contractor's General Liability Insurance, Limit of Liability, Products/Completed Operations Aggregate Contractor's General Liability Insurance, Limit of Liability, Personal and Advertising Injury Limit</are></are>	[01] [01] [01] [01] [01] [01] [01]	ContractorInsuranceProvision.EmployerLiability. BodilyInjuryByAccidentPerAccidentLimit ContractorInsuranceProvision.EmployerLiability. BodilyInjuryByDiseasePerEmployeeLimit ContractorInsuranceProvision.EmployerLiability. BodilyInjuryByDiseasePolicyLimit ContractorInsuranceProvision.AutomobileLiability.VehiclePerAccidentLimit ContractorInsuranceProvision.GeneralLiability.PerOccurrenceLimit ContractorInsuranceProvision.GeneralLiability.GeneralAggregateLimit ContractorInsuranceProvision.GeneralLiability.OperationAggregateLimit ContractorInsuranceProvision.GeneralLiability.PersonalInjuryLimit
Performance & Payment Bond Requirement (allowable values <are required=""> <are not="" required="">) Contractor's Employers' Liability Insurance, Required Limit of Liability, Bodily Injury By Accident, Each Accident Contractor's Employers' Liability Insurance, Required Limit of Liability, Bodily Injury by Disease, Policy Limit Contractor's Employers' Liability Insurance, Required Limit of Liability, Bodily Injury by Disease Per Employee Contractor's Business Automobile Liability Insurance, Required Limit of Liability Per Accident Contractor's General Liability Insurance, Limit of Liability Per Occurrence Contractor's General Liability Insurance, Limit of Liability, General Aggregate Contractor's General Liability Insurance, Limit of Liability, Products/Completed Operations Aggregate Contractor's General Liability Insurance, Limit of Liability, Personal and Advertising Injury Limit Contractor Insurance Type (Other)</are></are>	[01] [01] [01] [01] [01] [01] [01] [01]	ContractorInsuranceProvision.EmployerLiability. BodilyInjuryByAccidentPerAccidentLimit ContractorInsuranceProvision.EmployerLiability. BodilyInjuryByDiseasePerEmployeeLimit ContractorInsuranceProvision.EmployerLiability. BodilyInjuryByDiseasePolicyLimit ContractorInsuranceProvision.AutomobileLiability.VehiclePerAccidentLimit ContractorInsuranceProvision.GeneralLiability.PerOccurrenceLimit ContractorInsuranceProvision.GeneralLiability.GeneralAggregateLimit ContractorInsuranceProvision.GeneralLiability.OperationAggregateLimit ContractorInsuranceProvision.GeneralLiability.PersonalInjuryLimit ContractorInsuranceProvision.Liabilitie[*].InsuranceType
Performance & Payment Bond Requirement (allowable values <are required=""> <are not="" required="">) Contractor's Employers' Liability Insurance, Required Limit of Liability, Bodily Injury By Accident, Each Accident Contractor's Employers' Liability Insurance, Required Limit of Liability, Bodily Injury by Disease, Policy Limit Contractor's Employers' Liability Insurance, Required Limit of Liability, Bodily Injury by Disease Per Employee Contractor's Business Automobile Liability Insurance, Required Limit of Liability Per Accident Contractor's General Liability Insurance, Limit of Liability Per Occurrence Contractor's General Liability Insurance, Limit of Liability, General Aggregate Contractor's General Liability Insurance, Limit of Liability, Products/Completed Operations Aggregate Contractor's General Liability Insurance, Limit of Liability, Personal and Advertising Injury Limit</are></are>	[01] [01] [01] [01] [01] [01] [01]	ContractorInsuranceProvision.EmployerLiability. BodilyInjuryByAccidentPerAccidentLimit ContractorInsuranceProvision.EmployerLiability. BodilyInjuryByDiseasePerEmployeeLimit ContractorInsuranceProvision.EmployerLiability. BodilyInjuryByDiseasePolicyLimit ContractorInsuranceProvision.AutomobileLiability.VehiclePerAccidentLimit ContractorInsuranceProvision.GeneralLiability.PerOccurrenceLimit ContractorInsuranceProvision.GeneralLiability.GeneralAggregateLimit ContractorInsuranceProvision.GeneralLiability.OperationAggregateLimit ContractorInsuranceProvision.GeneralLiability.PersonalInjuryLimit

Insurance Type)		
Contractor's Limit of Indemnity for Damage to Owner's Property due to negligence (in words)	[01]	only numeric
Contractor's Limit of Indemnity for Damage to Owner's Property due to negligence (in numerals)	[01]	ContractorInsuranceProvision.DamageIndemnityLimit
Owner Insurance Type	[0*]	OwnerInsuranceProvision.Liabilitie[*].InsuranceType
Owner Insurance, Required Limit of Liability (one per Owner Insurance Type	[0*]	OwnerInsuranceProvision.Liabilitie[*].TotalLiabilityLimit
Other Provisions		
Other Provisions	[0*]	
Final As-Built Documentation (allowable values: <final as-built="" drawings="" marked-up=""> <updated data="" electronic=""> <exhibit name="">)</exhibit></updated></final>	[01]	OtherProvision.AsBuiltDocumentation
Professional design services not provided	[0*]	OtherProvision. DesignServiceIncluded
Preconstruction Services Option (allowable values: <are included=""> <are included="" not="">)</are></are>	[01]	OtherProvision.PreconstructionServiceIncluded
Dispute Resolution Process (allowable values: Arbitration, Litigation	[01]	OtherProvision. DisputeResolutionProcess
Labor Relations Conditions, Obligations, or Requirements	[01]	OtherProvision.LaborRelationTerms
Contract Cancellation period, disclosures, or other warning statements		
Contract Cancellation Period	[01]	OtherProvision.ContractCancellationPeriod
Contract Disclosures and Warning Statements	[01]	OtherProvision.ContractDisclosureStatement
Conducat Decomposite		
Contract Documents		
Contract Documents - Item	[0*]	ContractDocuments.Documents
	[0*] [0*]	ContractDocuments.Documents only numeric
Contract Documents - Item		
Contract Documents - Item Contract Documents, number of copies (in words)	[0*]	only numeric ContractDocuments.NumberOfCopies ContractDocuments.Documents[*].Date
Contract Documents - Item Contract Documents, number of copies (in words) Contract Documents, number of copies (in numerals)	[0*] [0*]	only numeric ContractDocuments.NumberOfCopies ContractDocuments.Documents[*].Date using Usage=ProjectManual ContractDocuments.Documents[*].Date
Contract Documents - Item Contract Documents, number of copies (in words) Contract Documents, number of copies (in numerals) Project Manual Date Drawings Date (single date for all drawings)	[0*] [0*] [0*] [0*]	only numeric ContractDocuments.NumberOfCopies ContractDocuments.Documents[*].Date using Usage=ProjectManual ContractDocuments.Documents[*].Date using Usage=DrawingList
Contract Documents - Item Contract Documents, number of copies (in words) Contract Documents, number of copies (in numerals) Project Manual Date	[0*] [0*] [0*]	only numeric ContractDocuments.NumberOfCopies ContractDocuments.Documents[*].Date using Usage=ProjectManual ContractDocuments.Documents[*].Date using Usage=DrawingList ContractDocuments.Documents[*].Date
Contract Documents - Item Contract Documents, number of copies (in words) Contract Documents, number of copies (in numerals) Project Manual Date Drawings Date (single date for all drawings) Specifications Date	[0*] [0*] [0*] [0*]	only numeric ContractDocuments.NumberOfCopies ContractDocuments.Documents[*].Date using Usage=ProjectManual ContractDocuments.Documents[*].Date using Usage=DrawingList ContractDocuments.Documents[*].Date using Usage=SpecificationList
Contract Documents - Item Contract Documents, number of copies (in words) Contract Documents, number of copies (in numerals) Project Manual Date Drawings Date (single date for all drawings) Specifications Date Drawings and Specifications Date	[0*] [0*] [0*] [0*] [0*]	contractDocuments.NumberOfCopies ContractDocuments.Documents[*].Date using Usage=ProjectManual ContractDocuments.Documents[*].Date using Usage=DrawingList ContractDocuments.Documents[*].Date using Usage=SpecificationList provided using Date for DrawingList and Date for SpecificationList
Contract Documents - Item Contract Documents, number of copies (in words) Contract Documents, number of copies (in numerals) Project Manual Date Drawings Date (single date for all drawings) Specifications Date Drawings and Specifications Date Supplementary and Other Conditions, Document ID	[0*] [0*] [0*] [0*] [0*] [0*]	only numeric ContractDocuments.NumberOfCopies ContractDocuments.Documents[*].Date using Usage=ProjectManual ContractDocuments.Documents[*].Date using Usage=DrawingList ContractDocuments.Documents[*].Date using Usage=SpecificationList provided using Date for DrawingList and Date for SpecificationList ContractDocuments.Documents[*].DocumentId using Usage=SupplementaryConditions
Contract Documents - Item Contract Documents, number of copies (in words) Contract Documents, number of copies (in numerals) Project Manual Date Drawings Date (single date for all drawings) Specifications Date Drawings and Specifications Date	[0*] [0*] [0*] [0*] [0*]	only numeric ContractDocuments.NumberOfCopies ContractDocuments.Documents[*].Date using Usage=ProjectManual ContractDocuments.Documents[*].Date using Usage=DrawingList ContractDocuments.Documents[*].Date using Usage=SpecificationList provided using Date for DrawingList and Date for SpecificationList ContractDocuments.Documents[*].DocumentId using Usage=SupplementaryConditions ContractDocuments.Documents[*].Name
Contract Documents - Item Contract Documents, number of copies (in words) Contract Documents, number of copies (in numerals) Project Manual Date Drawings Date (single date for all drawings) Specifications Date Drawings and Specifications Date Supplementary and Other Conditions, Document ID	[0*] [0*] [0*] [0*] [0*] [0*]	contractDocuments.NumberOfCopies ContractDocuments.Documents[*].Date using Usage=ProjectManual ContractDocuments.Documents[*].Date using Usage=DrawingList ContractDocuments.Documents[*].Date using Usage=SpecificationList provided using Date for DrawingList and Date for SpecificationList ContractDocuments.Documents[*].DocumentId using Usage=SupplementaryConditions ContractDocuments.Documents[*].Name using Usage=SupplementaryConditions ContractDocuments.Documents[*].DNumberOfPages
Contract Documents - Item Contract Documents, number of copies (in words) Contract Documents, number of copies (in numerals) Project Manual Date Drawings Date (single date for all drawings) Specifications Date Drawings and Specifications Date Supplementary and Other Conditions, Document ID Supplementary and Other Conditions, Document Title	[0*] [0*] [0*] [0*] [0*] [0*] [01]	<pre>contractDocuments.NumberOfCopies ContractDocuments.Documents[*].Date using Usage=ProjectManual ContractDocuments.Documents[*].Date using Usage=DrawingList ContractDocuments.Documents[*].Date using Usage=SpecificationList provided using Date for DrawingList and Date for SpecificationList ContractDocuments.Documents[*].DocumentId using Usage=SupplementaryConditions ContractDocuments.Documents[*].Name using Usage=SupplementaryConditions</pre>

Specification Section ID	[0*]	ContractDocuments.Documents.Sections[*].DocumentId
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Drawing List or Drawing Exhibit Title	[01]	ContractDocuments.Documents[*].Name using Usage=DrawingList
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Other Documents (one per Addendum Number)	[0*]	ContractDocuments.Documents[*].Name using Usage=OtherDocument
Exhibits - number of pages		using estage of nor becomment
AGC Exhibit A - Description of the Work - page count	[01]	AgreementExhibits.Exhibits[*].NumberOfPages
AGC Exhibit B - Contract Documents List	[01]	using Usage=Exhibit_A AgreementExhibits.Exhibits[*].NumberOfPages using Usage=Exhibit_B
AGC Exhibit C - Progress Schedule - page count	[01]	AgreementExhibits.Exhibits[*].NumberOfPages using Usage=Exhibit_C
AGC Exhibit D - Alternate and Unit Prices List & Expiration Dates - page count	[01]	AgreementExhibits.Exhibits[*].NumberOfPages using Usage=Exhibit_D
AGC Exhibit E - Insurance Provisions - page count	[01]	AgreementExhibits.Exhibits[*].NumberOfPages using Usage=Exhibit_E
Exhibit ID	[0*]	AgreementExhibits.Exhibits[*].DocumentId using Usage=OtherExhibit
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Exhibit page count (unlimited cardinality, one per Exhibit Letter)	[0*]	AgreementExhibits.Exhibits[*].NumberOfPages using Usage=OtherExhibit

Table 1: AGCxml elements assigned to the fields of the comparative analysis