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D2020.10 / 21-04 20 20 10 / Ss 50 30 04
Sanitary Sewerage Equipment

Includes: Interceptor, separator, pumps, and septic tanks that are part of facility sanitary sewerage system.

Associated Masterformat Sections: 22 13 23 / 22 13 26 / 22 13 29 / 22 13 33 / 22 13 36
22 13 43 / 22 13 53

100	See D20	
200	Inclusions: • Schematic layout with approximate size, shape, and location.	
300	Inclusions: • design specified size, shape, spacing, and location of equipment. • Approximate allowances for clearances required for all specified anchors, supports, vibration and seismic control that are utilized in the layout of equipment are modeled. • Access/code clearance requirements modeled.	
350	Inclusions: • **Actual** size, shape, spacing, and clearances required for all specified anchors, supports, vibration and seismic control that are utilized in the layout of equipment. • **Actual** access/code clearance requirements modeled.	
400	Inclusions: • Supplementary components added to the model required for fabrication and field installation	

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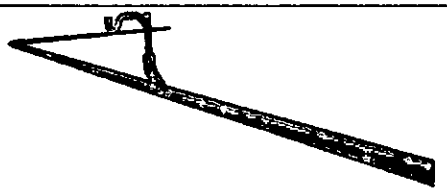
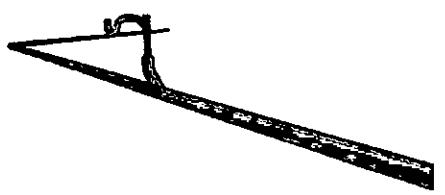
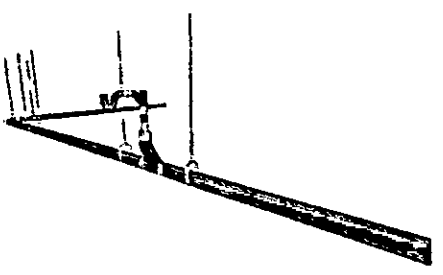
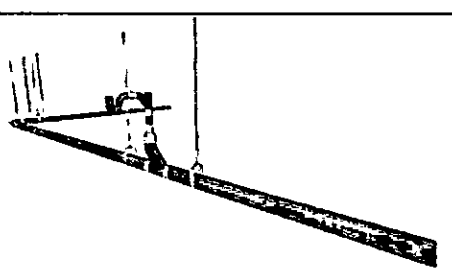
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D2020.30 / 21-04 20 20 30 / Ss 50 30 04
Sanitary Sewerage Piping

Includes: Sanitary waste and vent piping system within and under structures. May Include: Sanitary piping from the structure to the utility sanitary sewer.

Associated Masterformat Sections: 22 13 13 / 22 13 16 / 22 13 19 / 22 05 73 / 22 05 76

100	See D20	
200	Inclusions: • Schematic layout with approximate size, shape, and location of mains and risers.	
300	Inclusions: • design-specified size, shape, spacing, location, and slope of pipe, valves, fittings, and insulation for risers, mains, and branches. • Approximate allowances for clearances required for all specified hangers, supports, vibration and seismic control that are to be utilized in the layout of all risers, mains, and branches. • Access/code clearance requirements modeled	
350	Inclusions: • **Actual** construction elements. • **Actual** size, shape, spacing, location, connections, and slope of pipe, valves, fittings, and insulation for risers, mains, and branches. • **Actual** size, shape, spacing, and clearances required for all hangers, supports, vibration and seismic control that are utilized in the layout of all risers, mains, and branches. • **Actual** floor and wall **penetration elements**. • **Actual** access/code clearance requirements modeled	
400	See D2020.10	

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D2020.90 / 21-04 20 20 90 / Ss 50 30 04
Sanitary Drainage Supplementary Components

Includes: Common work results for plumbing, plumbing insulation, and instrumentation and control for plumbing to be included with sanitary drainage elements above as appropriate. Includes expansion fittings, meters, gages, valves, hangers, supports, heat tracing, vibration and seismic controls.

Associated Masterformat Sections: 05 45 13 / 22 05 00 / 22 05 16 / 22 05 19 / 22 05 23
22 05 29 / 22 05 33 / 22 05 48 / 22 05 53 / 22 07 00 / 22 09 00

See General Notes: Supplementary Components

D2030 / 21-04 20 30 / --
Building Support Plumbing Systems

Includes: Facility storm water drainage and gray water systems. Include Building Support Plumbing System Supplementary Components as appropriate.

Associated Masterformat Sections: 01 86 16 / 22 14 00

100	See D20	
200	See D2010	

D2030.10 / 21-04 20 30 10 / Ss 50 35 80
Stormwater Drainage Equipment

Includes: Drainage pumps, and sump pumps that are part of stormwater drainage system.

Associated Masterformat Sections: 22 14 29 / 22 14 33 / 22 14 36 / 22 14 53

100	Inclusions: • Diagrammatic or schematic model elements. • Conceptual and/or schematic layout;	
200	Inclusions: • Schematic layout with approximate size, shape, and location of equipment. • Approximate access/code clearance requirements.	
300	Inclusions: • design-specified size, shape, spacing, and location. • Approximate allowances for clearances required for all specified anchors, supports, vibration and seismic control that are utilized in the layout of equipment. • Access/code clearance requirements modeled.	

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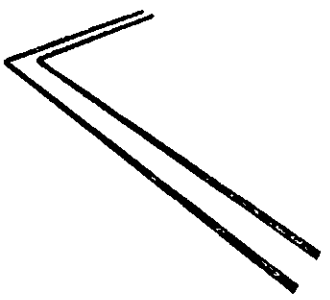
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350	Inclusions: • **actual** construction elements size, shape, spacing, and location/connections of equipment, • **Actual** size, shape, spacing, and clearances required for all specified anchors, supports, vibration and seismic control that are utilized in the layout of equipment. • **Actual** access/code clearance requirements modeled.	
400	Inclusions: • Supplementary components added to the model required for fabrication and field installation.	

D2030.20 / 21-04 20 30 20 / Ss 50 35 80
Stormwater Drainage Piping

Includes: Storm drainage piping system within, under, or closely associated with a structure. Includes storm drains for areas closely associated with a structure such as courtyards, plazas, and loading dock areas. May Include: Storm drainage piping from the structure to the utility storm drain.

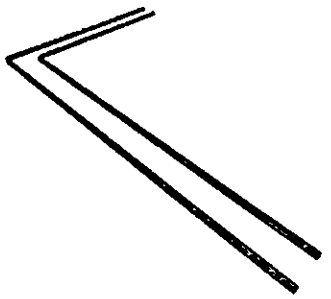
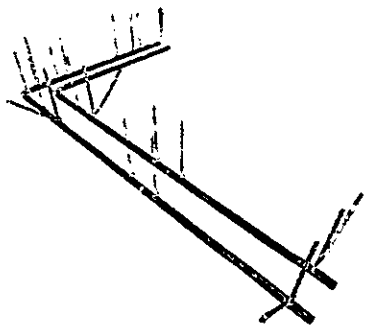
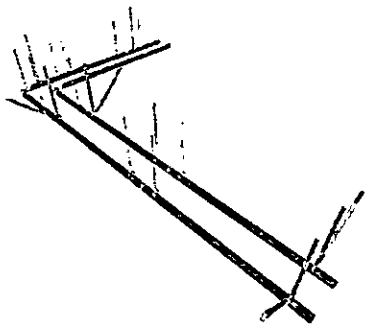
Associated Masterformat Sections: 22 05 73 / 22 05 76 / 22 14 13 / 22 14 16 / 22 14 23

100	See D20	
200	Inclusions: • Schematic layout with approximate size, shape, and location of mains and risers.	

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300	Inclusions: • design-specified size, shape, spacing, location, and slope of pipe, valves, fittings, and insulation for risers, mains, and branches. • Approximate allowances for clearances required for all specified hangers, supports, vibration and seismic control that are to be utilized in the layout of all risers, mains, and branches. • Access/code clearance requirements modeled.	
350	Inclusions: • **actual** size, shape, spacing, location, connections, and slope of pipe, valves, fittings, and insulation for risers, mains, and branches. • **Actual** size and shape, spacing, and clearances required for all hangers, supports, vibration and seismic control that are utilized in the layout of all risers, mains, and branches. • **Actual** access/code clearance requirements modeled. • **Actual** floor and wall **penetration elements.**	
400	See D2030.10	

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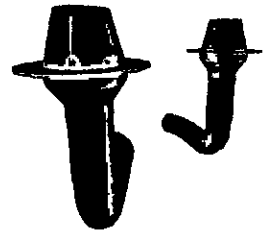
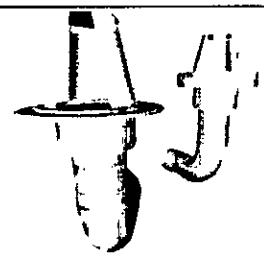
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D2030.30 / 21-04 20 30 30 / Ss 50 35 80
Facility Stormwater Drains

Includes: Various types of drains to collect storm water.

Associated Masterformat Sections: 22 14 26

100	See D20	
200	Inclusions: • Schematic layout with approximate size, shape, and location.	
300	Inclusions: • design-specified size, shape, spacing, and location of components. • Approximate allowances for clearances required for all specified hangers, supports, vibration and seismic control that are to be utilized in the layout of all components. • Access/code clearance requirements modeled.	
350	Inclusions: • **actual** construction elements size, shape, spacing, and location/connections of components. • **Actual** size, shape, spacing, and clearances required for all hangers, supports, vibration and seismic control that are utilized in the layout of all components. • **Actual** access/code clearance requirements modeled.	
400	See D2030.10	

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D2030.60 / 21-04 20 30 60 / Ss 55 70 97 35
Gray Water Systems

Includes: Systems to collect, treat, and distribute gray water for other uses such as irrigation.

Associated Masterformat Sections: 22 13 63

[See D2030.20]

D2030.90 / 21-04 20 30 90 / --
Building Support Plumbing System Supplementary Components

Includes: Common work results for plumbing, plumbing insulation, and instrumentation and control for plumbing to be included with building support plumbing system elements above as appropriate. Includes expansion fittings, meters, gages, valves, hangers, supports, heat tracing, vibration and seismic controls.

Associated Masterformat Sections: 05 45 13 / 22 05 00 / 22 05 16 / 22 05 19 / 22 05 23
22 05 29 / 22 05 33 / 22 05 48 / 22 05 53 / 22 07 00 / 22 09 00

See General Notes: Supplementary Components

D2050 / 21-04 20 50 / Ss 55 20 15
General Service Compressed-Air

Includes: Compressed air system serving general service requirements

Associated Masterformat Sections: 01 86 16 / 22 15 00 / 22 15 13 / 22 15 16 / 22 15 19

[See D2060.10 – Compressed-Air Systems]

D2060 / 21-04 20 60 / Ss 55 60
Process Support Plumbing Systems

Includes: Process Support Plumbing System Supplementary Components as appropriate.

Associated Masterformat Sections:

100	See D20	
200	Inclusions: • Schematic layout with approximate size, shape, and location of mains and risers.	

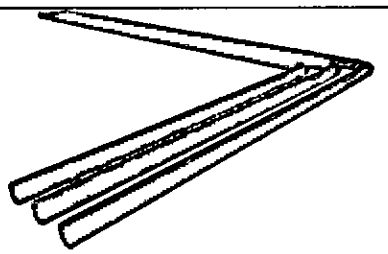
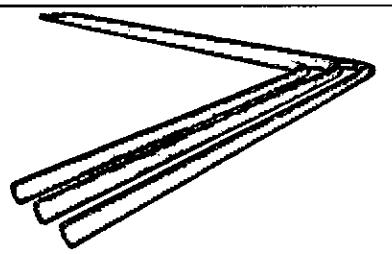
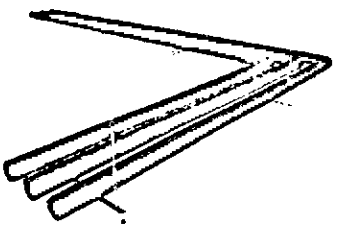
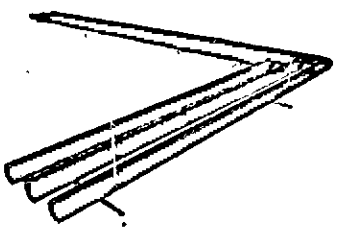
D2060.10 / 21-04 20 60 10 / Ss 55 20 15
Compressed-Air Systems

Associated Masterformat Sections: 01 86 16 / 22 61 00 / 22 61 13 / 22 61 19

100	See D20	

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200	See D2060	
300	Inclusions: • design-specified size, shape, spacing, location, and slope of equipment/pipe, valves, fittings, and insulation for risers, mains, and branches. • Approximate allowances for clearances required for all specified hangers, supports, vibration and seismic control that are to be utilized in the layout of all risers, mains, and branches. • Access/code clearance requirements modeled.	
350	Inclusions: • **actual** size, shape, spacing, location, connections, and slope of equipment/pipe, valves, fittings, and insulation for risers, mains, and branches. • **Actual** size, shape, spacing, and clearances required for all hangers, supports, vibration and seismic control that are utilized in the layout of all risers, mains, and branches. • **Actual** access/code clearance requirements modeled. • **Actual** floor and wall **penetration elements**.	
400	Inclusions: • Supplementary components added to the model required for fabrication and field installation.	

D2060.20 / 21-04 20 60 20 / Ss 55 20 94
Vacuum Systems

Includes: Vacuum systems for laboratory and healthcare purposes.

Associated Masterformat Sections: 01 86 16 / 22 62 00 / 22 62 13 / 22 62 19 / 22 62 23

[See D2060.10]

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D2060.30 / 21-04 20 60 30 / Ss 55 20 34
Gas Systems

Includes: Gas systems for laboratory and healthcare purposes.

Associated Masterformat Sections: 01 86 16 / 22 63 00 / 22 63 13 / 22 63 19

[See D2060.10]

D2060.40 / 21-04 20 60 40 / Ss 50 20
Chemical-Waste Systems

Includes: Chemical-waste systems for laboratory and healthcare purposes.

Associated Masterformat Sections: 01 86 16 / 22 66 00 / 22 66 53 / 22 66 70 / 22 66 83

[See D2060.10]

D2060.50 / 21-04 20 60 50 / Ss 55 70
Processed Water Systems

Includes: Processed water systems for laboratory and healthcare purposes.

Associated Masterformat Sections: 01 86 16 / 22 67 00 / 22 67 13 / 22 67 19

[See D2060.10]

D2060.90 / 21-04 20 60 90 / Ss 55 60
Process Support Plumbing System Supplementary Components

Includes expansion fittings, meters, gages, valves, hangers, supports, heat tracing, vibration and seismic controls. Includes: Common work results for plumbing, plumbing insulation, and instrumentation and controls to be included with process support plumbing systems elements above as appropriate.

Associated Masterformat Sections: 05 45 13 / 05 45 23 / 22 05 00 / 22 05 23 / 22 05 29 / 22 05 33 / 22 05 48 / 22 05 53 / 22 07 00 / 22 09 00

See General Notes: Supplementary Components

D30 / 21-04 30 / Ss 60
Heating, Ventilation, and Air Conditioning (HVAC)

Associated Masterformat Sections: 01 86 19 / 23 00 00

100	Inclusions: • Diagrammatic or schematic model elements. • conceptual and/or schematic layout/flow diagram;	

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D3010 / 21-04 30 10 / Ss 55 50
Facility Fuel Systems

Includes: Fuel-oil, gasoline, natural-gas, and liquefied-petroleum fuel systems associated with a structure.

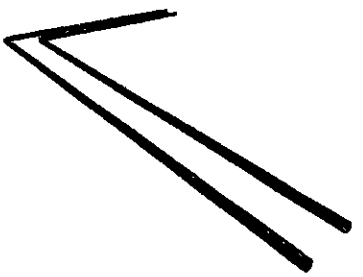
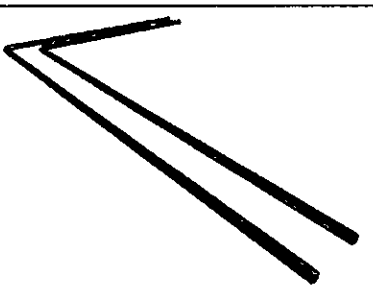
Associated Masterformat Sections: 01 86 19 / 23 10 00

100	See D30	
200	Inclusions: • Schematic layout with approximate size, shape, and location of element(s); • Approximate access/code clearance requirements modeled.	

D3010.10 / 21-04 30 10 10 / Ss 55 50 46
Fuel Piping

Includes: Fuel piping, valves, piping specialties, and other components within, under, or closely associated with a structure.

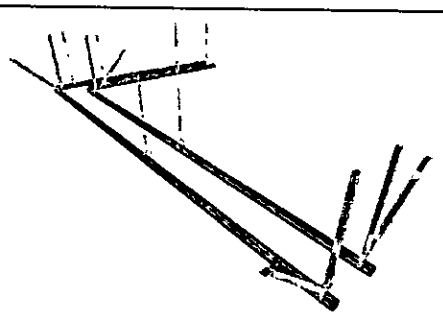
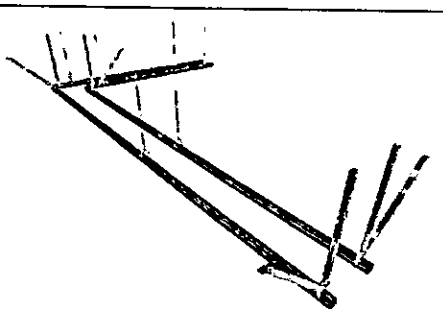
Associated Masterformat Sections: 23 11 00

100	See D30	
200	See D3010	
300	Inclusions: • design-specified size, shape, spacing, and location of pipe, valves, fittings, and insulation for risers, mains, and branches. • Approximate allowances for clearances required for all specified hangers, supports, vibration and seismic control that are to be utilized in the layout of all risers, mains, and branches. • Access/code clearance requirements modeled.	

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350	Inclusions: • **actual** size, shape, spacing, and location/connections of pipe, valves, fittings, and insulation for risers, mains, and branches. • **Actual** size, shape, spacing, and clearances required for all hangers, supports, vibration and seismic control that are utilized in the layout of all risers, mains, and branches. • **Actual** access/code clearance requirements. • **Actual** floor and wall **penetration elements** modeled.	
400	Inclusions: • Supplementary components added to the model required for fabrication and field installation	

D3010.30 / 21-04 30 10 30 / Ss 55 50
Fuel Pumps

Includes: Fuel pumps within or closely associated with a structure.

Associated Masterformat Sections: 23 12 00 / 23 12 13 / 23 12 16

100	See D30	
200	See D3010	
300	Inclusions: • design-specified size, shape, spacing, and location of equipment. • Approximate allowances for clearances required for all specified anchors, supports, vibration and seismic control that are utilized in the layout of equipment. • Access/code clearance requirements modeled.	
350	Inclusions: • Modeled as **actual** size, shape, spacing, and location/connections of equipment. • **Actual** size, shape, spacing, and clearances required for all specified anchors, supports, vibration and seismic control that are utilized in the layout of equipment. • **Actual** access/code clearance requirements modeled.	

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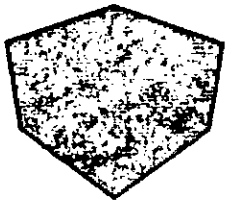
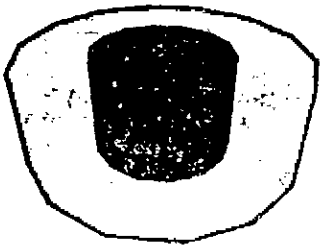
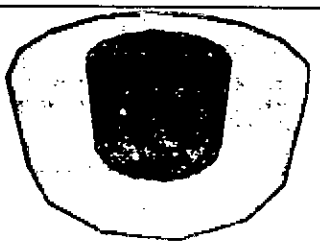
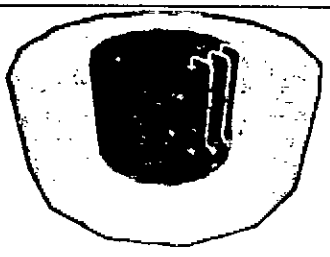
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400	See D3010.10	

D3010.50 / 21-04 30 10 50 / Ss 55 10 75 0
Fuel Storage Tanks

Includes: Fuel tanks under or closely associated with a structure.

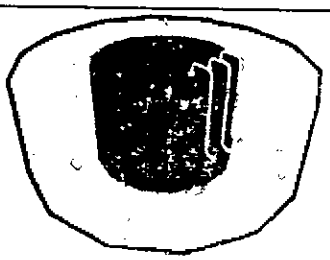
Associated Masterformat Sections: 23 13 00

100	See D30	
200	See D3010	
300	Inclusions: • design-specified size, shape, spacing, and location of tank(s). • approximate allowances for spacing and clearances required for all specified anchors, supports, vibration and seismic control that are utilized in the layout. • access/code clearance requirements modeled.	
350	Inclusions: • **actual** size, shape, spacing, and location/connections of tank(s). • **actual** size, shape, spacing, and clearances required for all specified anchors, supports, vibration and seismic control that are utilized in the layout **actual** access/code clearance requirements modeled.	

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400	See D3010.10	

D3020 / 21-04 30 20 / Ss 60 40 37
Heating Systems

Includes: Associated ductwork, piping, valves, and specialties. Includes: Heating System Supplementary Components as appropriate.

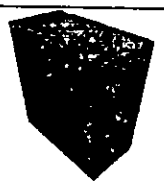
Associated Masterformat Sections: 01 86 19

100	See D30	
200	Inclusions: • Schematic layout with approximate size, shape, and location of element(s).	

D3020.10 / 21-04 30 20 10 / Ss 60 40 37
Heat Generation

Includes: Boilers, furnaces, solar, geothermal, and biomass heat generation, fuel fired heaters, and heat exchangers. Includes: Fuel-fired boilers and generators for hot water and steam systems. Includes breechings, chimneys, and stacks. Includes: Electric boilers and generators for hot water and steam systems. Includes: Equipment to remove oxygen and other dissolved gases in boiler feed. Includes: Fuel-fired and electric furnaces. Includes: Equipment powered by solar energy. Includes: Fuel-fired radiant and unit heaters. Includes: Equipment used to transfer heat from one medium to another.

Associated Masterformat Sections: 23 51 00 / 23 52 00 / 23 52 13 / 23 53 00 / 23 53 13 / 23 53 16 / 23 54 00 / 23 56 00 / 23 56 13 / 23 56 16 / 23 55 00 / 23 57 00

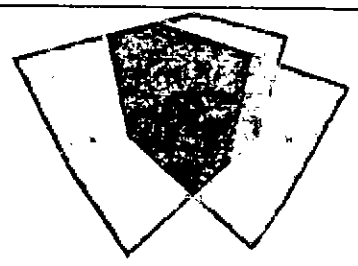
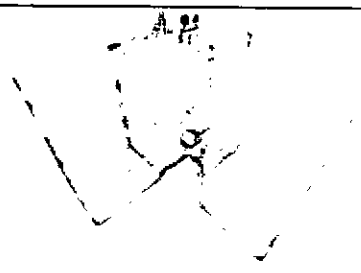
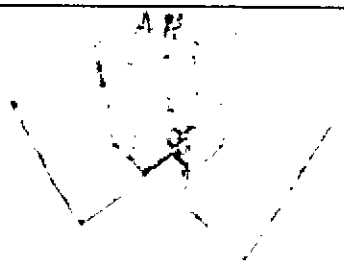
100	See D30	
200	See D3020	

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300	Inclusions: • design-specified size, shape, spacing, and location of equipment. • Approximate allowances for clearances required for all specified anchors, supports, vibration and seismic control that are utilized in the layout of equipment. • Access/code clearance requirements modeled.	
350	Inclusions: • **actual** size, shape, spacing, and location/connections of equipment, • **Actual** size, shape, spacing, and clearances required for all specified anchors, supports, vibration and seismic control that are utilized in the layout of equipment. • **Actual** access/code clearance requirements modeled.	
400	Inclusions: • Supplementary components added to the model required for fabrication and field installation.	

D3020.30 / 21-04 30 20 30 / Ss 60 40 37
Thermal Heat Storage

Includes: Equipment to store thermal energy for use in heating and with charging or discharging this energy at a controllable rate.

Associated Masterformat Sections: 23 71 13

[See D3020.10]

D3020.70 / 21-04 30 20 70 / Ss 60 40 37
Decentralized Heating Equipment

Includes: Heating equipment that serves a portion of a HVAC system. Includes: Convection units may provide heating and cooling. Includes: Electric cables or panels and hydronic piping used for radiant heating for space heating.

Associated Masterformat Sections: 23 80 00 / 23 82 00 / 23 82 13 / 23 82 14 / 23 82 16 / 23 82 19 / 23 82 23 / 23 82 26 / 23 82 29 / 23 82 33 / 23 82 36 / 23 82 39 / 23 83 00

[See D3020.10]

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D3020.90 / 21-04 30 20 90 / Ss 60 40 37
Heating System Supplementary Components

Includes: Common work results for HVAC, Insulation, and instrumentation and control to be included in heating system elements above as appropriate.

Associated Masterformat Sections: 05 45 13 / 23 05 00 / 23 05 19 / 23 05 23 / 23 05 29 / 23 05 48 / 23 05 53 / 23 05 63 / 23 05 66 / 23 05 93 / 23 07 00 / 23 09 00

See General Notes: Supplementary Components

D3030 / 21-04 30 30 / Ss 60 40 17
Cooling Systems

Includes: Associated ductwork, piping, valves, and specialties. Includes: Cooling System Supplementary Components as appropriate.

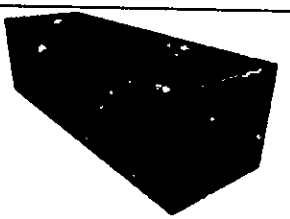
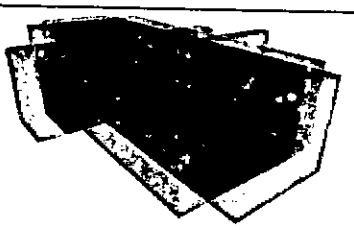
Associated Masterformat Sections: 01 86 19

100	See D30	
200	Inclusions: • Schematic layout with approximate size, shape, and location of element(s).	

D3030.10 / 21-04 30 30 10 / Ss 60 40 17 0
Central Cooling

Includes: Refrigerant compressors, condensers, packaged compressor and condenser units, water chillers, and cooling towers. Includes: Various type of compressors used in refrigeration process. Includes: Condensing units used to reject heat from the refrigeration process. Includes: Compressor in combination with condensing units used to reject heat from the refrigeration process. Includes: Various types of chillers used for building space cooling. Includes: Factory- and field-fabricated cooling towers and liquid coolers. Includes piping and specialties. chemical water treatment. vibration and seismic controls. and integral controls not a part of the condenser water distribution systems.

Associated Masterformat Sections: 23 60 00 / 23 61 00 / 23 62 00 / 23 63 00 / 23 64 00 / 23 65 00

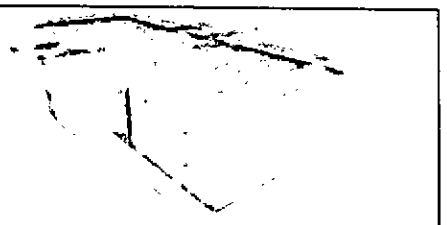
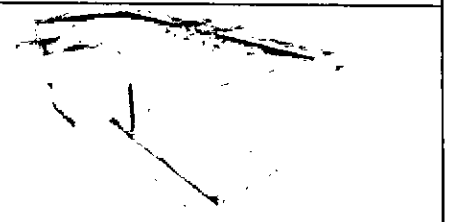
100	See D30	
200	See D3030	
300	Inclusions: • s design-specified size, shape, spacing, and location of equipment. • Approximate allowances for clearances required for all specified anchors, supports, vibration and seismic control that are utilized in the layout of equipment. • Access/code clearance requirements modeled.	

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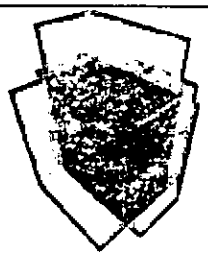
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350	Inclusions: • **actual** size, shape, spacing, and location/connections of equipment. • **Actual** size, shape, spacing, and clearances required for all specified anchors, supports, vibration and seismic control that are utilized in the layout of equipment. • **Actual** access/code clearance requirements modeled.	
400	Inclusions: • Supplementary components added to the model required for fabrication and field installation.	

D3030.30 / 21-04 30 30 30 / Ss 65 80 45 25
Evaporative Air-Cooling

Includes: Equipment used to reject heat from the refrigeration process by evaporation.

Associated Masterformat Sections: 23 76 00

100	See D3030.10	
200	See D3030.10	
300	See D3030.10	
350	See D3030.10	

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400	See D3030.10	

D3030.50 / 21-04 30 30 50 / Ss 60 40 17
Thermal Cooling Storage

Includes: Equipment to store thermal energy for use in cooling and with charging or discharging this energy at a controllable rate.

Associated Masterformat Sections: 23 71 00 / 23 71 16 / 23 71 19

[See D3030.10]

D3030.70 / 21-04 30 30 70 / Ss 60 40 17
Decentralized Cooling

Includes: Cooling equipment that serves a portion of a HVAC system. Note: Convection units may provide heating and cooling.

Associated Masterformat Sections: 23 80 00 / 23 81 13 / 23 81 16 / 23 81 19 / 23 81 23 / 23 81 26 / 23 81 43 / 23 81 46 / 23 82 00 / 23 82 13 / 23 82 14 / 23 82 16 / 23 82 19 / 23 82 23 / 23 82 26

[See D3030.10]

D3030.90 / 21-04 30 30 90 / Ss 60 40 17
Cooling System Supplementary Components

Includes expansion fittings, meters, gages, valves, hangers, supports, heat tracing, vibration and seismic controls. Includes: Common work results for HVAC, insulation, and instrumentation and control to be included in cooling system elements above as appropriate.

Associated Masterformat Sections: 05 45 13 / 23 05 00 / 23 05 19 / 23 05 23 / 23 05 29 / 23 05 48 / 23 05 53 / 23 05 63 / 23 05 66 / 23 05 93 / 23 07 00 / 23 09 00

See General Notes: Supplementary Components

D3050 / 21-04 30 50 / Ss 60 40 84
Facility HVAC Distribution Systems

Includes: Facility Distribution Systems Supplementary Components as appropriate.

Associated Masterformat Sections:

100	See D30	
200	Inclusions: • Schematic layout with approximate size, shape, and location of element(s).	

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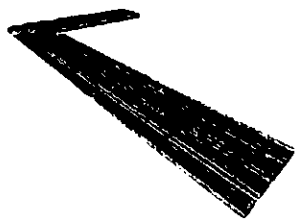
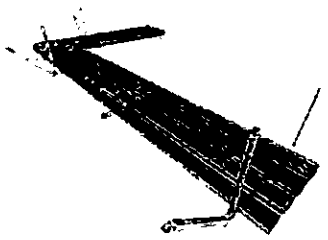
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D3050.10 / 21-04 30 50 10 / Ss 60 40 84 0
Facility Hydronic Distribution

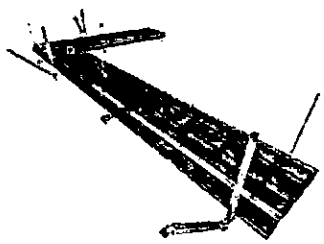
Includes: Piping systems and equipment for distribution of heating hot water and cooling chilled water. Includes piping systems, pumps, tanks, supports and anchors, vibration and seismic controls, identification, and piping and equipment insulation.

Associated Masterformat Sections: 01 86 19 / 23 21 13 / 23 21 23 / 23 25 00

100	See D30	
200	See D3050	
300	Inclusions: • design-specified size, shape, spacing, location, and slope of pipe, valves, fittings, and insulation for risers, mains, and branches. • Approximate allowances for clearances required for all specified hangers, supports, vibration and seismic control that are to be utilized in the layout of all risers, mains, and branches. • Access/code clearance requirements modeled.	
350	Inclusions: • **actual** size, shape, spacing, location, connections, and slope of pipe, valves, fittings, and insulation for risers, mains, and branches. • **Actual** size, shape, spacing, and clearances required for all hangers, supports, vibration and seismic control that are utilized in the layout of all risers, mains, and branches. • **Actual** floor and wall **penetration elements**. • **Actual** access/code clearance requirements modeled.	

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400	Inclusions: • Supplementary components added to the model required for fabrication and field installation.	

D3050.30 / 21-04 30 50 30 / Ss 55 40
Facility Steam Distribution

Includes: Piping systems and equipment for distribution of steam and condensate return. Includes piping systems, pumps, tanks, supports and anchors, vibration and seismic controls, identification, and piping and equipment insulation.

Associated Masterformat Sections: 01 86 19 / 23 22 13 / 23 22 23 / 23 25 19

[See D3050.10]

D3050.50 / 21-04 30 50 50 / Ss 65 80 0 0
HVAC Air Distribution

Includes: Systems for distribution of air including supply systems, return systems, and general exhaust systems. Does not include special exhaust systems such as kitchen hood, paint booth, and fume hood exhaust systems. Includes: Air-handling units consisting of fans, coils, dampers, control devices, and other accessories. Includes: Ducts, duct accessories, fans, terminal units, and air inlets and outlets. Includes: Devices of a variety of types to clean distribution air. Includes: Equipment that adds or removes moisture from a medium in order to control the humidity.

Associated Masterformat Sections: 01 86 19 / 23 73 00 / 23 74 00 / 23 75 00 / 23 30 00 / 23 34 00 / 23 31 00 / 23 32 00 / 23 33 00 / 23 36 00 / 23 37 00 / 23 40 00 / 23 41 00 / 23 42 00 / 23 43 00 / 23 84 00

100	See D30	
200	See D3050	
300	Inclusions: • design-specified size, shape, spacing, and location of duct, dampers, fittings, and insulation for risers, mains, and branches. • Approximate allowances for clearances required for all specified hangers, supports, vibration and seismic control that are to be utilized in the layout of all risers, mains, and branches. • Access/code clearance requirements modeled.	

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350	Inclusions: • **actual** size, shape, spacing, and location/connections of duct, dampers, fittings, and insulation for risers, mains, and branches. • **Actual** size, shape, spacing, and clearances required for all hangers, supports, vibration and seismic control that are utilized in the layout of all risers, mains, and branches. • **Actual** floor and wall **penetration elements.** • **Actual** access/code clearance requirements modeled.	
400	See D3050.10	

D3050.90 / 21-04 30 50 90 / Ss 60 40 84
Facility Distribution Systems Supplementary Components

Includes expansion fittings, meters, gages, valves, hangers, supports, heat tracing, vibration and seismic controls. Includes: Common work results for HVAC, insulation, and instrumentation and control to be included in distribution system elements above as appropriate.

Associated Masterformat Sections: 05 45 13 / 23 05 00 / 23 05 16 / 23 05 19 / 23 05 23 / 23 05 29 / 23 05 33 / 23 05 48 / 23 05 53 / 23 05 63 / 23 05 66 / 23 05 93 / 23 07 00 / 23 09 00

See General Notes: Supplementary Components

D3060 / 21-04 30 60 / Ss 65 40 0 0
Ventilation

Includes: Supply air, return air, exhaust air, outside air, and air cleaning systems. Includes Ventilation Supplementary Components as appropriate.

Associated Masterformat Sections: 01 86 19

100	See D30	
200	Inclusions: • Schematic layout with approximate size, shape, and location of mains and risers.	

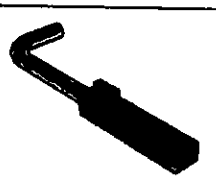
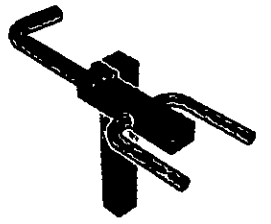
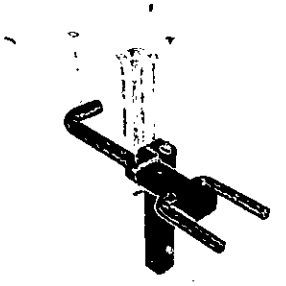
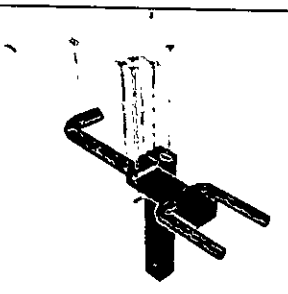
D3060.10 / 21-04 30 60 10 / Ss 65 40 33 51
Supply Air

Associated Masterformat Sections: 23 34 00 / 23 31 00 / 23 32 00 / 23 33 00 / 23 36 00 / 23 37 00

100	See D30	

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200	See D3060	
300	Inclusions: • design-specified size, shape, spacing, and location of duct, dampers, fittings, and insulation for risers, mains, and branches. • Approximate specified allowances for clearances required for all hangers, supports, vibration and seismic control that are to be utilized in the layout of all risers, mains, and branches. • Access/code clearance requirements modeled.	
350	Inclusions: • **actual** size, shape, spacing, and location/connections of duct, dampers, fittings, and insulation for risers, mains, and branches. • **Actual** size, shape, spacing, and clearances required for all hangers, supports, vibration and seismic control that are utilized in the layout of all risers, mains, and branches. • **Actual** floor and wall **penetration elements.** • **Actual** access/code clearance requirements modeled.	
400	Inclusions: • Supplementary components added to the model required for fabrication and field installation.	

D3060.20 / 21-04 30 60 20 / Ss 65 40
Return Air

Associated Masterformat Sections: 23 34 00 / 23 31 00 / 23 32 00 / 23 33 00 / 23 37 00
[See D3060.10]

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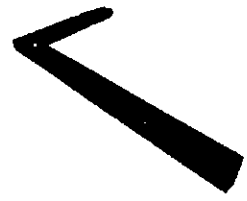
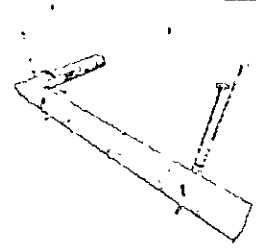
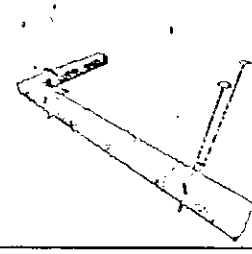
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D3060.30 / 21-04 30 60 30 / Ss 65 40
Exhaust Air

Includes: Special systems for exhausting air such as kitchen hood, paint booth, and fume hood exhaust systems.

Associated Masterformat Sections: 23 35 00 / 23 35 13.13 / 23 35 16 / 23 38 00 / 23 38 13 / 23 38 16 / 23 34 00 / 23 31 00 / 23 32 00 / 23 33 00 / 23 37 00

100	See D30	
200	See D3060	
300	Inclusions: • design-specified size, shape, spacing, location, duct slope (if required), dampers, fittings, insulation for risers, mains, and branches. • Approximate specified allowances for clearances required for all hangers, supports, vibration and seismic control that are to be utilized in the layout of all risers, mains, and branches. • Access/code clearance requirements modeled.	
350	Inclusions: • **actual** size, shape, spacing, location, and slope (if required)/connections of duct, dampers, fittings, and insulation for risers, mains, and branches. • **Actual** size, shape, spacing, and clearances required for all hangers, supports, vibration and seismic control that are utilized in the layout of all risers, mains, and branches. • **Actual** floor and wall **penetration elements**. • **Actual** access/code clearance requirements modeled.	
400	See D3060.10	

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D3060.40 / 21-04 30 60 40 / Ss 65 40 33 51
Outside Air

Associated Masterformat Sections: 23 34 00 / 23 31 00 / 23 32 00 / 23 33 00 / 23 36 00 / 23 37 00

[See D3060.10]

D3060.60 / 21-04 30 60 60 / Pr 60 60 36
Air-to-Air Energy Recovery

Includes: Air-to-air energy recovery units.

Associated Masterformat Sections: 23 72 00

[See D3060.10]

D3060.70 / 21-04 30 60 70 / Pr 65 57 02
HVAC Air Cleaning

Associated Masterformat Sections: 23 40 00

[See D3060.10]

D3060.90 / 21-04 30 60 90 / Ss 65 40
Ventilation Supplementary Components

Includes expansion fittings, meters, gages, valves, hangers, supports, heat tracing, vibration and seismic controls. Includes: Common work results for HVAC, insulation, and instrumentation and control to be included in ventilation elements above as appropriate.

Associated Masterformat Sections: 05 45 13 / 23 05 00 / 23 05 29 / 23 05 48 / 23 05 53 / 23 05 63 / 23 05 66 / 23 05 93 / 23 07 00 / 23 09 00

See General Notes: Supplementary Components

D3070 / 21-04 30 70 / Ss 60
Special Purpose HVAC Systems

Associated Masterformat Sections:

100	See D30	
200	Inclusions: • Schematic layout with approximate size, shape, and location of components.	

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D3070.10 / 21-04 30 70 10 / Ss 60 30 60
Snow Melting

Includes: Electric cables and hydronic piping used for snow and ice control.

Associated Masterformat Sections: 23 83 13 / 23 83 16

100	See D30	
200	See D3070	
300	Inclusions: • design-specified size, shape, spacing, and location of supplementary components. • approximate allowances for clearances required for all specified hangers, supports, vibration and seismic control that are to be utilized in the layout of all supplementary components. • access/code clearance requirements.	
350	Inclusions: • Modeled as **actual** size, shape, spacing, and location/connections of supplementary components. • **Actual** size, shape, spacing, and clearances required for all hangers, supports, vibration and seismic control that are utilized in the layout of all supplementary components. • **Actual** access/code clearance requirements.	
400	Inclusions: • Supplementary components added to the model required for fabrication and field installation.	

D40 / 21-04 40 / Ss 55 30
Fire Protection

100	Inclusions: • Diagrammatic or schematic model elements. • Conceptual and/or schematic layout/flow diagram.	

D4010 / 21-04 40 10 / Ss 55 30
Fire Suppression

Includes: Fire Suppression Supplementary Components as appropriate.

Associated Masterformat Sections: 01 86 13 / 21 00 00

100	See D40	
200	Inclusions: • Schematic layout with approximate size, shape, and location of mains and risers.	

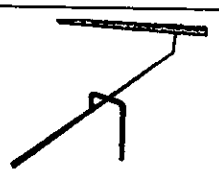
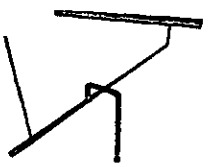
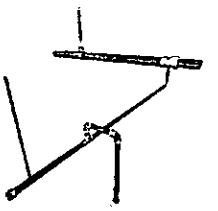
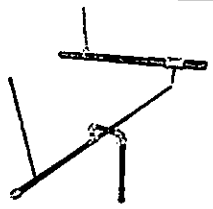
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D4010.10 / 21-04 40 10 10 / Ss 55 30 98
Water-Based Fire-Suppression

Includes: Systems that use water for fire extinguishing and suppression. Includes piping, fittings, and specialties; hoses, valves, cabinets; fire pumps, accessories, and controls. Includes: Piping, fittings, valves, hangers, supports, other specialties, and sprinklers for fire protection systems. Includes limited area sprinkler systems, fire pumps, accessories, and controls.

Associated Masterformat Sections: 01 86 13 / 21 10 00 / 21 11 00 / 21 12 00 / 21 13 00 / 21 13 13 / 21 13 16 / 21 13 19 / 21 13 23 / 21 13 26 / 21 13 29 / 21 13 36 / 21 13 39 / 21 30 00 / 21 40 00

100	See D40	
200	See D4010	
300	Inclusions: • design-specified size, shape, spacing, and location of pipe/slope (if required)/valves/fittings/insulation for risers, mains, and branches/standpipes. • Approximate allowances for clearances required for all specified hangers, supports, vibration and seismic control that are to be utilized in the layout of all risers, mains, and branches/standpipes. • Access/code clearance requirements modeled.	
350	Inclusions: • **actual** size, shape, spacing, and location/ slope (if required)/connections of pipe, valves, fittings, and insulation for risers, mains, and branches/standpipes. • **Actual** size, shape, spacing, and clearances required for all hangers, supports, vibration and seismic control that are utilized in the layout of all risers, mains, and branches/standpipes. • **Actual** floor and wall **penetration elements**. • **Actual** access/code clearance requirements modeled.	
400	Inclusions: • Supplementary components added to the model required for fabrication and field installation.	

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D4010.50 / 21-04 40 10 50 / Ss 55 30
Fire-Extinguishing

Includes: Systems that use other than water for fire extinguishing and suppression. Includes piping, fittings, and specialties; valves, accessories, and controls.

Associated Masterformat Sections: 21 20 00 / 21 21 00 / 21 22 00 / 21 23 00 / 21 24 00

[See D4010.10]

D4010.90 / 21-04 40 10 90 / Ss 55 30
Fire Suppression Supplementary Components

Includes: Expansion fittings and loops, meters and gages, general-duty valves, hanger and supports, heat tracing, vibration and seismic controls, identification, insulation, and instrumentation and control to be included in fire protection elements above as appropriate.

Associated Masterformat Sections: 05 45 13 / 21 05 00 / 21 05 16 / 21 05 19 / 21 05 23 / 21 05 29 / 21 05 33 / 21 05 48 / 21 05 53 / 21 07 00 / 21 09 00

See General Notes: Supplementary Components

D4030 / 21-04 40 30 / Ss 55 30
Fire Protection Specialties

Includes: Firefighting devices and storage cabinets except devices connected to a fire suppression system.

Associated Masterformat Sections: 10 44 00

100	See D40	
200	Inclusions: • Schematic layout with approximate size, shape, and location of components.	

D4030.10 / 21-04 40 30 10 / Pr 80 77 28 28
Fire Protection Cabinets

Associated Masterformat Sections: 10 44 13

100	See D40	
200	See D4030	
300	Inclusions: • design-specified size, shape, spacing, and location of components. • Approximate allowances for clearances required for all specified hangers, supports, vibration and seismic control that are to be utilized in the layout of all components. • Access/code clearance requirements modeled.	

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350	Inclusions: • **actual** size, shape, spacing, and location/connections of components. • **Actual** size, shape, spacing, and clearances required for all hangers, supports, vibration and seismic control that are utilized in the layout of all components. • **Actual** access/code clearance requirements modeled.	
400	Inclusions: • Supplementary components added to the model required for fabrication and field installation.	

D4030.30 / 21-04 40 30 30 / Ss 55 30 65
Fire Extinguishers

Associated Masterformat Sections: 10 44 16

[See D4030.10]

D4030.50 / 21-04 40 30 50 / TE 70 20 20 10
Breathing Air Replenishment Systems

Associated Masterformat Sections: 10 44 33

[See D4030.10]

D4030.70 / 21-04 40 30 70 / Ss 55 30 65 65
Fire Extinguisher Accessories

Associated Masterformat Sections: 10 44 43

[See D4030.10]

D50 / 21-04 50 / --
Electrical

Associated Masterformat Sections: 26 00 00 / 01 86 26

100	Inclusions: • Diagrammatic or schematic model elements: • conceptual and/or schematic layout;	

D5010 / 21-04 50 10 / --
Facility Power Generation

Includes: Power Generation Supplementary Components as appropriate.

Associated Masterformat Sections: 01 86 26

100	See D50	

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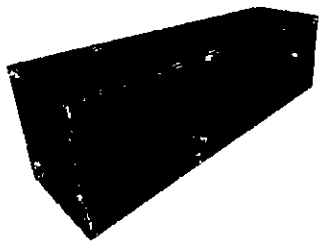
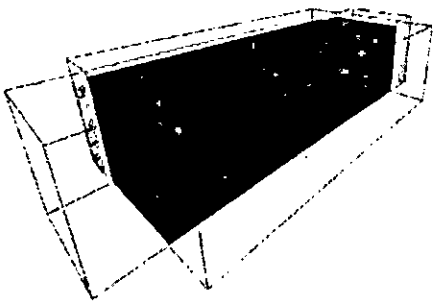
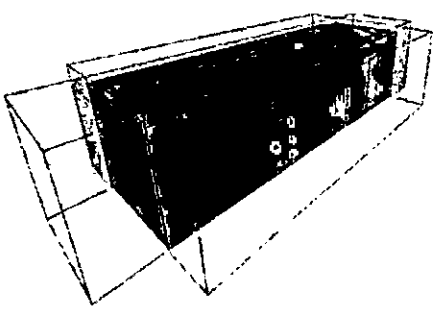
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200	Inclusions: • Schematic layout with approximate size, shape, and location of equipment;	

D5010.10 / 21-04 50 10 10 / Ss 70 10 30
Packaged Generator Assemblies

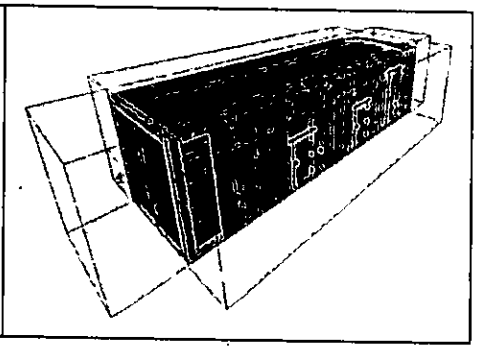
Includes: Generator, frequency changers, and rotary converters and uninterruptible power units.

Associated Masterformat Sections: 26 32 00 / 26 32 13 / 26 32 16 / 26 32 19 / 26 32 23 / 26 32 26 / 26 32 29 / 26 32 33

100	See D50	
200	See D5010	
300	Inclusions: • Design-specified size, shape, spacing, and location of equipment and associated components. • Approximate allowances for clearances required for all specified supports and seismic control. • Access/code clearance requirements modeled.	
350	Inclusions: • **Actual** size, shape, spacing, location of equipment, and associated components. • **Actual** size, shape, spacing, location for supports, and seismic control. • **Actual** size, shape, and location/connections of equipment and support structure/pads. • **Actual** access/code clearance requirements modeled.	

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400	Inclusions: • Supplementary components added to the model required for fabrication and field installation.	

D5010.20 / 21-04 50 10 20 / Pr 60 70 06
Battery Equipment

Includes: Batteries, battery racks, battery chargers, static power converters, uninterruptible power supplies, and accessories.

Associated Masterformat Sections: 26 33 00 / 26 33 13 / 26 33 16 / 26 33 19 / 26 33 23 / 26 33 33 / 26 33 43 / 26 33 46 / 26 33 53

[See D5010.10]

D5010.30 / 21-04 50 10 30 / Ss 70 10 70 35
Photovoltaic Collectors

Includes: Solar cells to convert sunlight to electricity.

Associated Masterformat Sections: 26 31 00

[See D5010.10]

D5010.40 / 21-04 50 10 40 / Pr 60 70 65 30
Fuel Cells

Includes: Fuel cell electricity generating equipment.

Associated Masterformat Sections: 48 18 00

[See D5010.10]

D5010.60 / 21-04 50 10 60 / Pr 65 72 43
Power Filtering and Conditioning

D5010.70 / 21-04 50 10 70 / Ss 70 30
Transfer Switches

Includes: Switches that transfer from one source of electricity to another.

Associated Masterformat Sections: 26 36 00

[See D5010.10]

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D5010.90 / 21-04 50 10 90 / Ss 70 10 30 72
Facility Power Generation Supplementary Components

See General Notes: Supplementary Components

D5020 / 21-04 50 20 / Ss 70 30
Electrical Service and Distribution

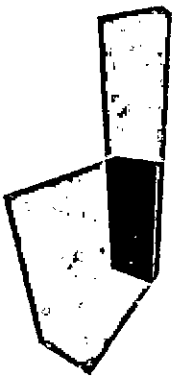
Includes: Electrical Service and Distribution Supplementary Components as appropriate.

100	See D50	
200	Inclusions: • Schematic layout with approximate size, shape, and location of equipment;	
300	Inclusions: • Design-specified size, shape, spacing, and location of equipment and associated components; • Approximate allowances for clearances required for all specified supports and seismic control; • Access/code clearance requirements modeled.	

D5020.10 / 21-04 50 20 10 / Ss 70 30 45 45
Electrical Service Entrance

Includes: Meters, substations, transformers, switchgear, switchboards, and protective devices where electrical power enters structure.

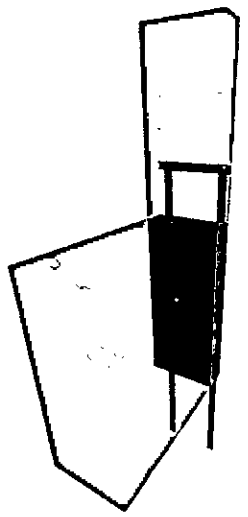
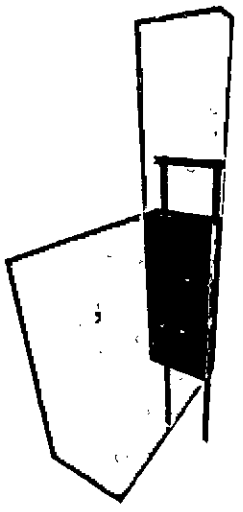
Associated Masterformat Sections: 26 21 00 / 26 16 00 / 26 11 00 / 26 12 00 / 26 22 00 / 26 13 00 / 22 23 00 / 26 18 00 / 22 28 00

100	See D50	
200	See D5020	
300	Inclusions: • Design-specified size, shape, spacing, location of equipment, and associated components. • approximate allowances for clearances required for all specified supports and seismic control. • access/code clearance requirements modeled.	

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350	Inclusions: • **Actual** size, shape, spacing, location of equipment, and associated components. • **Actual** size, shape, spacing, location for supports and seismic control • **Actual** size, shape, and location/connections of equipment and support structure/pads. • **Actual** access/code clearance requirements modeled.	
400	Inclusions: • Supplementary components added to the model required for fabrication and field installation.	

D5020.30 / 21-04 50 20 30 / Ss 70 30 45 45
Power Distribution

Includes: Bus assemblies, distribution equipment, and electrical wiring system to distribute electrical power to switchboards, panelboards, and motor control centers.

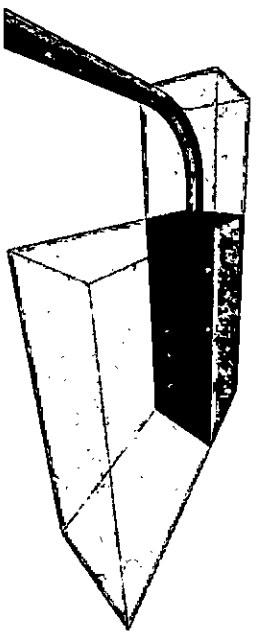
Associated Masterformat Sections: 26 20 00 / 26 24 00 / 26 24 13 / 26 24 16 / 26 24 19 / 26 25 00 / 26 27 00 / 26 27 16 / 26 05 33 / 26 05 43 / 26 05 36 / 26 05 13

100	See D50	

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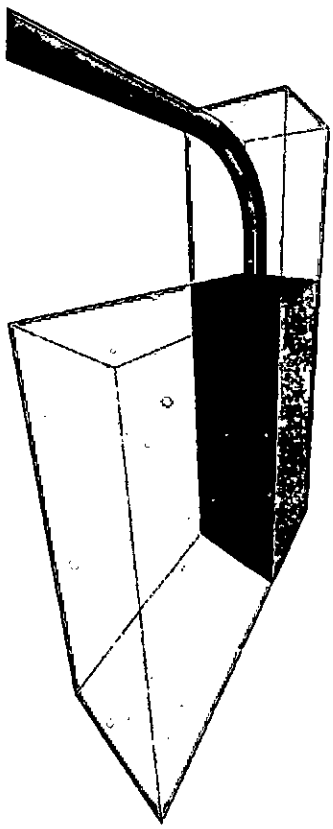
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200	See D5020	

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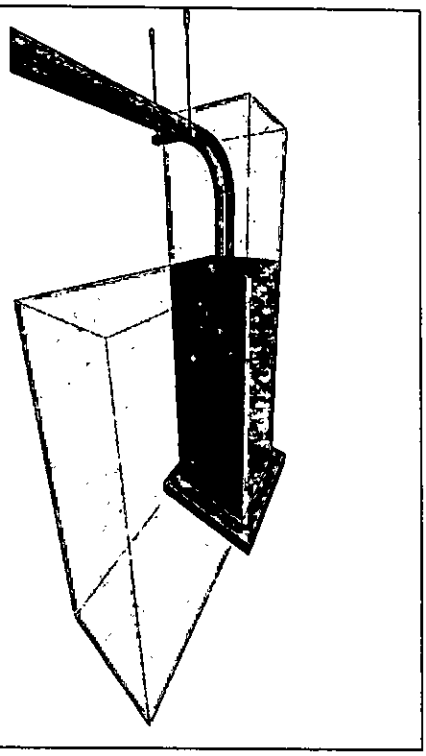
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300	Inclusions: • Design-specified size, shape, spacing, location of raceways, boxes, enclosures, and equipment. • Approximate allowances for spacing and clearances required for all specified hangers, supports and seismic control. • Access/code clearance requirements modeled.	

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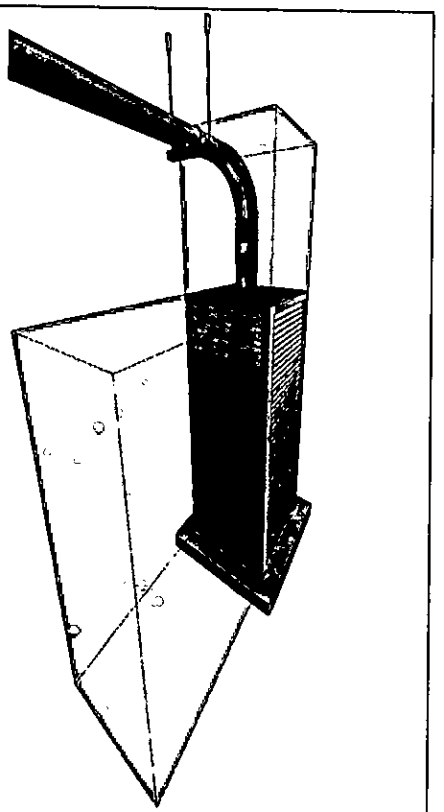
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350	Inclusions: • **Actual** size, shape, spacing, and location of raceways, boxes, and enclosures. • **Actual** size, shape, spacing, and location for supports and seismic control. • **Actual** size, shape, and location/connections of equipment and support structure/pads. • **Actual** floor and wall **penetration elements** are modeled. • **Actual** access/code clearance requirements modeled.	

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400	Inclusions: • Supplementary components added to the model required for fabrication and field installation.	

D5020.70 / 21-04 50 20 70 / Ss 70 30 45 45
Facility Grounding

Includes: Raceways, wiring and devices for grounding and bonding an electrical distribution system.

Associated Masterformat Sections: 26 05 26 / 26 05 33 / 26 05 13

100	See D50	
200	See D5020	
300	Inclusions: • Design-specified size, shape, spacing, location of raceways, boxes, enclosures, and the electrical equipment and end-devices served. • Approximate allowances for clearances required for all specified hangers, supports, and seismic control. • Access/code clearance requirements modeled.	

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350	Inclusions: • **Actual** size, shape, spacing, and location of raceways, boxes, enclosures, and the electrical equipment and end-devices served. • **Actual** size, shape, spacing, and location for supports and seismic control. • **Penetration elements** • **Actual** access/code clearance requirements modeled.	
400	Inclusions: • Supplementary components added to the model required for fabrication and field installation.	

D5020.90 / 21-04 50 20 90 / Ss 70 30 45 45
Electrical Service and Distribution Supplementary Components

Includes: Grounding and bonding, hanger and supports, raceways and boxes, cable trays, utility poles, vibration and seismic controls, identification, wiring connectors, and instrumentation and control to be included in electrical service and distribution systems elements above as appropriate.

Associated Masterformat Sections: 05 45 16 / 26 05 00 / 26 05 26 / 26 05 29 / 26 05 33 / 26 05 36 / 26 05 46 / 26 05 48 / 26 05 53 / 26 05 83 / 26 09 00

100	See D50	
200	See D5020	
300	Inclusions: • Design-specified size, shape, spacing, and location of raceways, boxes, enclosures, and the electrical equipment and end-devices served; • Approximate allowances for clearances required for all specified hangers, supports, and seismic control; • Access/code clearance requirements modeled.	
350	Inclusions: • **Actual** size, shape, spacing, and location of raceways, boxes, enclosures, and the electrical equipment and end-devices served; • **Actual** size, shape, spacing, and location for supports and seismic control; • **Penetration elements.** • **Actual** access/code clearance requirements modeled.	
400	Inclusions: • Supplementary components added to the model required for fabrication and field installation.	

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D5030 / 21-04 50 30 / Ss 70 30 45 45
General Purpose Electrical Power

Includes: General Purpose Electrical Power Supplementary Components as appropriate.

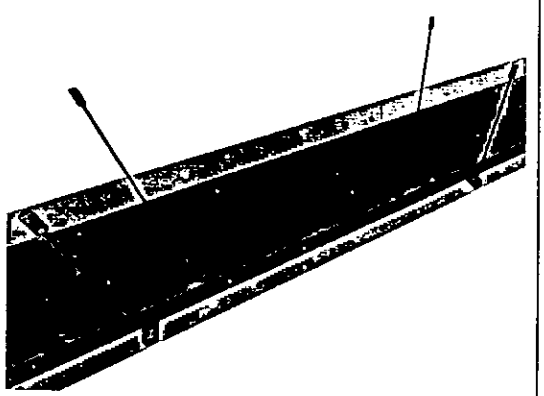
Associated Masterformat Sections: 01 86 26

100	See D50	
200	Inclusions: • Schematic layout with approximate size, shape, and location of equipment;	

D5030.10 / 21-04 50 30 10 / Ss 70 30 45 45
Branch Wiring System

Includes: Raceways, ducts, cable trays, and wiring to deliver power from branch panelboards to the point of use.

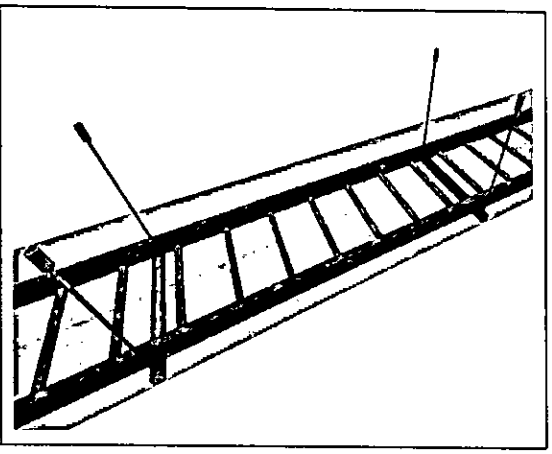
Associated Masterformat Sections: 26 05 33 / 26 05 43 / 26 05 36 / 26 05 19

100	See D50	
200	See D5030	
300	Inclusions: • Design-specified size, shape, spacing, and location of raceways, boxes, and enclosures; • Approximate allowances for clearances required for all specified hangers, supports and seismic control; • Access/code clearance requirements modeled.	
350	Inclusions: • **Actual** size, shape, spacing, and location of raceways, boxes, enclosures; • **Actual** size, shape, spacing, and location for supports and seismic control; • **Penetration elements.** • **Actual** access/code clearance requirements modeled.	

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400	Inclusions: • Supplementary components added to the model required for fabrication and field installation.	

D5030.50 / 21-04 50 30 50 / Ss 70 30 45 45
Wiring Devices

Includes: Electrical devices at point of use including electrical outlets and switches.

Associated Masterformat Sections: 26 27 26

100	See D50	
200	See D5030	
300	Inclusions: • Design-specified size, shape, and location of outlet boxes and devices • Access/code clearance requirements modeled.	
350	Inclusions: • **Actual** size, shape, spacing, and location of outlet boxes and devices. • **Actual** access/code clearance requirements modeled.	
400	Inclusions: • Supplementary components added to the model required for fabrication and field installation.	

D5030.90 / 21-04 50 30 90 / Ss 70 30 45 45
General Purpose Electrical Power Supplementary Components

Includes: Grounding and bonding, hanger and supports, raceways and boxes, cable trays, vibration and seismic controls, identification, wiring connectors, and instrumentation and control to be included in general purpose electrical power elements above as appropriate.

Associated Masterformat Sections: 05 45 16 / 26 05 00 / 26 05 26 / 26 05 29 / 26 05 33 / 26 05 36 / 26 05 48 / 26 05 53 / 26 05 83 / 26 09 00

100	See D50	
200	See D5030	

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300	Inclusions: • Design-specified size, shape, and location of Supplementary Components • Access/code clearance requirements modeled.	
350	Inclusions: • **Actual** size, shape, spacing, and location of outlet boxes and devices. • **Actual** access/code clearance requirements modeled.	
400	Inclusions: • Supplementary components added to the model required for fabrication and field installation.	

D5040 / 21-04 50 40 / Ss 70 80
Lighting

Includes: Lighting Supplementary Components as appropriate.

Associated Masterformat Sections: 26 50 00 / 01 86 26

100	See D50	
200	Inclusions: • Schematic layout with approximate size, shape, and location of equipment;	

D5040.10 / 21-04 50 40 10 / Pr 70 70 47
Lighting Control

Includes: Clock and calendar, photoelectric switches, occupancy sensors, and light-leveling control devices.

Associated Masterformat Sections: 26 09 23 / 26 09 26 / 26 09 33 / 26 09 36 / 26 09 43 / 26 09 61

100	See D50	
200	See D5040	
300	Inclusions: • Design-specified size, shape, and location of enclosures, equipment, and devices; • Access/code clearance requirements modeled.	
350	Inclusions: • **Actual** size, shape, spacing, and location of enclosures, equipment, and control devices; • **Actual** size, shape, and location/connections of equipment and control devices. • **Actual** access/code clearance requirements modeled.	
400	Inclusions: • Supplementary components added to the model required for fabrication and field installation.	

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D5040.20 / 21-04 50 40 20 / Ss 70 80 33 35
Branch Wiring for Lighting

Includes: Raceways, ducts, cable trays, and wiring beyond branch circuit panelboards to lighting fixtures.

Associated Masterformat Sections: 26 05 33 / 26 05 43 / 26 05 36 / 26 05 19 / 26 27 26

100	See D50	
200	See D5040	
300	Inclusions: • Design-specified size, shape, and location of raceways, boxes, and enclosures to fixture locations; • Approximate allowances for clearances required for all specified hangers, supports, and seismic control. • Access/code clearance requirements modeled.	
350	Inclusions: • **Actual** size, shape, spacing, and location of raceways, boxes, and enclosures to fixture locations; • **Actual** size, shape, spacing, and location for supports and seismic control; • **Penetration elements.** • **Actual** access/code clearance requirements modeled.	
400	Inclusions: • Supplementary components added to the model required for fabrication and field installation.	

D5040.50 / 21-04 50 40 50 / Ss 70 80
Lighting Fixtures

Includes: Luminaires, lighting equipment, ballasts, and accessories. Includes fluorescent, high intensity discharge, incandescent, mercury vapor, neon, and sodium vapor lighting.

Associated Masterformat Sections: 26 50 00 / 26 51 00 / 26 52 00 / 26 53 00 / 26 54 00 / 26 55 00 / 26 55 23 / 26 55 29 / 26 55 33 / 26 55 36 / 26 55 39 / 26 55 53 / 26 55 59 / 26 55 61 / 26 55 63 / 26 55 70

100	See D50	
200	See D5040	
300	Inclusions: • Design-specified size, shape, and location of lighting fixtures; • Approximate allowances for spacing and clearances required for all specified hangers, supports and seismic control; • Access/code clearance requirements modeled.	
350	Inclusions: • **Actual** size, shape, spacing, and location of lighting fixtures. • **Actual** size, shape, spacing, and location for supports and seismic control. • **Actual** access/code clearance requirements modeled.	

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400	Inclusions: • Supplementary components added to the model required for fabrication and field installation.	

D5040.90 / 21-04 50 40 90 / Ss 70 80
Lighting Supplementary Components

See General Notes: Supplementary Components

D5080 / 21-04 50 80 / Ss 70
Miscellaneous Electrical Systems

Includes: Miscellaneous Electrical Systems Supplementary Components as appropriate.

100	See D50	
200	Inclusions: • Schematic layout with approximate size, shape, and location of equipment;	

D5080.10 / 21-04 50 80 10 / Ss 75 50 45 45
Lightning Protection

Includes: Wiring and equipment for lightning protection.

Associated Masterformat Sections: 26 41 00 / 01 86 26 / 26 41 13 / 26 41 16 / 26 41 19 / 26 41 23

100	See D50	
200	See D5080	
300	Inclusions: • Design-specified size, shape, and location of raceways, boxes, enclosures including the electrical equipment and end-devices served; • Approximate allowances for clearances required for all specified hangers, supports and seismic control; • Access/code clearance requirements modeled.	
350	Inclusions: • **Actual** size, shape, spacing, and location of raceways, boxes, enclosures including the electrical equipment, fixtures, and end-devices served • **Actual** size, shape, spacing, and location for supports and seismic control; • **Actual** size, shape, and location/connections of equipment and support structure/pads; • **Penetration elements** . • **Actual** access/code clearance requirements modeled.	
400	Inclusions: • Supplementary components added to the model required for fabrication and field installation.	

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D5080.40 / 21-04 50 80 40 / Ss 75 50 15
Cathodic Protection

D5080.70 / 21-04 50 80 70 / Pr 65 72 27 88
Transient Voltage Suppression

Includes: Devices to protect against voltage surges on electrical distribution systems.

Associated Masterformat Sections: 26 43 00

100	See D50	
200	See D5080	
300	Inclusions: • Design-specified size, shape, and location of equipment; • Approximate allowances for clearances required for all specified hangers, supports and seismic control; • Access/code clearance requirements modeled.	
350	Inclusions: • **Actual** size, shape, spacing, and location of the equipment; • **Actual** size, shape, spacing, and location for supports and seismic control. • **Actual** access/code clearance requirements modeled.	
400	Inclusions: • Supplementary components added to the model required for fabrication and field installation.	

D5080.90 / 21-04 50 80 90 / Pr 65 72
Miscellaneous Electrical Systems Supplementary Components

See General Notes: Supplementary Components

D60 / 21-04 60 / Ss 75 10
Communications

Associated Masterformat Sections: 27 00 00 / 01 86 29

See Fundamental LOD Definitions

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D6010 / 21-04 60 10 / Ss 75 10 21 21
Data Communications

Includes: Communications Supplementary Components as appropriate.
Associated Masterformat Sections: 27 20 00 / 01 86 29
See Fundamental LOD Definitions

D6010.10 / 21-04 60 10 10 / Ss 75 10 21 21
Data Communications Network Equipment

Includes: Switching and routing equipment for data communications.
Associated Masterformat Sections: 27 21 00 / 27 21 13 / 27 21 16 / 27 21 29 / 27 21 33

100	See D50	
200	See D5010	
300	Inclusions: • design-specified size, shape, spacing, and location of equipment and associated components; • approximate allowances for clearances required for all specified supports and seismic control; • access/code clearance requirements modeled.	
350	Inclusions: • **actual** size, shape, spacing, and location of equipment and associated components; • **actual** size, shape, spacing, and location for supports and seismic control; • **actual** size, shape, and location/connections of equipment and support structure/pads. • **actual** access/code clearance requirements modeled.	
400	Inclusions: • Supplementary components added to the model required for fabrication and field installation.	

D6010.20 / 21-04 60 10 20 / Pr 70 75 52
Data Communications Hardware

Includes: Computer equipment for data communications.
Associated Masterformat Sections: 27 22 00 / 07 22 13 / 07 22 16 / 07 22 19 / 07 22 23 / 07 22 26 / 07 22 29

100	See D50	
200	See D5010	
300	Inclusions: • design-specified size, shape, and location of equipment and associated components. • approximate allowances for clearances required for all specified supports and seismic control. • access/code clearance requirements modeled.	

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350	Inclusions: • **actual** size, shape, spacing, and location of equipment and associated components; • **actual** size, shape, spacing, and location for supports and seismic control; • **actual** size, shape, and location/connections of equipment and support structure/pads. • **actual** access/code clearance requirements modeled.	
400	Inclusions: • Supplementary components added to the model required for fabrication and field installation.	

D6010.30 / 21-04 60 10 30 / Pr 70 75 15
Data Communications Peripheral Data Equipment

Includes: Additional equipment for data communications.

Associated Masterformat Sections: 27 24 00 / 27 24 13 / 27 24 26 / 27 24 19 / 27 24 23 / 27 24 26 / 27 24 29

100	See D50	
200	See D5010	
300	Inclusions: • design-specified size, shape, and location of equipment and associated components; • approximate allowances for clearances required for all specified supports and seismic control; • access/code clearance requirements modeled.	
350	Inclusions: • **actual** size, shape, spacing, and location of equipment and associated components; • **actual** size, shape, spacing, and location for supports and seismic control; • **actual** size, shape, and location/connections of equipment and support structure/pads. • **actual** access/code clearance requirements modeled.	
400	Inclusions: • Supplementary components added to the model required for fabrication and field installation.	

D6020 / 21-04 60 20 / Ss 75 10 21 88
Voice Communications

Includes: Communications Supplementary Components as appropriate.

Associated Masterformat Sections: 27 30 00 / 01 86 29

See Fundamental LOD Definitions

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D6030 / 21-04 60 30 / --
Audio-Video Communication

Includes: Communications Supplementary Components as appropriate.
Associated Masterformat Sections: 27 40 00 / 01 86 29
See Fundamental LOD Definitions

D6060 / 21-04 60 60 / Ss 75 70 54 15
Distributed Communications and Monitoring

Includes: Communications Supplementary Components as appropriate.
Associated Masterformat Sections: 27 50 00 / 01 86 29
See Fundamental LOD Definitions

D6090 / 21-04 60 90 / Ss 75 10
Communications Supplementary Components

See Fundamental LOD Definitions

D70 / 21-04 70 / Ss 75 40
Electronic Safety and Security

Associated Masterformat Sections: 28 00 00 / 01 86 33
See Fundamental LOD Definitions

D7010 / 21-04 70 10 / Ss 75 40
Access Control and Intrusion Detection

Includes: Electronic Safety and Security Supplementary Components as appropriate.
Associated Masterformat Sections: 28 10 00 / 01 86 33
See Fundamental LOD Definitions

D7030 / 21-04 70 30 / Ss 75 40 53
Electronic Surveillance

Includes: Equipment for detecting and controlling access by persons to a facility site, building, or within a building. Includes Electronic Safety and Security Supplementary Components as appropriate.
Associated Masterformat Sections: 28 20 00 / 01 86 33
See Fundamental LOD Definitions

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D7050 / 21-04 70 50 / Ss 75 50
Detection and Alarm

Includes: Equipment for detecting hazardous conditions in a building or on a facility site and communicating an alarm signal. Includes alarm devices, detection devices, safety switches, and associated items. Includes Electronic Safety and Security Supplementary Components as appropriate.

Associated Masterformat Sections: 28 30 00 / 01 86 33

D7070 / 21-04 70 70 / Ss 75 70 54 15
Electronic Monitoring and Control

Includes: Electronic Safety and Security Supplementary Components as appropriate.

Associated Masterformat Sections: 28 46 00 / 01 86 33

D7090 / 21-04 70 90 / Ss 75 50
Electronic Safety and Security Supplementary Components

See General Notes: Supplementary Components

D80 / 21-04 80 / Ss 75 70
Integrated Automation

Associated Masterformat Sections: 25 00 00 / 01 86 23

See Fundamental LOD Definitions

D8010 / 21-04 80 10 / Ss 75 70
Integrated Automation Facility Controls

Includes: Hardware and/or software that allows the building automation system to monitor and control other facility equipment and systems. Includes Integrated Automation Supplementary Components as appropriate.

Associated Masterformat Sections: 25 50 00 / 01 86 23

See Fundamental LOD Definitions

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E / 21-05 00 00 / --
EQUIPMENT & FURNISHINGS

E10 / 21-05 10 00 / --
Equipment

Associated Masterformat Sections: 11 00 00 / 01 87 13

100	Inclusions • Diagrammatic or schematic model elements: • conceptual and/or schematic layout;	

E1010 / 21-05 10 10 / --
Vehicle and Pedestrian Equipment

Associated Masterformat Sections: 11 10 00

100	See E10	
200	Inclusions • Schematic layout with approximate size, shape, and location of equipment;	

E1010.10 / 21-05 10 10 10 / Ss 40 85 72 33
Vehicle Servicing Equipment

Includes: Equipment associated with vehicle service facilities.

Associated Masterformat Sections: 11 11 00 / 11 11 19 / 11 11 23 / 11 11 26

100	See E10	
200	See E1010	
300	Inclusions: • design-specified size, shape, spacing, and location of equipment and associated components; • Geometry of required clearances	
350	Inclusions • actual size, shape, spacing, and location of equipment and associated components; • actual size, shape, spacing, and location for supports and seismic control; • actual size, shape, and location of service connections and support structure/pads.	

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400	Inclusions • Supplementary components required for fabrication and field installation.	

E1010.30 / 21-05 10 10 30 / Ss 40 85 72 11
Interior Parking Control Equipment

Includes: Equipment associated with the control of movement of vehicle parking.

Associated Masterformat Sections: 11 12 00 / 11 12 13 / 11 12 16 / 11 12 23 / 11 12 26 / 11 12 33

[See E1010.10]

E1010.50 / 21-05 10 10 50 / Ss 80 50 60
Loading Dock Equipment

Includes: Equipment for the protection of service docks and for the loading and unloading of service vehicles.

Associated Masterformat Sections: 11 13 00 / 11 13 13 / 11 13 16 / 11 13 19.13 / 11 13 19.23 / 11 13 26

[See *E1010.10*]

E1010.70 / 21-05 10 10 70 / Ss 40 10
Interior Pedestrian Control Equipment

Includes: Equipment associated with the control of movement of pedestrians.

Associated Masterformat Sections: 11 14 00 / 11 14 13 / 11 14 16 / 11 14 26 / 11 14 43 / 11 14 53

[See E1010.10]

E1030 / 21-05 10 30 / Ss 40 20 15
Commercial Equipment

Associated Masterformat Sections: 11 20 00

[See E1010]

E1030.10 / 21-05 10 30 10 / Ss 40 20 15 71
Mercantile and Service Equipment

Includes: Equipment used in retail and service stores.

Associated Masterformat Sections: 11 21 00 / 11 21 13 / 11 21 23 / 11 21 33 / 11 21 43 / 11 21 53

[See E1010.10]

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E1030.20 / 21-05 10 30 20 / Pr 40 30 75 94
Vault Equipment

Includes: Equipment specifically designed for money or valuable material storage, including vault ventilators and specialized security equipment.

Associated Masterformat Sections: 11 16 00 / 11 16 13 / 11 16 16 / 11 16 23

[See *E1010.10*]

E1030.25 / 21-05 10 30 25 / Ss 40 20 15 71
Teller and Service Equipment

Includes: Equipment specifically designed for handling and transfer of money and other high-security items.

Associated Masterformat Sections: 11 17 00 / 11 17 13 / 11 17 16 / 11 17 23 / 11 17 33 / 11 17 36

[See E1010.10]

E1030.30 / 21-05 10 30 30 / Ss 40 20 15 71
Refrigerated Display Equipment

Includes: Display cases that include refrigeration.

Associated Masterformat Sections: 11 22 00

[See E1010.10]

E1030.35 / 21-05 10 30 35 / Ss 40 15 46 15
Commercial Laundry and Dry Cleaning Equipment

Includes: Equipment for commercial laundry and dry-cleaning operations including coin-operated equipment.

Associated Masterformat Sections: 11 23 00 / 11 23 13 / 11 23 16 / 11 23 19 / 11 23 23 / 11 23 26 / 11 23 33 / 11 23 43

[See *E1010.10*]

E1030.40 / 21-05 10 30 40 / --
Maintenance Equipment

Includes: Built-in and free-standing equipment for building maintenance.

Associated Masterformat Sections: 11 24 00 / 11 24 13 / 11 24 16 / 11 24 19 / 11 24 23.13

[See E1010.10]

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E1030.50 / 21-05 10 30 50 / Ss 40 45 37
Hospitality Equipment

Includes: Specialized equipment for the purpose of registering, admitting, and controlling rooms and other information at hotels, motels, hospitals, and other similar facilities.

Associated Masterformat Sections: 11 25 00 / 11 25 13

[See E1010.10]

E1030.55 / 21-05 10 30 55 / Ss 40 45 37 45
Unit Kitchens

Includes: Manufactured units incorporating plumbing fixtures, appliances, casework and countertops.

Associated Masterformat Sections: 11 26 00

[See E1010.10]

E1030.60 / 21-05 10 30 60 / Ss 40 25 75 21
Photographic Processing Equipment

Includes: Photographic film processing equipment and other products for darkroom use.

Associated Masterformat Sections: 11 27 00 / 11 27 13 / 11 27 16

[See E1010.10]

E1030.70 / 21-05 10 30 70 / Ss 40 15 58
Postal, Packaging and Shipping Equipment

Includes: Equipment for normal mailing, packaging, shipping, and delivery operations for professional, commercial, and institutional applications.

Associated Masterformat Sections: 11 29 00 / 11 29 23 / 11 29 33 / 11 29 55 / 11 28 23

[See E1010.10]

E1030.75 / 21-05 10 30 75 / Ss 40 15 58
Office Equipment

Includes: Computers, printers, copiers, drafting equipment, plotters, carto-stereographs, and other equipment used in offices.

Associated Masterformat Sections: 11 28 00 / 11 28 13 / 11 28 16 / 11 28 19 / 11 28 23

[See E1010.10]

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E1030.80 / 21-05 10 30 80 / Ss 40 15 25
Foodservice Equipment

Includes: Equipment used for liquid and solid food storage, preparation, display, serving, and clean-up in commercial and institutional kitchens and bars.

Associated Masterformat Sections: 11 40 00 / 11 41 00 / 11 41 13 / 11 41 23 / 11 41 26 / 11 41 33 / 11 42 00 / 11 43 00 / 11 41 13 / 11 41 16 / 11 44 00 / 11 44 13 / 11 44 16 / 11 46 00 / 11 46 13 / 11 46 16 / 11 46 19 / 11 47 00 / 11 48 00 / 11 48 13

[See E1010.10]

E1040 / 21-05 10 40 / --
Institutional Equipment

Associated Masterformat Sections: 11 50 00

[See E1010]

E1040.10 / 21-05 10 40 10 / Ss 40 25 26
Educational and Scientific Equipment

Includes: Equipment associated with libraries, education facilities, laboratories, planetariums, observatories, and museums.

Associated Masterformat Sections: 11 50 00 / 11 51 00 / 11 51 13 / 11 51 16 / 11 51 19 / 11 51 23 / 11 52 00 / 11 52 13 / 11 52 16 / 11 52 19 / 11 53 00 / 11 53 13 / 11 53 16 / 11 53 19 / 11 53 23 / 11 53 33 / 11 53 43 / 11 53 53 / 11 55 00 / 11 55 13 / 11 55 16 / 11 56 00 / 11 56 13 / 11 57 00 / 11 59 00 / 11 95 00 / 11 95 13

[See E1010.10]

E1040.20 / 21-05 10 40 20 / Ss 40 50 50
Healthcare Equipment

Includes: Specialized equipment for healthcare facilities for humans and animals. Includes film illuminators, fluoroscopes, hubbard tubs, radio isotopic equipment, and surgical equipment.

Associated Masterformat Sections: 11 70 00 / 05 45 23 / 11 71 00 / 11 72 00 / 11 73 00 / 11 74 00 / 11 75 00 / 11 76 00 / 11 77 00 / 11 78 00 / 11 78 13 / 11 78 16 / 11 78 19 / 11 79 00

[See E1010.10]

E1040.40 / 21-05 10 40 40 / Ss 40 25 71
Religious Equipment

Includes: Built-in and free-standing religious equipment, including baptistery and chancel fittings.

Associated Masterformat Sections: 11 91 00 / 11 91 13

[See E1010.10]

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E1040.60 / 21-05 10 40 60 / Ss 25 38 20
Security Equipment
Includes: Equipment specifically designed for secure operations.
Associated Masterformat Sections: 11 18 00 / 11 18 13 / 11 18 16 / 11 18 23
[See E1010.10]

E1040.70 / 21-05 10 40 70 / Ss 40 20 65 22
Detention Equipment
Includes: Equipment specifically designed for detention facilities.
Associated Masterformat Sections: 11 19 00 / 01 87 13 / 11 19 13 / 11 19 16
[See E1010.10]

E1060 / 21-05 10 60 / Ss 40 45 70
Residential Equipment
Includes: Built-in and free-standing appliances and other components specifically for residential use.
Associated Masterformat Sections: 11 30 00
[See E1010]

E1060.10 / 21-05 10 60 10 / Pr 40 70 24
Residential Appliances
Associated Masterformat Sections: 11 31 00 / 11 31 13 / 11 31 23
[See E1010.10]

E1060.50 / 21-05 10 60 50 / Ss 35 10 40
Residential Stairs
Associated Masterformat Sections: 11 33 00
[See B1080]

E1060.70 / 21-05 10 60 70 / Pr 65 67 29 23
Residential Ceiling Fans
Associated Masterformat Sections: 11 34 00
[See E1010.10]

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E1070 / 21-05 10 70 / Ss 40 70
Entertainment and Recreational Equipment

Includes: Equipment for use in athletic, recreational, and therapeutic activities.

Associated Masterformat Sections:

[See E1010]

E1070.10 / 21-05 10 70 10 / Ss 40 25 20 90
Theater and Stage Equipment

Includes: Equipment for support of theatrical, instrumental, and voice programs. Includes cycloramas, entertainmen: ticket dispensers, scenery and flats, and tormentors.

Associated Masterformat Sections: 11 61 00 / 11 61 13 / 11 61 23 / 11 61 33 / 11 61 43

[See E1010.10]

E1070.20 / 21-05 10 70 20 / Ss 40 25 20
Musical Equipment

Includes: Musical instruments, including prefabricated and field assembled instruments.

Associated Masterformat Sections: 11 62 00 / 11 62 13 / 11 62 16 / 11 62 19

[See E1010.10]

E1070.50 / 21-05 10 70 50 / Ss 40 70 75
Athletic Equipment

Includes: Equipment for use in interior athletic and exercise activities.

Associated Masterformat Sections: 11 66 00 / 11 66 13 / 11 66 23 / 11 66 43 / 11 66 53

[See E1010.10]

E1070.60 / 21-05 10 70 60 / Ss 40 70
Recreational Equipment

Includes: Equipment for use in recreational activities. Includes curling rinks and pistol and rifle range equipment.

Associated Masterformat Sections: 11 67 00 / 11 67 13 / 11 67 23 / 11 67 33 / 11 67 43 / 11 67 53

[See *E1010.10*]

E1090 / 21-05 10 90 / Ss 40 15 35 35
Other Equipment

Associated Masterformat Sections: 11 90 00

[See E1010]

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E1090.10 / 21-05 10 90 10 / Ss 50 80
Solid Waste Handling Equipment

Includes: Equipment involving the collection, shredding, compaction, removal and incineration of trash and other solid waste

Associated Masterformat Sections: 11 82 00 / 01 87 13 / 11 82 13 / 11 82 19 / 11 82 23 / 11 82 26 / 11 82 29 / 11 82 33 / 11 82 36

[See E1010.10]

E1090.30 / 21-05 10 90 30 / Ss 40 30 02
Agricultural Equipment

Includes: Equipment related to land cultivating, raising crops, and feeding, breeding, and raising of livestock.

Associated Masterformat Sections: 11 92 00 / 11 92 13 / 11 92 16 / 11 92 19 / 11 92 23

[See E1010.10]

E1090.40 / 21-05 10 90 40 / Ss 40 30 02 37
Horticultural Equipment

Includes: Equipment related to cultivating flowers, fruits, vegetables, or ornamental plants.

Associated Masterformat Sections: 11 93 00 / 11 93 13 / 11 93 16 / 11 93 19 / 11 93 23 / 11 93 26 / 11 93 29 / 11 93 33 / 32 86 00

[See *E1010.10*]

E1090.60 / 21-05 10 90 60 / Ss 40 30 42
Decontamination Equipment

Includes: Equipment associated with decontamination operations.

Associated Masterformat Sections:

[See *E1010.10*]

E20 / 21-05 20 / Ss 40 45
Furnishings

Associated Masterformat Sections: 12 00 00 / 01 87 16

100	Inclusions • A schematic model element or symbol	

E2010 / 21-05 20 10 / Ss 40 45
Fixed Furnishings

Associated Masterformat Sections:

100	See E20	

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200	Inclusions • Generic model elements with approximate size.	
300	Inclusions • Model element with as-designed dimensions	

E2010.10 / 21-05 20 10 10 / Ss 40 25 20 4
Fixed Art

Includes: Interior and exterior fixed art objects.

Associated Masterformat Sections: 12 10 00 / 12 11 00 / 12 12 00 / 12 12 23 / 12 12 26 / 12 14 00 / 12 17 00 / 12 19 00

See E2010

E2010.20 / 21-05 20 10 20 / Ss 25 50 45
Window Treatments

Includes: Interior window coverings and associated hardware and controls.

Associated Masterformat Sections: 12 20 00 / 12 21 00 / 12 22 00 / 12 23 00 / 12 24 00 / 12 25 00

[See E2010.10]

E2010.30 / 21-05 20 10 30 / Ss 40 15 35
Casework

Includes: Custom and manufactured stock design steel, wood, and laminate faced cabinets and other casework units. Includes countertops with integral sinks, fixtures and accessories.

Associated Masterformat Sections: 12 30 00 / 12 35 00 / 12 35 17 / 12 35 25 / 12 35 30 / 12 35 33 / 12 35 50 / 12 35 53 / 12 35 59 / 12 35 70 / 12 35 91 / 12 36 00

See E2010

E2010.70 / 21-05 20 10 70 / Pr 40 30 29
Fixed Multiple Seating

Includes: Fixed, and telescoping seating for theaters, auditoriums, lecture halls, stadiums, arenas, gymnasiums, religious buildings, restaurants, and other facilities where multiple seating is required.

Associated Masterformat Sections: 12 60 00 / 12 61 00 / 12 63 00 / 13 34 16.53 / 12 64 00 / 12 65 00 / 12 66 00 / 12 67 00 / 12 68 00

[See E2010]

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E2010.90 / 21-05 20 10 90 / Pr 40 30
Other Fixed Furnishings

Includes: Fixed artificial plants, planters, and accessories.

Associated Masterformat Sections: 12 90 00 / 12 92 00 / 12 92 13 / 12 92 33 / 12 92 43
See E2010

E2050 / 21-05 20 50 / Pr 40 50
Movable Furnishings

Includes: Items of moveable furniture and furnishing accessories. Includes furniture for a variety of uses including classroom, dormitory, ecclesiastical, hotel and motel, laboratory, library, lounge, medical, office, restaurant, and residential.
Associated Masterformat Sections:
[See E2010]

E2050.10 / 21-05 20 50 10 / Ss 40 25 20 4
Movable Art

Includes: Interior and exterior moveable art objects such as paintings, and sculpture.
Associated Masterformat Sections: 12 10 00 / 12 14 00 / 12 19 0

[See E2010]

E2050.30 / 21-05 20 50 30 / Pr 40 50
Furniture

Includes: Movable interior furniture.
Associated Masterformat Sections: 12 50 00 / 12 51 00 / 12 52 00 / 12 52 23 / 12 52 70 / 12 53 00 / 12 54 00 / 12 54 13 / 12 54 16 / 12 55 00 / 12 56 00 / 12 56 33 / 12 56 39 / 12 56 43 / 12 56 51 / 12 56 52 / 12 56 53 / 12 56 70 / 12 57 00 / 12 57 13 / 12 57 16 / 12 58 00 / 12 59 00

[See E2010]

E2050.40 / 21-05 20 50 40 / Pr 40 50
Accessories

Includes: Interior furnishing accessories not attached to permanent construction.
Associated Masterformat Sections: 12 40 00 / 12 41 00 / 12 42 00 / 12 43 00 / 12 44 00 / 12 44 16 / 12 45 00 / 12 46 00 / 12 48 00

[See E2010]

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E2050.60 / 21-05 20 50 60 / Pr 40 50 12
Movable Multiple Seating

Includes: Portable seating for auditoriums, lecture halls, stadiums, arenas, gymnasiums, religious buildings, restaurants, and other facilities where multiple seating is required.
Associated Masterformat Sections: 12 60 00 / 12 62 00 / 12 65 00 / 12 67 00 / 12 68 00
[See E2010]

E2050.90 / 21-05 20 50 90 / Pr 40 50
Other Movable Furnishings

Includes: Moveable artificial plants, and planters.
Associated Masterformat Sections: 12 90 00 / 12 92 00 / 12 92 13 / 12 92 33 / 12 92 43
[See E2010]

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F / 21-06 00 00 / --
SPECIAL CONSTRUCTION & DEMOLITION

F10 / 21-06 10 / --
Special Construction
Associated Masterformat Sections: 01 88 13

F1010 / 21-06 10 10 / Ss 20 10 60
Integrated Construction
Associated Masterformat Sections:
See Fundamental LOD Definitions

F1020 / 21-06 10 20 / --
Special Structures
Associated Masterformat Sections: 13 30 00 / 01 88 13
See Fundamental LOD Definitions

F1020.40 / 21-06 10 20 40 / Ss 40 5
Special Structures: Metal Building Systems
Includes: Prefabricated buildings and structures assembled on temporary and permanent foundations.
Associated Masterformat Sections: 13 34 00 / 01 88 13 / 13 34 13 / 13 34 16 / 13 34 19 / 13 34 56

100	Inclusions: • Schematic layout	
200	Inclusions: • **Element envelope**	
300	Inclusions: • **Element envelope**	

F1030 / 21-06 10 30 / --
Special Function Construction
See Fundamental LOD Definitions

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F1050 / 21-06 10 50 / --
Special Facility Components

See Fundamental LOD Definitions

F1060 / 21-06 10 60 / Ss 40 70 75
Athletic and Recreational Special Construction

Includes: Special construction for athletic and recreational activities that are directly related to the adjacent construction.

Associated Masterformat Sections: 13 28 00

See Fundamental LOD Definitions

F1080 / 21-06 10 80 / --
Special Instrumentation

Includes: Instrumentation for measuring and recording phenomena such as stresses in structures, solar and wind energy, and effects of earthquakes.

Associated Masterformat Sections: 13 50 00

See Fundamental LOD Definitions

F20 / 21-06 20 00 / Ss 15 30
Facility Remediation

Associated Masterformat Sections:

F2010 / 21-06 20 10 / Ss 15 30
Hazardous Materials Remediation

Includes: Remediation for abatement and removal and disposal of contaminated materials within structures.

Associated Masterformat Sections: 02 80 00

See Fundamental LOD Definitions

F30 / 21-06 30 00 / Ac 10 10 25
Demolition

Associated Masterformat Sections:

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F3010 / 21-06 30 10 / Ac 10 10 25
Structure Demolition

Includes: Complete removal and disposal of structures.
Associated Masterformat Sections: 02 41 16
See Fundamental LOD Definitions

F3030 / 21-06 30 30 / Ac 10 10 25
Selective Demolition

Includes: Removal and disposal of parts of structures.
Associated Masterformat Sections: 02 41 19
See Fundamental LOD Definitions

F3050 / 21-06 30 50 / Ac 10 80
Structure Moving

Includes: Preparation and processes of relocating and raising structures.
Associated Masterformat Sections: 02 43 00
See Fundamental LOD Definitions

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G / 21-07 00 00 / --
SITEWORK

Associated Masterformat Sections:

G10 / 21-07 10 00 / Ac 10
Site Preparation

Associated Masterformat Sections: 01 89 13

G1010 / 21-07 10 10 / Ac 10 30
Site Clearing

Includes: Removal of vegetation from the site, including stripping of sod and soil, and tree pruning for site clearing.
Associated Masterformat Sections: 31 10 00 / 31 11 00 / 31 13 00 / 31 14 00 / 31 14 13 / 31 14 16

G1020 / 21-07 10 20 / Ac 10 10 25
Site Elements Demolition

Includes: Removal of above and below grade site improvements.
Associated Masterformat Sections: 02 41 13

G1030 / 21-07 10 30 / --
Site Element Relocations

Includes: Relocation of utility systems.

G1050 / 21-07 10 50 / Ac 10 75 65
Site Remediation

Includes: Remediation of contaminated sites.
Associated Masterformat Sections: 02 50 00 / 01 89

G1070 / 21-07 10 70 / --
Site Earthwork

Includes: Moving earth to establish new contours and elevations.
Associated Masterformat Sections: 31 20 00 / 01 89 13

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G1070.10 / 21-07 10 70 10 / --
Grading

Includes: Earthmoving to reshape contours.

Associated Masterformat Sections: 31 20 00 / 01 89 13

100	Inclusions: • Surface as a plane	
200	Inclusions: • Surface interpolation between identified control elevations (e.g., building floor levels, existing hardscape)	
300	Inclusions: • Complete surface definition	

G20 / 21-07 20 / --
Site Improvements

Associated Masterformat Sections: 01 89 16

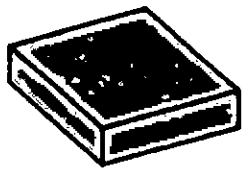
100	Inclusions: • Diagrammatic or schematic model elements.	

G2010 / 21-07 20 10 / Ss 30 14 05
Roadways

Includes: Pavement, curbs and gutters, appurtenances, lighting, and vehicle fare collection for roadways. May Include: Site earthwork.

Associated Masterformat Sections: 01 89 16

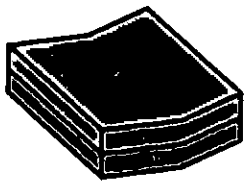
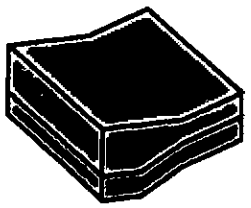
G2010.10
Roadway Pavement

100	See G20	
200	Inclusions: • Plan extent of pavement • **Nominal** thickness	 2

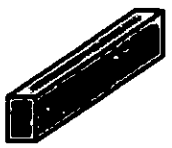
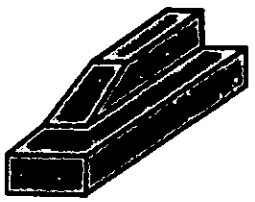
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300	Inclusions: • Thickness of buildup • Grading information (points and edges) • 2D Pattern of joints	 2
350	Inclusions: • Grading information (points and edges) • Expansion joints • Path intersections • Curb ramps • Thickened edges	 2

G2010.20
Roadway Curbs and Gutters

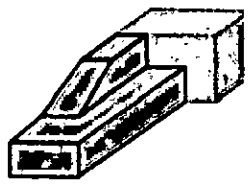
100	See G20	
200	Inclusions: • Full plan extents	 2
300	Inclusions: • Profile of curb • Finish grade (top) • Curb cuts and tapers (e.g. for ramps)	 2

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350	Inclusions: • Rough openings for storm drains or inlets	 2
400	Inclusions: • Chamfers and nosing • joints	

G2010.40
Roadway Appurtenances

See General Notes: Appurtenances

G2020 / 21-07 20 20 / Ss 40 85 72 11
Parking Lots

Includes: Pavement, curbs and gutters, appurtenances, lighting, and parking control equipment for parking lots.May Include: Site earthwork

Associated Masterformat Sections: 01 89 16

G2020.10 / 21-07 20 20 10 / Ss 30 14 05 6
Parking Lot Pavement

Includes: Prepared and compacted soil and granular layers placed prior to installation of parking lot pavement. Includes: Finished parking lot pavement of granular and asphaltic materials. Includes: Finished parking lot pavement with high bending resistance, usually of concrete. Includes: Blocks or tiles used for parking lot pavement. Unit pavers set in mastic, sand, or mortar.

Associated Masterformat Sections: 32 10 00 / 32 12 00 / 32 13 00 / 32 14 00 / 32 15 00

See G2010.10

G2020.20 / 21-07 20 20 20 / Ss 30 75 45
Parking Lot Curbs and Gutters

Includes: Construction at perimeter of parking lot pavement to separate pavement from adjacent surfaces, provide vehicular restraint, and facilitate drainage.

Associated Masterformat Sections: 32 16 13

See G2010.20

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G2020.40 / 21-07 20 20 40 / Ss 40 85 72
Parking Lot Appurtenances

Includes traffic signals, signage, striping.

Associated Masterformat Sections: 32 17 00 / 32 17 13 / 32 17 43 / 10 14 53 / 32 17 23

See General Notes: Appurtenances

G2030 / 21-07 20 30 / Ss 30 14
Pedestrian Plazas and Walkways

Includes: Pavement, curbs and gutters, appurtenances, lighting, and pedestrian control equipment for pedestrian plazas and walkways. Includes exterior steps and ramps. May Include: Site earthwork.

Associated Masterformat Sections: 01 89 16

For Pedestrian control equipment and other street or exterior furniture see E2010 / 21-05 20 10 Fixed Furnishings

For Handrails see C1090.10 / 21-03 10 90 10 Interior Railings and Handrails

For Site Earthwork and Grading see G1070 / 21-07 10 70 10 Grading

For Drainage see G3030 / 21-07-30-30

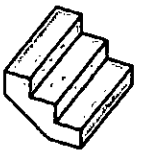
G2030.10
Pedestrian Pavement

See G2010.10

G2030.20
Pedestrian Pavement Curbs and Gutters

See G2010.20

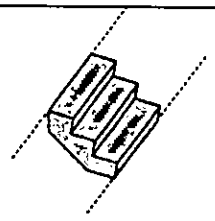
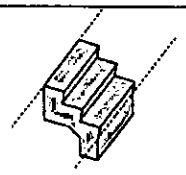
G2030.30
Exterior Steps and Ramps

100	See G20	
200	Inclusions: • Full plan extents	 2

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300	Inclusions: • Stair grades at top and bottom • Nosing	 2
350	Inclusions: • Thickened edges and/or footings	 2
400	Inclusions: • Additional profile and nosing details • Dowels and reinforcing	

G2030.40
Pedestrian Pavement Appurtenances

See General Notes: Appurtenances

G2030.70
Plaza and Walkway Lighting

See G4050

G2030.80
Exterior Pedestrian Control Equipment

See Fundamental LOD Definitions

G2040 / 21-07 20 40 /
Airfields

Includes: Pavement, curbs and gutters, appurtenances, lighting, and airfield signally and control equipment for airfields. May Include: Site earthwork.

Associated Masterformat Sections: 01 89 16

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G2050 / 21-07 20 50 / Ss 30 14
Athletic, Recreational, and Playfield Areas

Includes: Surfacing, fencing, equipment, grandstands and bleachers, and lighting for athletic, recreational, and playfield areas. May Include: Site earthwork.

Associated Masterformat Sections: 01 89 16

For Equipment and Play Structures, see sections 21-01 Substructure & 21-02 Shell.

100	See G20	
200	See G20	
300	Element modeling to include: • Overall size and geometry of all elements • Crossfalls & drainage slopes • Linemarking	
350	Element modeling to include: • Fall zones • Subsurface structure	

G2060 / 21-07 20 60 / --
Site Development

G2060.60 Retaining Walls

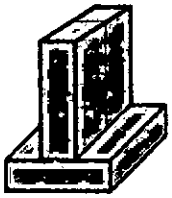
100	See G20	
200	Inclusions: • Full plan extents	 2

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300	Inclusions: • thickness of wall • Top of wall • depth may be approximate	 2
350	Inclusions: • All layers • Footing	 2
400	Inclusions: • Joints • Reinforcing	

G2060.60 Stairs

See G2030.30

G2080 / 21-07 20 80 / -- Landscaping

Includes: Trees, grass, and planting

Associated Masterformat Sections: 31 20 00 / 01 89 13

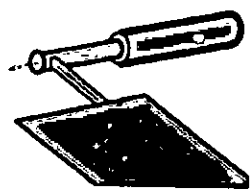
G2080.10 Planting Irrigation

100	See G20	
200	Inclusions: • Schematic layout with approximate size, shape, and location of mainline.	 2

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300	Inclusions: • **Accurate** mainline and point of connection (POC) • Major components (pumps, controllers, flow sensors, etc.) and all fittings (valves, sprinkler heads, etc) and other are shown, though may be diagrammatic and not fully sized on laterals • Major servicing and access clearance requirements are depicted • Concrete pads modeled at **nominal** thickness if applicable • Drip areas designated in plan	 2
350	Inclusions: • Mainline sleeving • Drip lines, may be delineated as massing/area element at specified elevation (in 3d model) • Lateral lines and sleeving are modeled as design-specified size and location	 2
400	Inclusions: • Modeled as **actual** construction elements • **Actual** size, shape, spacing, and location/connections of pipe, valves, fittings, and sleeves	

G2080.20 Turf and Grasses

Includes: Lawns and grasses including seeding and sodding.

For Grasses see G2080.40

100	See G20	
200	Inclusions: • Turf and seeding areas are shown. Areas may be flat or not represented as 3D elements	
300	Inclusions: • All areas are separated by distinct species or mix • Areas or masses follow the grading surface	
350	Inclusions: • Root system is accounted for within the depth of the massing element.	

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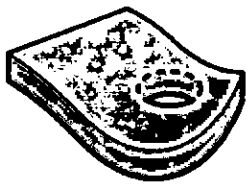
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400		

G2080.30 Plants: Trees and Large Shrubs

G2080.30.10 Groundcovers and Smaller Shrubs.

100	See G20	
200	Inclusions: • Larger mass, zones, or areas. • May be a flat mass or mesh	 2
300	Inclusions: • All areas are separated by distinct species or mix • 3D form that drapes on grade (mass or individual plants)	 2
350	Inclusions: • Clear zones around trees • Individual plants may be shown, though exact location may not be precise. • Root or container element shown for smaller plants or included in thickness for massed areas	 2
400	Inclusions: • All individual plants are shown • Location is exact for install	 2

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G2080.30.20. Trees and Large Shrubs.

100	See G20	
200	Inclusions: • Individual trees location is shown	 2
300	Inclusions: • 3D rootball and clear zone for hole (at installation) - Canopy size at maturity (75-100% height or as noted)	 2
350	Inclusions: • Staking and/or guying • Canopy clearances at maturity	 2
400		

G2080.80 Landscaping Activities

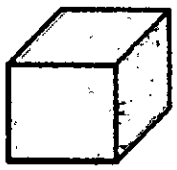
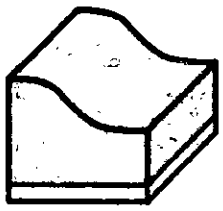
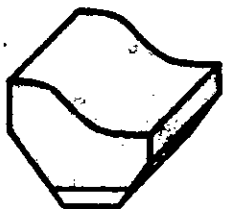
G2080.80.10 Planting Soil (Planting Preparation)

100	See G20	

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200	Inclusions: • Full plan extents • **Nominal** thickness of build up	 2
300	Inclusions: • Finish grade • **Actual** thickness of buildup, including varying bottom slope(s)	 2
350	• Inclusions: • Tapered edges	 2
400		

G2080.80.20 Existing Trees and Plant Protection

Includes: existing trees.

100	See G20	
200	Inclusions: • Existing trees, both to be removed and to retain • Model representation of planting size and extents may be approximate. • Tree protection zone/massing for existing trees	
300	Inclusions: • Location of existing root zone is delineated in plan in the model.	

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350	Inclusions: • Tree protection element/fencing for existing trees is modeled at correct height and shape	
400		

G30 / 21-07 30 / Ss 55 20
Liquid and Gas Site Utilities

Associated Masterformat Sections: 01 89 19

100	Inclusions: • Diagrammatic or schematic elements;	
200	Inclusions: • Schematic layout of generic model elements with approximate size, shape, and location of elements;	

G3010 / 21-07 30 10 / Ss 55 70
Water Utilities

Includes: Water distribution for domestic consumption, fire fighting, and irrigation for a facility site and for multiple facilities. Includes trenching and backfilling. Includes Liquid and Gas Site Utilities Supplementary Components as appropriate.

Associated Masterformat Sections: 33 10 00

100	See G30	
200	See G30	

G3010.10 / 21-07 30 10 10 / Ss 55 70 38
Site Domestic Water Distribution

Includes: Supply wells, piping, equipment, storage tanks, and water ponds and reservoirs.

Associated Masterformat Sections: 01 89 19 / 33 21 00 / 33 11 00 / 33 12 00 / 33 12 13 33 12 16 / 33 12 19 / 33 12 23 / 33 12 33 / 33 13 00 / 33 16 00 / 33 47 19.13 / 33 47 13.13 33 47 16.13

100	See G30	
200	See G30	

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G3010.30 / 21-07 30 10 30 / Ss 55 30 96
Site Fire Protection Water Distribution

Includes: Supply wells, piping, equipment, storage tanks, and water ponds and reservoirs.

Associated Masterformat Sections: 01 89 19 / 33 21 00 / 33 11 19 / 33 12 00 / 33 12 13 / 33 12 16 / 33 12 19 / 33 12 23 / 33 12 33 / 33 16 00 / 33 47 19.33 / 33 47 13.13 / 33 47 16.13

100	See G30	
200	See G30	

G3020 / 21-07 30 20 / --
Sanitary Sewerage Utilities

Includes: Sanitary sewerage for a facility site and for multiple facilities. Includes piping, septic tanks that serve multiple facilities, structures, and lagoons. Includes trenching and backfilling. Includes Liquid and Gas Site Utilities Supplementary Components as appropriate.

Associated Masterformat Sections: 33 30 00 / 01 89 19

100	See G30	
200	See G30	

G3020.20 / 21-07 30 20 20 / Ss 50 35 08 30
Sanitary Sewerage Piping

Associated Masterformat Sections: 33 31 00 / 33 33 00 / 33 34 00

100	See G30	
200	See G30	
300	Inclusions Design-specified elements	

G3020.50 / 21-07 30 20 50 / Ss 50 35 08
Sanitary Sewerage Structures

Associated Masterformat Sections: 33 39 00 / 33 39 13 / 33 39 23

100	See G30	
200	Inclusions: **Element envelopes**	
300	Inclusions: Design-specified elements	

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G3030 / 21-07 30 30 / Ss 50 35 80
Storm Drainage Utilities

Includes: Storm drainage for surface or combination of surface and subsurface water for a facility site or for multiple facilities.Includes piping, culverts, water drains, drainage pumps, Subdrainage, and storm drainage ponds and reservoirs. Includes trenching and backfilling. Includes Liquid and Gas Site Utilities Supplementary Components as appropriate.

Associated Masterformat Sections: 01 89 19

100	See G30	
200	See G30	

G3050 / 21-07 30 50 / Ss 70 30
Site Energy Distribution

Includes: Energy distribution for a facility site or multiple facilities. Includes hydronic heating, steam energy, and hydronic cooling distribution. Includes trenching and backfilling. Includes Liquid and Gas Site Utilities Supplementary Components as appropriate.

100	See G30	
200	See G30	

G3060 / 21-07 30 60 / --
Site Fuel Distribution

Includes: Gas, fuel-oil, gasoline, diesel fuel, and aviation fuel distribution for a facility site or multiple facilities. Includes trenching and backfilling. Includes Liquid and Gas Site Utilities Supplementary Components as appropriate.

100	See G30	
200	See G30	

G3090 / 21-07 30 90 / --
Liquid and Gas Site Utilities Supplementary Components

Includes: Common work results for utilities and instrumentation and control to be included in liquid and gas utility elements above as appropriate.

See General Notes: Supplementary Components

G40 / 21-07 40 / --
Electrical Site Improvements

Associated Masterformat Sections: 01 89 26

100	Inclusions: • Diagrammatic or schematic model elements: • conceptual and/or schematic layout;	

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G4010 / 21-07 40 10 / --
Site Electric Distribution Systems

Description: Electrical wiring systems to distribute electrical power to on the Site. Includes Duct Banks, Pullboxes, vaults and transformers from the utility point of connection, to the building's main electric room.

Associated Masterformat Sections: 01 89 26

100	See G40	
200	Inclusions: • Schematic layout with approximate size, shape, and location of equipment;	
300	Inclusions: • Design-specified size, shape, spacing, and location of equipment and associated components; • Approximate allowances for clearances required for all specified supports and seismic control; • Access/code clearance requirements modeled.	
350	Inclusions: • **Actual** size, shape, spacing, and location of raceways, boxes, and enclosures. • **Actual** size, shape, spacing, and location for supports and seismic control. • **Actual** size, shape, and location/connections of equipment and support structure/pads. • **Actual** floor and wall **penetration elements** are modeled. • **Actual** access/code clearance requirements modeled.	

G4050 / 21-07 40 50 / Ss 70 80 25
Site Lighting

Description: Luminaires, lighting equipment, ballasts, and accessories. Includes fluorescent, high intensity discharge, incandescent, mercury vapor, neon, and sodium vapor lighting. Includes Pole Mount, Building Mount and on-grade fixtures for exterior lighting.

Associated Masterformat Sections: 26 56 29

100	See G40	
200	Inclusions: • Schematic layout with approximate size, shape, and location of equipment;	
300	Inclusions: • Design-specified size, shape, and location of lighting fixtures; • Approximate allowances for spacing and clearances required for all specified hangers, supports and seismic control; • Access/code clearance requirements modeled. • Poles	

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G50 / 21-07 50 / Ss 75 10
Site Communications

100	Diagrammatic or schematic model elements: • conceptual and/or schematic layout; • design performance parameters as defined in the BEP to be associated with model elements as non-graphic information.	

G5010 / 21-07 50 10 / Ss 75 10
Site Communications Systems

Description: Conduit Systems for routing of Communication trunk systems.

Associated Masterformat Sections: 33 80 00

100	See G40	
200	See D6010.10	
300	See D6010.10	

G90 / 21-07 90 / --
Miscellaneous Site Construction

Associated Masterformat Sections: 01 89 29

G9010 / 21-07 90 10 / Ss 37 50 92
Tunnels

Includes: Vehicular, pedestrian, and service tunnels. Includes tunnel boring, bracing and jacking work, linings and casing, grouting support systems, boring machines, and control and spoil removal systems. Includes Tunnel Construction Related Activities as appropriate.

Associated Masterformat Sections: 31 70 00 / 01 89 29

See Fundamental LOD Definitions

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USER GUIDE

0 Overview

0.1 Description

The *Level of Development (LOD) Specification* is a reference that enables practitioners in the AEC Industry to specify and articulate with a high degree of clarity the content and reliability of Building Information Models (BIMs) at various stages in the design and construction process.

The Specification is a detailed interpretation of the LOD schema developed by AIA Contract Documents for its *E201 2022 BIM Exhibit for Sharing Models with Project Participants* defining and illustrating characteristics of model elements of different building systems at different Levels of Development, organized according to CSI Uniformat 2010[5]. Its intent is to help explain the LOD framework and standardize its use so that it becomes more useful as a communication tool.

For Level of Development Definitions See Fundamental LOD Definitions above.

BIM as a Communication Tool

The LOD schema addresses several issues that arise when a BIM is used as a communication or collaboration tool, i.e., when someone other than the author extracts information from it:

1) During the design process, building systems and components progress from a vague conceptual idea to a precise description. In the past, there has been no simple way to designate where a model element is along this path. The author knows, but others often don't.
2) It's easy to misinterpret the precision at which an element is modeled. Hand drawings range from pen strokes on a napkin to hard lines with dimensions called out, and the precision of the drawing can be inferred from its appearance. In a model though, a generic component placed approximately can look exactly the same as a specific component located precisely, so we need something besides appearance to tell the difference.
3) It is possible to infer or extract information from a BIM that the author doesn't intend – unconfirmed dimensions can be measured with precision, assembly information often exists before it's been finalized, etc. In the past, this issue has been sidestepped with all-encompassing disclaimers that basically say, "Since some of the information in the model is unreliable, you may not rely on any of it." The LOD framework allows model authors to clearly state the reliability of given model elements, so the concept becomes "Since some of the information in the model is unreliable, you may only rely on it for what I specifically say you can."
4) In a collaborative environment, where people other than the model author are depending on information from the model in order to move their own work forward, the design work plan takes on high importance – it is necessary for the model users to know when information will be available in order to plan their work. The LOD framework facilitates this.

The LOD Framework addresses these issues by providing an industry-developed standard to describe the state of development of various systems, assemblies, and components within a BIM. This standard enables consistency in communication and execution by facilitating the detailed definition of BIM milestones and deliverables.

0.1.1 LODs and Design Phase

The LODs are not defined by design phases. Rather, design phase completion, as well as any other milestone or deliverable, can be defined through the LOD language. There are several important reasons for this approach:

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1) There is currently no detailed standard for the design phases. Many architects have created in-house standards, but these differ from one firm to the next, and even within a single firm the requirements are sometimes adjusted to the needs of a project.
2) Building systems progress from concept to precise definition at different rates, so at any given time different elements will be at different points along this progression. At completion of the Schematic Design phase, for example, the model will include many elements at LOD 200, but will also include many at LOD 100, as well as some at LOD 300, and possibly even LOD 400.

0.1.2 LODs and Model Definition

There is no such thing as an "LOD ### model." As previously noted, project models at any stage of delivery will invariably contain elements and assemblies at various levels of development. As an example, it is not logical to require an "LOD 200 model" at the completion of the schematic design phase. Instead, the "100% SD Model" will contain modeled elements at various levels of development.

0.2 Intent

0.2.1 Not a Set of Requirements

The Specification is not a set of requirements as to what is modeled when or by whom. Rather it is a language by which users can define these requirements for their own firms or projects. This clear articulation allows model authors to define what their models can be relied on for, and allows downstream users to clearly understand the usability and the limitations of models they are receiving.

To accomplish the Specification's intent, its primary objectives are:

1) To help teams, including owners, to specify BIM deliverables and to get a clear picture of what will be included in a BIM deliverable
2) To help design managers explain to their teams the information and detail that needs to be provided at various points in the design process, and to track progress of their models
3) To allow downstream users to rely on specific information in models they receive from others.
4) To provide a standard that can be referenced by contracts and BIM execution plans.

0.2.2 Complements a BIM Execution Plan (BEP)

This Specification does not replace a project BEP, but rather is intended to be used in conjunction with such a plan, providing a means of defining models for specific information exchanges, milestones in a design work plan, and deliverables for specific functions.

0.3 Background

0.3.1 AIA Effort

In 2008, the AIA published its first set of Level of Development definitions in AIA Document *E202™-2008 Building Information Modeling Protocol*. Due to the rapidly evolving nature of the use of BIM, the AIA evaluated the *E202–2008*, including the LOD definitions. The result is the updated and reconfigured Digital Practice documents, *AIA E203™–2013, Building Information Modeling and Digital Data Exhibit*, *AIA G201™–2013, Project Digital Data Protocol Form*, and *AIA G202™–2013, Project Building Information Modeling Protocol Form*, which are accompanied by a detailed guide document entitled *Guide and Instructions to the AIA Digital Practice Documents*. The AIA's updated Digital Practice documents include revised LOD definitions.

0.3.2 BIMForum Effort

In 2011 the BIMForum initiated the development of this LOD Specification and formed a working group comprising contributors from both the design and construction sides of the major disciplines. To help further the standardization and consistent use of the LOD schema, and to increase its usefulness as a foundation for collaboration, the AIA licensed the BIMForum to utilize its latest LOD definitions in this Specification. The BIMForum working group first interpreted the AIA's basic LOD definitions for each building system, and then compiled examples to illustrate the interpretations. Because BIM is being put to an ever-increasing number of uses, the group

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decided that it was beyond the initial scope to address all of them. Instead, the definitions were developed to address model element geometry, with three of the most common uses in mind – quantity take-off, 3D coordination and 3D control and planning. The group felt that in taking this approach the interpretations would be complete enough to support other uses.

1 Using the Specification

1.1 Details

1.1.1 Order of Precedence

The body of this Specification expands on the Fundamental Definitions as they apply to specific building systems and sub-systems. In the event of any conflict, more specific expansions take precedence over less specific expansions and Fundamental Definitions, e.g. the expanded definitions for C1010 take precedence over those for C10, which in turn take precedence over the Fundamental Definitions.

1.1.2 LOD Definitions as Minimum Requirements

The LODs provide five snapshots of the progression of an element from conceptual to specified – there are many steps in this progression between the defined LODs. The LOD definitions, then, should be considered minimum requirements – i.e. an element has progressed to a given LOD only when all the requirements stated in the definition have been met.

1.1.3 LOD Definitions are Cumulative

For a given element each LOD definition includes the requirements of all previous LODs. Thus, for an element to qualify for LOD 300 it must meet all the requirements for 200 and 100 as well as those stated in the LOD 300 definition.

1.1.4 Model Element Author

This document does not prescribe who the author of a particular component at a given LOD should be – the sequence of responsibility for modeling various systems will vary from one project to another. To accommodate this variation this document defers to the concept of Model Element Author (MEA) as defined in the *AIA E203-2013*: "The Model Element Author is the entity (or individual) responsible for managing and coordinating the development of a specific Model Element to the LOD required for an identified Project milestone, regardless of who is responsible for providing the content in the Model Element." [6]

1.1.5 2D Supplementary Drawings

In current practice models are often supplemented with 2D information such as detail drawings. This Specification does not address this supplementation, but rather deals only with what is modeled in 3D and non-graphic information associated with the modeled elements.

1.2 Project-Specific Information

As mentioned in the Overview above, this Specification is intended to be used in conjunction with a project BIMXP. Many information needs will vary from project to project, even for identical elements. This kind of information is therefore not included in the LOD definitions specified here, but rather is left to be addressed in individual BIMXPs. The following are some notable examples.

1.2.1 Size Thresholds

In most projects, a determination is made to model certain elements only if they are over a specified size – e.g. conduit less than 1/2" (10 mm) diameter is not modeled. These size thresholds do not consistently correspond to certain LODs, and they vary from project to

[6] AIA Document *E203-2013 Building Information Modeling and Digital Data Exhibit,* Article 1.4.6. Copyright © American Institute of Architects 2013. All rights reserved. Definition quoted here by permission.

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project. Thus, they are not specified in the LOD definitions but rather in the project's BIMXP, for example using the "Notes" cells in the Model Element Table of the *AIA G202-2013*.

1.3 Using the Specification with a BEP

Most BEPs include a section that details milestones as well as information exchanges – models to be produced to exchange specific information at specific points in a specific BIM use. In most cases, though, current practice is to accompany these models with the common "for reference only" disclaimer, diluting the effectiveness of the exchange. Referencing this Specification in the BIMXP and using it to concisely define the milestone and information exchange models brings many efficiencies to the process – among them:

1.3.1 Reliance

As noted above (see "BIM as a Communication Tool"), a major problem with allowing others to rely on a BIM is that it can contain information the author doesn't intend. By defining a model through the LOD Specification the author can limit reliance to only what he/she specifically states.

1.3.2 Multiple uses

Much model information is common across several information exchanges. This Specification facilitates the definition of models that will support multiple exchanges.

1.3.3 Efficient sequencing

The development of models as the design and construction process progresses follows logical sequences – much information depending on the prior development of other information. The definition of milestones, information exchanges, and other deliverables through this Specification facilitates the orderly sequencing of models to align with efficient development of information.

1.3.4 Avoidance of over-modeling

The LOD Specification facilitates the application of a pull-planning process to the modeling effort, limiting the development of model elements and information to that which the team identifies as useful.

Note that the definition and sequencing of models usually cannot be set in stone when the BIMXP is first developed. In most cases the modeling plan must evolve as the project progresses.

1.4 Implementation of the Specification

Currently, two methods of implementation have been developed.

1.4.1 Rely on the Model Element Table

Project team refers to a Model Element Table such Article 3.3 of the AIA G202-2013 or Part II of this Specification for the LODs of model elements. In this method, all elements referred to in a given Model Element Table line item are assumed to be at the LOD stated there. E.g. if the table lists interior doors as LOD 200 for a given model, all interior doors within the model are assumed to be at LOD 200.

1.4.2 Include LOD Designations as Attributes of Individual Model Elements

All elements within the model are provided with two attributes – Current LOD (the actual LOD of the element) and Target LOD (the LOD specified for that element in the Model Element Table). Elements default to a Current LOD of 100 or 200 as appropriate, and this attribute is elevated as the element is more fully developed. This method offers more flexibility and reliability, allowing differentiation between individual elements within a single model element table line item. Several software offerings provide the functionality of highlighting elements of various LODs or elements whose Current LOD is less than the Target LOD.

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2 ORGANIZATION OF THE SPECIFICATION

2.1 Geometric and Attribute Information

To facilitate use of this Specification Attachment 1, Model Development Specification (MDS) has been provided. This attachment is a set of spreadsheets that can be used to collect and correlate LOD Information for a specific project.

A model element can contain two types of information: a) the element's geometry and b) associated numeric and/or textual attributes. To address these types of information this Specification contains two parts:

2.1.1 Part I: Element Geometry

Part I consists of narrative descriptions and illustrations of specific model elements at each LOD. Part I forms the bulk of this document.

2.1.2 Part II: Associated Attribute Information

Part II is contained in Attachment 1, a workbook that begins with the Model Element Table which mirrors the layout of the Model Element Table in the AIA *G202-2013 Building Information Modeling Protocol Form*, and can be referenced by that document. The Model Element Table references Attribute Tables that contain attribute information for various building systems.

2.1.3 Model Element Table

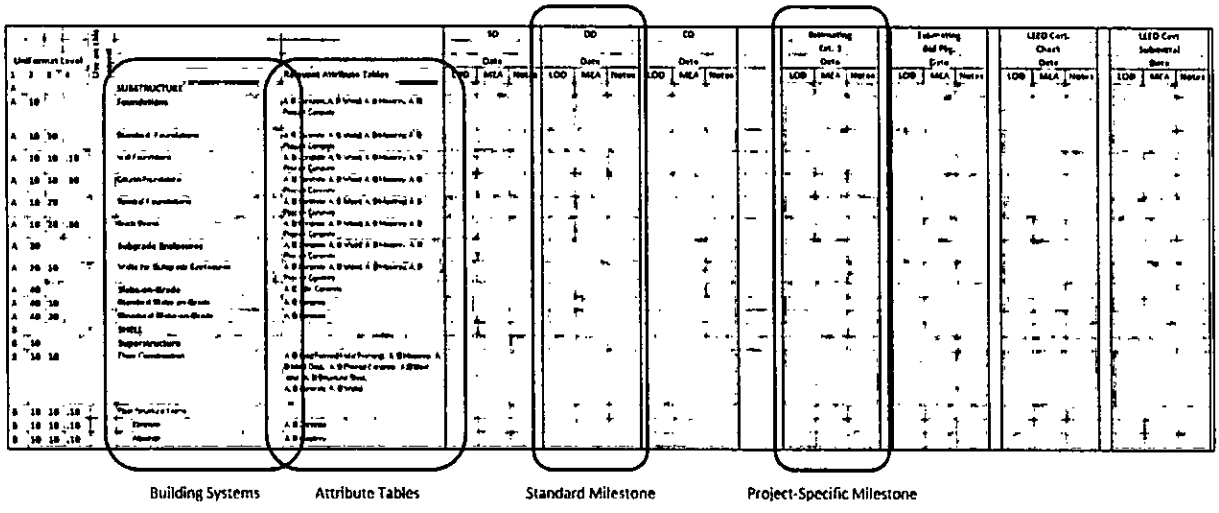


Figure 1. Model Element Table

2.1.4 Building Systems

The rows of the Model Element Table (Figure 1) are building elements listed in accordance with CSI Uniformat 2010. The table also lists Relevant Attribute Tables for each system, referring to the tabs containing attribute information for the associated system(s). If desired, users can add Attribute Tables for specific line items.

2.1.5 Milestones/Deliverables

The table includes columns for defining the LODs for various milestones within a project. Each milestone column has three sub-columns: Level of Development (LOD), Model Element Author (MEA), and Notes. The table in Attachment 1 shows standard milestones for the completion of the traditional design phases as well as examples of Project-Specific Milestones for interim reviews, specific

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deliverables, BIM-Use information exchanges, etc. Users are encouraged to modify and add to these milestones as necessary. Once the milestones for a project have been determined, they can be re-ordered into a logical sequence as in Figure 2.

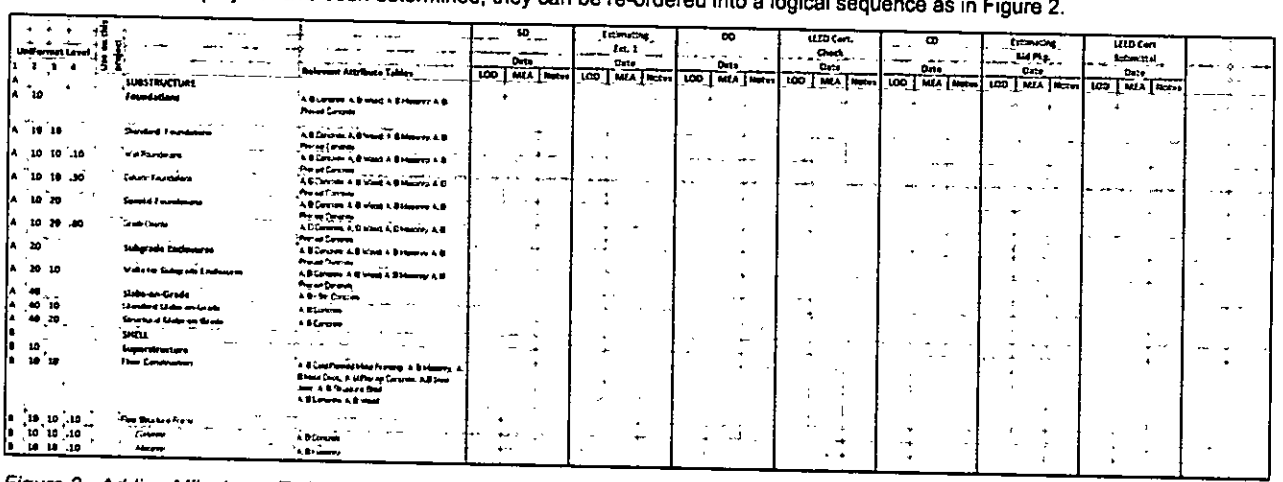


Figure 2. Adding Milestones/Deliverables to the Model Element Table

2.1.6 Attribute Tables

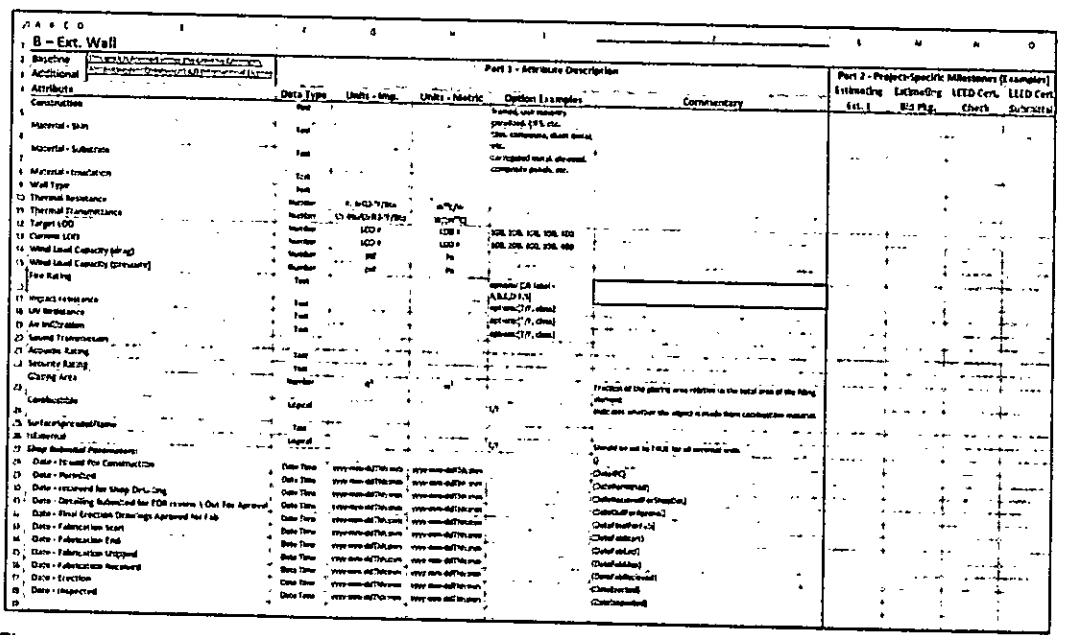


Figure 3. Typical Attribute Table

2.1.7 Attribute Table Anatomy

Attribute Tables consist of two parts.

1) Part 1, Attribute Description, lists Attributes relevant to the associated building system(s).
   - Attributes are grouped into two categories as shown – Baseline and Additional.

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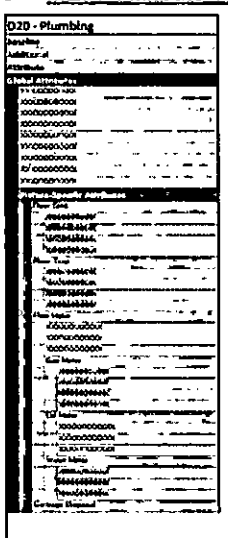
- The Baseline is the suggested list of attributes to be populated when no other requirements are known (BIM Uses, specific deliverables, etc.).
- The Additional category may be thought of as a "shopping list" – a list of possible attributes the team may want to consider.

- Data Types. For simplicity, the published Attribute Tables use only the following data types, but users setting up data for use in specific software may want to add others.

Text	An alphanumeric string not intended for use in calculations. E.g. room numbers are often considered text (even where they only contain numbers) since the numbers are not useful for calculations.
Number	A numerical value that can be entered directly into a program that will use it as input to calculations. Note that no distinction is made here between integers and real numbers.
Logical	Boolean in computer science terminology. A binary yes/no indication. Values for this type can be T or F, 1 or 0.
Date	ISO format is used in these tables: yyyy-mm-dd
Time	ISO format is used in these tables: hh:mm:ss
Datetime	ISO format is used in these tables: yyyy-mm-ddThh:mm:ss

2) Part 2, Milestones, is used to mark the attributes required for specific milestones and deliverables. The tables in Attachment 1 include example milestones, but users will customize the tables by copying the milestones they created for the Model Element Table.

2.1.8 MEPF Attribute Tables



The MEPF attribute tables use a somewhat different format than other sections, since components from multiple systems might be used to make up a specific element. For example, an air handler is primarily a D30 HVAC element, but can include plumbing, fire protection and electrical elements as well.

The MEP Systems tabs are grouped into two types:

- System component elements: D20 Plumbing, D30 HVAC, D40 Fire Protection and D50 Electrical.
- System distribution elements such as ducts, pipes, and cables: D Air Distribution, D Fluid Gas Distribution and D Electrical Distribution.

MEPF attribute tables are broken down into two main sections

- Global: Attributes that are common to all elements within the table
- Item-Specific: The suggested set of additional attributes that are specific to an individual type of element. In many tables, the individual elements are organized into a hierarchy of classes and sub-classes. In these cases, the attributes applicable to a specific element include those listed for the element itself plus those listed in any of the classes above it in the hierarchy. E.g. as Figure 4 shows, the attributes for an oil meter include all those shown in bold.

Note: System Component elements use both the Global and Item-Specific attributes sections, while System Distribution elements use only the Item-Specific attribute section.

Figure 4. MEPF Attribute Table Breakdown Structure

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BOGOTÁ Instituto Distrital de Recreación y Deporte	CONTRATAR LAS OBRAS Y ACTIVIDADES COMPLEMENTARIAS DEL CENTRO DE ALTO RENDIMIENBTO EN EL AMRCO DE LA MANZANA DEL CUIDADO DEL PORVENIR (GIBRALTAR). LOCALIDAD DE KENNEDY – BOGOTA			CONSORCIO GIBRALTAR
CONSORCIO GIBRALTAR	CONTRATO DE OBRA No. IDRD-CTO-3203-2023	fecha:		
CONSORCIO INTERVENTORES GIBRALAR	CONTRATO DE OBRA No.	ANEXO 09 COORDINACION OBRA	Version 01	

ITEM	MATRIZ DE INTERFERENCIAS				ESPECIALIDAD	TIEMPO DE SOLUCION
	ISSUES ACC 360	GRAFICO BIM 360	Comentario	prioridad		
1	1		Realiza ducto en placa		ESTRUCTURA VS HVAC	TIEMPO DE SOLUCION 8 DIAS
2	2			MEDIA-CLASH BLANDO		TIEMPO DE SOLUCION 15 DIAS
3	3			BAJA CLASH FALSO		SE CORRIGE CON EL MODELO AS-BUILD

Nota: La coordinación de obra se realiza basada en los diseños existentes, si existen afectaciones que por su complejidad se requiera la intervención del diseñador, se informara oportunamente, para que el equipo de consultoria realice los ajustes respectivos.

BOGOTÁ

INDICADORES SPI

CONTRATO DE OBRA No. IDRD-CTO-3203-2023

CONTRATAR LAS OBRAS Y ACTIVIDADES COMPLEMENTARIAS DEL CENTRO DE ALTO RENDIMIENBTO EN EL AMRCO DE LA MANZANA DEL CUIDADO DEL PORVENIR (GIBRALTAR). LOCALIDAD DE KENNEDY – BOGOTA

CONSORCIO

	1 PRELIMINARES	0.0%		6 abr '24	6 abr '24	0%				0%	$	0%	
01.1.10	DEMOL MANUAL ANDEN CONC E=0.20M INCL CARGUE-RET	0.0%	7 157 361,33	6 abr '24	20 abr '24	0%				0%	$		
01.1.9	DEMOL CERRAM E= 15 MXT HMAS=1+HMET=2+CARGE+RETI"	0.0%	34 818 786,90	6 abr '24	20 abr '24	0%				0%	$		
		0.0%		6 abr '24	20 abr '24	0%				0%	$		
01.1.1 1	TALA ARBOL HASTA ALTURA DE 5MTS (CORC-TUNAL)	0.0%	12 867 658,66	6 abr '24	20 abr '24	0%				0%	$		
01.1.1 2	TALA ARBOL MAS DE 5MTS DE ALTURA (CORC-TUNAL)	0.0%	451 728,99	6 abr '24	20 abr '24	0%				0%	$		
01.1.1 3	TALA DE ARBOLES - IGUAL O MAYOR A 10 MTS Y MENOR DE 15 MTS - MEDIO GRADO DE DIFICULTAD	0.0%	1 898 458,89	6 abr '24	20 abr '24	0%				0%	$		
01.1.1 4	BLOQUEO Y TRASLADO DE ARBOLES ENTRE 2 – 4.99 MTS	0.0%	1 862 250,82	6 abr '24	20 abr '24	0%				0%	$		
01.1.1 5	BLOQUEO Y TRASLADO DE ARBOLES ENTRE 5 – 9.99 MTS	0.0%	1 499 278,89	6 abr '24	20 abr '24	0%				0%	$		
		0.0%		6 abr '24	6 jun '24	0%				0%	$		
01.1.2 1	MANEJO DE MATERIAL ESPECIAL PROVENIENTE DE LA EXCAVACION CONSISTENTE EN MATERIAL DE TIERRAS VARIAS MEZCLADO CON BASURAS	0.0%	5 884 402 220,00	15 abr '24	8 jun '24	0%				0%	$		
01.1.2 1	MANEJO DE MATERIAL ESPECIAL PROVENIENTE DE LA EXCAVACION CONSISTENTE EN MATERIAL DE TIERRAS VARIAS MEZCLADO CON BASURAS	0.0%	4 816 094 352,00	15 abr '24	8 jun '24	0%				0%	$		
01.1.2 1	MANEJO DE MATERIAL ESPECIAL PROVENIENTE DE LA EXCAVACION CONSISTENTE EN MATERIAL DE TIERRAS VARIAS MEZCLADO CON BASURAS	0.0%	285 972 496,40	15 abr '24	11 may '24	0%				0%	$		
01.1.2 2	REDES DE DRENAJE, ALMACENAMIENTO Y MANEJO DE MATERIAL LIQUIDO DRENANTE PRODUCTO DEL MATERIAL DE TIERRA MEZCLADO CON BASURAS EXISTENTE EN LA CAPA INFERIOR AL NIVEL -1.00	0.0%	88 013 428,41	15 abr '24	11 may '24	0%				0%	$		
01.1.2 2	REDES DE DRENAJE, ALMACENAMIENTO Y MANEJO DE MATERIAL LIQUIDO DRENANTE PRODUCTO DEL MATERIAL DE TIERRA MEZCLADO CON BASURAS EXISTENTE EN LA CAPA INFERIOR AL NIVEL -1.00	0.0%	89 456 787,37	15 abr '24	11 may '24	0%				0%	$		
01.1.2 2	REDES DE DRENAJE, ALMACENAMIENTO Y MANEJO DE MATERIAL LIQUIDO DRENANTE PRODUCTO DEL MATERIAL DE TIERRA MEZCLADO CON BASURAS EXISTENTE EN LA CAPA INFERIOR AL NIVEL -1.00	0.0%	4 128 224,10	15 abr '24	8 jun '24	0%				0%	$		
01.1.2 3	DOTACION DE ELEMENTOS DE SEGURIDAD EN OBRA PARA EL MANEJO DE MATERIAL DE TIERRA MEZCLADO CON BASURAS EXISTENTE EN LA CAPA INFERIOR AL NIVEL -1.00	0.0%	11 873 650,00	15 abr '24	11 may '24	0%				0%	$		
01.1.2 4	TRANSPORTE INTERNO Y ACOPIO DE MATERIAL ESPECIAL PROVENIENTE DE LA EXCAVACION CONSISTENTE EN MATERIAL DE TIERRAS VARIAS MEZCLADO CON BASURAS	0.0%	438 688 412,30	15 abr '24	27 abr '24	0%				0%	$		
01.1.2 4	TRANSPORTE INTERNO Y ACOPIO DE MATERIAL ESPECIAL PROVENIENTE DE LA EXCAVACION CONSISTENTE EN MATERIAL DE TIERRAS VARIAS MEZCLADO CON BASURAS	0.0%	368 478 056,10	15 abr '24	27 abr '24	0%				0%	$		
01.1.2 4	TRANSPORTE INTERNO Y ACOPIO DE MATERIAL ESPECIAL PROVENIENTE DE LA EXCAVACION CONSISTENTE EN MATERIAL DE TIERRAS VARIAS MEZCLADO CON BASURAS	0.0%	21 279 713,83	15 abr '24	11 may '24	0%				0%	$		
		0.0%		15 abr '24	3 feb '25	0%				0%	$		
01.3.1	RED AGUA PROVISIONAL ±50 M)	0.0%	1 331 570,00	15 abr '24	4 may '24	0%				0%	$		
01.3.2	PROVISIONAL ELECTRICA	0.0%	18 431 318,00	15 abr '24	3 jun '24	0%				0%	$		
		0.0%		6 may '24	3 jun '24	0%				0%	$		
01.4.1	INSTALACION DE VALLA ESPECIAL (3x6M)	0.0%	730 900,80	15 abr '24	4 may '24	0%				0%	$		
01.4.3	LOCALIZACION Y REPLANTEO - INCLUYE AREAS EXTERIORES	0.0%	281 449 268,20	15 abr '24	1 jun '24	0%				0%	$		
01.4.5	EXCAVACION EN MATERIAL DE TERRENO MIXTO E= 0.80 MTS	0.0%	338 409 511,40	6 may '24	28 oct '24	0%				0%	$		
01.4.5	EXCAVACION EN MATERIAL DE TERRENO MIXTO E= 0.80 MTS	0.0%	278 536 318,10	20 may '24	18 jun '24	0%				0%	$		
01.4.5	EXCAVACION EN MATERIAL DE TERRENO MIXTO E= 0.80 MTS	0.0%	16 413 503,29	28 may '24	31 may '24	0%				0%	$		
		0.0%		4 jun '24	31 ene '25	0%				0%	$		
01.5.1	ACOMETIDA PRIVADA 3/4 - 1/2 - 1/2	0.0%	7 402 799,85	2 ene '24	12 oct '24	0%				0%	$		
01.5.2	CONCRETO CICLOPEO 3000 P.S.I	0.0%	38 474 749,77	12 ene '24	12 oct '24	0%				0%	$		
		0.0%		2 sep '24	28 oct '24	0%				0%	$		
01.7.4	CERRAMIENTO LAMINA TRAPEZOIDAL CAL 24/TUBO RECT+LAMIN	0.0%	404 746 761,39	30 sep '24	28 oct '24	0%				0%	$		
01.7.8	PUERTA DE ENTRADA H=2.50M A=3.00M (2 HOJAS)"	0.0%	3 238 270,00	20 may '24	18 jun '24	0%				0%	$		
01.7.8	PUERTA LAMINA C. R. CAL 18 PERFOR+MARCO	0.0%	325 749,80	28 may '24	31 may '24	0%				0%	$		
		0.0%		4 jun '24	31 ene '25	0%				0%	$		
01.9.1	RELLENO MATERIAL SELECC E=CAVA CON SUMINISTR	0.0%	149 482 447,10	4 jun '24	31 ene '25	0%				0%	$		
01.9.1	RELLENO MATERIAL SELECC E=CAVA CON SUMINISTR	0.0%	121 334 437,20	4 jun '24	31 ene '25	0%				0%	$		
01.9.1	RELLENO MATERIAL SELECC E=CAVA CON SUMINISTR	0.0%	7 297 508,78	4 jun '24	31 ene '25	0%				0%	$		
01.9.2	RELLENO MATERIAL E=CAVA CON SUM+TRASL	0.0%	46 519 344,20	4 jun '24	31 ene '25	0%				0%	$		
01.9.2	RELLENO MATERIAL E=CAVA CON SUM+TRASL	0.0%	0,00	4 jun '24	31 ene '25	0%				0%	$		
01.9.2	RELLENO MATERIAL E=CAVA CON SUM+TRASL	0.0%	38 333 453,85	4 jun '24	31 ene '25	0%				0%	$		
01.9.2	RELLENO MATERIAL E=CAVA CON SUM+TRASL	0.0%	0,00	2 ene '24	12 oct '24	0%				0%	$		
01.9.2	RELLENO MATERIAL E=CAVA CON SUM+TRASL	0.0%	2 275 361,78	12 ene '24	12 oct '24	0%				0%	$		
01.9.7	RELLENO MATERIAL E=CAVA CON SUM+TRASL	0.0%	0,00	12 ene '24	12 oct '24	0%				0%	$		
2	CIMENTACIÓN	0.0%		2 ene '24	12 oct '24	0%				0%	$		
02.1.1	EXCAVACION MECANICA SIN RETIRO SUELO BLANDO "	0.0%	173 272 496,20	2 ene '24	12 oct '24	0%				0%	$		
02.1.2	EXCAVA MANUAL+RETIRO SUELO BLANDO+TRASEGO+50%CORC	0.0%	121 190 583,60	2 ene '24	12 oct '24	0%				0%	$		
02.1.2	EXCAVA MANUAL+RETIRO SUELO BLANDO+TRASEGO+50%CORC	0.0%	139 817 561,40	2 ene '24	12 oct '24	0%				0%	$		
02.1.2	EXCAVA MANUAL+RETIRO SUELO BLANDO+TRASEGO+50%CORC	0.0%	8 298 804,86	2 ene '24	12 oct '24	0%				0%	$		
02.1.3	EXCAVACION MANUAL PREHUECOS (PILOTES) PARA CIMENTACION PROFUNDA	0.0%	8 813 952,56	2 ene '24	12 oct '24	0%				0%	$		
02.1.3	EXCAVACION MANUAL PREHUECOS (PILOTES) PARA CIMENTACION PROFUNDA	0.0%	2 201 962,10	2 ene '24	12 oct '24	0%				0%	$		
02.1.3	EXCAVACION MANUAL PREHUECOS (PILOTES) PARA CIMENTACION PROFUNDA	0.0%	427 580,12	2 ene '24	12 oct '24	0%				0%	$		
		0.0%		2 ene '24	12 oct '24	0%				0%	$		
02.3.41	SUMINISTRO, ARMADO E INSTALACION DE DADOS DE CIMENTACION EN CONCRETO DE 4000 PSI	0.0%	983 524 140,20	2 ene '24	12 oct '24	0%				0%	$		
02.3.41	SUMINISTRO, ARMADO E INSTALACION DE DADOS DE CIMENTACION EN CONCRETO DE 4000 PSI	0.0%	817 201 751,80	2 ene '24	12 oct '24	0%				0%	$		
02.3.41	SUMINISTRO, ARMADO E INSTALACION DE DADOS DE CIMENTACION EN CONCRETO DE 4000 PSI	0.0%	48 211 975,37	2 ene '24	28 oct '24	0%				0%	$		
		0.0%		30 sep '24	28 oct '24	0%				0%	$		
02.4.73	SUBCONTRATO PARA LA EXCAVACION ARMADO Y FUNDIDA PILOTE TIPO «ELLY 8.50U 3500 PSI, DE PROFUNDIDAD VARIABLE	0.0%	61 941 993,00	30 sep '24	28 oct '24	0%				0%	$		
02.4.73	SUBCONTRATO PARA LA EXCAVACION ARMADO Y FUNDIDA PILOTE TIPO «ELLY 8.50U 3500 PSI, DE PROFUNDIDAD VARIABLE	0.0%	51 616 661,81	30 sep '24	28 oct '24	0%				0%	$		
02.4.73	SUBCONTRATO PARA LA EXCAVACION ARMADO Y FUNDIDA PILOTE TIPO «ELLY 8.50U 3500 PSI, DE PROFUNDIDAD VARIABLE	0.0%	3 093 844,95	28 sep '24	17 oct '24	0%				0%	$		
02.4.74	SUBCONTRATO PARA LA EXCAVACION ARMADO Y FUNDIDA PILOTE TIPO «ELLY 8.00U 3500 PSI, DE PROFUNDIDAD VARIABLE	0.0%	7 615 967 832,00	17 jul '24	31 ene '25	0%				0%	$		

02.4.74	SUBCONTRATO PARA LA EXCAVACION ARMADO Y FUNDIDA PILOTE TIPO KELLY Ø 60M 3500 PSI DE PROFUNDIDAD VARIABLE	0.0%	2.301.106.818,00	18 jul '24	16 sep '24	0%				0%	$	
02.4.74	SUBCONTRATO PARA LA EXCAVACION ARMADO Y FUNDIDA PILOTE TIPO KELLY Ø 80M 3500 PSI DE PROFUNDIDAD VARIABLE	0.0%	136.592.629,40	18 jul '24	28 oct '24	0%				0%	$	
02.4.75	SUBCONTRATO PARA LA EXCAVACION ARMADO Y FUNDIDA PILOTE TIPO KELLY Ø 70M 3500 PSI DE PROFUNDIDAD	0.0%	2.278.686.842,00	2 ago '24	28 oct '24	0%				0%	$	
02.4.75	SUBCONTRATO PARA LA EXCAVACION ARMADO Y FUNDIDA PILOTE TIPO KELLY Ø 70M 3500 PSI DE PROFUNDIDAD	0.0%	2.230.469.874,00	30 sep '24	11 dic '24	0%				0%	$	
02.4.73	SUBCONTRATO PARA LA EXCAVACION ARMADO Y FUNDIDA PILOTE TIPO KELLY Ø 70M 3500 PSI DE PROFUNDIDAD	0.0%	137.611.209,70	15 oct '24	11 dic '24	0%				0%	$	
02.4.76	SUBCONTRATO PARA LA EXCAVACION ARMADO Y FUNDIDA PILOTE TIPO KELLY Ø 80M 3500 PSI DE PROFUNDIDAD VARIABLE	0.0%	2.208.867.061,00	29 oct '24	11 ene '25	0%				0%	$	
02.4.76	SUBCONTRATO PARA LA EXCAVACION ARMADO Y FUNDIDA PILOTE TIPO KELLY Ø 80M 3500 PSI DE PROFUNDIDAD VARIABLE	0.0%	1.805.815.199,00	26 nov '24	11 ene '25	0%				0%	$	
02.4.76	SUBCONTRATO PARA LA EXCAVACION ARMADO Y FUNDIDA PILOTE TIPO KELLY Ø 80M 3500 PSI DE PROFUNDIDAD VARIABLE	0.0%	197.190.509,10	18 jul '24	16 sep '24	0%				0%	$	
02.4.91	DESCABECE DE PILOTES DE CONCRETO, A UNA ALTURA DE 1.00 MTS DESCUBRIENDO EL ACERO DE REFUERZO	0.0%	95.278.861,38	18 jul '24	28 oct '24	0%				0%	$	
02.4.91	DESCABECE DE PILOTES DE CONCRETO, A UNA ALTURA DE 1.00 MTS DESCUBRIENDO EL ACERO DE REFUERZO	0.0%	77.656.168,95	2 ago '24	28 oct '24	0%				0%	$	
02.4.91	DESCABECE DE PILOTES DE CONCRETO, A UNA ALTURA DE 1.00 MTS DESCUBRIENDO EL ACERO DE REFUERZO	0.0%	4.620.229,90	2 ago '24	28 oct '24	0%				0%	$	
		0.0%		2 ago '24	28 oct '24	0%				0%	$	
02.5.11	SUMINISTRO ARMADO E INSTALACION DE MUROS DE CONTENCION EN CONCRETO FUNDIDO E=0.30M 4000 PSI	0.0%	600.159.970,10	2 ago '24	28 oct '24	0%				0%	$	
		0.0%		2 ago '24	28 oct '24	0%				0%	$	
02.6.11	SUMINISTRO, ARMADO E INSTALACION DE PLACA ALIGERADA CON TORTA SUPERIOR ENTRE 12 Y 15 CMS Y SIN TORTA INFERIOR A LA VISTA HASTA E= 1.00 MTS EN CONCRETO DE 4000 PSI - INCLUYE VIGAS Y SUS SOBREANCHOS	0.0%	8.678.934.149,00	2 ago '24	28 oct '24	0%				0%	$	
		0.0%		2 ago '24	28 oct '24	0%				0%	$	
02.7.1	SUMINISTRO E INSTALACION DE CONCRETO DE 2000PSI (CONCRETO DE LIMPIEZA) PARA BASES DE CIMENTACION	0.0%	129.569.131,00	30 sep '24	11 dic '24	0%				0%	$	
02.7.1	SUMINISTRO E INSTALACION DE CONCRETO DE 2000PSI (CONCRETO DE LIMPIEZA) PARA BASES DE CIMENTACION	0.0%	114.049.516,00	15 oct '24	11 dic '24	0%				0%	$	
02.7.1	SUMINISTRO E INSTALACION DE CONCRETO DE 2000PSI (CONCRETO DE LIMPIEZA) PARA BASES DE CIMENTACION	0.0%	6.788.787,50	15 oct '24	11 dic '24	0%				0%	$	
		0.0%		29 oct '24	11 dic '24	0%				0%	$	
02.8.1	SUMINISTRO E INSTALACION DE ACERO 60.000 PSI=420 MPA - INCLUYE ALAMBRE NEGRO DE AMARRE	0.0%	4.938.668.896,00	29 oct '24	11 ene '25	0%				0%	$	
02.8.1	SUMINISTRO E INSTALACION DE ACERO 60.000 PSI=420 MPA - INCLUYE ALAMBRE NEGRO DE AMARRE	0.0%	4.675.719.709,00	26 nov '24	11 ene '25	0%				0%	$	
02.8.1	SUMINISTRO E INSTALACION DE ACERO 60.000 PSI=420 MPA - INCLUYE ALAMBRE NEGRO DE AMARRE	0.0%	729.952.239,90	26 nov '24	11 ene '25	0%				0%	$	
02.9.2	SUMINISTRO E INSTALACION DE MALLA ELECTROSOLDADA ESTANDAR - INCLUYE ALAMBRE NEGRO DE AMARRE	0.0%	672.290.998,10	26 nov '24	11 ene '25	0%				0%	$	
02.9.2	SUMINISTRO E INSTALACION DE MALLA ELECTROSOLDADA ESTANDAR - INCLUYE ALAMBRE NEGRO DE AMARRE	0.0%	508.813.050,10	26 nov '24	29 oct '24	0%				0%	$	
02.9.2	SUMINISTRO E INSTALACION DE MALLA ELECTROSOLDADA ESTANDAR - INCLUYE ALAMBRE NEGRO DE AMARRE	0.0%	30.165.703,53	26 oct '24	3 feb '25	0%				0%	$	
3	DESAGÜES E INSTALACIONES SUBTERRANEAS	0.0%		29 oct '24	16 ene '24	0%				0%	$	
03.1.1	EXCAVACION MANUAL SIN RETIRO EN SUELO BLANDO "	0.0%	70.178.993,73	29 oct '24	16 dic '24	0%				0%	$	
		0.0%		14 nov '24	16 dic '24	0%				0%	$	
03.2.2	Relleno sin arena Pedro compactado manualmente	0.0%	662.704.019,45	26 nov '24	3 ene '25	0%				0%	$	
03.2.3	RELLENOS RECEBO COMUN	0.0%	0	12 dic '24	31 ene '25	0%				0%	$	
03.2.3	RELLENOS RECEBO COMUN	0.0%	0	16 dic '24	1 feb '25	0%				0%	$	
03.2.3	RELLENOS RECEBO COMUN	0.0%	0	13 ene '25	1 feb '25	0%				0%	$	
03.2.3	RELLENOS RECEBO COMUN	0.0%	0	29 oct '24	16 nov '24	0%				0%	$	
03.2.3	RELLENOS RECEBO COMUN	0.0%	42.434.373,94	29 oct '24	16 dic '24	0%				0%	$	
		0.0%		14 nov '24	16 dic '24	0%				0%	$	
03.3.1	RETIRO SOBRANTES TIERRA (CON MINICARGADOR Y VOLQ.)	0.0%	374.087.873,20	14 nov '24	16 dic '24	0%				0%	$	
		0.0%		14 nov '24	16 dic '24	0%				0%	$	
03.4.10	CAJA INSPECCION(60 x 60) x 80 ESPEC 40RD	0.0%	4.661.975,99	14 nov '24	16 dic '24	0%				0%	$	
03.4.11	CAJA INSPECCION(60 x 60) x 60 ESPEC 40RD	0.0%	608.570,00	14 nov '24	16 dic '24	0%				0%	$	
03.4.12	CAJA INSPECCION (1.0 x 1.0)x1.0MH(CON)+2.25M (INC E+CAVA	0.0%	29.548.600,02	14 nov '24	16 dic '24	0%				0%	$	
03.4.13	CAJA INSPECCION(80 x 80) x 80 ESPEC 40RD	0.0%	11.268.530,04	14 nov '24	16 dic '24	0%				0%	$	
03.4.14	CAJA INSPECCION(60 x 60) x 60 ESPEC 40RD	0.0%	6.684.288,99	26 nov '24	11 ene '25	0%				0%	$	
03.4.16	SUMINISTRO E INSTALACION CAJA DE MAMPOSTERIA CENTRO DE MEDICION GAS TIPO 1 (BNACS)	0.0%	429.150,00	19 dic '24	11 ene '25	0%				0%	$	
03.4.17	SUMINISTRO E INSTALACION CAJA DE MAMPOSTERIA CENTRO DE MEDICION GAS TIPO 1 (PISCINAS)	0.0%	2.567.125,99	19 dic '24	11 ene '25	0%				0%	$	
03.4.2	CAJILLA MEDIDOR 8 AGUA DUCTO	0.0%	184.550,00	19 dic '24	11 ene '25	0%				0%	$	
03.4.9	CAJA INSPECCION (1.0 x 1.0)x1.0MH(CON)+2.25M (INC E+CAVA	0.0%	19.327.800,04	19 dic '24	1 feb '25	0%				0%	$	
		0.0%		13 ene '25	1 feb '25	0%				0%	$	
03.5.3	CAJA DE AFORO Y MALLA TRAS	0.0%	2.241.480,01	13 ene '25	1 feb '25	0%				0%	$	
03.5.5	BOX CULVERT (SECC 2.1 MCONC 3.000PSI) E. SIMPLE(REF	0.0%	22.109.044,05	13 ene '25	1 feb '25	0%				0%	$	
		0.0%		13 ene '25	5 ene '26	0%				0%	$	
03.6.1	SUMINISTRO E INSTALACION DE TRAMPA DE GRASAS TIPO 1	0.0%	4.754.040,07	22 abr '24	3 ene '26	0%				0%	$	
03.6.10	CAJILLA 3 MEDIDOR AGUA FRIA 1/2 - 3/4	0.0%	253.300,00	2 ago '24	3 ene '25	0%				0%	$	
03.6.11	SUMINISTRO E INST. DE HIDRANTE CONEXION PVC)	0.0%	297.300,00	2 ago '24	3 ene '25	0%				0%	$	
03.6.6	SUMINISTRO E INSTALACION CAJILLA METALICA PARA 1 MEDIDOR EN MURO	0.0%	1.002.519,01	2 ago '24	3 ene '25	0%				0%	$	
		0.0%		2 ago '24	3 ene '25	0%				0%	$	
03.7.1	POZO EN MAMPOSTERIA H=1.20 M SIN E+CAVAC "	0.0%	5.727.150,00	2 ago '24	3 ene '25	0%				0%	$	
03.7.4	POZO EN MAMPOSTERIA H=1.20 M SIN E+CAVAC "	0.0%	1.818.550,00	2 ago '24	3 ene '25	0%				0%	$	
		0.0%		22 abr '24	7 may '25	0%				0%	$	
03.8.4	CARCAMO T-1 2500 PSI+REJILLA PEAT CONCREF (CANAL)	0.0%	3.484.039,90	29 oct '24	7 may '25	0%				0%	$	
		0.0%		29 oct '24	7 may '25	0%				0%	$	
03.10.3	CONEXION DOMICILIARIA AR	0.0%	96.300,00	29 oct '24	7 may '25	0%				0%	$	
03.10.4	CONEXION DOMICILIARIA ALL	0.0%	87.530,00	29 oct '24	7 may '25	0%				0%	$	
03.10.5	ACOMETIDA PVC P 3 "	0.0%	73.430,00	29 oct '24	7 may '25	0%				0%	$	
		0.0%		29 oct '24	7 may '25	0%				0%	$	
03.11.2	TUBERIA DRENAJE GRES 4	0.0%	165.286.784,50	29 oct '24	7 may '25	0%				0%	$	
03.11.4	ACCESORIOS TUBERIA DE DRENAJE TIPO 2	0.0%	32.401.206,60	29 oct '24	7 may '25	0%				0%	$	
03.11.5	GEOTEXTIL NT-1600" - SUMINISTRO E INSTALACION	0.0%	53.884.438,95	29 oct '24	7 may '25	0%				0%	$	
		0.0%		29 oct '24	7 may '25	0%				0%	$	
4	ESTRUCTURAS EN CONCRETO, METALICAS Y MADERA	0.0%		29 oct '24	7 may '25	0%				0%	$	
4.1.1	REPLANTEO DE ESTRUCTURA	0.0%	117.968.157,00	29 oct '24	7 may '25	0%				0%	$	
		0.0%		29 oct '24	7 may '25	0%				0%	$	
4.2.31	SUMINISTRO, ARMADO E INSTALACION DE COLUMNAS RECTANGULARES DE CONCRETO A LA VISTA DE 4000 PSI	0.0%	1.807.340.294,00	29 oct '24	7 may '25	0%				0%	$	
		0.0%		29 oct '24	7 may '25	0%				0%	$	
4.3.1	SUMINISTRO, ARMADO E INSTALACION DE VIGAS DE FACHADA EN CONCRETO DE 4000 PSI - DIM=(60/40) Y (75x60)	0.0%	303.146.882,80	29 oct '24	7 may '25	0%				0%	$	
4.3.2	SUMINISTRO, ARMADO E INSTALACION DE VIGAS DE HASTA H= 1.10 M EN CONCRETO DE 4000 PSI	0.0%	71.212.844,24	29 oct '24	7 may '25	0%				0%	$	
4.3.4	SUMINISTRO, ARMADO E INSTALACION DE VIGA CANAL DIM = 0.45x0.60 M EN CONCRETO DE 4000 PSI - INCLUYE SOBRE ALTO DE 0.45x0.60 M	0.0%	41.342.207,24	29 oct '24	7 may '25	0%				0%	$	
4.3.5	SUMINISTRO, ARMADO E INSTALACION DE VIGA CANAL DIM = 1.60x0.30 M EN CONCRETO DE 4000 PSI	0.0%	106.227.115,00	29 oct '24	7 may '25	0%				0%	$	
		0.0%		29 oct '24	7 may '25	0%				0%	$	
4.5.2	SUMINISTRO, ARMADO E INSTALACION DE PLACA ALIGERADA CON TORTA SUPERIOR DE 12 CMS Y SIN TORTA INFERIOR A LA VISTA HASTA E= 0.80 MTS EN CONCRETO DE 4000 PSI - INCLUYE SOBREANCHOS EN VIGAS	0.0%	4.653.482.119,00	29 oct '24	7 may '25	0%				0%	$	
		0.0%		29 oct '24	7 may '25	0%				0%	$	
4.6.1	SUMINISTRO, ARMADO E INSTALACION DE ESCALERA EN CONCRETO DE 4000 PSI	0.0%	211.335.079,40	29 oct '24	3 jul '26	0%				0%	$	
		0.0%		4 jun '24	3 jul '26	0%				0%	$	
4.7.1	SUMINISTRO, ARMADO E INSTALACION DE RAMPA EN CONCRETO DE 4000 PSI	0.0%	32.471.483,42	4 jun '24	3 jul '26	0%				0%	$	
		0.0%		4 jun '24	3 jul '26	0%				0%	$	
4.8.1	SUMINISTRO, ARMADO E INSTALACION DE FOSO DE ASCENSOR EN CONCRETO DE 4000 PSI	0.0%	70.106.157,88	4 jun '24	3 jul '26	0%				0%	$	
4.8.11	SUMINISTRO, ARMADO E INSTALACION DE FOSO EYECTOR EN CONCRETO DE 4000 PSI	0.0%	8.799.405,71	4 jun '24	28 jul '25	0%				0%	$	
		0.0%		29 oct '24	15 jun '25	0%				0%	$	
4.9.1	SUMINISTRO, ARMADO E INSTALACION DE TANQUE EN CONCRETO IMPERMEABILIZADO DE 4000 PSI	0.0%	137.217.178,10	29 oct '24	22 mar '25	0%				0%	$	
		0.0%		29 oct '24	31 mar '25	0%				0%	$	
4.10.1	SUMINISTRO E INSTALACION DE ACERO DE REFUERZO DE 60.000 PSI=420 MPA	0.0%	3.548.704.967,00	6 nov '24	14 abr '25	0%				0%	$	
4.10.2	SUMINISTRO E INSTALACION DE MALLA ELECTROSOLDADA ESTANDAR	0.0%	789.509.068,50	21 nov '24	23 abr '25	0%				0%	$	
		0.0%		29 nov '24	8 may '25	0%				0%	$	
4.17.1	SUMINISTRO, ENSAMBLE E INSTALACION DE PERFILES DE ACERO TUBULAR Y CORREAS DE 350 MPA PARA CUBIERTA METALICA	0.0%	6.342.900.953,00	12 dic '24	15 may '25	0%				0%	$	
		0.0%		19 dic '24	29 may '25	0%				0%	$	

4.23.1	JUNTA DE DILATACION - SERIE JDV 4-80-100 - MUROS INTERIORES	0.0%	14 291 807,70	4 ene '25	13 jun '25	0%				0%	$	
4.25.2	JUNTA DE DILATACION - SERIE JDH 6,14-100 - PISOS INTERIORES	0.0%	29 811 666,06	20 ene '25	28 jul '25	0%				0%	$	
		0.0%		13 ene '25	6 jun '25	0%				0%	$	
5	MAMPOSTERIA, DIVISIONES, ENCHAPES Y REMATES MAMPOSTERIA, DIVISIONES, ENCHAPES Y REMATES	0.0%		13 ene '25	13 jun '25	0%				0%	$	
5.11.11	MURO DRYWALL 1/2 DOS CARAS INCLUYE PINTURA VINILTEX, TODOS LOS ELMENTOS NECESARIOS PARA SU CORRECTA INSTALACION)	0.0%	187 241 994,60	20 ene '25	28 jun '25	0%				0%	$	
		0.0%		3 feb '25	7 jul '25	0%				0%	$	
5.12.1	COLUMNETA CON ma MAMP CONCRT C 21MPa - 7x 13 CON	0.0%	1 128 750 115,00	18 feb '25	14 jul '25	0%				0%	$	
5.12.11	DINTEL CONCRETO REFZ 12x20	0.0%	24 208 457,83	17 feb '25	28 jul '25	0%				0%	$	
5.12.21	VIGAREMAT3000PSI SECC=500CM2 GRANAL FURA IMPERM"	0.0%	1 048 191 994,00	3 mar '25	19 may '25	0%				0%	$	
5.12.31	VIGACINTAREMATE 3000 PSI REFORZAD SECC=300 CM2 "	0.0%	437 780 975,70	3 feb '25	17 may '25	0%				0%	$	
		0.0%		3 feb '25	3 abr '25	0%				0%	$	
5.13.2	ANCLAJE EPOXICO VIGA ESTRUCTURAL 0.12M ANCHO#1x4"	0.0%	108 108 424,70	20 feb '25	18 abr '25	0%				0%	$	
5.13.2	ANCLAJE EPOXICO VIGA ESTRUCTURAL 0.12M ANCHO#1x4"	0.0%	108 108 424,70	6 mar '25	5 may '25	0%				0%	$	
		0.0%		20 mar '25	19 may '25	0%				0%	$	
5.8.1	BLOQUE #4 TBCON 23 STAFE	0.0%	251 084 748,00	4 abr '25	23 jun '25	0%				0%	$	
5.8.1	BLOQUE #4 TBCON 23 STAFE	0.0%	251 084 143,80	29 oct '24	13 jun '25	0%				0%	$	
5.8.3	BLOQUE #3 TABIQUE 11 SCH SANTAFE "	0.0%	393 323 956,60	29 oct '24	13 jun '25	0%				0%	$	
5.8.3	BLOQUE #3 TABIQUE 11 SCH SANTAFE "	0.0%	393 323 413,70	29 oct '24	13 jun '25	0%				0%	$	
6	PAÑETES	0.0%		29 oct '24	12 jun '25	0%				0%	$	
6.1.1	PAÑETE LISO MUROS 1.3 (E=1.5CM)	0.0%	594 904 631,50	29 oct '24	11 jun '25	0%				0%	$	
6.1.3	PAÑETE IMPERMEAB MURO 1.3 E=0.015 A= 0.80 "	0.0%	367 751 142,70	29 oct '24	13 jun '25	0%				0%	$	
		0.0%		29 oct '24	12 jun '25	0%				0%	$	
6.2.3	PAÑETE LISO MUROS 1.3 (IMP) E=2CM	0.0%	360 612 683,20	29 oct '24	13 jun '25	0%				0%	$	
6.2.7	PAÑETE ESTRUCTURAL LISO SOBRE MURO 1.3E=0.03IMPERME COLOR GINGER	0.0%	899 430 123,80	29 oct '24	13 jun '25	0%				0%	$	
		0.0%		29 oct '24	12 jun '25	0%				0%	$	
6.4.1	PAÑETE LISO MUROS 1.4 IMPER E=0.015M+ANDAMIO CORRC	0.0%	23 505 879,87	29 oct '24	13 jun '25	0%				0%	$	
6.4.3	PAÑETE LISO MUROS 1.3 (IMP) E=1.5CM	0.0%	780 308,19	29 oct '24	13 jun '25	0%				0%	$	
6.4.5	GOTERO EN MORTERO 1:4"	0.0%	1 949 999,14	29 oct '24	13 jun '25	0%				0%	$	
7	PREFABRICADOS	0.0%		29 oct '24	13 jun '25	0%				0%	$	
7.3.1	GARGOLA EN CONCRETO FUNDIDA EN SITIO PARA JARDINERAS EN CONCRETO	0.0%	2 258 440,01	29 oct '24	13 jun '25	0%				0%	$	
		0.0%		29 oct '24	13 jun '25	0%				0%	$	
7.7.11	PELDAÑO CONCRETO 1000x250x300MM	0.0%	12 113 569,77	29 oct '24	13 jun '25	0%				0%	$	
		0.0%		3 feb '25	27 mar '25	0%				0%	$	
7.10.21	CARCAMO EN CONCRETO F'C 21 MPA TIPO B ESPECIFICACI	0.0%	22 647 347,90	3 feb '25	8 may '25	0%				0%	$	
		0.0%		17 mar '25	13 jun '25	0%				0%	$	
7.11.11	BANCA CORRIDA CONCRETO(3 000PSI- 21MPA)SOBRE ANDAMIO	0.0%	21 963 570,77	24 ene '25	9 jun '25	0%				0%	$	
		0.0%		3 feb '25	9 jun '25	0%				0%	$	
8	INSTALACION HIDROSANITARIA, INCENDIO Y DE GAS	0.0%		3 feb '25	9 jun '25	0%				0%	$	
8.1.11	SUMINISTRO E INSTALACION ACCESORIOS PVC-P 3	0.0%	4 084 099,80	3 feb '25	22 mar '25	0%				0%	$	
8.1.12	SUMINISTRO E INSTALACION ACCESORIOS PVC-P 2	0.0%	40 780,01	29 oct '24	22 mar '25	0%				0%	$	
8.1.13	SUMINISTRO E INSTALACION ACCESORIOS PVC-P 1 1/2	0.0%	191 100,09	29 oct '24	22 mar '25	0%				0%	$	
8.1.19	SUMINISTRO E INSTALACION MEDIDOR TOTALIZADOR 3	0.0%	21 058 800,07	29 oct '24	22 mar '25	0%				0%	$	
8.1.27	SUMINISTRO E INSTALACION VALVULA DE COMPUERTA 3	0.0%	564 589,97	29 oct '24	4 ene '25	0%				0%	$	
8.1.3	SUMINISTRO E INSTALACION TUBERIA PVC-P 3	0.0%	25 426 480,83	24 feb '25	20 jun '25	0%				0%	$	
8.1.35	SUMINISTRO E INSTALACION ACOPLADOR MECANICO 3	0.0%	2 880 280,00	24 feb '25	4 ene '25	0%				0%	$	
8.1.4	SUMINISTRO E INSTALACION TUBERIA PVC-P 2	0.0%	19 596,60	8 abr '25	4 ene '25	0%				0%	$	
8.1.43	SUMINISTRO E INSTALACION UNION GRESSER 3	0.0%	248 900,01	24 feb '25	4 ene '25	0%				0%	$	
8.1.5	SUMINISTRO E INSTALACION TUBERIA PVC-P 1 1/2	0.0%	710 632,41	24 feb '25	20 ene '25	0%				0%	$	
8.1.51	SUMINISTRO E INSTALACIÓN ELECTROVALVULA 3 E.N BRONCE ROSCA NPT	0.0%	10 789 900,00	9 may '25	7 jul '25	0%				0%	$	
8.1.67	SUMINISTRO E INSTALACION NIPLE PASAMUROS ACERO INOXIDABLE CON RUANA 3	0.0%	212 580,00	9 ene '25	20 ene '25	0%				0%	$	
8.1.87	SUMINISTRO E INSTALACIÓN SOPORTE TIPO PERA 3	0.0%	1 386 639,89	21 ene '25	20 ene '25	0%				0%	$	
8.1.89	SUMINISTRO E INSTALACIÓN SOPORTE TIPO PERA 2	0.0%	8 130,00	9 may '25	20 ene '25	0%				0%	$	
8.1.90	SUMINISTRO E INSTALACIÓN SOPORTE TIPO PERA 1 1/2	0.0%	708 179,82	9 ene '25	20 ene '25	0%				0%	$	
8.1.91	SUMINISTRO E INSTALACIÓN SOPORTE TIPO PERA 1 1/4	0.0%	114 149,94	9 ene '25	20 ene '25	0%				0%	$	
8.1.98	SUMINISTRO E INSTALACION TUBERIA PVC-P 1 1/4	0.0%	449 952,83	9 ene '25	20 ene '25	0%				0%	$	
8.1.99	SUMINISTRO E INSTALACION ACCESORIOS PVC-P 1 1/4	0.0%	81 900,04	9 ene '25	20 ene '25	0%				0%	$	
		0.0%		9 ene '25	20 ene '25	0%				0%	$	
8.2.103	SUMINISTRO E INSTALACION SOPORTE TIPO PERA 4	0.0%	32 500,00	9 ene '25	20 ene '25	0%				0%	$	
8.2.104	SUMINISTRO E INSTALACION SOPORTE TIPO PERA 3	0.0%	12 040,00	9 ene '25	20 ene '25	0%				0%	$	
8.2.105	SUMINISTRO E INSTALACION SOPORTE TIPO PERA 2 1/2	0.0%	59 399,91	9 ene '25	20 ene '25	0%				0%	$	
8.2.106	SUMINISTRO E INSTALACION SOPORTE TIPO PERA 2	0.0%	8 130,00	25 mar '25	20 jun '25	0%				0%	$	
8.2.107	SUMINISTRO E INSTALACION SOPORTE TIPO PERA 1 1/2	0.0%	43 170,00	25 mar '25	4 ene '25	0%				0%	$	
8.2.113	SUMINISTRO E INSTALACION ABRAZADERA 3 SOPORTE 2 1/2	0.0%	7 540,01	9 ene '25	20 ene '25	0%				0%	$	
8.2.116	SUMINISTRO E INSTALACION TUBERIA PVC-P RDE=21 2 1/2	0.0%	907 099,54	23 jul '25	20 ene '25	0%				0%	$	
8.2.119	SUMINISTRO E INSTALACION ACCESORIOS PVC-P 2 1/2	0.0%	371 940,03	25 mar '25	20 ene '25	0%				0%	$	
8.2.12	SUMINISTRO E INSTALACION ACCESORIOS ACERO INOX 4	0.0%	536 900,01	25 mar '25	20 ene '25	0%				0%	$	
8.2.13	SUMINISTRO E INSTALACION ACCESORIOS ACERO INOX 3	0.0%	736 219,90	25 mar '25	20 ene '25	0%				0%	$	
8.2.14	E INSTALACION ACCESORIOS ACERO INOX 2 1/2	0.0%	1 763 219,83	25 mar '25	29 nov '25	0%				0%	$	
8.2.15	SUMINISTRO E INSTALACION ACCESORIOS ACERO INOX 2	0.0%	67 740,01	8 jul '25	1 oct '25	0%				0%	$	
8.2.16	SUMINISTRO E INSTALACION ACCESORIOS ACERO INOX 1 1/2	0.0%	1 092 479,90	8 jul '25	14 nov '25	0%				0%	$	
8.2.7	SUMINISTRO E INSTALACION TUBERIA ACERO INOX TIPO 304/304L ASTM A312 4	0.0%	1 453 800,99	21 ene '25	29 nov '25	0%				0%	$	
8.2.23	SUMINISTRO E INSTALACION CHEQUE HIDRO 3	0.0%	976 050,00	31 oct '25	29 nov '25	0%				0%	$	
8.2.26	SUMINISTRO E INSTALACION CHEQUE HIDRO 1 1/2	0.0%	13 620,01	8 jul '25	29 nov '25	0%				0%	$	
8.2.3	SUMINISTRO E INSTALACION TUBERIA ACERO INOX TIPO 304/304L ASTM A312 3	0.0%	353 968,80	8 jul '25	29 nov '25	0%				0%	$	
8.2.30	SUMINISTRO E INSTALACION VALVULA DE PIE Y CANASTILLA EN HIERRO FUNDIDO ROSCA NPT O SIMILAR 4	0.0%	3 458 870,00	8 jul '25	29 nov '25	0%				0%	$	
8.2.38	SUMINISTRO E INSTALACION REGISTRO CORTINA 4 CUERPO EN BRONCE ROSCA NPT	0.0%	7 133 270,00	8 jul '25	29 nov '25	0%				0%	$	
8.2.39	SUMINISTRO E INSTALACION REGISTRO CORTINA 3 CUERPO EN BRONCE ROSCA NPT	0.0%	7 060 450,00	8 jul '25	29 nov '25	0%				0%	$	
8.2.41	SUMINISTRO E INSTALACION REGISTRO CORTINA 2 CUERPO EN BRONCE ROSCA NPT	0.0%	496 870,00	8 jul '25	29 nov '25	0%				0%	$	
8.2.42	SUMINISTRO E INSTALACION REGISTRO CORTINA 1 1/2 CUERPO EN BRONCE ROSCA NPT	0.0%	371 519,99	8 jul '25	29 nov '25	0%				0%	$	
8.2.46	SUMINISTRO E INSTALACION UNION FLEXIBLE BORRACHA 3	0.0%	1 641 800,01	8 jul '25	29 nov '25	0%				0%	$	
8.2.47	SUMINISTRO E INSTALACION UNION FLEXIBLE BORRACHA 2	0.0%	810 288,96	8 jul '25	29 nov '25	0%				0%	$	
8.2.5	SUMINISTRO E INSTALACION TUBERIA ACERO INOX TIPO 304/304L ASTM A312 2	0.0%	118 574,00	8 jul '25	29 nov '25	0%				0%	$	
8.2.51	SUMINISTRO E INSTALACION UNIVERSAL 3	0.0%	674 730,00	8 jul '25	29 nov '25	0%				0%	$	
8.2.6	SUMINISTRO E INSTALACION TUBERIA ACERO INOX TIPO 304/304L ASTM A312 1.1/2	0.0%	1 037 588,47	8 jul '25	29 nov '25	0%				0%	$	
8.2.62	SUMINISTRO E INSTALACION VALVULA DE ALIVIO 1 1/2	0.0%	703 910,00	8 jul '25	29 nov '25	0%				0%	$	
8.2.66	SUMINISTRO E INSTALACION VALVULA FS TIPO EN YEE 3	0.0%	813 640,00	8 jul '25	29 nov '25	0%				0%	$	
8.2.78	SUMINISTRO E INSTALACION COPA CONCENTRICA EN ACERO INOXIDABLE DE UNION SOLDADA - TIPO 1	0.0%	205 460,01	8 jul '25	29 nov '25	0%				0%	$	
8.2.83	SUMINISTRO E INSTALACION COPA EXCENTRICA EN ACERO INOXIDABLE DE UNION SOLDADA ASTM A351 TIPO 2	0.0%	213 279,99	8 jul '25	29 nov '25	0%				0%	$	
8.2.87	SUMINISTRO E INSTALACION NIPLE PASAMUROS ACERO INOXIDABLE CON RUANA 4	0.0%	717 020,02	8 jul '25	29 nov '25	0%				0%	$	
8.2.88	SUMINISTRO E INSTALACION NIPLE PASAMUROS ACERO INOXIDABLE CON RUANA 2 1/2	0.0%	194 080,00	8 jul '25	29 nov '25	0%				0%	$	
8.2.90	SUMINISTRO E INSTALACION NIPLE PASAMUROS ACERO INOXIDABLE CON RUANA 2	0.0%	139 200,00	8 jul '25	29 nov '25	0%				0%	$	
		0.0%		8 jul '25	29 nov '25	0%				0%	$	
8.3.103	SUMINISTRO E INSTALACION SOPORTE TIPO PERA 4	0.0%	32 500,00	8 jul '25	29 nov '25	0%				0%	$	
8.3.104	SUMINISTRO E INSTALACION SOPORTE TIPO PERA 3	0.0%	12 040,00	8 jul '25	29 nov '25	0%				0%	$	
8.3.105	SUMINISTRO E INSTALACION SOPORTE TIPO PERA 2 1/2	0.0%	118 799,98	8 jul '25	29 nov '25	0%				0%	$	
8.3.106	SUMINISTRO E INSTALACION SOPORTE TIPO PERA 2	0.0%	56 519,01	8 jul '25	29 nov '25	0%				0%	$	

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8.3.107	SUMINISTRO E INSTALACION SOPORTE TIPO PERA 1 1/2	0.0%	49.149,99	8 jul '25	29 nov '25	0%				0%	$
8.3.113	SUMINISTRO E INSTALACION ABRAZADERAS (CAN= 2 1/2	0.0%	7.670,00	8 jul '25	29 nov '25	0%				0%	$
8.3.118	SUMINISTRO E INSTALACION TUBERIA PVC-P RDE=21 2 1/2	0.0%	806.643,20	8 jul '25	29 nov '25	0%				0%	$
8.3.119	SUMINISTRO E INSTALACION ACCESORIOS PVC-P 2 1/2	0.0%	241.993,60	8 jul '25	29 nov '25	0%				0%	$
8.3.12	SUMINISTRO E INSTALACION ACCESORIOS ACERO INOX 4	0.0%	374.800,01	8 jul '25	29 nov '25	0%				0%	$
8.3.13	SUMINISTRO E INSTALACION ACCESORIOS ACERO INOX 3	0.0%	308.102,39	8 jul '25	29 nov '25	0%				0%	$
8.3.15	SUMINISTRO E INSTALACION ACCESORIOS ACERO INOX 2	0.0%	316.120,00	8 jul '25	29 nov '25	0%				0%	$
8.3.18	SUMINISTRO E INSTALACION ACCESORIOS ACERO INOX 1 1/2	0.0%	323.600,01	8 jul '25	29 nov '25	0%				0%	$
8.3.2	SUMINISTRO E INSTALACION TUBERIA ACERO INOX TIPO 304/304L ASTM A312 4	0.0%	897.124,18	8 jul '25	29 nov '25	0%				0%	$
8.3.21	SUMINISTRO E INSTALACION CHEQUE HORIZ 3	0.0%	978.050,00	8 jul '25	29 nov '25	0%				0%	$
8.3.23	SUMINISTRO E INSTALACION CHEQUE HORIZ 2	0.0%	351.840,00	8 jul '25	29 nov '25	0%				0%	$
8.3.3	SUMINISTRO E INSTALACION TUBERIA ACERO INOX TIPO 304/304L ASTM A312 3	0.0%	362.213,37	8 jul '25	29 nov '25	0%				0%	$
8.3.30	SUMINISTRO E INSTALACION VALVULA DE PIE Y CANASTILLA EN HIERRO FUNDIDO ROSCA NPT O BRIDAR 4	0.0%	4.078.000,00	8 jul '25	29 nov '25	0%				0%	$
8.3.38	SUMINISTRO E INSTALACION REGISTRO CORTINA 4 CUERPO EN BRONCE ROSCA NPT	0.0%	2.133.270,00	8 jul '25	29 nov '25	0%				0%	$
8.3.39	SUMINISTRO E INSTALACION REGISTRO CORTINA 3 CUERPO EN BRONCE ROSCA NPT	0.0%	3.852.240,00	8 jul '25	29 nov '25	0%				0%	$
8.3.41	SUMINISTRO E INSTALACION REGISTRO CORTINA 2 CUERPO EN BRONCE ROSCA NPT	0.0%	917.340,00	8 jul '25	29 nov '25	0%				0%	$
8.3.42	SUMINISTRO E INSTALACION REGISTRO CORTINA 1 1/2 CUERPO EN BRONCE ROSCA NPT	0.0%	761.797,99	8 jul '25	29 nov '25	0%				0%	$
8.3.46	SUMINISTRO E INSTALACION UNION FLEXIBLE BORRACHA 4	0.0%	1.261.760,01	8 jul '25	29 nov '25	0%				0%	$
8.3.47	SUMINISTRO E INSTALACION UNION FLEXIBLE BORRACHA 3	0.0%	813.259,99	8 jul '25	29 nov '25	0%				0%	$
8.3.5	SUMINISTRO E INSTALACION TUBERIA ACERO INOX TIPO 304/304L ASTM A312 2	0.0%	1.200.823,81	8 jul '25	29 nov '25	0%				0%	$
8.3.51	SUMINISTRO E INSTALACION UNIVERSAL 3	0.0%	674.720,00	8 jul '25	29 nov '25	0%				0%	$
8.3.6	SUMINISTRO E INSTALACION TUBERIA ACERO INOX TIPO 304/304L ASTM A312 1 1/2	0.0%	799.052,45	8 jul '25	29 nov '25	0%				0%	$
8.3.61	SUMINISTRO E INSTALACION VALVULA DE ALIVIO 2	0.0%	1.313.779,99	8 jul '25	29 nov '25	0%				0%	$
8.3.66	SUMINISTRO E INSTALACION VALVULA FILTRO EN YEE 3	0.0%	783.570,00	8 jul '25	29 nov '25	0%				0%	$
8.3.78	SUMINISTRO E INSTALACION COPA CONCENTRICA EN ACERO INOXIDABLE DE UNION SOLDADA - TIPO 1	0.0%	807.119,99	8 jul '25	29 nov '25	0%				0%	$
8.3.82	SUMINISTRO E INSTALACION COPA EXCENTRICA EN ACERO INOXIDABLE DE UNION SOLDADA A-PAT-A351 - TIPO 1	0.0%	835.120,01	8 jul '25	29 nov '25	0%				0%	$
8.3.87	SUMINISTRO E INSTALACION NIPLE PASAMUROS ACERO INOXIDABLE CON RUANA 4	0.0%	34.710,01	8 jul '25	29 nov '25	0%				0%	$
8.3.89	SUMINISTRO E INSTALACION NIPLE PASAMUROS ACERO INOXIDABLE CON RUANA 2 1/2	0.0%	55.530,00	8 jul '25	29 nov '25	0%				0%	$
8.3.90	SUMINISTRO E INSTALACION NIPLE PASAMUROS ACERO INOXIDABLE CON RUANA 2	0.0%	82.300,00	8 jul '25	29 nov '25	0%				0%	$
		0.0%		8 jul '25	29 nov '25	0%				0%	$
8.4.11	SUMINISTRO E INSTALACION ACCESORIOS RAMURADOS 4	0.0%	1.201.000,01	8 jul '25	29 nov '25	0%				0%	$
8.4.13	SUMINISTRO E INSTALACION ACCESORIOS RAMURADOS 2	0.0%	112.800,01	8 jul '25	29 nov '25	0%				0%	$
8.4.18	SUMINISTRO E INSTALACION ACOPLE RIGIDO EN HIERRO DUCTIL DE UNION RAMURADA 5	0.0%	119.250,00	8 jul '25	29 nov '25	0%				0%	$
8.4.21	SUMINISTRO E INSTALACION ACOPLE RIGIDO EN HIERRO DUCTIL DE UNION RAMURADA 2	0.0%	238.127,20	8 jul '25	29 nov '25	0%				0%	$
8.4.32	SUMINISTRO E INSTALACION VALVULA FENCOS DE FLUJO 4	0.0%	209.720,00	8 jul '25	29 nov '25	0%				0%	$
8.4.39	SUMINISTRO E INSTALACION REGISTRO VASTAGO ORIA Y ASCENDENTE LISTADO 4	0.0%	441.810,00	8 jul '25	29 nov '25	0%				0%	$
8.4.4	SUMINISTRO E INSTALACION TUBERIA ACERO NEGRO SCH 40 4	0.0%	3.449.373,84	8 jul '25	29 nov '25	0%				0%	$
8.4.42	SUMINISTRO E INSTALACION REGISTRO VASTAGO ORIA Y ASCENDENTE LISTADO 2	0.0%	90.840,00	8 jul '25	29 nov '25	0%				0%	$
8.4.45	SUMINISTRO E INSTALACION VALVULA MARIPOSA CON SUPERVISOR 4	0.0%	4.473.637,99	8 jul '25	29 nov '25	0%				0%	$
8.4.49	SUMINISTRO E INSTALACION VALVULA MARIPOSA CON SUPERVISOR 2	0.0%	1.633.530,00	8 jul '25	29 nov '25	0%				0%	$
8.4.53	SUMINISTRO E INSTALACION VALVULA MARIPOSA 4	0.0%	626.950,00	8 jul '25	29 nov '25	0%				0%	$
8.4.56	SUMINISTRO E INSTALACION VALVULA MARIPOSA 2	0.0%	186.550,00	8 jul '25	29 nov '25	0%				0%	$
8.4.57	SUMINISTRO E INSTALACION MANOMETRO DE GLICERINA 0-300 PSI	0.0%	111.320,00	8 jul '25	29 nov '25	0%				0%	$
8.4.58	SUMINISTRO E INSTALACION TUBERIA COBRE TIPO L 1/2	0.0%	852.673,56	8 jul '25	29 nov '25	0%				0%	$
8.4.59	SUMINISTRO E INSTALACION ACCESORIO COBRE 1/2	0.0%	418.563,56	8 jul '25	29 nov '25	0%				0%	$
8.4.6	SUMINISTRO E INSTALACION TUBERIA ACERO NEGRO SCH 40 2	0.0%	219.814,70	8 jul '25	29 nov '25	0%				0%	$
8.4.60	SUMINISTRO E INSTALACION CHEQUE 1/2	0.0%	896.500,00	8 jul '25	29 nov '25	0%				0%	$
8.4.61	SUMINISTRO E INSTALACION UNIVERSAL 1/2 COBRE	0.0%	2.118.320,00	8 jul '25	27 nov '25	0%				0%	$
8.4.62	SUMINISTRO E INSTALACION VALVULA DE COMPUERTA 1/2	0.0%	341.240,00	8 jul '25	29 nov '25	0%				0%	$
8.4.66	PLACA ANTIVORTICE 4 DE UNION SOLDADA- NFPA 20	0.0%	40.150,00	8 jul '25	20 ago '25	0%				0%	$
8.4.73	SUMINISTRO E INSTALACION NIPLE PASAMUROS ACERO INOXIDABLE CON RUANA 4	0.0%	37.800,00	25 mar '25	20 jun '25	0%				0%	$
8.4.76	SUMINISTRO E INSTALACION NIPLE PASAMUROS ACERO INOXIDABLE CON RUANA 2	0.0%	82.300,00	25 mar '25	4 abril '25	0%				0%	$
8.4.87	SOPORTES ANTISISMICOS 4	0.0%	114.799,98	9 may '25	20 ago '25	0%				0%	$
8.4.90	SOPORTES ANTISISMICOS 2	0.0%	101.170,00	22 jul '25	20 ago '25	0%				0%	$
8.4.91	SUMINISTRO E INSTALACION TUCERIA PVC-P RDE=21 2 1/2	0.0%	634.478,14	25 mar '25	20 ago '25	0%				0%	$
8.4.92	SUMINISTRO E INSTALACION ACCESORIOS PVC-P 2 1/2	0.0%	478.134,04	25 mar '25	20 ago '25	0%				0%	$
8.4.93	SUMINISTRO E INSTALACION REGISTRO TIPO PESADO 2 1/2	0.0%	506.785,01	25 mar '25	20 ago '25	0%				0%	$
		0.0%		25 mar '25	22 ago '25	0%				0%	$
8.5.10	SUMINISTRO E INSTALACION TUBERIA PVC P RDE=8 1/2	0.0%	9.798.700,66	3 abr '25	29 jun '25	0%				0%	$
8.5.13	SUMINISTRO E INSTALACION ACCESORIOS PVC-P 3	0.0%	165.410,00	3 abr '25	12 ago '25	0%				0%	$
8.5.14	SUMINISTRO E INSTALACION ACCESORIOS PVC-P 2 1/2	0.0%	1.327.810,11	16 may '25	21 ago '25	0%				0%	$
8.5.15	SUMINISTRO E INSTALACION ACCESORIOS PVC-P 2	0.0%	754.190,18	29 jul '25	27 ago '25	0%				0%	$
8.5.16	SUMINISTRO E INSTALACION ACCESORIOS PVC-P 1 1/2	0.0%	602.039,80	3 abr '25	21 ago '25	0%				0%	$
8.5.17	SUMINISTRO E INSTALACION ACCESORIOS PVC-P 1 1/4	0.0%	600.000,28	1 abr '25	27 ago '25	0%				0%	$
8.5.18	SUMINISTRO E INSTALACION ACCESORIOS PVC-P 1	0.0%	399.200,00	3 abr '25	28 jun '25	0%				0%	$
8.5.19	SUMINISTRO E INSTALACION ACCESORIOS PVC-P 3/4	0.0%	840.779,63	3 abr '25	12 ago '25	0%				0%	$
8.5.20	SUMINISTRO E INSTALACION ACCESORIOS PVC-P 1/2	0.0%	2.251.252,40	16 may '25	27 ago '25	0%				0%	$
8.5.26	SUMINISTRO E INSTALACION REGISTRO TIPO PESADO 1 1/2	0.0%	251.750,01	29 jul '25	20 ago '25	0%				0%	$
8.5.27	SUMINISTRO E INSTALACION REGISTRO TIPO PESADO 1 1/4	0.0%	13.650,01	30 jun '25	27 ago '25	0%				0%	$
8.5.28	SUMINISTRO E INSTALACION REGISTRO TIPO PESADO 1	0.0%	173.700,00	2 may '25	13 jun '25	0%				0%	$
8.5.29	SUMINISTRO E INSTALACION REGISTRO TIPO PESADO 3/4	0.0%	1.842.900,01	2 may '25	29 jul '25	0%				0%	$
8.5.3	SUMINISTRO E INSTALACION TUBERIA PVC P RDE=21 3	0.0%	432.846,03	14 ene '25	27 ago '25	0%				0%	$
8.5.30	SUMINISTRO E INSTALACION REGISTRO TIPO PESADO 1/2	0.0%	6.957.099,98	29 jul '25	27 ago '25	0%				0%	$
8.5.31	SUMINISTRO E INSTALACION VALVULA EXPULSORA DE AIRE 1	0.0%	76.250,00	2 may '25	27 ago '25	0%				0%	$
8.5.35	SUMINISTRO E INSTALACION SOPORTE TIPO PERA 3	0.0%	60.200,00	2 may '25	27 ago '25	0%				0%	$
8.5.37	SUMINISTRO E INSTALACION SOPORTE TIPO PERA 2 1/2	0.0%	227.670,01	2 may '25	27 ago '25	0%				0%	$
8.5.38	SUMINISTRO E INSTALACION SOPORTE TIPO PERA 2	0.0%	820.270,13	2 may '25	27 ago '25	0%				0%	$
8.5.39	SUMINISTRO E INSTALACION SOPORTE TIPO PERA 1 1/2	0.0%	827.060,00	2 may '25	27 ago '25	0%				0%	$
8.5.4	SUMINISTRO E INSTALACION TUBERIA PVC P RDE=21 2 1/2	0.0%	1.533.200,01	2 may '25	13 jun '25	0%				0%	$
8.5.40	SUMINISTRO E INSTALACION SOPORTE TIPO PERA 1 1/4	0.0%	758.180,77	2 may '25	29 jul '25	0%				0%	$
8.5.41	SUMINISTRO E INSTALACION SOPORTE TIPO PERA 1	0.0%	628.270,61	14 ene '25	27 ago '25	0%				0%	$
8.5.42	SUMINISTRO E INSTALACION SOPORTE TIPO PERA 3/4	0.0%	1.415.310,44	29 jul '25	27 ago '25	0%				0%	$
8.5.43	SUMINISTRO E INSTALACION SOPORTE TIPO PERA 1/2	0.0%	5.053.761,73	2 may '25	27 ago '25	0%				0%	$
8.5.45	SUMINISTRO E INSTALACION ABRAZADERAS 3	0.0%	8.750,00	2 may '25	27 ago '25	0%				0%	$
8.5.48	SUMINISTRO E INSTALACION ABRAZADERAS 2	0.0%	25.165,00	2 may '25	27 ago '25	0%				0%	$
8.5.49	SUMINISTRO E INSTALACION ABRAZADERAS 1 1/2	0.0%	16.419,99	2 may '25	27 ago '25	0%				0%	$
8.5.5	SUMINISTRO E INSTALACION TUBERIA PVC P RDE=21 2	0.0%	4.201.000,84	2 may '25	22 ago '25	0%				0%	$
8.5.52	SUMINISTRO E INSTALACION ABRAZADERAS 1 1/4	0.0%	7.770,00	2 may '25	27 ago '25	0%				0%	$
8.5.53	SUMINISTRO E INSTALACION ABRAZADERAS MAN 1	0.0%	41.540,01	2 may '25	27 ago '25	0%				0%	$
8.5.54	SUMINISTRO E INSTALACION PASE 4	0.0%	79.470,00	2 may '25	27 ago '25	0%				0%	$
8.5.55	SUMINISTRO E INSTALACION PASE 2	0.0%	150.000,01	2 may '25	27 ago '25	0%				0%	$
8.5.6	SUMINISTRO E INSTALACION TUCERIA PVC-P RDE=21 1 1/2	0.0%	2.831.419,81	2 may '25	27 ago '25	0%				0%	$
8.5.60	SUMINISTRO E INSTALACION PASE 1 1/4	0.0%	161.360,01	2 may '25	27 ago '25	0%				0%	$
8.5.61	SUMINISTRO E INSTALACION PASE 1	0.0%	147.440,00	2 may '25	27 ago '25	0%				0%	$
8.5.62	SUMINISTRO E INSTALACION PASE 3/4	0.0%	331.400,01	2 may '25	27 ago '25	0%				0%	$
8.5.7	SUMINISTRO E INSTALACION TUBERIA PVC-P RDE=21 1 1/4	0.0%	2.424.810,10	2 may '25	27 ago '25	0%				0%	$
8.5.8	SUMINISTRO E INSTALACION TUBERIA PVC P RDE=21 1	0.0%	1.323.294,54	2 may '25	27 ago '25	0%				0%	$

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8.6.9	SUMINISTRO E INSTALACION TUBERIA PVC-P RDE=11 3/4	0.0%	2.151.392,31	2 mes 7 D	27-ago-25	0%				0%	$
		0.0%		2 mes 7 D	27-ago-25	0%				0%	$
8.6.12	SUMINISTRO E INSTALACION TUBERIA PVC-P RDE=9 1/2	0.0%	8.424.475,43	2 mes 7 D	27-ago-25	0%				0%	$
8.6.13	SUMINISTRO E INSTALACION ACCESORIOS PVC-P 3	0.0%	230.329,01	2 mes 7 D	27-ago-25	0%				0%	$
8.6.14	SUMINISTRO E INSTALACION ACCESORIOS PVC-P 2 1/2	0.0%	2.531.419,24	2 mes 7 D	27-ago-25	0%				0%	$
8.6.15	SUMINISTRO E INSTALACION ACCESORIOS PVC-P 2	0.0%	1.121.450,28	2 mes 7 D	27-ago-25	0%				0%	$
8.6.16	SUMINISTRO E INSTALACION ACCESORIOS PVC-P 1 1/2	0.0%	1.839.239,27	2 mes 7 D	27-ago-25	0%				0%	$
8.6.17	SUMINISTRO E INSTALACION ACCESORIOS PVC-P 1 1/4	0.0%	5.243.543,45	2 mes 7 D	27-ago-25	0%				0%	$
8.6.18	SUMINISTRO E INSTALACION ACCESORIOS PVC-P 1	0.0%	23.940,00	2 mes 7 D	27-ago-25	0%				0%	$
8.6.19	SUMINISTRO E INSTALACION ACCESORIOS PVC-P 3/4	0.0%	192.229,82	2 mes 7 D	27-ago-25	0%				0%	$
8.6.20	SUMINISTRO E INSTALACION ACCESORIOS PVC-P 1/2	0.0%	339.450,32	2 mes 7 D	27-ago-25	0%				0%	$
8.6.24	SUMINISTRO E INSTALACION REGISTRO TIPO PESADO 2 1/2	0.0%	566.789,99	2 mes 7 D	27-ago-25	0%				0%	$
8.6.25	SUMINISTRO E INSTALACION REGISTRO TIPO PESADO 1 1/2	0.0%	1.429.799,97	2 mes 7 D	27-ago-25	0%				0%	$
8.6.27	SUMINISTRO E INSTALACION REGISTRO TIPO PESADO 1 1/4	0.0%	2.857.199,13	2 mes 7 D	27-ago-25	0%				0%	$
8.6.28	SUMINISTRO E INSTALACION REGISTRO TIPO LIVIANO 1	0.0%	173.700,00	2 mes 7 D	27-ago-25	0%				0%	$
8.6.29	SUMINISTRO E INSTALACION REGISTRO TIPO PESADO 3/4	0.0%	291.420,01	2 mes 7 D	30-abr-25	0%				0%	$
8.6.3	SUMINISTRO E INSTALACION TUBERIA PVC-P RDE=21 3	0.0%	4.410.857,85	30 abr 25	24-sep-25	0%				0%	$
8.6.30	SUMINISTRO E INSTALACION REGISTRO TIPO PESADO 1/2	0.0%	4.198.243,89	2 mes 7 D	28-jul-25	0%				0%	$
8.6.31	SUMINISTRO E INSTALACION VALVULA EXPULSORA DE AIRE 1	0.0%	27.530,00	2 mes 7 D	10-sep-25	0%				0%	$
8.6.33	SUMINISTRO E INSTALACION VALVULA EXPULSORA DE AIRE 1/2	0.0%	47.150,01	14 sep 25	24-sep-25	0%				0%	$
8.6.36	SUMINISTRO E INSTALACION SOPORTE TIPO PERA 3	0.0%	541.900,00	28 ago 25	24-sep-25	0%				0%	$
8.6.37	SUMINISTRO E INSTALACION SOPORTE TIPO PERA 2 1/2	0.0%	1.257.799,81	2 may 25	24-sep-25	0%				0%	$
8.6.38	SUMINISTRO E INSTALACION SOPORTE TIPO PERA 2	0.0%	823.139,13	2 may 25	24-sep-25	0%				0%	$
8.6.39	SUMINISTRO E INSTALACION SOPORTE TIPO PERA 1 1/2	0.0%	1.413.279,41	2 may 25	24-sep-25	0%				0%	$
8.6.4	SUMINISTRO E INSTALACION TUBERIA PVC-P RDE=21 2 1/2	0.0%	8.656.571,90	2 may 25	24-sep-25	0%				0%	$
8.6.40	SUMINISTRO E INSTALACION SOPORTE TIPO PERA 1 1/4	0.0%	3.211.954,96	2 may 25	24-sep-25	0%				0%	$
8.6.41	SUMINISTRO E INSTALACION SOPORTE TIPO PERA 1	0.0%	7.670,00	2 may 25	24-sep-25	0%				0%	$
8.6.42	SUMINISTRO E INSTALACION SOPORTE TIPO PERA 3/4	0.0%	778.040,24	2 may 25	24-sep-25	0%				0%	$
8.6.43	SUMINISTRO E INSTALACION SOPORTE TIPO PERA 1/2	0.0%	4.252.131,45	2 may 25	24-sep-25	0%				0%	$
8.6.47	SUMINISTRO E INSTALACION ABRAZADERAS 2 1/2	0.0%	49.499,99	2 may 25	24-sep-25	0%				0%	$
8.6.5	SUMINISTRO E INSTALACION TUBERIA PVC-P RDE=21 2	0.0%	4.134.852,86	2 may 25	24-sep-25	0%				0%	$
8.6.51	SUMINISTRO E INSTALACION ABRAZADERAS 1	0.0%	7.670,00	2 may 25	24-sep-25	0%				0%	$
8.6.53	SUMINISTRO E INSTALACION ABRAZADERAS 1/2	0.0%	56.400,02	2 may 25	24-sep-25	0%				0%	$
8.6.57	SUMINISTRO E INSTALACION PASE 3	0.0%	191.600,00	2 may 25	24-sep-25	0%				0%	$
8.6.6	SUMINISTRO E INSTALACION TUBERIA PVC-P RDE=21 1 1/2	0.0%	4.867.328,84	2 may 25	24-sep-25	0%				0%	$
8.6.7	SUMINISTRO E INSTALACION TUBERIA PVC-P RDE=21 1 1/4	0.0%	13.447.827,05	2 may 25	24-sep-25	0%				0%	$
8.6.8	SUMINISTRO E INSTALACION TUBERIA PVC-P RDE=21 1	0.0%	16.783,00	2 may 25	24-sep-25	0%				0%	$
8.6.9	SUMINISTRO E INSTALACION TUBERIA PVC-P RDE=11 3/4	0.0%	1.451.896,27	2 may 25	24-sep-25	0%				0%	$
		0.0%		2 may 25	24-sep-25	0%				0%	$
8.7.1	SUMINISTRO E INSTALACION TUBERIA CPVC 2	0.0%	41.894.122,44	2 may 25	24-sep-25	0%				0%	$
8.7.10	SUMINISTRO E INSTALACION ACCESORIOS CPVC 1	0.0%	1.144.004,86	2 may 25	24-sep-25	0%				0%	$
8.7.11	SUMINISTRO E INSTALACION ACCESORIOS CPVC 3/4	0.0%	1.744.370,01	2 may 25	24-sep-25	0%				0%	$
8.7.12	SUMINISTRO E INSTALACION ACCESORIOS CPVC 1/2	0.0%	1.272.210,23	2 may 25	24-sep-25	0%				0%	$
8.7.14	SUMINISTRO E INSTALACION REGISTRO TIPO PESADO 1 1/2	0.0%	284.700,00	2 may 25	24-sep-25	0%				0%	$
8.7.15	SUMINISTRO E INSTALACION REGISTRO TIPO PESADO 1 1/4	0.0%	13.220,00	2 may 25	24-sep-25	0%				0%	$
8.7.16	SUMINISTRO E INSTALACION REGISTRO TIPO LIVIANO 1	0.0%	38.340,00	2 may 25	24-sep-25	0%				0%	$
8.7.17	SUMINISTRO E INSTALACION REGISTRO TIPO PESADO 3/4	0.0%	84.920,00	2 may 25	24-sep-25	0%				0%	$
8.7.18	SUMINISTRO E INSTALACION REGISTRO TIPO PESADO 1/2	0.0%	233.200,00	2 may 25	24-sep-25	0%				0%	$
8.7.2	SUMINISTRO E INSTALACION TUBERIA CPVC 1 1/2	0.0%	3.981.676,11	2 may 25	24-sep-25	0%				0%	$
8.7.20	SUMINISTRO E INSTALACION VALVULA BALANCEADORA DE FLUJO 3/4	0.0%	56.100,00	2 may 25	24-sep-25	0%				0%	$
8.7.21	SUMINISTRO E INSTALACION VALVULA BALANCEADORA DE FLUJO 1/2	0.0%	227.479,97	2 may 25	24-sep-25	0%				0%	$
8.7.22	SUMINISTRO E INSTALACION RUBATEX 2	0.0%	5.451.441,75	2 may 25	24-sep-25	0%				0%	$
8.7.23	SUMINISTRO E INSTALACION RUBATEX 1 1/2	0.0%	2.797.783,05	2 may 25	24-sep-25	0%				0%	$
8.7.24	SUMINISTRO E INSTALACION RUBATEX 1 1/4	0.0%	631.629,84	2 may 25	28-jul-25	0%				0%	$
8.7.25	SUMINISTRO E INSTALACION RUBATEX 1	0.0%	4.251.399,32	2 mes 7 D	10-sep-25	0%				0%	-
8.7.26	SUMINISTRO E INSTALACION RUBATEX 3/4	0.0%	4.426.737,56	14 sep 25	24-sep-25	0%				0%	$
8.7.27	SUMINISTRO E INSTALACION RUBATEX 1/2	0.0%	2.096.850,00	28 ago 25	24-sep-25	0%				0%	$
8.7.28	SUMINISTRO E INSTALACION SOPORTE TIPO PERA 2	0.0%	1.499.800,73	2 may 25	24-sep-25	0%				0%	$
8.7.29	SUMINISTRO E INSTALACION SOPORTE TIPO PERA 1 1/2	0.0%	917.699,65	2 may 25	24-sep-25	0%				0%	$
8.7.3	SUMINISTRO E INSTALACION TUBERIA CPVC 1 1/4	0.0%	373.830,78	2 mes 7 D	24-sep-25	0%				0%	$
8.7.30	SUMINISTRO E INSTALACION SOPORTE TIPO PERA 1 1/4	0.0%	225.870,83	2 may 25	24-sep-25	0%				0%	$
8.7.31	SUMINISTRO E INSTALACION SOPORTE TIPO PERA 1	0.0%	2.283.870,10	2 may 25	24-sep-25	0%				0%	$
8.7.32	SUMINISTRO E INSTALACION SOPORTE TIPO PERA 3/4	0.0%	2.072.299,84	2 may 25	24-sep-25	0%				0%	$
8.7.33	SUMINISTRO E INSTALACION SOPORTE TIPO PERA 1/2	0.0%	2.246.390,84	2 may 25	24-sep-25	0%				0%	$
8.7.34	SUMINISTRO E INSTALACION ABRAZADERAS 2	0.0%	24.330,00	2 may 25	24-sep-25	0%				0%	$
8.7.35	SUMINISTRO E INSTALACION ABRAZADERAS 1 1/2	0.0%	22.899,72	2 may 25	24-sep-25	0%				0%	$
8.7.37	SUMINISTRO E INSTALACION ABRAZADERAS 1	0.0%	21.420,01	2 may 25	24-sep-25	0%				0%	$
8.7.38	SUMINISTRO E INSTALACION ABRAZADERAS 3/4	0.0%	26.370,01	2 may 25	24-sep-25	0%				0%	$
8.7.4	SUMINISTRO E INSTALACION TUBERIA CPVC 1	0.0%	3.823.656,41	2 may 25	24-sep-25	0%				0%	$
8.7.45	SUMINISTRO E INSTALACION CHEQUE HORO 3/4	0.0%	121.000,01	2 may 25	24-sep-25	0%				0%	$
8.7.46	SUMINISTRO E INSTALACION CHEQUE HORO 1/2	0.0%	2.011.200,06	2 may 25	24-sep-25	0%				0%	$
8.7.5	SUMINISTRO E INSTALACION TUBERIA CPVC 3/4	0.0%	2.729.398,83	2 may 25	24-sep-25	0%				0%	$
8.7.6	SUMINISTRO E INSTALACION TUBERIA CPVC 1/2	0.0%	6.537.073,20	2 may 25	24-sep-25	0%				0%	$
8.7.7	SUMINISTRO E INSTALACION ACCESORIOS CPVC 2	0.0%	4.565.419,74	2 mes 7 D	24-sep-25	0%				0%	$
8.7.8	SUMINISTRO E INSTALACION ACCESORIOS CPVC 1 1/2	0.0%	270.870,00	2 mes 7 D	24-sep-25	0%				0%	$
8.7.9	SUMINISTRO E INSTALACION ACCESORIOS CPVC 1 1/4	0.0%	72.870,01	2 mes 7 D	24-sep-25	0%				0%	$
		0.0%		2 mes 7 D	24-sep-25	0%				0%	$
8.8.14	SUMINISTRO E INSTALACION TUBERIA PVC ALCANTARILLADO 200MM	0.0%	14.067.961,41	2 mes 7 D	24-sep-25	0%				0%	$
8.8.15	SUMINISTRO E INSTALACION TUBERIA PVC ALCANTARILLADO 160MM	0.0%	18.894.817,39	2 mes 7 D	24-sep-25	0%				0%	$
8.8.16	SUMINISTRO E INSTALACION TUBERIA PVC ALCANTARILLADO 110MM	0.0%	8.124.543,70	2 mes 7 D	24-sep-25	0%				0%	$
8.8.31	SUMINISTRO E INSTALACION ACCESORIO PVC ALCANTARILLADO 160MM	0.0%	156.400,00	2 mes 7 D	24-sep-25	0%				0%	$
8.8.32	SUMINISTRO E INSTALACION ACCESORIO PVC ALCANTARILLADO 110MM	0.0%	118.770,02	2 mes 7 D	24-sep-25	0%				0%	$
8.8.34	SUMINISTRO E INSTALACION TUBERIA PVC-S 4	0.0%	32.714.035,26	2 mes 7 D	24-sep-25	0%				0%	$
8.8.35	SUMINISTRO E INSTALACION TUBERIA PVC-S 3	0.0%	18.232.476,31	2 mes 7 D	24-sep-25	0%				0%	$
8.8.36	SUMINISTRO E INSTALACION TUBERIA PVC-S 2	0.0%	22.720.423,62	2 mes 7 D	24-sep-25	0%				0%	$
8.8.37	SUMINISTRO E INSTALACION TUBERIA PVC-S 6	0.0%	361.327,78	2 mes 7 D	24-sep-25	0%				0%	$
8.8.71	SUMINISTRO E INSTALACION TUBERIA PVC-S 8	0.0%	727.577,13	2 mes 7 D	24-sep-25	0%				0%	$
8.8.72	SUMINISTRO E INSTALACION TUBERIA PVC-S 10	0.0%	10.663.110,25	2 mes 7 D	24-sep-25	0%				0%	$
8.8.41	SUMINISTRO E INSTALACION ACCESORIOS PVC-S 4	0.0%	29.107.332,07	2 mes 7 D	24-sep-25	0%				0%	$
8.8.42	SUMINISTRO E INSTALACION ACCESORIOS PVC-S 3	0.0%	8.334.545,51	2 mes 7 D	24-sep-25	0%				0%	$
8.8.43	SUMINISTRO E INSTALACION ACCESORIOS PVC-S 2	0.0%	16.653.200,81	2 mes 7 D	24-sep-25	0%				0%	$
8.8.45	SUMINISTRO E INSTALACION JUNTA DE EXPANSION 4	0.0%	83.160,01	2 mes 7 D	24-sep-25	0%				0%	$
8.8.46	SUMINISTRO E INSTALACION JUNTA DE EXPANSION 3	0.0%	23.030,00	2 mes 7 D	24-sep-25	0%				0%	$
8.8.48	SUMINISTRO E INSTALACION VALVULA DE ADMISION DE AIRE 2	0.0%	1.261.200,11	2 mes 7 D	24-sep-25	0%				0%	$
8.8.50	SUMINISTRO E INSTALACION SOPORTE TIPO PERA 4	0.0%	33.154.287,27	2 mes 7 D	24-sep-25	0%				0%	$
8.8.51	SUMINISTRO E INSTALACION SOPORTE TIPO PERA 3	0.0%	2.109.150,31	2 mes 7 D	24-sep-25	0%				0%	$
8.8.52	SUMINISTRO E INSTALACION SOPORTE TIPO PERA 2	0.0%	4.067.099,52	2 mes 7 D	24-sep-25	0%				0%	$
8.8.54	SUMINISTRO E INSTALACION ABRAZADERAS 4	0.0%	69.300,00	2 mes 7 D	24-sep-25	0%				0%	$

8.8.55	SUMINISTRO E INSTALACION ABRAZADERA 1 2	GLB	48,277.01	2 may '25	24 sep '25	GL				0.00	$
8.8.56	SUMINISTRO E INSTALACION PASE 6	GLB	129,679.00	2 may '25	24 sep '25	GL				0.00	$
8.8.57	SUMINISTRO E INSTALACION PASE 4	GLB	1,241,291.00	2 may '25	24 sep '25	GL				0.00	$
		GLB		2 may '25	24 sep '25	GL				0.00	$
8.10.10	SUMINISTRO E INSTALACION TUBERIA PVC ALCANTARILLADO 400MM	GLB	20,148,196.51	2 may '25	24 sep '25	GL				0.00	$
8.10.11	SUMINISTRO E INSTALACION TUBERIA PVC ALCANTARILLADO 355MM	GLB	16,273,529.05	2 may '25	24 sep '25	GL				0.00	$
8.10.12	SUMINISTRO E INSTALACION TUBERIA PVC ALCANTARILLADO 315MM	GLB	61,701,574.65	2 may '25	24 sep '25	GL				0.00	$
8.10.13	SUMINISTRO E INSTALACION TUBERIA PVC ALCANTARILLADO 250MM	GLB	32,852,832.15	2 may '25	24 sep '25	GL				0.00	$
8.10.14	SUMINISTRO E INSTALACION TUBERIA PVC ALCANTARILLADO 200MM	GLB	8,978,878.27	2 may '25	24 sep '25	GL				0.00	$
8.10.15	SUMINISTRO E INSTALACION TUBERIA PVC ALCANTARILLADO 160MM	GLB	14,847,749.78	2 may '25	24 sep '25	GL				0.00	$
8.10.16	SUMINISTRO E INSTALACION TUBERIA PVC ALCANTARILLADO 110MM	GLB	1,217,563.00	2 may '25	24 sep '25	GL				0.00	$
8.10.26	SUMINISTRO E INSTALACION ACCESORIO PVC ALCANTARILLADO 400MM	GLB	3,824,150.00	2 may '25	24 sep '25	GL				0.00	$
8.10.27	SUMINISTRO E INSTALACION ACCESORIO PVC ALCANTARILLADO 355MM	GLB	3,114,277.07	2 may '25	24 sep '25	GL				0.00	$
8.10.28	SUMINISTRO E INSTALACION ACCESORIO PVC ALCANTARILLADO 315MM	GLB	1,520,315.00	2 may '25	24 sep '25	GL				0.00	$
8.10.29	SUMINISTRO E INSTALACION ACCESORIO PVC ALCANTARILLADO 250MM	GLB	4,048,110.01	2 may '25	24 sep '25	GL				0.00	$
8.10.30	SUMINISTRO E INSTALACION ACCESORIO PVC ALCANTARILLADO 200MM	GLB	178,290.00	2 may '25	24 sep '25	GL				0.00	$
8.10.31	SUMINISTRO E INSTALACION ACCESORIO PVC ALCANTARILLADO 160MM	GLB	457,470.99	2 may '25	24 sep '25	GL				0.00	$
8.10.33	SUMINISTRO E INSTALACION TUBERIA PVC-S I 4	GLB	72,904,477.77	2 may '25	24 sep '25	GL				0.00	$
8.10.34	SUMINISTRO E INSTALACION TUBERIA PVC-S I 4	GLB	19,219,757.52	2 may '25	24 sep '25	GL				0.00	$
8.10.35	SUMINISTRO E INSTALACION TUBERIA PVC-S I 3	GLB	20,178,833.81	2 may '25	24 sep '25	GL				0.00	$
8.10.36	SUMINISTRO E INSTALACION TUBERIA PVC-S I 2	GLB	3,161,026.44	2 may '25	24 sep '25	GL				0.00	$
8.10.37	SUMINISTRO E INSTALACION ACCESORIOS PVC-S I 6	GLB	13,475,736.21	2 may '25	24 sep '25	GL				0.00	$
8.10.38	SUMINISTRO E INSTALACION ACCESORIOS PVC-S I 4	GLB	12,643,070.11	2 may '25	24 sep '25	GL				0.00	$
8.10.39	SUMINISTRO E INSTALACION ACCESORIOS PVC-S I 3	GLB	47,182,332.93	2 may '25	24 sep '25	GL				0.00	$
8.10.40	SUMINISTRO E INSTALACION ACCESORIOS PVC-S I 2	GLB	2,050,170.33	2 may '25	24 sep '25	GL				0.00	$
8.10.41	SUMINISTRO E INSTALACION JUNTA DE EXPANCION 6	GLB	955,270.01	2 may '25	24 sep '25	GL				0.00	$
8.10.42	SUMINISTRO E INSTALACION JUNTA DE EXPANCION 4	GLB	1,319,277.81	2 may '25	24 sep '25	GL				0.00	$
8.10.47	SUMINISTRO E INSTALACION SIFON 3	GLB	7,871,199.41	2 may '25	24 sep '25	GL				0.00	$
8.10.48	SUMINISTRO E INSTALACION SOPORTE TIPO PERA 6	GLB	9,173,107.81	2 may '25	24 sep '25	GL				0.00	$
8.10.49	SUMINISTRO E INSTALACION SOPORTE TIPO PERA 4	GLB	4,522,678.81	2 may '25	24 sep '25	GL				0.00	$
8.10.50	SUMINISTRO E INSTALACION SOPORTE TIPO PERA 3	GLB	11,643,051.00	2 may '25	24 sep '25	GL				0.00	$
8.10.52	SUMINISTRO E INSTALACION ABRAZADERA 6	GLB	2,365,170.72	2 may '25	24 sep '25	GL				0.00	$
8.10.53	SUMINISTRO E INSTALACION ABRAZADERA 4	GLB	1,107,678.89	2 may '25	24 sep '25	GL				0.00	$
8.10.57	SUMINISTRO E INSTALACION PASE 6	GLB	391,259.97	2 may '25	24 sep '25	GL				0.00	$
8.10.58	SUMINISTRO E INSTALACION PASE 4	GLB	1,112,560.01	2 may '25	24 sep '25	GL				0.00	$
8.10.61	SUMINISTRO E INSTALACION TUBERIA PVC-S I 8	GLB	13,528,564.02	2 may '25	24 sep '25	GL				0.00	$
8.10.62	SUMINISTRO E INSTALACION ACCESORIOS PVC-S I 8	GLB	4,804,578.84	2 may '25	24 sep '25	GL				0.00	$
8.10.63	SUMINISTRO E INSTALACION TRAGANTE 6	GLB	1,076,870.00	2 may '25	24 sep '25	GL				0.00	$
8.10.64	SUMINISTRO E INSTALACION RIFON 2	GLB	1,004,000.10	2 may '25	24 sep '25	GL				0.00	$
8.10.7	SUMINISTRO E INSTALACION TUBERIA PVC ALCANTARILLADO 24	GLB	44,257,423.12	2 may '25	24 sep '25	GL				0.00	$
8.10.8	SUMINISTRO E INSTALACION TUBERIA PVC ALCANTARILLADO 450MM	GLB	11,696,910.27	2 may '25	24 sep '25	GL				0.00	$
		GLB		2 may '25	24 sep '25	GL				0.00	$
8.12.1	INSTALACION DE PUNTO HIDRAULICO A F LAVAMANOS 1/2	GLB	2,009,250.11	2 may '25	24 sep '25	GL				0.00	$
8.12.1	INSTALACION DE PUNTO HIDRAULICO A F LAVAMANOS 1/2	GLB	2,898,250.11	2 may '25	24 sep '25	GL				0.00	$
8.12.23	INSTALACION PUNTO HIDRAULICO DE A F CALDERA	GLB	453,650.00	2 may '25	24 sep '25	GL				0.00	$
8.12.24	INSTALACION PUNTO HIDRAULICO DE APA	GLB	81,000.00	2 may '25	24 sep '25	GL				0.00	$
8.12.4	INSTALACION DE PUNTO HIDRAULICO A F DUCHA 1/2	GLB	7,012,240.21	2 may '25	24 sep '25	GL				0.00	$
8.12.5	INSTALACION DE PUNTO HIDRAULICO A F DUCHA DE EMERGENCIA 1 1/4	GLB	50,000.00	2 may '25	24 sep '25	GL				0.00	$
8.12.7	INSTALACION DE PUNTO HIDRAULICO A F LAVAPLATOS 1/2	GLB	161,720.01	2 may '25	24 sep '25	GL				0.00	$
		GLB		2 may '25	24 sep '25	GL				0.00	$
8.13.2	INSTALACION DE PUNTO HIDRAULICO A F ALL ORINAL 3/4	GLB	1,191,678.99	2 may '25	24 sep '25	GL				0.00	$
8.13.2	INSTALACION DE PUNTO HIDRAULICO A F ALL ORINAL 3/4	GLB	1,191,678.99	2 may '25	24 sep '25	GL				0.00	$
8.13.3	INSTALACION DE PUNTO HIDRAULICO A F ALL SANITARIO DE TANQUE 1/2	GLB	121,574.99	2 may '25	24 sep '25	GL				0.00	$
8.13.3	INSTALACION DE PUNTO HIDRAULICO A F ALL SANITARIO DE TANQUE 1/2	GLB	121,574.99	2 may '25	24 sep '25	GL				0.00	$
8.13.5	INSTALACION DE PUNTO HIDRAULICO A F ALL SANITARIO DE FLUXOMETRO 1 1/4	GLB	3,784,678.78	2 may '25	24 sep '25	GL				0.00	$
8.13.5	INSTALACION DE PUNTO HIDRAULICO A F ALL SANITARIO DE FLUXOMETRO 1 1/4	GLB	3,784,678.78	2 may '25	24 sep '25	GL				0.00	$
8.13.6	INSTALACION DE PUNTO HIDRAULICO A F ALL LLAVE MANGUERA 1/2	GLB	1,427,490.02	2 may '25	24 sep '25	GL				0.00	$
8.13.7	INSTALACION DE PUNTO HIDRAULICO A F ALL POCETA DE A°E.O 1/2	GLB	311,907.00	2 may '25	24 sep '25	GL				0.00	$
		GLB		2 may '25	24 sep '25	GL				0.00	$
8.14.15	INSTALACION DE PUNTO HIDRAULICO A C CALDERA	GLB	453,650.00	2 may '25	24 sep '25	GL				0.00	$
8.14.11	INSTALACION PUNTO HIDRAULICO A C DE FPA	GLB	81,227.01	2 may '25	24 sep '25	GL				0.00	$
8.14.2	INSTALACION DE PUNTO HIDRAULICO A C DUCHA 1/2	GLB	8,844,529.01	2 may '25	24 sep '25	GL				0.00	$
		GLB		2 may '25	24 sep '25	GL				0.00	$
8.15.1	INSTALACION DE SALIDA SANITARIO FLUXOMETRO 4	GLB	2,850,540.20	2 may '25	24 sep '25	GL				0.00	$
8.15.1	INSTALACION DE SALIDA SANITARIO FLUXOMETRO 4	GLB	2,850,540.20	2 may '25	24 sep '25	GL				0.00	$
8.15.10	INSTALACION DE SALIDA LAVAPLATOS 2	GLB	120,815.99	2 may '25	24 sep '25	GL				0.00	$
8.15.17	INSTALACION DE SALIDA LAVAPLATOS 2	GLB	120,815.99	2 may '25	24 sep '25	GL				0.00	$
8.15.15	INSTALACION DE SALIDA POCETA A°E.O 2	GLB	311,000.00	2 may '25	24 sep '25	GL				0.00	$
8.15.15	INSTALACION DE SALIDA POCETA A°E.O 2	GLB	402,500.01	2 may '25	24 sep '25	GL				0.00	$
8.15.16	INSTALACION DE SALIDA ORINAL 2	GLB	1,156,428.71	2 may '25	24 sep '25	GL				0.00	$
8.15.17	INSTALACION DE SALIDA 1 4 DN 3	GLB	1,310,470.12	2 may '25	24 sep '25	GL				0.00	$
8.15.18	INSTALACION DE SALIDA 3/4 DN 2	GLB	2,118,000.22	2 may '25	24 sep '25	GL				0.00	$
8.15.2	INSTALACION DE SALIDA SANITARIO TANQUE 4	GLB	202,600.01	2 may '25	24 sep '25	GL				0.00	$
8.15.2	INSTALACION DE SALIDA SANITARIO TANQUE 4	GLB	101,330.01	2 may '25	24 sep '25	GL				0.00	$
8.15.3	INSTALACION DE SALIDA LAVAMANOS 2	GLB	5,067,000.01	2 may '25	24 sep '25	GL				0.00	$
8.15.3	INSTALACION DE SALIDA LAVAMANOS 2	GLB	5,067,000.01	2 may '25	24 sep '25	GL				0.00	$
8.15.6	INSTALACION DE SALIDA DUCHA 2	GLB	2,419,543.61	2 may '25	24 sep '25	GL				0.00	$
8.15.6	INSTALACION DE SALIDA DUCHA 2	GLB	2,419,543.61	2 may '25	24 sep '25	GL				0.00	$
		GLB		2 may '25	24 sep '25	GL				0.00	$
8.16.12	SUMINISTRO E INSTALACION CHEQUE CORTINA SELLO NITRILO DIAM=2 CUERPO EN BRONCE ROSCA NPT	GLB	1,878,200.00	2 may '25	24 sep '25	GL				0.00	$
8.16.15	SUMINISTRO E INSTALACION UNION UNIVERSAL DIAM=2 PVC ROSCA NPT	GLB	203,478.81	2 may '25	24 sep '25	GL				0.00	$
8.16.18	SUMINISTRO E INSTALACION SOPORTE TIPO PERA 2	GLB	208,840.01	2 may '25	24 sep '25	GL				0.00	$
8.16.21	SUMINISTRO E INSTALACION ABRAZADERAS DIAM= 2	GLB	58,000.01	2 may '25	24 sep '25	GL				0.00	$
8.16.3	SUMINISTRO E INSTALACION TUBERIA PVC-P RDE=21 DIAM=2	GLB	1,529,910.10	2 may '25	1 oct '25	GL				0.00	$
8.16.6	SUMINISTRO E INSTALACION ACCESORIOS PVC-P DIAM=2	GLB	367,020.09	9 may '25	4 sep '25	GL				0.00	$
8.16.9	SUMINISTRO E INSTALACION VALVULA COMPUERTA DIAM=2 CUERPO EN BRONCE ROSCA NPT	GLB	165,719.92	9 may '25	12 sep '25	GL				0.00	$
		GLB		21 may '25	1 oct '25	GL				0.00	$
8.17.1	SUMINISTRO E INSTALACION TUBERIA PVC-P RDE=21 DIAM=4	GLB	2,526,103.70	4 sep '25	1 oct '25	GL				0.00	$
8.17.1	SUMINISTRO E INSTALACION TUBERIA PVC-P RDE=21 DIAM=4	GLB	2,526,103.70	9 may '25	1 oct '25	GL				0.00	$
8.17.10	SUMINISTRO E INSTALACION CHEQUE CORTINA SELLO NITRILO DIAM=4 CUERPO EN BRONCE ROSCA NPT	GLB	2,415,579.99	9 may '25	1 oct '25	GL				0.00	$
8.17.10	SUMINISTRO E INSTALACION CHEQUE CORTINA SELLO NITRILO DIAM=4 CUERPO EN BRONCE ROSCA NPT	GLB	2,415,579.99	9 may '25	1 oct '25	GL				0.00	$
8.17.13	SUMINISTRO E INSTALACION UNION UNIVERSAL DIAM=4 PVC ROSCA NPT	GLB	49,870.00	9 may '25	1 oct '25	GL				0.00	$
8.17.13	SUMINISTRO E INSTALACION UNION UNIVERSAL DIAM=4 PVC ROSCA NPT	GLB	49,870.00	9 may '25	1 oct '25	GL				0.00	$
8.17.16	SUMINISTRO E INSTALACION SOPORTE TIPO PERA 4	GLB	749,879.61	9 may '25	1 oct '25	GL				0.00	$
8.17.16	SUMINISTRO E INSTALACION SOPORTE TIPO PERA 4	GLB	749,879.61	9 may '25	1 oct '25	GL				0.00	$
8.17.19	SUMINISTRO E INSTALACION ABRAZADERAS DIAM= 4	GLB	159,967.99	9 may '25	1 oct '25	GL				0.00	$
8.17.19	SUMINISTRO E INSTALACION ABRAZADERAS DIAM= 4	GLB	159,967.99	9 may '25	1 oct '25	GL				0.00	$
8.17.4	SUMINISTRO E INSTALACION ACCESORIOS PVC-P DIAM=4	GLB	61,249.97	9 may '25	1 oct '25	GL				0.00	$

8.17.4	SUMINISTRO E INSTALACION ACCESORIOS PVC-P [illegible]	PZA	61,743.97	9-may-25	1-oct-25	03						$
8.17.5	SUMINISTRO E INSTALACION VALVULA COMPUERTA CUERPO EN BRONCE ROSCA NPT	PZA	85,[illegible].61	9-may-25	1-oct-25	03						$
8.17.7	SUMINISTRO E INSTALACION VALVULA COMPUERTA CUERPO EN BRONCE ROSCA NPT	PZA	64,[illegible].61	9-may-25	1-oct-25	03						$
		PZA		9-may-25	1-oct-25	03						$
8.18.101	SUMINISTRO E INSTALACION REGISTRO DE CORTE 1	PZA	3,040,[illegible].84	9-may-25	1-oct-25	03						$
8.18.103	SUMINISTRO E INSTALACION CHAMERA 6 A 2 1/2 A 2 1/2 2 1/2 CON CHEQUE INTEGRADO	PZA	675,[illegible].01	9-may-25	1-oct-25	03						$
8.18.106	SUMINISTRO E INSTALACION MANOMETRO DE GLICERINA 0-300 PSI	PZA	1,[illegible].83	9-may-25	1-oct-25	03						$
8.18.107	SUMINISTRO E INSTALACION ROCIADOR AUTOMATICO RESPONDENTE (K=5.6) CUBRE Y MONTE	PZA	29,301,[illegible].02	9-may-25	1-oct-25	03						$
8.18.109	SUMINISTRO E INSTALACION ROCIADOR AUTOMATICO UPRIGHT (K=5.6) CUBRE Y MONTE	PZA	13,[illegible].77	9-may-25	1-oct-25	03						$
8.18.101	SUMINISTRO E INSTALACION PUNTO HIDRAULICO ROCIADOR	PZA	43,304,345.63	9-may-25	1-oct-25	03						$
8.18.110	SUMINISTRO E INSTALACION PINTURA PARA TUBERIA	PZA	144,272,[illegible].30	9-may-25	1-oct-25	03						$
8.18.111	SUMINISTRO E INSTALACION EXTINTOR PQS TIPO PROPOSITO ABC 10 LB	PZA	4,234,119.81	9-may-25	1-oct-25	03						$
8.18.112	SUMINISTRO E INSTALACION EXTINTOR A BASE DE CO2 10 LB	PZA	4,704,[illegible].03	9-may-25	1-oct-25	03						$
8.18.113	SUMINISTRO E INSTALACION EXTINTOR A DE 10 LB	PZA	912,810.00	9-may-25	1-oct-25	03						$
8.18.114	GABINETE CON ROCIADORES DE REPUESTO (CONTIENE 6 ROCIADORES DE RESPUESTA RAPIDA K=5.6 TEMP. 135°F & TIPO UPRIGHT)	PZA	246,[illegible].93	9-may-25	1-oct-25	03						$
8.18.115	GABINETE CON ROCIADORES DE REPUESTO (CONTIENE 6 ROCIADORES DE RESPUESTA RAPIDA K=5.6 TEMP. 135°F & TIPO PENDENT)	PZA	157,331.00	9-may-25	1-oct-25	03						$
8.18.117	SUMINISTRO E INSTALACION GABINETE CLASE II	PZA	2,[illegible].00	9-may-25	1-oct-25	03						$
8.18.118	SUMINISTRO E INSTALACION GABINETE CLASE II	PZA	29,764,998.97	9-may-25	1-oct-25	03						$
8.18.122	SUMINISTRO E INSTALACION TRANSICION PVC C900 A ACERO 6	PZA	2,[illegible].00	9-may-25	1-oct-25	03						$
8.18.123	SUMINISTRO E INSTALACION TRANSICION PVC C900 A ACERO 4	PZA	11,193,919.06	9-may-25	1-oct-25	03						$
8.18.125	SUMINISTRO E INSTALACION SOPORTE TIPO PERA UL/FM 6	PZA	476,[illegible].94	9-may-25	1-oct-25	03						$
8.18.126	SUMINISTRO E INSTALACION SOPORTE TIPO PERA UL/FM 4	PZA	1,[illegible].84	9-may-25	1-oct-25	03						$
8.18.127	SUMINISTRO E INSTALACION SOPORTE TIPO PERA UL/FM 3	PZA	3,[illegible].86	9-may-25	1-oct-25	03						$
8.18.128	SUMINISTRO E INSTALACION SOPORTE TIPO PERA UL/FM 2 1/2	PZA	3,[illegible].53	9-may-25	1-oct-25	03						$
8.18.129	SUMINISTRO E INSTALACION SOPORTE TIPO PERA UL/FM 2	PZA	2,[illegible].40	9-may-25	1-oct-25	03						$
8.18.130	SUMINISTRO E INSTALACION SOPORTE TIPO PERA UL/FM 1 1/2	PZA	1,[illegible].70	9-may-25	1-oct-25	03						$
8.18.131	SUMINISTRO E INSTALACION SOPORTE TIPO PERA UL/FM 1 1/4	PZA	175,[illegible].95	9-may-25	1-oct-25	03						$
8.18.132	SUMINISTRO E INSTALACION SOPORTE TIPO PERA UL/FM 1	PZA	3,144,[illegible].80	9-may-25	1-oct-25	03						$
8.18.133	SUMINISTRO E INSTALACION SOPORTE TECHO RESISTENTE 4 VIAS	PZA	3,133,[illegible].63	9-may-25	1-oct-25	03						$
8.18.134	SUMINISTRO E INSTALACION SOPORTE TECHO RESISTENTE LATERAL	PZA	11,[illegible].78	9-may-25	1-oct-25	03						$
8.18.135	SUMINISTRO E INSTALACION SOPORTE TECHO RESISTENTE TRANSVERSAL	PZA	44,451,[illegible].78	9-may-25	1-oct-25	03						$
8.18.15	SUMINISTRO E INSTALACION TUBERIA ACERO NEGRO CED 10 6	PZA	25,[illegible].75	9-may-25	1-oct-25	03						$
8.18.150	SUMINISTRO E INSTALACION ABRAZADERAS UL/FM 6	PZA	1,[illegible].38	9-may-25	1-oct-25	03						$
8.18.151	SUMINISTRO E INSTALACION ABRAZADERAS UL/FM 3	PZA	741,[illegible].90	9-may-25	1-oct-25	03						$
8.18.152	SUMINISTRO E INSTALACION ABRAZADERAS UL/FM 2 1/2	PZA	4,[illegible].42	9-may-25	21-oct-25	03						$
8.18.154	SUMINISTRO E INSTALACION ABRAZADERAS UL/FM 1 1/2	PZA	29,[illegible].90	21-may-25	1-oct-25	03						$
8.18.156	SUMINISTRO E INSTALACION ABRAZADERAS UL/FM 1	PZA	1,494,197.36	4-sep-25	1-oct-25	03						$
8.18.16	SUMINISTRO E INSTALACION TUBERIA ACERO NEGRO CED 10 4	PZA	87,357,[illegible].22	9-may-25	1-oct-25	03						$
8.18.163	SUMINISTRO E INSTALACION ROCIADOR AUTOMATICO UPRIGHT (K=11.2 CE 1/2) FUSIBLE Y MONTE	PZA	[illegible].64	9-may-25	1-oct-25	03						$
8.18.164	CANASTILLA CON ROCIADORES DE REPUESTO (CONTIENE 6 ROCIADORES DE RESPUESTA RAPIDA K=11.2 CE TEMP. 135°F 6 TIPO UPRIGHT Y 6 TIPO PENDENTE)	PZA	478,[illegible].00	9-may-25	1-oct-25	03						$
8.18.165	SUMINISTRO E INSTALACION ROCIADOR AUTOMATICO PENDENTE (K=11.2 CE) FUSIBLE Y MONTE	PZA	8,[illegible].00	9-may-25	1-oct-25	03						$
8.18.17	SUMINISTRO E INSTALACION TUBERIA ACERO NEGRO CED 10 3	PZA	43,[illegible].13	9-may-25	1-oct-25	03						$
8.18.18	SUMINISTRO E INSTALACION TUBERIA ACERO NEGRO CED 10 2 1/2	PZA	192,719,154.10	9-may-25	1-oct-25	03						$
8.18.19	SUMINISTRO E INSTALACION TUBERIA ACERO NEGRO CED 10 2	PZA	46,421,[illegible].18	9-may-25	1-oct-25	03						$
8.18.20	SUMINISTRO E INSTALACION TUBERIA ACERO NEGRO CED 10 1 1/2	PZA	26,[illegible].27	9-may-25	1-oct-25	03						$
8.18.22	SUMINISTRO E INSTALACION TUBERIA ACERO NEGRO CED 10 1 1/4	PZA	3,[illegible].52	9-may-25	1-oct-25	03						$
8.18.31	SUMINISTRO E INSTALACION TUBERIA ACERO NEGRO CED 10 1	PZA	57,[illegible].84	9-may-25	1-oct-25	03						$
8.18.37	SUMINISTRO E INSTALACION ACCESORIOS PVC C900 8	PZA	2,[illegible].21	9-may-25	1-oct-25	03						$
8.18.38	SUMINISTRO E INSTALACION ACCESORIOS PVC C900 6	PZA	23,[illegible].61	9-may-25	1-oct-25	03						$
8.18.4	SUMINISTRO E INSTALACION TUBERIA PVC C900 6	PZA	3,[illegible].21	9-may-25	1-oct-25	03						$
8.18.42	SUMINISTRO E INSTALACION ACCESORIOS PLATAFORMA TIPO 1 1/2	PZA	541,[illegible].00	9-may-25	1-oct-25	03						$
8.18.45	SUMINISTRO E INSTALACION ACCESORIOS ACERO RANURADO 6	PZA	274,[illegible].01	9-may-25	1-oct-25	03						$
8.18.47	SUMINISTRO E INSTALACION ACCESORIOS ACERO RANURADO 4	PZA	2,[illegible].00	9-may-25	1-oct-25	03						$
8.18.5	SUMINISTRO E INSTALACION TUBERIA PVC C900 4	PZA	29,331,[illegible].41	9-may-25	1-oct-25	03						$
8.18.50	SUMINISTRO E INSTALACION ACCESORIOS ACERO RANURADO 3	PZA	23,[illegible].00	9-may-25	1-oct-25	03						$
8.18.51	SUMINISTRO E INSTALACION ACCESORIOS ACERO RANURADO 2 1/2	PZA	8,[illegible].63	9-may-25	1-oct-25	03						$
8.18.52	SUMINISTRO E INSTALACION ACCESORIOS ACERO RANURADO 2	PZA	[illegible].12	9-may-25	1-oct-25	03						$
8.18.53	SUMINISTRO E INSTALACION ACCESORIOS ACERO RANURADO 1 1/2	PZA	4,[illegible].52	9-may-25	1-oct-25	03						$
8.18.54	SUMINISTRO E INSTALACION ACCESORIOS ACERO ROSCADO 1 1/4	PZA	3,[illegible].06	9-may-25	1-oct-25	03						$
8.18.55	SUMINISTRO E INSTALACION ACCESORIOS ACERO ROSCADO 1	PZA	3,[illegible].00	9-may-25	1-oct-25	03						$
8.18.64	SUMINISTRO E INSTALACION REDUCTORES NO TUBO PVC A ADC PVC 6	PZA	1,[illegible].97	9-may-25	1-oct-25	03						$
8.18.65	SUMINISTRO E INSTALACION REDUCTORES NO TUBO PVC A ADC PVC 4	PZA	27,[illegible].33	9-may-25	1-oct-25	03						$
8.18.66	SUMINISTRO E INSTALACION VALVULA TENTATIVA DE FLUJO 4	PZA	447,[illegible].00	9-may-25	1-oct-25	03						$
8.18.67	SUMINISTRO E INSTALACION VALVULA TENTATIVA DE FLUJO 3	PZA	2,[illegible].00	9-may-25	1-oct-25	03						$
8.18.73	SUMINISTRO E INSTALACION CHEQUE 4	PZA	131,[illegible].00	9-may-25	1-oct-25	03						$
8.18.74	SUMINISTRO E INSTALACION CHEQUE 3	PZA	8,[illegible].00	9-may-25	1-oct-25	03						$
8.18.78	SUMINISTRO E INSTALACION VALVULA TIPO MARIPOSA CON SUPERVISOR 4	PZA	3,[illegible].00	9-may-25	1-oct-25	03						$
8.18.80	SUMINISTRO E INSTALACION VALVULA TIPO MARIPOSA CON SUPERVISOR 3	PZA	1,[illegible].00	9-may-25	1-oct-25	03						$
8.18.81	SUMINISTRO E INSTALACION COUPLING 6	PZA	727,[illegible].00	9-may-25	1-oct-25	03						$
8.18.83	SUMINISTRO E INSTALACION COUPLING 4	PZA	2,[illegible].00	9-may-25	1-oct-25	03						$
8.18.83	SUMINISTRO E INSTALACION COUPLING 3	PZA	50,[illegible].32	9-may-25	1-oct-25	03						$
8.18.9	SUMINISTRO E INSTALACION TUBERIA BLAZEMASTER 1 1/2	PZA	4,[illegible].75	9-may-25	1-oct-25	03						$
8.18.90	SUMINISTRO E INSTALACION COUPLING 2 1/2	PZA	27,[illegible].24	9-may-25	1-oct-25	03						$
8.18.91	SUMINISTRO E INSTALACION COUPLING 2	PZA	14,[illegible].11	9-may-25	1-oct-25	03						$
8.18.92	SUMINISTRO E INSTALACION COUPLING 1 1/2	PZA	13,[illegible].75	9-may-25	1-oct-25	03						$
8.18.93	SUMINISTRO E INSTALACION STRAP 3	PZA	23,[illegible].12	9-may-25	4-sep-25	03						$
8.18.94	SUMINISTRO E INSTALACION STRAP 2 1/2	PZA	1,[illegible].24	9-may-25	11-sep-25	03						$
8.18.95	SUMINISTRO E INSTALACION STRAP 2	PZA	1,[illegible].73	21-may-25	1-oct-25	03						$
8.18.96	SUMINISTRO E INSTALACION STRAP 1 1/2	PZA	[illegible].53	4-sep-25	1-oct-25	03						$
8.18.99	SUMINISTRO E INSTALACION VALVULA EXPULSORA DE AIRE 1	PZA	762,[illegible].12	9-may-25	1-oct-25	03						$
		PZA		9-may-25	1-oct-25	03						$
8.20.1	SUMINISTRO E INSTALACION TUBERIA A.G.CED 40 2	PZA	4,[illegible].70	9-may-25	1-oct-25	03						$
8.20.13	SUMINISTRO E INSTALACION ACCESORIOS A.G.CED 40 2	PZA	1,[illegible].92	9-may-25	1-oct-25	03						$
8.20.15	SUMINISTRO E INSTALACION ACCESORIOS A.G.CED 40 1 1/4	PZA	[illegible].11	9-may-25	1-oct-25	03						$
8.20.17	SUMINISTRO E INSTALACION ACCESORIOS A.G.CED 40 1	PZA	1,[illegible].71	9-may-25	1-oct-25	03						$
8.20.3	SUMINISTRO E INSTALACION TUBERIA A.G.CED 40 1 1/4	PZA	2,[illegible].13	9-may-25	1-oct-25	03						$
8.20.31	SUMINISTRO E INSTALACION REGISTRO DE FOLA 2	PZA	1,[illegible].66	9-may-25	1-oct-25	03						$
8.20.35	SUMINISTRO E INSTALACION REGISTRO DE FOLA 3/4	PZA	74,[illegible].00	9-may-25	1-oct-25	03						$
8.20.37	SUMINISTRO E INSTALACION ABRAZADERAS 2	PZA	504,360.21	9-may-25	8-oct-25	03						$
8.20.39	SUMINISTRO E INSTALACION ABRAZADERAS 1 1/4	PZA	264,[illegible].06	16-may-25	17-oct-25	03						$
8.20.41	SUMINISTRO E INSTALACION ABRAZADERAS 1	PZA	4,[illegible].12	16-may-25	24-oct-25	03						$
8.20.43	SUMINISTRO E INSTALACION REGULADOR PRIMERA ETAPA	PZA	1,[illegible].96	1-jul-25	8-oct-25	03						$
8.20.46	SUMINISTRO E INSTALACION REGULADOR ASOCIADO CON VENTEO	PZA	9,[illegible].02	11-sep-25	8-oct-25	03						$
8.20.47	SUMINISTRO E INSTALACION MEDIDOR	PZA	433,[illegible].05	16-may-25	8-oct-25	03						$
8.20.48	SUMINISTRO E INSTALACION TUBO TIPO ACERO GALVANIZADO 12	PZA	28,[illegible].22	16-may-25	8-oct-25	03						$

8.27.5	SUMINISTRO E INSTALACION TUBERIA A.G SCH 40 2 1/2	GLB	10.[illegible].727,22	18 mes 25	8.001.25	GL					GL	$
		GLB		18 mes 25	8.001.25	GL					GL	$
8.27.12	INSTALACION DE PUNTO EXISTENTE - TIPO 1	GLB	102.520,73	18 mes 25	8.001.25	GL					GL	$
8.27.13	INSTALACION DE PUNTO CALDERA	GLB	1.214.220,01	18 mes 25	8.001.25	GL					GL	$
8.27.8	INSTALACION DE PUNTO PLANCHA - TIPO 1	GLB	102.520,73	18 mes 25	8.001.25	GL					GL	$
		GLB		18 mes 25	8.001.25	GL					GL	$
8.27.1	PRUEBA DE HERMETICIDAD TUBERIAS	GLB	241.500,00	18 mes 25	8.001.25	GL					GL	$
8.27.2	PRUEBA DE ESTANQUEIDAD POR BAJANTE	GLB	845.400,00	18 mes 25	8.001.25	GL					GL	$
8.27.3	PRUEBA DE HERMETICIDAD TUBERIAS	GLB	241.500,00	18 mes 25	8.001.25	GL					GL	$
8.27.4	PRUEBA GENERAL RED CONTRA INCENDIOS	GLB	241.500,00	18 mes 25	8.001.25	GL					GL	$
8.27.5	PLANOS RED DE HIDROSANITARIOS	GLB	966.200,00	18 mes 25	8.001.25	GL					GL	$
8.27.6	LAVADO - DESINFECCION DE TANQUE 20000 LT	GLB	690.630,00	18 mes 25	8.001.25	GL					GL	$
8.27.7	DESINFECCION DEL SISTEMA DE AGUA POTABLE POR PISO	GLB	1.151.651,99	18 mes 25	8.001.25	GL					GL	$
		GLB		18 mes 25	8.001.25	GL					GL	$
8.24.1	SUMINISTRO E INSTALACION DE TEE 4"X6" - T-2150"	GLB	8.040.420,62	18 mes 25	8.001.25	GL					GL	$
8.24.13	CAJA INSPECCION (1.0 X 1.0 M) HORMIGON 2.5 MA TUVE EXCAVA	GLB	5.293.277,25	18 mes 25	8.001.25	GL					GL	$
8.24.18	CAJA INSPECCION 60 X 60 X 60 ESPECIFICADO	GLB	25.093.511,44	18 mes 25	8.001.25	GL					GL	$
8.24.19	CAJA INSPECCION 60 X 60 X 60 ESPECIFICADO	GLB	13.000.125,13	18 mes 25	8.001.25	GL					GL	$
8.24.2	RELLENO MATERIAL SELECCIONADO DE EXCAVA SIN COMPA	GLB	3.867.234,15	18 mes 25	8.001.25	GL					GL	$
8.24.3	RELLENO EN GRAVILLA DE RIO (SUMINISTRO+TRANSPORTE)	GLB	1.031.251,31	18 mes 25	8.001.25	GL					GL	$
		GLB		18 mes 25	8.001.25	GL					GL	$
8.25.10	SUMINISTRO E INSTALACION ACCESORIOS PVC-S 3	GLB	847.120,00	18 mes 25	8.001.25	GL					GL	$
8.25.11	SUMINISTRO E INSTALACION ACCESORIOS PVC-S 2	GLB	847.120,00	18 mes 25	8.001.25	GL					GL	$
8.25.18	SUMINISTRO E INSTALACION VALVULA DE ADMISION DE AIRE 2	GLB	407.670,96	18 mes 25	8.001.25	GL					GL	$
8.25.2	SUMINISTRO E INSTALACION TUBERIA PVC-S 4	GLB	3.154.203,62	18 mes 25	8.001.25	GL					GL	$
8.25.24	SUMINISTRO E INSTALACION ABRAZADERAS 2	GLB	81.470,04	18 mes 25	8.001.25	GL					GL	$
8.25.3	SUMINISTRO E INSTALACION TUBERIA PVC-S 3	GLB	1.261.824,06	18 mes 25	8.001.25	GL					GL	$
8.25.30	SUMINISTRO E INSTALACION TUBERIA PVC ALCANTARILLADO 315MM	GLB	19.574.329,70	18 mes 25	8.001.25	GL					GL	$
8.25.31	SUMINISTRO E INSTALACION ACCESORIO PVC ALCANTARILLADO 315MM	GLB	678.500,00	18 mes 25	8.001.25	GL					GL	$
8.25.4	SUMINISTRO E INSTALACION TUBERIA PVC-S 2	GLB	461.498,61	18 mes 25	8.001.25	GL					GL	$
8.25.7	SUMINISTRO E INSTALACION TUBERIA PVC-S 2	GLB	291.875,01	18 mes 25	8.001.25	GL					GL	$
8.25.9	SUMINISTRO E INSTALACION ACCESORIOS PVC-S 4	GLB	237.270,04	18 mes 25	8.001.25	GL					GL	$
		GLB		18 mes 25	8.001.25	GL					GL	$
8.26.1	SUMINISTRO E INSTALACION TUBERIA ACERO INOX. TIPO 304/304L ASTM A312 2	GLB	2.874.279,19	18 mes 25	8.001.25	GL					GL	$
8.26.10	SUMINISTRO E INSTALACION REGISTRO CORTINA 3 CUERPO EN BRONCE ROSCA NPT	GLB	2.[illegible].100,00	18 mes 25	8.001.25	GL					GL	$
8.26.11	SUMINISTRO E INSTALACION REGISTRO CORTINA 2 CUERPO EN BRONCE ROSCA NPT	GLB	697.340,00	18 mes 25	8.001.25	GL					GL	$
8.26.12	SUMINISTRO E INSTALACION REGISTRO CORTINA 1 1/4 CUERPO EN BRONCE ROSCA NPT	GLB	231.150,00	18 mes 25	8.001.25	GL					GL	$
8.26.13	SUMINISTRO E INSTALACION UNIVERSAL 3	GLB	392.999,99	18 mes 25	8.001.25	GL					GL	$
8.26.15	SUMINISTRO E INSTALACION UNIVERSAL 1 1/4	GLB	27.729,93	18 mes 25	8.001.25	GL					GL	$
8.26.16	SUMINISTRO E INSTALACION COPA CONCENTRICA 2"X1 1/4 EN ACERO INOXIDABLE DE UNION SOLDADA	GLB	24.370,00	18 mes 25	8.001.25	GL					GL	$
8.26.17	SUMINISTRO E INSTALACION COPA EXCENTRICA 2"X1 1/4 EN ACERO INOXIDABLE DE UNION SOLDADA ASMT-A351	GLB	24.370,00	18 mes 25	8.001.25	GL					GL	$
8.26.18	SUMINISTRO E INSTALACION TRANSICION PVC A ACERO 2	GLB	44.290,91	18 mes 25	8.001.25	GL					GL	$
8.26.19	SUMINISTRO E INSTALACION TRANSICION PVC A ACERO 1 1/4	GLB	24.370,99	18 mes 25	8.001.25	GL					GL	$
8.26.2	SUMINISTRO E INSTALACION TUBERIA ACERO INOX. TIPO 304/304L ASTM A312 2	GLB	217.823,27	18 mes 25	8.001.25	GL					GL	$
8.26.20	SUMINISTRO E INSTALACION TERMOSTATO	GLB	9.000,01	18 mes 25	8.001.25	GL					GL	$
8.26.22	SUMINISTRO E INSTALACION SOPORTE TIPO HERA 3	GLB	48.167,00	18 mes 25	8.001.25	GL					GL	$
8.26.23	SUMINISTRO E INSTALACION SOPORTE TIPO HERA 2	GLB	8.125,00	18 mes 25	8.001.25	GL					GL	$
8.26.24	SUMINISTRO E INSTALACION SOPORTE TIPO HERA 1 1/4	GLB	7.617,00	18 mes 25	8.001.25	GL					GL	$
8.26.3	SUMINISTRO E INSTALACION TUBERIA ACERO INOX. TIPO 304/304L ASTM A312 1 1/4	GLB	42.109,99	18 mes 25	8.001.25	GL					GL	$
8.26.4	SUMINISTRO E INSTALACION ACCESORIOS ACERO INOX 3	GLB	1.223.800,04	18 mes 25	8.001.25	GL					GL	$
8.26.5	SUMINISTRO E INSTALACION ACCESORIOS ACERO INOX 2	GLB	115.010,90	18 mes 25	8.001.25	GL					GL	$
8.26.6	SUMINISTRO E INSTALACION ACCESORIOS ACERO INOX 1 1/4	GLB	212.470,00	18 mes 25	8.001.25	GL					GL	$
8.26.7	SUMINISTRO E INSTALACION CHEQUE HORO 3	GLB	1.814.520,00	18 mes 25	8.001.25	GL					GL	$
8.26.8	SUMINISTRO E INSTALACION CHEQUE HORO 2	GLB	833.250,00	18 mes 25	8.001.25	GL					GL	$
8.26.9	SUMINISTRO E INSTALACION CHEQUE HORO 1 1/4	GLB	21.420,00	18 mes 25	8.001.25	GL					GL	$
		GLB		18 mes 25	8.001.25	GL					GL	$
9	INSTALACIONES ELÉCTRICAS, VOZ/DATOS, SISTEMA DE DETECCIÓN DE INCENDIOS, CCTV	GLB		18 mes 25	8.001.25	GL					GL	$
9.1.1	SUMINISTRO E INSTALACION TUBERIA PVC P Diamo 6	GLB	25.267.001,16	18 mes 25	8.001.25	GL					GL	$
9.1.10	SUMINISTRO E INSTALACION ACCESORIOS PVC P Diamo 4	GLB	2.678.200,07	18 mes 25	8.001.25	GL					GL	$
9.1.11	SUMINISTRO E INSTALACION ACCESORIOS PVC P Diamo 3	GLB	5.253.003,03	18 mes 25	8.001.25	GL					GL	$
9.1.12	SUMINISTRO E INSTALACION ACCESORIOS PVC P Diamo 2	GLB	8.371.977,14	18 mes 25	8.001.25	GL					GL	$
9.1.13	SUMINISTRO E INSTALACION ACCESORIOS PVC P Diamo 1 1/2	GLB	1.364.370,56	18 mes 25	8.001.25	GL					GL	$
9.1.14	SUMINISTRO E INSTALACION ACCESORIOS PVC P Diamo 1	GLB	1.041.193,27	18 mes 25	8.001.25	GL					GL	$
9.1.15	SUMINISTRO E INSTALACION ACCESORIOS PVC P Diamo 3/4	GLB	568.236.000,10	18 mes 25	8.001.25	GL					GL	$
9.1.16	SUMINISTRO E INSTALACION ACCESORIOS PVC P Diamo 1/2	GLB	4.208.439,84	18 mes 25	8.001.25	GL					GL	$
9.1.17	SUMINISTRO E INSTALACION TUBERIA PVC P Diamo 1 1/4	GLB	24.222.[illegible].27	18 mes 25	8.001.25	GL					GL	$
9.1.18	SUMINISTRO E INSTALACION ACCESORIOS PVC P Diamo 1 1/4	GLB	12.014.[illegible].77	18 mes 25	8.001.25	GL					GL	$
9.1.2	SUMINISTRO E INSTALACION TUBERIA PVC P Diamo 4	GLB	2.[illegible].[illegible].27	18 mes 25	8.001.25	GL					GL	$
9.1.3	SUMINISTRO E INSTALACION TUBERIA PVC P Diamo 3	GLB	36.800.[illegible].91	18 mes 25	8.001.25	GL					GL	$
9.1.4	SUMINISTRO E INSTALACION TUBERIA PVC P Diamo 2	GLB	21.916.[illegible].21	18 mes 25	8.001.25	GL					GL	$
9.1.5	SUMINISTRO E INSTALACION TUBERIA PVC P Diamo 1 1/2	GLB	5.371.[illegible].21	18 mes 25	8.001.25	GL					GL	$
9.1.6	SUMINISTRO E INSTALACION TUBERIA PVC P Diamo 1	GLB	8.[illegible].[illegible].64	18 mes 25	8.001.25	GL					GL	$
9.1.7	SUMINISTRO E INSTALACION TUBERIA PVC P Diamo 3/4	GLB	42.825.[illegible].76	18 mes 25	8.001.25	GL					GL	$
9.1.8	SUMINISTRO E INSTALACION TUBERIA PVC P Diamo 1/2	GLB	1.[illegible].[illegible].24	18 mes 25	8.001.25	GL					GL	$
9.1.9	SUMINISTRO E INSTALACION ACCESORIOS PVC P Diamo 6	GLB	15.521.[illegible].53	18 mes 25	8.001.25	GL					GL	$
		GLB		18 mes 25	8.001.25	GL					GL	$
9.2.10	SUMINISTRO E INSTALACION ACCESORIOS EMT P Diamo 4	GLB	3.236.[illegible].12	18 mes 25	8.001.25	GL					GL	$
9.2.11	SUMINISTRO E INSTALACION ACCESORIOS EMT P Diamo 3	GLB	4.930.[illegible].52	18 mes 25	8.001.25	GL					GL	$
9.2.12	SUMINISTRO E INSTALACION ACCESORIOS EMT P Diamo 2	GLB	4.[illegible].[illegible].15	18 mes 25	8.001.25	GL					GL	$
9.2.13	SUMINISTRO E INSTALACION ACCESORIOS EMT P Diamo 1 1/2	GLB	1.[illegible].[illegible].64	18 mes 25	8.001.25	GL					GL	$
9.2.14	SUMINISTRO E INSTALACION ACCESORIOS EMT P Diamo 1	GLB	1.[illegible].[illegible].41	18 mes 25	8.001.25	GL					GL	$
9.2.15	SUMINISTRO E INSTALACION ACCESORIOS EMT P Diamo 3/4	GLB	26.101.[illegible].84	18 mes 25	8.001.25	GL					GL	$
9.2.16	SUMINISTRO E INSTALACION ACCESORIOS EMT P Diamo 1/2	GLB	1.[illegible].[illegible].27	18 mes 25	8.001.25	GL					GL	$
9.2.17	SUMINISTRO E INSTALACION TUBERIA EMT P Diamo 1 1/4	GLB	53.[illegible].[illegible].21	18 mes 25	8.001.25	GL					GL	$
9.2.18	SUMINISTRO E INSTALACION ACCESORIOS EMT P Diamo 1 1/4	GLB	8.[illegible].[illegible].35	18 mes 25	8.001.25	GL					GL	$
9.2.2	SUMINISTRO E INSTALACION TUBERIA EMT P Diamo 4	GLB	12.[illegible].[illegible].36	18 mes 25	8.001.25	GL					GL	$
9.2.3	SUMINISTRO E INSTALACION TUBERIA EMT P Diamo 3	GLB	41.[illegible].[illegible].61	18 mes 25	8.001.25	GL					GL	$
9.2.4	SUMINISTRO E INSTALACION TUBERIA EMT P Diamo 2	GLB	19.[illegible].[illegible].71	18 mes 25	8.001.25	GL					GL	$
9.2.5	SUMINISTRO E INSTALACION TUBERIA EMT P Diamo 1 1/2	GLB	20.[illegible].[illegible].47	18 mes 25	8.001.25	GL					GL	$
9.2.6	SUMINISTRO E INSTALACION TUBERIA EMT P Diamo 1	GLB	22.[illegible].[illegible].14	18 mes 25	8.001.25	GL					GL	$
9.2.7	SUMINISTRO E INSTALACION TUBERIA EMT P Diamo 3/4	GLB	218.[illegible].[illegible].00	18 mes 25	8.001.25	GL					GL	$
9.2.8	SUMINISTRO E INSTALACION TUBERIA EMT P Diamo 1/2	GLB	8.[illegible].[illegible].04	18 mes 25	8.001.25	GL					GL	$
		GLB		18 mes 25	8.001.25	GL					GL	$
9.3.1	SUMINISTRO E INSTALACION TUBERIA IMC P Diamo 6	GLB	878.[illegible].76	18 mes 25	8.001.25	GL					GL	$
9.3.10	SUMINISTRO E INSTALACION ACCESORIOS IMC P Diamo 4	GLB	329.[illegible].01	18 mes 25	8.001.25	GL					GL	$
9.3.2	SUMINISTRO E INSTALACION TUBERIA IMC P Diamo 4	GLB	410.[illegible].13	18 mes 25	8.001.25	GL					GL	$
9.3.9	SUMINISTRO E INSTALACION ACCESORIOS IMC P Diamo 6	GLB	1.[illegible].[illegible].59	18 mes 25	8.001.25	GL					GL	$
		GLB		18 mes 25	8.001.25	GL					GL	$

9.4.46	SUMINISTRO E INSTALACION CANALETA METALICA CON SEPARADOR 120x50 mm	0.00	2.193.[illegible]	16-may-'25	8-oct-'25	0%				0%	$	
9.4.47	SUMINISTRO E INSTALACION SOPORTE TIPO CHANEL PARA BANDEJA 300x154 mm	0.00	13.641.189,81	16-may-'25	8-oct-'25	0%				0%	$	
9.4.48	SUMINISTRO E INSTALACION DE VARILLA ROSCADA PARA 3/8 PARA SOPORTE CHANEL (incluye Arandelas de Presion)	0.00	4.[illegible]	16-may-'25	8-oct-'25	0%				0%	$	
9.4.49	SUMINISTRO E INSTALACION BANDEJA PORTACABLE TIPO MALLA 300x80 mm	0.00	22.067.600,85	16-may-'25	8-oct-'25	0%				0%	$	
		0.00		16-may-'25	17-sep-'25	0%				0%	$	
9.5.1	SUMINISTRO E INSTALACION CAJA EN MAMPOSTERIA INSPECCION VEHICULAR TAPA REDONDA Ref CS 280	0.00	5.525.[illegible]	16-may-'25	24-sep-'25	0%				0%	$	
9.5.10	SUMINISTRO E INSTALACION CAJA METALICA 30x30 CM	0.00	195.[illegible]	1-jul-'25	8-oct-'25	0%				0%	$	
9.5.11	SUMINISTRO E INSTALACION CAJA METALICA 15x15 CM	0.00	1.463.000,00	11-sep-'25	8-oct-'25	0%				0%	$	
9.5.12	SUMINISTRO E INSTALACION CAJA METALICA 4x4	0.00	5.230.400,08	16-may-'25	8-oct-'25	0%				0%	$	
9.5.14	SUMINISTRO E INSTALACION CAJA RAWELT 4*4	0.00	5.[illegible]	16-may-'25	8-oct-'25	0%				0%	$	
9.5.15	SUMINISTRO E INSTALACION CAJA RAWELT 4x2	0.00	7.443.[illegible]	16-may-'25	8-oct-'25	0%				0%	$	
9.5.16	SUMINISTRO E INSTALACION CAJA RAWELT 5*10 DOBLE FONDO	0.00	13.[illegible]	16-may-'25	8-oct-'25	0%				0%	$	
9.5.17	SUMINISTRO E INSTALACION CAJA RAWELT 5*10	0.00	[illegible]	16-may-'25	8-oct-'25	0%				0%	$	
9.5.18	SUMINISTRO E INSTALACION CAJA RAWELT 2*10	0.00	[illegible]	16-may-'25	8-oct-'25	0%				0%	$	
9.5.2	SUMINISTRO E INSTALACION CAJA EN MAMPOSTERIA DOBLE INSPECCION 2.70 x 1.70 - Ref CS 278	0.00	2.[illegible]	16-may-'25	8-oct-'25	0%				0%	$	
9.5.29	SUMINISTRO E INSTALACION CAJA METALICA 5*10	0.00	3.[illegible]	10-may-'25	22-may-'25	0%				0%	$	
9.5.3	SUMINISTRO E INSTALACION CAJA EN MAMPOSTERIA SENCILLA INSPECCION 1.70 x 1.00 - Ref CS 275	0.00	6.921.[illegible]	22-may-'25	17-sep-'25	0%				0%	$	
9.5.30	SUMINISTRO E INSTALACION CAJA METALICA 24*20	0.00	7.617.501,95	23-may-'25	20-sep-'25	0%				0%	$	
9.5.31	SUMINISTRO E INSTALACION CAJA MAMPOSTERIA 20*40	0.00	1.[illegible]	23-may-'25	17-sep-'25	0%				0%	$	
9.5.32	SUMINISTRO E INSTALACION CAJA METALICA 24*0 DOBLE FONDO	0.00	6.[illegible]	21-may-'25	17-sep-'25	0%				0%	$	
9.5.33	SUMINISTRO E INSTALACION CAJA METALICA OCTAGONAL	0.00	21.441.[illegible]	21-sep-'25	17-sep-'25	0%				0%	$	
9.5.4	SUMINISTRO E INSTALACION CAJA EN MAMPOSTERIA SENCILLA INSPECCION 0.80 - 0.80 - Ref CS 274	0.00	48.313.[illegible]	23-may-'25	17-sep-'25	0%				0%	$	
9.5.5	SUMINISTRO E INSTALACION CAJA METALICA 60x40 CM	0.00	753.[illegible]	23-may-'25	17-sep-'25	0%				0%	$	
9.5.6	SUMINISTRO E INSTALACION CAJA METALICA 60x60 CM	0.00	865.[illegible]	23-may-'25	17-sep-'25	0%				0%	$	
		0.00		23-may-'25	17-sep-'25	0%				0%	$	
9.6.1	SUMINISTRO E INSTALACION CABLE CU AISLADO #8 LSZH NO 10	0.00	26.212.000,00	23-may-'25	17-sep-'25	0%				0%	$	
9.6.26	SUMINISTRO E INSTALACION CABLE CU DESNUDO NO 12	0.00	80.[illegible]	23-may-'25	17-sep-'25	0%				0%	$	
9.6.27	SUMINISTRO E INSTALACION CABLE CU DESNUDO NO 10	0.00	40.[illegible]	23-may-'25	17-sep-'25	0%				0%	$	
9.6.28	SUMINISTRO E INSTALACION CABLE CU DESNUDO NO 8	0.00	9.[illegible]	23-may-'25	17-sep-'25	0%				0%	$	
9.6.29	SUMINISTRO E INSTALACION CABLE CU AISLADO NO 6	0.00	33.[illegible]	23-may-'25	17-sep-'25	0%				0%	$	
9.6.30	SUMINISTRO E INSTALACION CABLE CU DESNUDO NO 4	0.00	13.[illegible]	21-may-'25	17-sep-'25	0%				0%	$	
9.6.33	SUMINISTRO E INSTALACION CABLE CU DESNUDO NO 2/0	0.00	276.[illegible]	23-may-'25	17-sep-'25	0%				0%	$	
9.6.40	SUMINISTRO E INSTALACION CABLE XLPE 2	0.00	8.431.[illegible]	23-may-'25	17-sep-'25	0%				0%	$	
9.6.42	SUMINISTRO E INSTALACION CABLE XLPE 2/0	0.00	19.243.[illegible]	23-may-'25	17-sep-'25	0%				0%	$	
9.6.43	SUMINISTRO E INSTALACION ALAMBRON 8 mm	0.00	10.813.[illegible]	23-may-'25	17-sep-'25	0%				0%	$	
9.6.48	SUMINISTRO E INSTALACION FIBRA OPTICA OM4	0.00	10.[illegible]	23-may-'25	17-sep-'25	0%				0%	$	
9.6.51	SUMINISTRO E INSTALACION CABLE CATEGORIA 6A F/UTP DE 500 MHZ	0.00	83.[illegible]	23-may-'25	17-sep-'25	0%				0%	$	
9.6.54	SUMINISTRO E INSTALACION CONECTORES DE RESORTE CABLE 6 NO 22-12	0.00	53.[illegible]	21-may-'25	17-sep-'25	0%				0%	$	
9.6.55	SUMINISTRO E INSTALACION TERMINAL TIPO PALA NO 10	0.00	25.[illegible]	23-may-'25	17-sep-'25	0%				0%	$	
9.6.56	SUMINISTRO E INSTALACION TERMINAL TIPO PALA NO 8	0.00	2.[illegible]	23-may-'25	17-sep-'25	0%				0%	$	
9.6.57	SUMINISTRO E INSTALACION TERMINAL TIPO PALA NO 6	0.00	2.[illegible]	23-may-'25	17-sep-'25	0%				0%	$	
9.6.58	SUMINISTRO E INSTALACION TERMINAL TIPO PALA NO 4	0.00	441.[illegible]	23-may-'25	17-sep-'25	0%				0%	$	
9.6.59	SUMINISTRO E INSTALACION TERMINAL TIPO PALA NO 2	0.00	470.[illegible]	23-may-'25	17-sep-'25	0%				0%	$	
9.6.6	SUMINISTRO E INSTALACION CABLE CU AISLADO LSZH NO 12	0.00	3.[illegible]	23-may-'25	17-sep-'25	0%				0%	$	
9.6.60	SUMINISTRO E INSTALACION TERMINAL TIPO PALA NO 1	0.00	454.[illegible]	23-may-'25	17-sep-'25	0%				0%	$	
9.6.61	SUMINISTRO E INSTALACION TERMINAL TIPO PALA NO 2/0	0.00	572.[illegible]	23-may-'25	17-sep-'25	0%				0%	$	
9.6.62	SUMINISTRO E INSTALACION TERMINAL TIPO PALA NO 3/0	0.00	736.[illegible]	23-may-'25	17-sep-'25	0%				0%	$	
9.6.63	SUMINISTRO E INSTALACION TERMINAL TIPO PALA NO 4/0	0.00	1.[illegible]	23-may-'25	17-sep-'25	0%				0%	$	
9.6.64	SUMINISTRO E INSTALACION TERMINAL TIPO PALA NO 250	0.00	1.[illegible]	21-may-'25	17-sep-'25	0%				0%	$	
9.6.65	SUMINISTRO E INSTALACION TERMINAL TIPO PALA NO 300	0.00	4.[illegible]	23-may-'25	17-sep-'25	0%				0%	$	
9.6.66	SUMINISTRO E INSTALACION TERMINAL TIPO PALA NO 350	0.00	4.[illegible]	23-may-'25	17-sep-'25	0%				0%	$	
9.6.67	SUMINISTRO E INSTALACION TERMINAL TIPO PALA NO 400	0.00	1.[illegible]	23-may-'25	17-sep-'25	0%				0%	$	
9.6.68	SUMINISTRO E INSTALACION TERMINAL TIPO PALA NO 500	0.00	12.941.[illegible]	23-may-'25	17-sep-'25	0%				0%	$	
9.6.7	SUMINISTRO E INSTALACION CABLE CU AISLADO LSZH NO 14	0.00	11.[illegible]	23-may-'25	17-sep-'25	0%				0%	$	
9.6.76	SUMINISTRO E INSTALACION PREMOLDEADO TIPO EXTERIOR PARA CABLE XLEP 1/0 2/0	0.00	3.634.[illegible]	23-may-'25	17-sep-'25	0%				0%	$	
9.6.77	SUMINISTRO E INSTALACION BASE PLASTICA PARA CABLE ALAMCRON 8 mm	0.00	28.[illegible]	29-jul-'25	20-sep-'25	0%				0%	$	
9.6.78	SUMINISTRO E INSTALACION VARILLA COPPER WELL 2.4 MTS	0.00	7.[illegible]	23-jul-'25	17-sep-'25	0%				0%	$	
9.6.79	SUMINISTRO E INSTALACION CABLE COAXIAL	0.00	3.[illegible]	29-ago-'25	17-sep-'25	0%				0%	$	
9.6.8	SUMINISTRO E INSTALACION CABLE CU AISLADO LSZH NO 8	0.00	11.[illegible]	29-ago-'25	17-sep-'25	0%				0%	$	
9.6.80	SUMINISTRO E INSTALACION CONECTOR AUTODESFORRE NO 12	0.00	22.[illegible]	29-jul-'25	17-sep-'25	0%				0%	$	
9.6.81	SUMINISTRO E INSTALACION CONECTOR AUTODESFORRE NO 10	0.00	3.[illegible]	20-jul-'25	17-sep-'25	0%				0%	$	
9.6.82	SUMINISTRO E INSTALACION CABLE AL AISLADO LSZH NO 6	0.00	14.[illegible]	29-jul-'25	17-sep-'25	0%				0%	$	
9.6.83	SUMINISTRO E INSTALACION CABLE AL AISLADO LSZH NO 4	0.00	16.[illegible]	29-jul-'25	24-sep-'25	0%				0%	$	
9.6.84	SUMINISTRO E INSTALACION CABLE AL AISLADO LSZH NO 2	0.00	23.[illegible]	30-may-'25	17-sep-'25	0%				0%	$	
9.6.86	SUMINISTRO E INSTALACION CABLE AL AISLADO LSZH NO 1/0	0.00	52.[illegible]	30-may-'25	24-sep-'25	0%				0%	$	
9.6.87	SUMINISTRO E INSTALACION CABLE AL AISLADO LSZH NO 2/0	0.00	43.[illegible]	3-jul-'25	24-sep-'25	0%				0%	$	
9.6.93	SUMINISTRO E INSTALACION CABLE AL AISLADO LSZH NO 4/0	0.00	138.[illegible]	29-ago-'25	24-sep-'25	0%				0%	$	
9.6.9	SUMINISTRO E INSTALACION CABLE CU AISLADO F/UR NO 6	0.00	5.[illegible]	30-may-'25	24-sep-'25	0%				0%	$	
9.6.92	SUMINISTRO E INSTALACION CABLE AL AISLADO LSZH NO 350	0.00	67.[illegible]	30-may-'25	24-sep-'25	0%				0%	$	
9.6.94	SUMINISTRO E INSTALACION CABLE AL AISLADO LSZH NO 500	0.00	119.[illegible]	30-may-'25	24-sep-'25	0%				0%	$	
		0.00		30-may-'25	24-sep-'25	0%				0%	$	
9.7.1	SUMINISTRO E INSTALACION TABLERO ELECTRICO MONOFASICO 6 CTO'S	0.00	347.[illegible]	30-may-'25	24-sep-'25	0%				0%	$	
9.7.10	SUMINISTRO E INSTALACION TABLERO ELECTRICO TRIFASICO 42 CTO'S CON ESPACIO DE TOTALIZADOR	0.00	6.264.[illegible]	30-may-'25	24-sep-'25	0%				0%	$	
9.7.11	SUMINISTRO E INSTALACION TABLERO ELECTRICO TRIFASICO PROTECCION BCI	0.00	24.[illegible]	30-may-'25	24-sep-'25	0%				0%	$	
9.7.12	SUMINISTRO E INSTALACION TABLERO ELECTRICO TRIFASICO TG HVAC	0.00	1.[illegible]	30-may-'25	24-sep-'25	0%				0%	$	
9.7.13	SUMINISTRO E INSTALACION TABLERO ELECTRICO TRIFASICO BOMBAS	0.00	16.[illegible]	30-may-'25	24-sep-'25	0%				0%	$	
9.7.14	SUMINISTRO E INSTALACION TABLERO ELECTRICO TRIFASICO TGE	0.00	21.[illegible]	30-may-'25	24-sep-'25	0%				0%	$	
9.7.15	SUMINISTRO E INSTALACION TABLERO DE ILUMINACION CON BOTONERA 10 POLOS	0.00	42.[illegible]	30-may-'25	24-sep-'25	0%				0%	$	
9.7.16	SUMINISTRO E INSTALACION TABLERO DE ILUMINACION CON BOTONERA 15 POLOS	0.00	63.[illegible]	30-may-'25	24-sep-'25	0%				0%	$	
9.7.29	SUMINISTRO E INSTALACION TABLERO ELECTRICO TRIFASICO GENERAL	0.00	3.[illegible]	30-may-'25	24-sep-'25	0%				0%	$	
9.7.31	SUMINISTRO E INSTALACION TABLERO FLECTRICO TRIFASICO ATS1	0.00	1.[illegible]	30-may-'25	24-sep-'25	0%				0%	$	
9.7.32	SUMINISTRO E INSTALACION TABLERO ELECTRICO TRIFASICO ATS2	0.00	1.[illegible]	30-may-'25	24-sep-'25	0%				0%	$	
9.7.33	SUMINISTRO E INSTALACION TABLERO ELECTRICO TRIFASICO TE QUIPOS	0.00	819.[illegible]	30-may-'25	24-sep-'25	0%				0%	$	
9.7.34	SUMINISTRO E INSTALACION GABINETE BOMBAS CONTRA INCENDIO	0.00	1.[illegible]	30-may-'25	24-sep-'25	0%				0%	$	
9.7.35	SUMINISTRO E INSTALACION GABINETE BOMBA JOCKEY	0.00	716.[illegible]	30-may-'25	24-sep-'25	0%				0%	$	
9.7.36	SUMINISTRO E INSTALACION GABINETE BOMBAS RECIRCULACION	0.00	552.[illegible]	30-may-'25	24-sep-'25	0%				0%	$	
9.7.37	SUMINISTRO E INSTALACION GABINETE BOMBAS AGUAS LLUVIAS	0.00	414.[illegible]	30-may-'25	24-sep-'25	0%				0%	$	
9.7.38	SUMINISTRO E INSTALACION GABINETE EQUIPOS PISCINAS	0.00	731.[illegible]	30-may-'25	24-sep-'25	0%				0%	$	
9.7.39	SUMINISTRO E INSTALACION GABINETE PROTECCION ATS EXTERIOR	0.00	994.[illegible]	30-may-'25	24-sep-'25	0%				0%	$	
9.7.5	SUMINISTRO E INSTALACION TABLERO ELECTRICO TRIFASICO 12 CTO'S CON ESPACIO DE TOTALIZADOR	0.00	2.[illegible]	30-may-'25	24-sep-'25	0%				0%	$	
9.7.6	SUMINISTRO E INSTALACION TABLERO ELECTRICO TRIFASICO 18 CTO'S CON ESPACIO DE TOTALIZADOR	0.00	3.[illegible]	30-may-'25	24-sep-'25	0%				0%	$	
9.7.7	SUMINISTRO E INSTALACION TABLERO ELECTRICO TRIFASICO 24 CTO'S CON ESPACIO DE TOTALIZADOR	0.00	3.[illegible]	30-may-'25	24-sep-'25	0%				0%	$	
9.7.8	SUMINISTRO E INSTALACION TABLERO ELECTRICO TRIFASICO 30 CTO'S CON ESPACIO DE TOTALIZADOR	0.00	3.[illegible]	30-may-'25	24-sep-'25	0%				0%	$	
9.7.9	SUMINISTRO E INSTALACION TABLERO ELECTRICO TRIFASICO 36 CTO'S CON ESPACIO DE TOTALIZADOR	0.00	3.[illegible]	30-may-'25	24-sep-'25	0%				0%	$	
		0.00		30-may-'25	24-sep-'25	0%				0%	$	
9.8.17	SUMINISTRO E INSTALACION BREAKER 2*30 A	0.00	4.[illegible]	30-may-'25	24-sep-'25	0%				0%	$	
9.8.18	SUMINISTRO E INSTALACION BREAKER 2*50 A	0.00	4.[illegible]	30-may-'25	24-sep-'25	0%				0%	$	

9.8.13	SUMINISTRO E INSTALACION BREAKER 2x50A	0.0%	672,743.97	30 may '25	24 sep '25	0%					0%	$
9.8.14	SUMINISTRO E INSTALACION BREAKER 2x70A	0.0%	1,078,373.97	30 may '25	24 sep '25	0%					0%	$
9.8.2	SUMINISTRO E INSTALACION BREAKER 1x20A	0.0%	11,832,562.01	30 may '25	24 sep '25	0%					0%	$
9.8.26	SUMINISTRO E INSTALACION TOTALIZADOR 3x30A	0.0%	264,109.02	30 may '25	24 sep '25	0%					0%	$
9.8.27	SUMINISTRO E INSTALACION TOTALIZADOR 3x40A	0.0%	826,841.81	30 may '25	24 sep '25	0%					0%	$
9.8.28	SUMINISTRO E INSTALACION TOTALIZADOR 3x50A	0.0%	206,197.91	30 may '25	24 sep '25	0%					0%	$
9.8.29	SUMINISTRO E INSTALACION TOTALIZADOR 3x60A	0.0%	2,058,840.01	30 may '25	24 sep '25	0%					0%	$
9.8.3	SUMINISTRO E INSTALACION BREAKER 1x30A	0.0%	1,018,400.00	30 may '25	24 sep '25	0%					0%	$
9.8.30	SUMINISTRO E INSTALACION TOTALIZADOR 3x70A	0.0%	1,410,000.00	30 may '25	24 sep '25	0%					0%	$
9.8.31	SUMINISTRO E INSTALACION TOTALIZADOR 3x100A	0.0%	892,399.01	30 may '25	24 sep '25	0%					0%	$
9.8.33	SUMINISTRO E INSTALACION TOTALIZADOR 3x150A	0.0%	2,757,810.00	30 may '25	24 sep '25	0%					0%	$
9.8.35	SUMINISTRO E INSTALACION TOTALIZADOR 3x200A	0.0%	3,815,910.02	30 may '25	24 sep '25	0%					0%	$
9.8.36	SUMINISTRO E INSTALACION TOTALIZADOR 3x225A	0.0%	3,817,060.00	30 may '25	24 sep '25	0%					0%	$
9.8.38	SUMINISTRO E INSTALACION TOTALIZADOR 3x300A	0.0%	4,919,699.99	30 may '25	24 sep '25	0%					0%	$
9.8.40	SUMINISTRO E INSTALACION TOTALIZADOR 3x400A	0.0%	5,291,519.99	30 may '25	24 sep '25	0%					0%	$
9.8.42	SUMINISTRO E INSTALACION TOTALIZADOR 3x500A	0.0%	6,247,799.99	30 may '25	24 sep '25	0%					0%	$
9.8.44	SUMINISTRO E INSTALACION TOTALIZADOR 3x600A	0.0%	15,903,000.01	30 may '25	1 oct '25	0%					0%	$
9.8.46	SUMINISTRO E INSTALACION TOTALIZADOR 3x700A	0.0%	9,535,600.00	7 jun '25	3 sep '25	0%					0%	$
9.8.5	SUMINISTRO E INSTALACION BREAKER 1x50A	0.0%	321,350.01	7 jun '25	1 ago '25	0%					0%	$
9.8.50	SUMINISTRO E INSTALACION TOTALIZADOR 3x800A	0.0%	25,417,819.99	8 jul '25	1 ago '25	0%					0%	$
		0.0%			6 sep '25	0%					0%	$
9.9.1	SUMINISTRO E INSTALACION TOMA MONOFASICA GYS NORMAL	0.0%	1,948,801.36	7 jun '25	1 oct '25	0%					0%	$
9.9.10	SUMINISTRO E INSTALACION INTERRUPTOR TRIPLE	0.0%	103,249.87	7 jun '25	1 ago '25	0%					0%	$
9.9.11	SUMINISTRO E INSTALACION INTERRUPTOR DOBLE	0.0%	1,199,265.10	7 jun '25	1 oct '25	0%					0%	$
9.9.12	SUMINISTRO E INSTALACION INTERRUPTOR SENCILLO	0.0%	2,187,205.31	7 jun '25	1 oct '25	0%					0%	$
9.9.17	SUMINISTRO E INSTALACION SALIDA PARA EQUIPO EYECTOR	0.0%	872,720.02	7 jun '25	1 ago '25	0%					0%	$
9.9.18	SUMINISTRO E INSTALACION SALIDA PARA EVAPORADORA AIRE ACONDICIONADO	0.0%	5,843,040.27	7 jun '25	1 oct '25	0%					0%	$
9.9.19	SUMINISTRO E INSTALACION SALIDA PARA CONDENSADORA AIRE ACONDICIONADO	0.0%	807,599.99	7 jun '25	1 oct '25	0%					0%	$
9.9.2	SUMINISTRO E INSTALACION TOMA GFCI MONOFASICA	0.0%	1,261,799.99	7 jun '25	1 oct '25	0%					0%	$
9.9.25	SUMINISTRO E INSTALACION SALIDA PARA SECADOR DE MANOS	0.0%	309,737.70	7 jun '25	1 oct '25	0%					0%	$
9.9.3	SUMINISTRO E INSTALACION TOMA REGULADA	0.0%	1,150,199.80	7 jun '25	1 oct '25	0%					0%	$
9.9.4	SUMINISTRO E INSTALACION TOMA BIFASICA	0.0%	215,450.00	7 jun '25	1 oct '25	0%					0%	$
9.9.6	SUMINISTRO E INSTALACION SENSOR DE MOVIMIENTO DUAL	0.0%	12,729,825.81	7 jun '25	1 oct '25	0%					0%	$
9.9.7	SUMINISTRO E INSTALACION SENSOR DE MOVIMIENTO SENCILLO	0.0%	7,645,799.99	7 jun '25	8 oct '25	0%					0%	$
9.9.9	SUMINISTRO E INSTALACION INTERRUPTOR CONMUTABLE	0.0%	1,322,999.99	14 jun '25	19 sep '25	0%					0%	$
		0.0%			14 oct '25	0%					0%	$
9.10.1	SUMINISTRO E INSTALACION DE SALIDA PARA LUMINARIA DE COLGADA HIGH BAY 200W AL TUMBA REGUN PLANOT	0.0%	3,844,270.83	13 jun '25	8 oct '25	0%					0%	$
9.10.10	SUMINISTRO E INSTALACION DE SALIDA PARA PANEL LED REDONDO 12W	0.0%	7,977,748.77	11 sep '25	8 oct '25	0%					0%	$
9.10.11	SUMINISTRO E INSTALACION DE SALIDA PARA LUMINARIA PANEL LED REDONDO 24W	0.0%	10,725,750.84	14 jun '25	8 oct '25	0%					0%	$
9.10.12	SUMINISTRO E INSTALACION DE SALIDA PARA LUMINARIA EXTERIOR TIPO POSTE PEDESTAL 40W	0.0%	1,261,979.82	13 jun '25	8 oct '25	0%					0%	$
9.10.13	SUMINISTRO E INSTALACION DE SALIDA PARA LUMINARIA EXTERIOR TIPO ILUMINADO PUBLICO ALBOR 30W	0.0%	1,208,072.82	13 jun '25	8 oct '25	0%					0%	$
9.10.14	SUMINISTRO E INSTALACION DE SALIDA PARA LUMINARIA TIPO REFLECTOR LED 50W	0.0%	1,298,400.25	16 jun '25	8 oct '25	0%					0%	$
9.10.2	SUMINISTRO E INSTALACION DE SALIDA PARA LUMINARIA LINEAL HERMETICA 1.20M	0.0%	3,056,999.47	14 jun '25	16 oct '25	0%					0%	$
9.10.23	SUMINISTRO E INSTALACION DE SALIDA PARA LUMINARIA TIPO NICHO DE CORA 8W	0.0%	1,569,150.77	23 jun '25	17 sep '25	0%					0%	$
9.10.24	SUMINISTRO E INSTALACION DE SALIDA PARA LUMINARIA PARED TIPO APLIQUE LED	0.0%	801,900.00	21 jun '25	16 oct '25	0%					0%	$
9.10.25	SUMINISTRO E INSTALACION DE SALIDA PARA LUMINARIA DE EMERGENCIA TIPO APLIQUE LED	0.0%	8,114,400.23	22 jun '25	16 oct '25	0%					0%	$
9.10.3	SUMINISTRO E INSTALACION DE SALIDA PARA LUMINARIA CONTINUUM 600MMx40MM	0.0%	82,700.00	18 sep '25	16 oct '25	0%					0%	$
9.10.4	SUMINISTRO E INSTALACION DE SALIDA PARA LUMINARIA CONTINUUM 1200MMx40MM	0.0%	754,400.05	21 jun '25	16 oct '25	0%					0%	$
9.10.5	SUMINISTRO E INSTALACION DE SALIDA PARA LUMINARIA CONTINUUM 1800MMx40MM	0.0%	124,840.00	21 jun '25	16 oct '25	0%					0%	$
9.10.6	SUMINISTRO E INSTALACION DE SALIDA PARA LUMINARIA CONTINUUM 2700MMx40MM	0.0%	870,000.82	21 jun '25	16 oct '25	0%					0%	$
9.10.7	SUMINISTRO E INSTALACION DE SALIDA PARA LUMINARIA CONTINUUM 2950MMx40MM	0.0%	493,950.00	21 jun '25	16 oct '25	0%					0%	$
9.10.8	SUMINISTRO E INSTALACION DE SALIDA PARA LUMINARIA CONTINUUM 3400MMx40MM	0.0%	3,372,671.99	21 jun '25	16 oct '25	0%					0%	$
9.10.9	SUMINISTRO E INSTALACION DE SALIDA PARA LUMINARIA PANEL LED CUADRADO 600MMx600MM 40W	0.0%	18,729,201.70	21 jun '25	16 oct '25	0%					0%	$
		0.0%			21 jun '25	0%					0%	$
9.11.1	SUMINISTRO E INSTALACION RACK ABIERTO 42UR	0.0%	27,607,630.00	21 jun '25	16 oct '25	0%					0%	$
9.11.10	SUMINISTRO E INSTALACION FACE PLATE DOBLE	0.0%	767,497.02	21 jun '25	16 oct '25	0%					0%	$
9.11.15	SUMINISTRO E INSTALACION PATCH CORD DE 2 MTS	0.0%	9,070,400.78	21 jun '25	16 oct '25	0%					0%	$
9.11.22	SUMINISTRO E INSTALACION SWITCHES DE CORE DE 24 PUERTOS CAT 6A	0.0%	13,125,845.00	21 jun '25	16 oct '25	0%					0%	$
9.11.34	SUMINISTRO E INSTALACION SWITCHES DE ACCESO DE 24 PUERTOS CAT 6A	0.0%	29,575,220.00	21 jun '25	16 oct '25	0%					0%	$
9.11.44	SUMINISTRO E INSTALACION PACH PANEL DE 24 PUERTOS	0.0%	5,914,320.03	21 jun '25	16 oct '25	0%					0%	$
9.11.45	SUMINISTRO E INSTALACION ORGANIZADORES DE CABLE VERTICAL TIPO 1	0.0%	3,735,535.98	21 jun '25	16 oct '25	0%					0%	$
9.11.6	SUMINISTRO E INSTALACION JACK CAT 6A	0.0%	3,259,780.51	21 jun '25	17 sep '25	0%					0%	$
9.11.9	SUMINISTRO E INSTALACION FACE PLATE SENCILLO	0.0%	1,294,000.72	21 jun '25	16 oct '25	0%					0%	$
		0.0%			22 jul '25	0%					0%	$
9.12.1	SUMINISTRO E INSTALACION PLANTA CAPTADORA 2 MTS	0.0%	19,051,070.06	18 sep '25	16 oct '25	0%					0%	$
9.12.2	SUMINISTRO E INSTALACION PLANTA CAPTADORA 1 MTS	0.0%	27,194,650.05	21 jun '25	16 oct '25	0%					0%	$
9.12.4	SUMINISTRO E INSTALACION UNIONES TIPO CRUZ PARA CABLE	0.0%	10,910,773.11	21 jun '25	16 oct '25	0%					0%	$
9.12.5	SUMINISTRO E INSTALACION UNIONES TIPO T PARA CABLE	0.0%	6,807,989.87	21 jun '25	23 oct '25	0%					0%	$
9.12.6	SUMINISTRO E INSTALACION TERMINAL BIMETALICO	0.0%	1,370,040.11	5 jul '25	24 sep '25	0%					0%	$
9.12.7	SUMINISTRO E INSTALACION CAJA DE CAMBIO DE MATERIAL	0.0%	1,464,120.07	1 jul '25	23 oct '25	0%					0%	$
9.12.8	SUMINISTRO E INSTALACION CAJA DE INSPECCION DE TIERRA 0.30X0.30M	0.0%	4,279,253.91	29 jul '25	23 oct '25	0%					0%	$
		0.0%			25 sep '25	0%					0%	$
9.13.24	SUMINISTRO E INSTALACION LAMINAS DE ALFAJOR 20CM	0.0%	21,078,600.02	1 jul '25	23 oct '25	0%					0%	$
9.13.29	SUMINISTRO E INSTALACION CARCAMO 40CM	0.0%	4,154,870.01	1 jul '25	23 oct '25	0%					0%	$
9.13.3	SUMINISTRO E INSTALACION CELDA DE PROTECCION CFE, INCLUYE FUSIBLE SEGUN DIAGRAMA UNIFILAR	0.0%	12,901,000.00	1 jul '25	23 oct '25	0%					0%	$
9.13.36	SUMINISTRO E INSTALACION MEDICION (MEDIDA INDIRECTA)	0.0%	1,254,120.00	1 jul '25	8 oct '25	0%					0%	$
9.13.4	SUMINISTRO E INSTALACION TRANSFERENCIA GENERAL CFE	0.0%	14,077,030.00	29 jul '25	23 oct '25	0%					0%	$
9.13.43	SUMINISTRO E INSTALACION DPS	0.0%	1,254,120.00	1 jul '25	24 sep '25	0%					0%	$
9.13.44	SUMINISTRO E INSTALACION BARRAJE (COMPUTO NOM. DE TIERRAS)	0.0%	1,747,840.00	1 jul '25	23 oct '25	0%					0%	$
9.13.45	SUMINISTRO E INSTALACION CELDA ENTRADA Y/O SALIDA SF6	0.0%	22,917,529.97	29 jul '25	23 oct '25	0%					0%	$
9.13.5	SUMINISTRO E INSTALACION TRANSFERENCIA GENERAL EQUIPOS	0.0%	19,661,810.00	25 sep '25	23 oct '25	0%					0%	$
9.13.6	SUMINISTRO E INSTALACION TRANSFERENCIA BCI	0.0%	18,456,670.99	1 jul '25	23 oct '25	0%					0%	$
		0.0%			1 jul '25	23 oct '25					0%	$
9.14.1	SUMINISTRO E INSTALACION TABLERO DE INCENDIOS	0.0%	4,174,010.00	1 jul '25	23 oct '25	0%					0%	$
9.14.10	SUMINISTRO E INSTALACION ESTACION MANUAL	0.0%	55,675,840.03	1 jul '25	30 oct '25	0%					0%	$
9.14.11	SUMINISTRO E INSTALACION SIRENA	0.0%	4,362,400.03	8 jul '25	1 oct '25	0%					0%	$
9.14.12	SUMINISTRO E INSTALACION MODULO NAC	0.0%	2,451,189.91	8 jul '25	29 oct '25	0%					0%	$
9.14.13	SUMINISTRO E INSTALACION MODULO RELE	0.0%	3,937,600.04	5 ago '25	30 oct '25	0%					0%	$
9.14.17	SUMINISTRO E INSTALACION SENSOR DE HUMO FOTOELECTRICO	0.0%	104,468,799.40	2 oct '25	30 oct '25	0%					0%	$
9.14.18	SUMINISTRO E INSTALACION CABLE DE DETECCION DE INCENDIOS 2x18 FPLR	0.0%	221,891,998.01	8 jul '25	30 oct '25	0%					0%	$
9.14.7	SUMINISTRO E INSTALACION TENSOR TERMICO	0.0%	24,192,349.91	8 jul '25	29 oct '25	0%					0%	$
		0.0%			8 jul '25	29 oct '25					0%	$
9.15.1	SUMINISTRO E INSTALACION NVR	0.0%	10,245,700.00	8 jul '25	30 oct '25	0%					0%	$
9.15.2	SUMINISTRO E INSTALACION CAMARA TIPO DOMO MOVIL	0.0%	13,2[illegible]2,810.04	8 jul '25	30 oct '25	0%					0%	$
9.15.3	SUMINISTRO E INSTALACION CAMARA TIPO BULET	0.0%	129,[illegible]0,[illegible]5.40	8 jul '25	30 oct '25	0%					0%	$
9.15.32	SUMINISTRO E INSTALACION PUESTO DE MONITOREO CCTV	0.0%	29,5[illegible]6,[illegible].00	8 jul '25	30 oct '25	0%					0%	$
		0.0%			8 jul '25	30 oct '25					0%	$

9.16.11	SUMINISTRO E INSTALACION CONTROL DE LECTORA TARJETA	0.0%	6.200.340.00	8 jul '25	30 oct '25	0%				0%	$	
9.16.16	SUMINISTRO E INSTALACION ELECTRO IMAN 300 LBS	0.0%	5.987.799.83	8 jul '25	30 oct '25	0%				0%	$	
9.16.21	SUMINISTRO E INSTALACION DE BOTONERA NO TOUCH	0.0%	166.920.81	8 jul '25	30 oct '25	0%				0%	$	
9.16.8	SUMINISTRO E INSTALACION CONTROLADORA PRINCIPAL CONTROL DE ACCESO	0.0%	29.573.400.00	8 jul '25	30 oct '25	0%				0%	$	
		0.0%		8 jul '25	30 oct '25	0%				0%	$	
9.17.1	SUMINISTRO E INSTALACION POSTE METALICO EN (INCLUYE EXCAVACION)	0.0%	16.196.000.18	8 jul '25	30 oct '25	0%				0%	$	
9.17.11	SUMINISTRO E INSTALACION BRAZO METALICO TM (INCLUYE EXCAVACION)	0.0%	23.819.100.13	8 jul '25	30 oct '25	0%				0%	$	
9.17.16	EXCAVACIÓN PARA DUCTO DE TUBOS 6	0.0%	24.197.998.78	8 jul '25	30 oct '25	0%				0%	$	
9.17.17	EXCAVACIÓN PARA DUCTO DE TUBOS 4	0.0%	27.353.001.49	8 jul '25	1 oct '25	0%				0%	$	
9.17.18	EXCAVACIÓN PARA DUCTO DE TUBOS 3	0.0%	32.629.998.26	8 jul '25	30 oct '25	0%				0%	$	
		0.0%		5 ene '26	30 oct '25	0%				0%	$	
9.20.2	CASETE MTP A LC DE 12 HILOS OM4	0.0%	2.758.509.99	7 oct '25	30 oct '25	0%				0%	$	
9.20.31	ORGANIZADOR HORIZONTAL DE 1RU	0.0%	11.735.243.81	8 jul '25	30 oct '25	0%				0%	$	
9.20.36	BRACKET PARA PDUS X2	0.0%	2.490.600.00	8 jul '25	30 oct '25	0%				0%	$	
9.20.37	TIERRA HORIZONTAL RRB PARA GABINETE	0.0%	2.490.600.00	8 jul '25	30 oct '25	0%				0%	$	
9.20.41	TAPA CIEGAS, PAQUETE DE 10	0.0%	4.020.330.91	8 jul '25	30 oct '25	0%				0%	$	
9.20.47	LS-15 OUTPUTS NEMA 5-15R MONITORED, VERTICAL MULTITOMA MONITOREABLE, INCLUYE SENSOR DE HUMEDAD	0.0%	662.379.99	8 jul '25	30 oct '25	0%				0%	$	
9.20.5	CASETE TIPO ADAPTADOR DE 24 HILOS, INCLUYE 24 PIGTAILS Y MANGAS PARA FUSION	0.0%	4.104.390.00	8 jul '25	30 oct '25	0%				0%	$	
9.20.6	TAPAS CIEGAS PARA BANDEJA	0.0%	397.000.00	8 jul '25	30 oct '25	0%				0%	$	
9.20.7	PATCH CORD FIBRA OPTICA LC APC A LC UPC DE 15 METROS	0.0%	363.879.84	8 jul '25	30 oct '25	0%				0%	$	
		0.0%		8 jul '25	30 oct '25	0%				0%	$	
10	UNSTALACIONES MECANICAS DE AIRE ACONDICIONADO	0.0%		8 jul '25	30 oct '25	0%				0%	$	
10	INSTALACIONES MECANICAS DE AIRE ACONDICIONADO	0.0%	0.00	8 jul '25	30 oct '25	0%				0%	$	
10.4	SUMINISTRO E INSTALACION DE EQUIPOS MECANICOS, UNIDADES TIPO PAQUETE D+	0.0%	0.00	8 jul '25	30 oct '25	0%				0%	$	
10.4.13	SUMINISTRO E INSTALACION DE UNIDAD PAQUETE D+ 17 TR - 15 000 CFM, UPAD-03 (INCLUYE: SOPORTE ANTIVIBRATORIO DE NEOPRENO, ACCESORIOS PARA LA EJECUCION DE LA OBRA Y TRANSPORTE)	0.0%	503.353.530.78	8 jul '25	30 oct '25	0%				0%	$	
10.4.33	SUMINISTRO E INSTALACION DE UNIDAD PAQUETE D+ 36 TR - 30 000 CFM, UPAD-01/02 (INCLUYE: SOPORTE ANTIVIBRATORIO DE NEOPRENO, ACCESORIOS PARA LA EJECUCION DE LA OBRA Y TRANSPORTE)	0.0%	3.200.292.520.74	8 jul '25	30 oct '25	0%				0%	$	
10.4.4	SUMINISTRO E INSTALACION DE UNIDAD PAQUETE D+ 7,5 TR - 3 800 CFM, UPAD-04 (INCLUYE: SOPORTE ANTIVIBRATORIO DE NEOPRENO, ACCESORIOS PARA LA EJECUCION DE LA OBRA Y TRANSPORTE)	0.0%	70.645.279.72	8 jul '25	30 oct '25	0%				0%	$	
10.4.9	SUMINISTRO E INSTALACION DE UNIDAD PAQUETE D+ 12,5 TR - 7 000 CFM, UPAD-05 (INCLUYE: SOPORTE ANTIVIBRATORIO DE NEOPRENO, ACCESORIOS PARA LA EJECUCION DE LA OBRA Y TRANSPORTE)	0.0%	93.845.460.26	8 jul '25	30 oct '25	0%				0%	$	
		0.0%		8 jul '25	30 oct '25	0%				0%	$	
10.75	SUMINISTRO E INSTALACION DE EQUIPOS MECANICOS, VENTILADORES TIPO CENTRIFUGOS	0.0%	0.00	8 jul '25	30 oct '25	0%				0%	$	
10.75.1	SUMINISTRO E INSTALACION DE VENTILADOR TIPO HONGO - VE-H 01 (INCLUYE: BASES ELASTOMARICAS ANTIVIBRACION, SOPORTERIA, ACCESORIOS DE INSTALACION, FILTROS Y TRANSPORTE)	0.0%	12.697.849.70	8 jul '25	30 oct '25	0%				0%	$	
10.75.2	SUMINISTRO E INSTALACION DE VENTILADOR CENTRIFUGO TIPO UNIDAD DE VENTILACION - VS-02/03/04 (INCLUYE: BASES ELASTOMARICAS ANTIVIBRACION, SOPORTERIA, ACCESORIOS DE INSTALACION, FILTROS Y TRANSPORTE)	0.0%	73.913.758.38	8 jul '25	30 oct '25	0%				0%	$	
10.75.3	SUMINISTRO E INSTALACION DE VENTILADOR CENTRIFUGO TIPO TUBULAR - VE-S 01/02/03 (INCLUYE: BASES ELASTOMARICAS ANTIVIBRACION, SOPORTERIA, ACCESORIOS DE INSTALACION, FILTROS Y TRANSPORTE)	0.0%	31.830.788.68	8 jul '25	30 oct '25	0%				0%	$	
10.75.4	SUMINISTRO E INSTALACION DE VENTILADOR CENTRIFUGO TIPO ATMOSFERAS EXPLOSIVAS - VE-S-04 (INCLUYE: BASES ELASTOMARICAS ANTIVIBRACION, SOPORTERIA, ACCESORIOS DE INSTALACION, FILTROS Y TRANSPORTE)	0.0%	24.637.819.46	8 jul '25	30 oct '25	0%				0%	$	
		0.0%		8 jul '25	30 oct '25	0%				0%	$	
10.77	SUMINISTRO E INSTALACION DE EQUIPOS MECANICOS, VENTILADORES TIPO CENTRIFUGOS EN LINEA	0.0%	0.00	8 jul '25	30 oct '25	0%				0%	$	
10.77.1	SUMINISTRO E INSTALACION DE VENTILADOR CENTRIFUGO EN LINEA - VE-01 (INCLUYE: BASES ELASTOMARICAS ANTIVIBRACION, SOPORTERIA, ACCESORIOS DE INSTALACION, FILTROS Y TRANSPORTE)	0.0%	11.611.829.56	8 jul '25	30 oct '25	0%				0%	$	
10.77.10	SUMINISTRO E INSTALACION DE VENTILADOR CENTRIFUGO EN LINEA - VE-12/14/16 (INCLUYE: BASES ELASTOMARICAS ANTIVIBRACION, SOPORTERIA, ACCESORIOS DE INSTALACION, FILTROS Y TRANSPORTE)	0.0%	17.462.908.41	8 jul '25	30 oct '25	0%				0%	$	
10.77.11	SUMINISTRO E INSTALACION DE VENTILADOR CENTRIFUGO EN LINEA - VE-13 (INCLUYE: BASES ELASTOMARICAS ANTIVIBRACION, SOPORTERIA, ACCESORIOS DE INSTALACION, FILTROS Y TRANSPORTE)	0.0%	9.436.670.75	8 jul '25	30 oct '25	0%				0%	$	
10.77.12	SUMINISTRO E INSTALACION DE VENTILADOR CENTRIFUGO EN LINEA - VE-15 (INCLUYE: BASES ELASTOMARICAS ANTIVIBRACION, SOPORTERIA, ACCESORIOS DE INSTALACION, FILTROS Y TRANSPORTE)	0.0%	7.715.880.27	8 jul '25	30 oct '25	0%				0%	$	
10.77.13	SUMINISTRO E INSTALACION DE VENTILADOR CENTRIFUGO EN LINEA - VE-17 (INCLUYE: BASES ELASTOMARICAS ANTIVIBRACION, SOPORTERIA, ACCESORIOS DE INSTALACION, FILTROS Y TRANSPORTE)	0.0%	9.411.129.93	8 jul '25	30 oct '25	0%				0%	$	
10.77.14	SUMINISTRO E INSTALACION DE VENTILADOR CENTRIFUGO EN LINEA - VE-18 (INCLUYE: BASES ELASTOMARICAS ANTIVIBRACION, SOPORTERIA, ACCESORIOS DE INSTALACION, FILTROS Y TRANSPORTE)	0.0%	14.781.703.58	8 jul '25	30 oct '25	0%				0%	$	
10.77.15	SUMINISTRO E INSTALACION DE VENTILADOR CENTRIFUGO EN LINEA - VE-19 (INCLUYE: BASES ELASTOMARICAS ANTIVIBRACION, SOPORTERIA, ACCESORIOS DE INSTALACION, FILTROS Y TRANSPORTE)	0.0%	13.097.468.57	8 jul '25	30 oct '25	0%				0%	$	
10.77.16	SUMINISTRO E INSTALACION DE VENTILADOR CENTRIFUGO EN LINEA - VS-01 (INCLUYE: BASES ELASTOMARICAS ANTIVIBRACION, SOPORTERIA, ACCESORIOS DE INSTALACION, FILTROS Y TRANSPORTE)	0.0%	18.202.479.53	8 jul '25	30 oct '25	0%				0%	$	
10.77.17	SUMINISTRO E INSTALACION DE VENTILADOR CENTRIFUGO EN LINEA - VS-05 (INCLUYE: BASES ELASTOMARICAS ANTIVIBRACION, SOPORTERIA, ACCESORIOS DE INSTALACION, FILTROS Y TRANSPORTE)	0.0%	8.272.490.83	8 jul '25	30 oct '25	0%				0%	$	
10.77.18	SUMINISTRO E INSTALACION DE VENTILADOR CENTRIFUGO EN LINEA - VS-06 (INCLUYE: BASES ELASTOMARICAS ANTIVIBRACION, SOPORTERIA, ACCESORIOS DE INSTALACION, FILTROS Y TRANSPORTE)	0.0%	19.105.389.48	8 jul '25	30 oct '25	0%				0%	$	
10.77.19	SUMINISTRO E INSTALACION DE VENTILADOR CENTRIFUGO EN LINEA - VS-07 (INCLUYE: BASES ELASTOMARICAS ANTIVIBRACION, SOPORTERIA, ACCESORIOS DE INSTALACION, FILTROS Y TRANSPORTE)	0.0%	7.870.940.50	8 jul '25	30 oct '25	0%				0%	$	
10.77.2	SUMINISTRO E INSTALACION DE VENTILADOR CENTRIFUGO EN LINEA - VE-02/03/04 (INCLUYE: BASES ELASTOMARICAS ANTIVIBRACION, SOPORTERIA, ACCESORIOS DE INSTALACION, FILTROS Y TRANSPORTE)	0.0%	44.981.451.06	8 jul '25	30 oct '25	0%				0%	$	
10.77.20	SUMINISTRO E INSTALACION DE VENTILADOR CENTRIFUGO EN LINEA - VS-08 (INCLUYE: BASES ELASTOMARICAS ANTIVIBRACION, SOPORTERIA, ACCESORIOS DE INSTALACION, FILTROS Y TRANSPORTE)	0.0%	8.870.969.49	8 jul '25	30 oct '25	0%				0%	$	
10.77.21	SUMINISTRO E INSTALACION DE VENTILADOR CENTRIFUGO EN LINEA - VS-09 (INCLUYE: BASES ELASTOMARICAS ANTIVIBRACION, SOPORTERIA, ACCESORIOS DE INSTALACION, FILTROS Y TRANSPORTE)	0.0%	18.202.479.53	8 jul '25	30 oct '25	0%				0%	$	
10.77.3	SUMINISTRO E INSTALACION DE VENTILADOR CENTRIFUGO EN LINEA - VE-05 (INCLUYE: BASES ELASTOMARICAS ANTIVIBRACION, SOPORTERIA, ACCESORIOS DE INSTALACION, FILTROS Y TRANSPORTE)	0.0%	5.393.015.46	8 jul '25	30 oct '25	0%				0%	$	
10.77.4	SUMINISTRO E INSTALACION DE VENTILADOR CENTRIFUGO EN LINEA - VE-06 (INCLUYE: BASES ELASTOMARICAS ANTIVIBRACION, SOPORTERIA, ACCESORIOS DE INSTALACION, FILTROS Y TRANSPORTE)	0.0%	8.870.969.49	8 jul '25	30 oct '25	0%				0%	$	
10.77.5	SUMINISTRO E INSTALACION DE VENTILADOR CENTRIFUGO EN LINEA - VE-07 (INCLUYE: BASES ELASTOMARICAS ANTIVIBRACION, SOPORTERIA, ACCESORIOS DE INSTALACION, FILTROS Y TRANSPORTE)	0.0%	8.872.628.53	8 jul '25	30 oct '25	0%				0%	$	
10.77.6	SUMINISTRO E INSTALACION DE VENTILADOR CENTRIFUGO EN LINEA - VE-08 (INCLUYE: BASES ELASTOMARICAS ANTIVIBRACION, SOPORTERIA, ACCESORIOS DE INSTALACION, FILTROS Y TRANSPORTE)	0.0%	9.370.900.21	8 jul '25	30 oct '25	0%				0%	$	
10.77.7	SUMINISTRO E INSTALACION DE VENTILADOR CENTRIFUGO EN LINEA - VE-09 (INCLUYE: BASES ELASTOMARICAS ANTIVIBRACION, SOPORTERIA, ACCESORIOS DE INSTALACION, FILTROS Y TRANSPORTE)	0.0%	33.155.119.03	8 jul '25	30 oct '25	0%				0%	$	
10.77.8	SUMINISTRO E INSTALACION DE VENTILADOR CENTRIFUGO EN LINEA - VE-10 (INCLUYE: BASES ELASTOMARICAS ANTIVIBRACION, SOPORTERIA, ACCESORIOS DE INSTALACION, FILTROS Y TRANSPORTE)	0.0%	11.611.829.56	8 jul '25	30 oct '25	0%				0%	$	
10.77.9	SUMINISTRO E INSTALACION DE VENTILADOR CENTRIFUGO EN LINEA - VE-11 (INCLUYE: BASES ELASTOMARICAS ANTIVIBRACION, SOPORTERIA, ACCESORIOS DE INSTALACION, FILTROS Y TRANSPORTE)	0.0%	5.872.028.53	8 jul '25	30 oct '25	0%				0%	$	
		0.0%		8 jul '25	30 oct '25	0%				0%	$	
10.31	SUMINISTRO E INSTALACION DE EQUIPOS MECANICOS, VENTILADORES TIPO AXIAL	0.0%	0	8 jul '25	30 oct '25	0%				0%	$	
10.31.1	SUMINISTRO E INSTALACION DE VENTILADOR AXIAL - VA-1-02 (INCLUYE: BASES ELASTOMARICAS ANTIVIBRACION, SOPORTERIA, ACCESORIOS DE INSTALACION, FILTROS Y TRANSPORTE)	0.0%	60.293.829.46	8 jul '25	30 oct '25	0%				0%	$	
		0.0%		8 jul '25	30 oct '25	0%				0%	$	
10.32	SUMINISTRO E INSTALACION DE EQUIPOS MECANICOS, VENTILADORES TIPO INDIVIDUAL	0.0%	0.00	8 jul '25	30 oct '25	0%				0%	$	
10.32.1	SUMINISTRO E INSTALACION DE VENTILADOR INDIVIDUAL - VA-1-01 (INCLUYE: TUERCAS, TORNILLOS, MARCO EN ALUMINIO Y TRANSPORTE)	0.0%	2.297.094.41	8 jul '25	30 oct '25	0%				0%	$	
		0.0%		8 jul '25	30 oct '25	0%				0%	$	
10.36.1	SUMINISTRO E INSTALACION DE LAMINA GALVANIZADA CALIBRE 16 (INCLUYE: ANDAMIO CERTIFICADO, TRANSPORTE, MATERIALES Y ACCESORIOS DE INSTALACION)	0.0%	11.144.350.11	8 jul '25	30 oct '25	0%				0%	$	
10.36.11	SUMINISTRO E INSTALACION DE LAMINA DE FIBRA DE VIDRIO TIPO DUCTO GLASSMETO (INCLUYE: ANDAMIO CERTIFICADO, TRANSPORTE, MATERIALES Y ACCESORIOS DE INSTALACION)	0.0%	22.148.200.84	8 jul '25	30 oct '25	0%				0%	$	
10.36.2	SUMINISTRO E INSTALACION DE LAMINA GALVANIZADA CALIBRE 22 (INCLUYE: ANDAMIO CERTIFICADO, TRANSPORTE, MATERIALES Y ACCESORIOS DE INSTALACION)	0.0%	149.137.992.80	8 jul '25	30 oct '25	0%				0%	$	
10.36.3	SUMINISTRO E INSTALACION DE LAMINA GALVANIZADA CALIBRE 24 (INCLUYE: ANDAMIO CERTIFICADO, TRANSPORTE, MATERIALES Y ACCESORIOS DE INSTALACION)	0.0%	208.941.308.10	8 jul '25	30 oct '25	0%				0%	$	
		0.0%		8 jul '25	30 oct '25	0%				0%	$	
10.37.11	SUMINISTRO E INSTALACION DE DUCTO CIRCULAR - LAMINA ACERO INOXIDABLE 316 CALIBRE 16 (INCLUYE: ANDAMIO CERTIFICADO TRANSPORTE, MATERIALES Y ACCESORIOS DE INSTALACION)	0.0%	82.319.449.56	8 jul '25	7 nov '25	0%				0	$	
10.37.13	SUMINISTRO E INSTALACION DE DUCTO CIRCULAR - LAMINA ACERO INOXIDABLE 316 CALIBRE 18 (INCLUYE: ANDAMIO CERTIFICADO TRANSPORTE, MATERIALES Y ACCESORIOS DE INSTALACION)	0.0%	27.432.999.75	15 jul '25	8 oct '25	0%				0	$	

10.37.15	SUMINISTRO E INSTALACION DE DUCTO CIRCULAR - LAMINA ACERO INOXIDABLE 316 CALIBRE 20 (INCLUYE ANDAMIO CERTIFICADO, TRANSPORTE, MATERIALES Y ACCESORIOS DE INSTALACION)	0.0%	237.743.189,20	15 jul '25	7 nov '25	0%				0%	$
10.37.17	SUMINISTRO E INSTALACION DE DUCTO CIRCULAR - LAMINA ACERO INOXIDABLE 316 CALIBRE 22 (INCLUYE ANDAMIO CERTIFICADO TRANSPORTE, MATERIALES Y ACCESORIOS DE INSTALACION)	0.0%	185.317.878,60	13 ene '25	7 ago '25	0%				0%	$
10.37.19	SUMINISTRO E INSTALACION DE DUCTO CIRCULAR - LAMINA ACERO INOXIDABLE 316 CALIBRE 24 (INCLUYE ANDAMIO CERTIFICADO, TRANSPORTE MATERIALES Y ACCESORIOS DE INSTALACION)	0.0%	20.416.500,50	9 oct '25	7 nov '25	0%				0%	$
		0.0%		15 jul '25	7 nov '25	0%				0%	$
10.40.1	SUMINISTRO E INSTALACION DE DAMPERS DE BALANCEO (INCLUYE ANDAMIO CERTIFICADO TRANSPORTE, MATERIALES Y ACCESORIOS DE INSTALACION)	0.0%	10.774.750,10	15 jul '25	7 nov '25	0%				0%	$
10.40.2	SUMINISTRO E INSTALACION DE DAMPERS DE GRAVEDAD (INCLUYE ANDAMIO CERTIFICADO, TRANSPORTE, MATERIALES Y ACCESORIOS DE INSTALACION)	0.0%	626.630,01	15 jul '25	7 nov '25	0%				0%	$
		0.0%		15 jul '25	28 feb '26	0%				0%	$
10.43.1	SUMINISTRO E INSTALACION DE DIFUSOR 3 VIAS CON DAMPER OB DSV - 12x12 (INCLUYE ANDAMIO CERTIFICADO, TRANSPORTE, MATERIALES Y ACCESORIOS DE INSTALACION)	0.0%	2.058.160,00	22 jul '25	28 feb '26	0%				0%	$
10.43.2	SUMINISTRO E INSTALACION DE DIFUSOR 3 VIAS CON DAMPER OB DSV - 15x15 (INCLUYE ANDAMIO CERTIFICADO, TRANSPORTE, MATERIALES Y ACCESORIOS DE INSTALACION)	0.0%	371.800,00	22 jul '25	28 feb '26	0%				0%	$
		0.0%		22 jul '25	28 feb '26	0%				0%	$
10.44.1	SUMINISTRO E INSTALACION DE DIFUSOR 4 VIAS CON DAMPER OB DS4V - 12x12 (INCLUYE ANDAMIO CERTIFICADO TRANSPORTE MATERIALES Y ACCESORIOS DE INSTALACION)	0.0%	514.540,00	22 jul '25	28 feb '26	0%				0%	$
		0.0%		22 jul '25	28 feb '26	0%				0%	$
10.47.1	SUMINISTRO E INSTALACION DE REJILLA DE SUM DOBLE ALETA CON DAMPER OB RSDA - 12x12 (INCLUYE ANDAMIO CERTIFICADO, TRANSPORTE, MATERIALES Y ACCESORIOS DE INSTALACION)	0.0%	379.539,99	22 jul '25	28 feb '26	0%				0%	$
10.47.2	SUMINISTRO E INSTALACION DE REJILLA DE SUM DOBLE ALETA CON DAMPER OB RSDA - 20x20 (INCLUYE ANDAMIO CERTIFICADO, TRANSPORTE, MATERIALES Y ACCESORIOS DE INSTALACION)	0.0%	474.170,00	22 jul '25	28 feb '26	0%				0%	$
10.47.3	SUMINISTRO E INSTALACION DE REJILLA DE SUM DOBLE ALETA CON DAMPER OB RSDA - 28x28 (INCLUYE ANDAMIO CERTIFICADO, TRANSPORTE, MATERIALES Y ACCESORIOS DE INSTALACION)	0.0%	3.306.360,00	22 jul '25	28 feb '26	0%				0%	$
10.47.4	SUMINISTRO E INSTALACION DE REJILLA DE SUM DOBLE ALETA CON DAMPER OB RSDA - 48x48 (INCLUYE ANDAMIO CERTIFICADO, TRANSPORTE, MATERIALES Y ACCESORIOS DE INSTALACION)	0.0%	12.108.971,82	22 jul '25	28 feb '26	0%				0%	$
10.47.5	SUMINISTRO E INSTALACION DE REJILLA DE SUM DOBLE ALETA CON DAMPER OB RSDA - 48x12 (INCLUYE ANDAMIO CERTIFICADO, TRANSPORTE, MATERIALES Y ACCESORIOS DE INSTALACION)	0.0%	33.445.850,01	22 jul '25	28 feb '26	0%				0%	$
10.47.6	SUMINISTRO E INSTALACION DE REJILLA DE SUM DOBLE ALETA CON DAMPER OB RSDA - 60x12 (INCLUYE ANDAMIO CERTIFICADO, TRANSPORTE, MATERIALES Y ACCESORIOS DE INSTALACION)	0.0%	6.250.229,97	22 jul '25	28 feb '26	0%				0%	$
		0.0%		22 jul '25	28 feb '26	0%				0%	$
10.48.1	SUMINISTRO E INSTALACION DE DIFUSOR CON DAMPER OB DS ALTO VOLUMEN - 12D (INCLUYE ANDAMIO CERTIFICADO, TRANSPORTE, MATERIALES Y ACCESORIOS DE INSTALACION)	0.0%	10.034.200,04	22 jul '25	28 feb '26	0%				0%	$
		0.0%		22 jul '25	28 feb '26	0%				0%	$
10.50.1	SUMINISTRO E INSTALACION DE REJILLA DE EXT ALETA FIJA SIN DAMPER REAF - 6x6 (INCLUYE ANDAMIO CERTIFICADO, TRANSPORTE, MATERIALES Y ACCESORIOS DE INSTALACION)	0.0%	4.250.098,89	22 jul '25	28 feb '26	0%				0%	$
10.50.10	SUMINISTRO E INSTALACION DE REJILLA DE EXT ALETA FIJA SIN DAMPER REAF - 22x22 (INCLUYE ANDAMIO CERTIFICADO, TRANSPORTE, MATERIALES Y ACCESORIOS DE INSTALACION)	0.0%	832.100,00	22 jul '25	28 feb '26	0%				0%	$
10.50.11	SUMINISTRO E INSTALACION DE REJILLA DE EXT ALETA FIJA SIN DAMPER REAF - 28x28 (INCLUYE ANDAMIO CERTIFICADO, TRANSPORTE, MATERIALES Y ACCESORIOS DE INSTALACION)	0.0%	2.288.000,01	22 jul '25	28 feb '26	0%				0%	$
10.50.12	SUMINISTRO E INSTALACION DE REJILLA DE EXT ALETA FIJA SIN DAMPER REAF - 48x48 (INCLUYE ANDAMIO CERTIFICADO, TRANSPORTE, MATERIALES Y ACCESORIOS DE INSTALACION)	0.0%	7.030.600,04	22 jul '25	28 feb '26	0%				0%	$
10.50.13	SUMINISTRO E INSTALACION DE REJILLA DE EXT ALETA FIJA SIN DAMPER REAF - 72x12 (INCLUYE ANDAMIO CERTIFICADO, TRANSPORTE, MATERIALES Y ACCESORIOS DE INSTALACION)	0.0%	2.751.050,01	22 jul '25	28 feb '26	0%				0%	$
10.50.2	SUMINISTRO E INSTALACION DE REJILLA DE EXT ALETA FIJA SIN DAMPER REAF - 8x8 (INCLUYE ANDAMIO CERTIFICADO, TRANSPORTE, MATERIALES Y ACCESORIOS DE INSTALACION)	0.0%	1.864.560,01	22 jul '25	28 feb '26	0%				0%	$
10.50.3	SUMINISTRO E INSTALACION DE REJILLA DE EXT ALETA FIJA SIN DAMPER REAF - 10x8 (INCLUYE ANDAMIO CERTIFICADO TRANSPORTE, MATERIALES Y ACCESORIOS DE INSTALACION)	0.0%	341.319,99	22 jul '25	28 feb '26	0%				0%	$
10.50.4	SUMINISTRO E INSTALACION DE REJILLA DE EXT ALETA FIJA SIN DAMPER REAF - 10x10 (INCLUYE ANDAMIO CERTIFICADO, TRANSPORTE, MATERIALES Y ACCESORIOS DE INSTALACION)	0.0%	9.930.900,31	22 jul '25	28 feb '26	0%				0%	$
10.50.5	SUMINISTRO E INSTALACION DE REJILLA DE EXT ALETA FIJA SIN DAMPER REAF - 12x12 (INCLUYE ANDAMIO CERTIFICADO, TRANSPORTE, MATERIALES Y ACCESORIOS DE INSTALACION)	0.0%	2.993.758,85	22 jul '25	28 feb '26	0%				0%	$
10.50.6	SUMINISTRO E INSTALACION DE REJILLA DE EXT ALETA FIJA SIN DAMPER REAF - 14x14 (INCLUYE ANDAMIO CERTIFICADO, TRANSPORTE, MATERIALES Y ACCESORIOS DE INSTALACION)	0.0%	631.719,99	22 jul '25	28 feb '26	0%				0%	$
10.50.7	SUMINISTRO E INSTALACION DE REJILLA DE EXT ALETA FIJA SIN DAMPER REAF - 16x16 (INCLUYE ANDAMIO CERTIFICADO, TRANSPORTE, MATERIALES Y ACCESORIOS DE INSTALACION)	0.0%	917.000,00	22 jul '25	28 feb '26	0%				0%	$
10.50.8	SUMINISTRO E INSTALACION DE REJILLA DE EXT ALETA FIJA SIN DAMPER REAF - 18x18 (INCLUYE ANDAMIO CERTIFICADO, TRANSPORTE, MATERIALES Y ACCESORIOS DE INSTALACION)	0.0%	4.959.460,01	22 jul '25	28 feb '26	0%				0%	$
10.50.9	SUMINISTRO E INSTALACION DE REJILLA DE EXT ALETA FIJA SIN DAMPER REAF - 20x20 (INCLUYE ANDAMIO CERTIFICADO, TRANSPORTE MATERIALES Y ACCESORIOS DE INSTALACION)	0.0%	272.650,00	22 jul '25	28 feb '26	0%				0%	$
		0.0%		22 jul '25	28 feb '26	0%				0%	$
10.52.1	SUMINISTRO E INSTALACION DE REJILLA DE RET ALETA FIJA SIN DAMPER REAF - 30x30 (INCLUYE ANDAMIO CERTIFICADO, TRANSPORTE, MATERIALES Y ACCESORIOS DE INSTALACION)	0.0%	1.660.630,00	22 jul '25	28 feb '26	0%				0%	$
10.52.2	SUMINISTRO E INSTALACION DE REJILLA DE RET ALETA FIJA SIN DAMPER REAF - 36x24 (INCLUYE ANDAMIO CERTIFICADO, TRANSPORTE, MATERIALES Y ACCESORIOS DE INSTALACION)	0.0%	1.604.790,02	22 jul '25	16 oct '25	0%				0%	$
10.52.3	SUMINISTRO E INSTALACION DE REJILLA DE RET ALETA FIJA SIN DAMPER REAF - 40x40 (INCLUYE ANDAMIO CERTIFICADO, TRANSPORTE, MATERIALES Y ACCESORIOS DE INSTALACION)	0.0%	7.713.200,01	21 ene '25	16 oct '25	0%				0%	$
		0.0%		21 ene '25	16 oct '25	0%				0%	$
10.54.1	SUMINISTRO E INSTALACION DE REJILLA TIPO LOUVER RTLV - 6x6 (INCLUYE ANDAMIO CERTIFICADO TRANSPORTE, MATERIALES Y ACCESORIOS DE INSTALACION)	0.0%	61.130,00	21 ene '25	16 oct '25	0%				0%	$
10.54.10	SUMINISTRO E INSTALACION DE REJILLA TIPO LOUVER RTLV - 46x46 (INCLUYE ANDAMIO CERTIFICADO, TRANSPORTE, MATERIALES Y ACCESORIOS DE INSTALACION)	0.0%	7.703.600,01	21 ene '25	4 ene '25	0%				0%	$
10.54.11	SUMINISTRO E INSTALACION DE REJILLA TIPO LOUVER RTLV - 50x18 (INCLUYE ANDAMIO CERTIFICADO, TRANSPORTE, MATERIALES Y ACCESORIOS DE INSTALACION)	0.0%	5.907.679,94	4 ene '25	12 feb '26	0%				0%	$
10.54.2	SUMINISTRO E INSTALACION DE REJILLA TIPO LOUVER RTLV - 10x8 (INCLUYE ANDAMIO CERTIFICADO, TRANSPORTE, MATERIALES Y ACCESORIOS DE INSTALACION)	0.0%	86.600,00	7 jun '25	7 jun '25	0%				0%	$
10.54.3	SUMINISTRO E INSTALACION DE REJILLA TIPO LOUVER RTLV - 24x12 (INCLUYE ANDAMIO CERTIFICADO, TRANSPORTE, MATERIALES Y ACCESORIOS DE INSTALACION)	0.0%	580.780,01	7 jun '25	12 feb '26	0%				0%	$
10.54.4	SUMINISTRO E INSTALACION DE REJILLA TIPO LOUVER RTLV - 26x16 (INCLUYE ANDAMIO CERTIFICADO, TRANSPORTE, MATERIALES Y ACCESORIOS DE INSTALACION)	0.0%	404.019,99	7 jun '25	24 dic '25	0%				0%	$
10.54.5	SUMINISTRO E INSTALACION DE REJILLA TIPO LOUVER RTLV - 28x18 (INCLUYE ANDAMIO CERTIFICADO, TRANSPORTE, MATERIALES Y ACCESORIOS DE INSTALACION)	0.0%	493.990,00	7 jun '25	28 jun '25	0%				0%	$
10.54.6	SUMINISTRO E INSTALACION DE REJILLA TIPO LOUVER RTLV - 32x18 (INCLUYE ANDAMIO CERTIFICADO, TRANSPORTE, MATERIALES Y ACCESORIOS DE INSTALACION)	0.0%	490.990,01	7 jun '25	28 jun '25	0%				0%	$
10.54.7	SUMINISTRO E INSTALACION DE REJILLA TIPO LOUVER RTLV - 36x12 (INCLUYE ANDAMIO CERTIFICADO, TRANSPORTE, MATERIALES Y ACCESORIOS DE INSTALACION)	0.0%	419.030,00	7 jun '25	14 jul '25	0%				0%	$
10.54.8	SUMINISTRO E INSTALACION DE REJILLA TIPO LOUVER RTLV - 42x22 (INCLUYE ANDAMIO CERTIFICADO, TRANSPORTE, MATERIALES Y ACCESORIOS DE INSTALACION)	0.0%	858.710,00	21 jun '25	14 jul '25	0%				0%	$
10.54.9	SUMINISTRO E INSTALACION DE REJILLA TIPO LOUVER RTLV - 44x20 (INCLUYE ANDAMIO CERTIFICADO, TRANSPORTE, MATERIALES Y ACCESORIOS DE INSTALACION)	0.0%	820.220,01	21 jun '25	14 jul '25	0%				0%	$
		0.0%		21 jun '25	21 jul '25	0%				0%	$
10.58.1	SUMINISTRO E INSTALACION DE TABLERO ELECTRICO TAE-01 (INCLUYE COFRE TIPO INTEMPERIE SEGUN LA NORMA VIGENTE PROTECCIONES, RELEVOS, CONTACTORES, TRANSPORTE, MATERIALES Y ACCESORIOS DE INSTALACION)	0.0%	11.273.380,00	8 jul '25	28 jul '25	0%				0%	$
10.58.10	SUMINISTRO E INSTALACION DE TABLERO ELECTRICO TAE-10 (INCLUYE COFRE TIPO INTERIORES SEGUN LA NORMA VIGENTE PROTECCIONES, RELEVOS, CONTACTORES, TRANSPORTE, MATERIALES Y ACCESORIOS DE INSTALACION)	0.0%	9.317.810,00	13 jul '25	28 jul '25	0%				0%	$
10.58.2	SUMINISTRO E INSTALACION DE TABLERO ELECTRICO TAE-02 (INCLUYE COFRE TIPO INTERIORES SEGUN LA NORMA VIGENTE PROTECCIONES, RELEVOS, CONTACTORES, TRANSPORTE, MATERIALES Y ACCESORIOS DE INSTALACION)	0.0%	8.128.750,00	8 jul '25	28 jul '25	0%				0%	$
10.58.3	SUMINISTRO E INSTALACION DE TABLERO ELECTRICO TAE-03 (INCLUYE COFRE TIPO INTERIORES SEGUN LA NORMA VIGENTE PROTECCIONES, RELEVOS, CONTACTORES, TRANSPORTE, MATERIALES Y ACCESORIOS DE INSTALACION)	0.0%	7.402.440,00	8 jul '25	28 jul '25	0%				0%	$
10.58.4	SUMINISTRO E INSTALACION DE TABLERO ELECTRICO TAE-04 (INCLUYE COFRE TIPO INTEMPERIE SEGUN LA NORMA VIGENTE PROTECCIONES, RELEVOS, CONTACTORES, TRANSPORTE, MATERIALES Y ACCESORIOS DE INSTALACION)	0.0%	9.676.000,00	8 jul '25	17 ene '25	0%				0%	$
10.58.5	SUMINISTRO E INSTALACION DE TABLERO ELECTRICO TAE-05 (INCLUYE COFRE TIPO INTEMPERIE SEGUN LA NORMA VIGENTE PROTECCIONES, RELEVOS, CONTACTORES, TRANSPORTE, MATERIALES Y ACCESORIOS DE INSTALACION)	0.0%	8.676.000,00	22 jul '25	20 ene '25	0%				0%	$
10.58.6	SUMINISTRO E INSTALACION DE TABLERO ELECTRICO TAE-06 (INCLUYE COFRE TIPO INTEMPERIE SEGUN LA NORMA VIGENTE PROTECCIONES, RELEVOS, CONTACTORES, TRANSPORTE, MATERIALES Y ACCESORIOS DE INSTALACION)	0.0%	12.497.030,00	5 ene '25	20 ene '25	0%				0%	$
10.58.7	SUMINISTRO E INSTALACION DE TABLERO ELECTRICO TAE-07 (INCLUYE COFRE TIPO INTEMPERIE SEGUN LA NORMA VIGENTE PROTECCIONES, RELEVOS, CONTACTORES, TRANSPORTE, MATERIALES Y ACCESORIOS DE INSTALACION)	0.0%	8.676.000,00	5 ene '25	20 ene '25	0%				0%	$
10.58.8	SUMINISTRO E INSTALACION DE TABLERO ELECTRICO TAE-08 (INCLUYE COFRE TIPO INTEMPERIE SEGUN LA NORMA VIGENTE PROTECCIONES, RELEVOS, CONTACTORES, TRANSPORTE, MATERIALES Y ACCESORIOS DE INSTALACION)	0.0%	19.641.150,00	5 ene '25	20 ene '25	0%				0%	$

10.59.9	SUMINISTRO E INSTALACION DE TABLERO ELECTRICO TAE-09 (INCLUYE: COFRE TIPO INTERIORES SEGUN LA NORMA VIGENTE, PROTECCIONES, RELEVOS, CONTACTORES, TRANSPORTE, MATERIALES Y ACCESORIOS DE INSTALACION)	0.0%	8.312.918.00	5 ene '25	20 ene '25	0%				0%	$	
		0.0%		5 ene '25	5 ene '25	0%				0%	$	
10.60.10	SUMINISTRO E INSTALACION DE VARIADORES DE FRECUENCIA VFD 7,5 HP (INCLUYE: TRANSPORTE, MATERIALES Y ACCESORIOS DE INSTALACION)	0.0%	25.116.320.00	13 ene '25	3 sep '25	0%				0%	$	
10.60.1	SUMINISTRO E INSTALACION DE VARIADORES DE FRECUENCIA VFD 2 HP (INCLUYE: TRANSPORTE, MATERIALES Y ACCESORIOS DE INSTALACION)	0.0%	17.003.150.00	13 ene '25	3 sep '25	0%				0%	$	
10.60.5	SUMINISTRO E INSTALACION DE VARIADORES DE FRECUENCIA VFD 3 HP (INCLUYE: TRANSPORTE, MATERIALES Y ACCESORIOS DE INSTALACION)	0.0%	16.404.590.00	13 ene '25	3 sep '25	0%				0%	$	
10.60.7	SUMINISTRO E INSTALACION DE VARIADORES DE FRECUENCIA VFD 5 HP (INCLUYE: TRANSPORTE, MATERIALES Y ACCESORIOS DE INSTALACION)	0.0%	46.137.869.95	13 ene '25	18 sep '25	0%				0%	$	
		0.0%		21 ene '25	10 sep '25	0%				0%	$	
10.61.1	SUMINISTRO E INSTALACION DE TABLERO DE CONTROL TC-01 (INCLUYE: COFRE PARA EXTERIORES SEGUN NORMA VIGENTE, TRANSFORMADOR, DONAS DE CORRIENTE, TRANSPORTE, MATERIALES Y ACCESORIOS DE INSTALACION)	0.0%	7.248.320.01	21 ene '25	17 sep '25	0%				0%	$	
10.61.10	SUMINISTRO E INSTALACION DE TABLERO DE CONTROL TC-10 (INCLUYE: COFRE PARA INTERIORES SEGUN NORMA VIGENTE, TRANSFORMADOR, DONAS DE CORRIENTE, TRANSPORTE, MATERIALES Y ACCESORIOS DE INSTALACION)	0.0%	5.368.430.00	28 ene '25	17 sep '25	0%				0%	$	
10.61.2	SUMINISTRO E INSTALACION DE TABLERO DE CONTROL TC-02 (INCLUYE: COFRE PARA INTERIORES SEGUN NORMA VIGENTE, TRANSFORMADOR, DONAS DE CORRIENTE, TRANSPORTE, MATERIALES Y ACCESORIOS DE INSTALACION)	0.0%	4.159.818.00	28 ene '25	17 sep '25	0%				0%	$	
10.61.3	SUMINISTRO E INSTALACION DE TABLERO DE CONTROL TC-03 (INCLUYE: COFRE PARA INTERIORES O EXTERIORES, RELES, TRANSFORMADOR, DONAS DE CORRIENTE Y ACCESORIOS DE INSTALACION)	0.0%	4.762.160.00	28 ene '25	17 sep '25	0%				0%	$	
10.61.4	SUMINISTRO E INSTALACION DE TABLERO DE CONTROL TC-04 (INCLUYE: COFRE PARA EXTERIORES SEGUN NORMA VIGENTE, TRANSFORMADOR, DONAS DE CORRIENTE, TRANSPORTE, MATERIALES Y ACCESORIOS DE INSTALACION)	0.0%	5.042.370.00	28 ene '25	17 sep '25	0%				0%	$	
10.61.5	SUMINISTRO E INSTALACION DE TABLERO DE CONTROL TC-05 (INCLUYE: COFRE PARA EXTERIORES SEGUN NORMA VIGENTE, TRANSFORMADOR, DONAS DE CORRIENTE, TRANSPORTE, MATERIALES Y ACCESORIOS DE INSTALACION)	0.0%	5.042.370.00	28 ene '25	1 oct '25	0%				0%	$	
10.61.6	SUMINISTRO E INSTALACION DE TABLERO DE CONTROL TC-06 (INCLUYE: COFRE PARA EXTERIORES SEGUN NORMA VIGENTE, TRANSFORMADOR, DONAS DE CORRIENTE, TRANSPORTE, MATERIALES Y ACCESORIOS DE INSTALACION)	0.0%	5.899.378.81	11 ene '25	1 oct '25	0%				0%	$	
10.61.7	SUMINISTRO E INSTALACION DE TABLERO DE CONTROL TC-07 (INCLUYE: COFRE PARA EXTERIORES SEGUN NORMA VIGENTE, TRANSFORMADOR, DONAS DE CORRIENTE, TRANSPORTE, MATERIALES Y ACCESORIOS DE INSTALACION)	0.0%	6.035.810.00	11 ene '25	16 oct '25	0%				0%	$	
10.61.8	SUMINISTRO E INSTALACION DE TABLERO DE CONTROL TC-08 (INCLUYE: COFRE PARA EXTERIORES SEGUN NORMA VIGENTE, TRANSFORMADOR, DONAS DE CORRIENTE, TRANSPORTE, MATERIALES Y ACCESORIOS DE INSTALACION)	0.0%	6.480.830.09	25 ene '25	30 oct '25	0%				0%	$	
10.61.9	SUMINISTRO E INSTALACION DE TABLERO DE CONTROL TC-09 (INCLUYE: COFRE PARA INTERIORES SEGUN NORMA VIGENTE, TRANSFORMADOR, DONAS DE CORRIENTE, TRANSPORTE, MATERIALES Y ACCESORIOS DE INSTALACION)	0.0%	5.368.430.00	9 oct '25	30 oct '25	0%				0%	$	
		0.0%		9 oct '25	14 nov '25	0%				0%	$	
10.62.4	SUMINISTRO E INSTALACION DE CONTROL CONTROLADOR DE CAMPO SUPERVISOR (INCLUYE: TRANSPORTE, MATERIALES Y ACCESORIOS DE INSTALACION)	0.0%	14.282.770.00	31 oct '25	14 nov '25	0%				0%	$	
10.62.8	SUMINISTRO E INSTALACION DE CONTROL CONTROLADOR DE CAMPO (INCLUYE: TRANSPORTE, MATERIALES Y ACCESORIOS DE INSTALACION)	0.0%	78.418.800.00	31 oct '25	14 nov '25	0%				0%	$	
		0.0%		31 oct '25	14 nov '25	0%				0%	$	
10.63.11	SUMINISTRO E INSTALACION DE SENSOR DE VELOCIDAD EN DUCTO (INCLUYE: TRANSPORTE, MATERIALES Y ACCESORIOS DE INSTALACION)	0.0%	3.031.249.05	31 oct '25	14 nov '25	0%				0%	$	
10.63.12	SUMINISTRO E INSTALACION DE SENSOR DE TEMPERATURA EN DUCTO (INCLUYE: TRANSPORTE, MATERIALES Y ACCESORIOS DE INSTALACION)	0.0%	2.273.449.98	31 oct '25	14 nov '25	0%				0%	$	
10.63.5	SUMINISTRO E INSTALACION DE SWITCH DIFERENCIAL DE PRESION DE AIRE (INCLUYE: TRANSPORTE, MATERIALES Y ACCESORIOS DE INSTALACION)	0.0%	4.880.758.98	31 oct '25	14 nov '25	0%				0%	$	
10.63.6	SUMINISTRO E INSTALACION DE TRANSDUCTOR DIFERENCIAL DE PRESION DE AIRE (INCLUYE: TRANSPORTE, MATERIALES Y ACCESORIOS DE INSTALACION)	0.0%	6.097.850.81	31 oct '25	14 nov '25	0%				0%	$	
		0.0%		31 oct '25	14 nov '25	0%				0%	$	
10.64.6	SUMINISTRO E INSTALACION DE CABLEADO DE CONTROL (INCLUYE: CANALIZACION, SOPORTERIA, TRANSPORTE, MATERIALES Y ACCESORIOS DE INSTALACION)	0.0%	30.644.999.11	31 oct '25	14 nov '25	0%				0%	$	
11	SOBREPISOS Y ACABADOS INTERIORES	0.0%		31 oct '25	14 nov '25	0%				0%	$	
11.1.1	SOBREPISO ALIVIANADO CON BLOQUE+MALLA+CONC 2.500PSI	0.0%	3.851.841.27	31 oct '25	14 nov '25	0%				0%	$	
11.2.1	ALISTADO/ACABADO PISO MORTERO 1:3 H=3CM	0.0%	84.133.886.90	31 oct '25	14 nov '25	0%				0%	$	
11.2.10	ALIGERADO EN POLIESTIRENO PARA ALISTADOS DE PISOS	0.0%	222.873.788.90	31 oct '25	14 nov '25	0%				0%	$	
11.2.2	ALISTADO LLANA MADERA	0.0%	249.938.461.50	31 oct '25	14 nov '25	0%				0%	$	
11.2.3	ALISTADO 2 MIX [H=AQUARDE POCE M720 "	0.0%	162.188.854.80	31 oct '25	14 nov '25	0%				0%	$	
11.2.8	ALISTADO PEDICEMTADO	0.0%	179.409.124.30	31 oct '25	14 nov '25	0%				0%	$	
		0.0%		31 oct '25	14 nov '25	0%				0%	$	
11.3.11	BORDILLO EN [INTRO 0.10*0.20 M 2500 PSI "	0.0%	36.734.111.29	31 oct '25	14 nov '25	0%				0%	$	
11.3.12	BORDILLO EN CONCRETO COLOR GRIS [H: 0.10 + 0.20M] FUNDIDO EN SITIO	0.0%	21.216.841.14	31 oct '25	14 nov '25	0%				0%	$	
11.3.32	MEDIA CAÑA EN GRANITO PULIDO D=27CM	0.0%	4.431.456.98	31 oct '25	13 dic '25	0%				0%	$	
12	ACABADOS DE PISOS	0.0%		13 nov '25	13 dic '25	0%				0%	$	
12.1.1	PISO EN CERAMICA RECTIFICADA 20*35 REF. TIONIO	0.0%	78.709.875.94	18 nov '25	27 dic '25	0%				0%	$	
12.1.2	GUARDAESCOBA EN CERAMICA RECTIFICAD	0.0%	19.228.951.83	18 dic '25	30 dic '25	0%				0%	$	
		0.0%		18 dic '25	30 dic '25	0%				0%	$	
12.2.1	PISO PORCELANATO SAND STONE MARFIL CD 60*120 CM	0.0%	444.238.862.00	18 dic '25	22 ene '26	0%				0%	$	
12.2.2	GUARDAESCOBA EN PORCELANATO SAND STONE MARFIL CD 60*120 CM	0.0%	100.134.827.48	23 dic '25	22 ene '26	0%				0%	$	
12.2.3	PISO EN PORCELANATO 60*60 GRIS MT 28.3*60.8 CM	0.0%	12.230.880.44	23 dic '25	5 feb '26	0%				0%	$	
		0.0%		23 ene '26	5 feb '26	0%				0%	$	
12.3.11	SUMINISTRO E INSTALACION DE CONCRETO ESCOBEADO - INCLUYE MATERIALES Y MANO DE OBRA PARA SU CORRECTA INSTALACION Y FUNCIONAMIENTO	0.0%	94.741.698.62	23 ene '26	5 feb '26	0%				0%	$	
12.3.21	ACABADO ESMALTADO SOBRE PLACA DE CONCRETO ESTRUCTU	0.0%	134.108.950.30	23 ene '26	5 feb '26	0%				0%	$	
		0.0%		23 ene '26	5 feb '26	0%				0%	$	
12.5.1	PISO EN GRANITO (H=) - BALDOSA GRANITO DE MARMOL BLANCO HUILA 33*33CM	0.0%	763.154.751.80	23 ene '26	5 feb '26	0%				0%	$	
12.5.2	GUARDAESCOBA EN GRANITO (H=) - BALDOSA GRANITO DE MARMOL BLANCO HUILA 33*33CM	0.0%	68.908.299.08	23 ene '26	5 feb '26	0%				0%	$	
12.5.3	ACABADO DE PISO EN GRANITO JASPE GRIS	0.0%	15.812.540.77	23 ene '26	5 feb '26	0%				0%	$	
12.5.4	GUALDERA ESCALERA EN GRANITO JASPE GRIS	0.0%	4.241.663.88	23 ene '26	5 feb '26	0%				0%	$	
		0.0%		23 ene '26	5 feb '26	0%				0%	$	
12.7.1	PISO EN VINILO EN ROLLO HELA PLUS ARENA	0.0%	99.615.860.29	23 ene '26	5 feb '26	0%				0%	$	
12.7.11	PISO VINILO LISTON DISEÑO MADERA TRAFICOMER NAPOLES MECANA 13.25 X 81.4CM	0.0%	124.956.788.90	23 ene '26	5 feb '26	0%				0%	$	
12.7.41	PISOCAUCHOMIX GRODAMA 600X150 (INVIMA+INSTAL)	0.0%	81.393.355.22	23 ene '26	5 feb '26	0%				0%	$	
12.7.42	PISO EUCTILE + RETICULADO ESPESOR DE 2.4 CM 3 DE 1*1	0.0%	374.820.609.80	23 ene '26	5 feb '26	0%				0%	$	
		0.0%		23 ene '26	12 feb '26	0%				0%	$	
12.8.1	PISO AUDITORIO-ALFOMBRA TRAFICO REF KANSAS CDRC	0.0%	31.310.784.56	30 ene '26	15 ene '26	0%				0%	$	
		0.0%		7 jun '25	15 ene '26	0%				0%	$	
12.9.11	GUARDAESCOBA ZAPAN H= 0.10 E= 1CM	0.0%	10.998.066.45	7 jun '25	15 ene '26	0%				0%	$	
		0.0%		2 jun '25	15 ene '26	0%				0%	$	
12.14.1	PERLAN ALUMINIO	0.0%	2.120.447.80	7 jun '25	15 ene '26	0%				0%	$	
		0.0%		7 jun '25	15 ene '26	0%				0%	$	
12.17.1	DILATACION EN BRONCE	0.0%	178.232.349.40	7 jun '25	15 ene '26	0%				0%	$	
		0.0%		7 jun '25	15 ene '26	0%				0%	$	
13	CUBIERTAS, MARQUESINAS Y CLARABOYAS	0.0%		7 jun '25	15 ene '26	0%				0%	$	
13.1.11	FLANCHE LAMINA GALV. DILSARROLLO 0.35 CAL 22 +REGAT	0.0%	82.684.(illegible).93	7 jun '25	15 ene '26	0%				0%	$	
		0.0%		7 jun '25	15 ene '26	0%				0%	$	
13.9.1	SUMIN. E INST. CUBIERTA TEJA TIPO SANDWI+PINT+ACC - TECHNET	0.0%	679.310.711.60	7 jun '25	15 ene '26	0%				0%	$	
13.9.2	TEJAS TRANSLUCIDAS GIP PANEL E=4C100X3 CAPA SUPERIOR FORMULACIÓN TERMO-ESTABLE CLASE 7 CON PROTECCIÓN EXTERNA ZUV - 13 TITANIUM CAPA INFERIOR FORMULACIÓN TERMOESTABLE CLASE 7 CON PELICULA ANTIUV UN COLOR ORAL EMPAC E=4% +ES	0.0%	illegible	illegible	15 ene '26	0%				0%	$	
		0.0%		7 jun '25	15 ene '26	0%				0%	$	
13.7.1	CLARABOYA ABATIBLE CON APERTURA MANUAL MANDO TELESCOPICO CUPULA EN METACRILAT 5MM ZOCALO EN POLIESTER REFORZADO 1.12X0.82M	0.0%	45.800.00	7 jun '25	15 ene '26	0%				0%	$	
		0.0%		7 jun '25	15 ene '26	0%				0%	$	
13.8.41	TRAGANTE SUPULA E=14 ALUMINIO	0.0%	1.004.640.00	7 jun '25	15 ene '26	0%				0%	$	
14	IMPERMEABILIZACIONES Y CUBIERTAS VEGETALES	0.0%		7 jun '25	15 ene '26	0%				0%	$	
14.1.3	SISTEMA ASFALTICO PARA CUBIERTA TRANSITABLE DE RESIT VAPORTITE	0.0%	280.770.699.90	7 jun '25	15 ene '26	0%				0%	$	
14.1.5	IMPERMEABILIZACION CUBIERTAS (VELUBRANA SINTETICA)	0.0%	372.864.711.80	7 jun '25	15 ene '26	0%				0%	$	

14.1.6	SISTEMA CIRCUITO CERRADO PARA CISTERNAS O TANQUES DE ALMACENAMIENTO DE AGUA	0.0%	29.541.325,49	7 jun '25	15 ene '26	0%				0%	$
		0.0%		7 jun '25	15 ene '26	0%				0%	$
14.5.1	SISTEMA DE CUBIERTA VERDE	0.0%	328.552.784,19	7 jun '25	15 ene '26	0%				0%	$
14.5.2	RELLENO EN TIERRA NEGRA E=0.15	0.0%	140.114.862,45	7 jun '25	15 ene '26	0%				0%	$
		0.0%		7 jun '25	15 ene '26	0%				0%	$
14.6.1	GEOTEXTIL T-2400 SUMINISTRO E INSTALACION CORC	0.0%	120.921.840,00	7 jun '25	15 ene '26	0%				0%	$
14.6.2	SUMINISTRO E INSTALACION GEOTEXTIL NT-2500	0.0%	31.019.450,27	7 jun '25	15 ene '26	0%				0%	$
15	METALISTERIA	0.0%		7 jun '25	15 ene '26	0%				0%	$
15.2.1	PUERTA DOBLE EN LAMINA - PL-01 D=2.05x2.40	0.0%	32.158.998,85	7 jun '25	15 ene '26	0%				0%	$
15.2.10	PUERTA DOBLE EN LAMINA EVACUACION - PL-10 - D=2.05x2.40M	0.0%	19.727.988,89	7 jun '25	15 ene '26	0%				0%	$
15.2.11	PUERTA SENCILLA EN LAMINA EVACUACION PL-11 - D=1.78x2.40M	0.0%	2.179.470,01	7 jun '25	15 ene '26	0%				0%	$
15.2.12	PUERTA VENTILIVAR - PL-12 - D=5.01x2.55M	0.0%	55.575.540,00	7 jun '25	15 ene '26	0%				0%	$
15.2.13	PUERTA SENCILLA EN LAMINA EVACUACION - PL-13 - D=1.60x2.40M	0.0%	4.299.540,00	7 jun '25	15 ene '26	0%				0%	$
15.2.14	PUERTA SENCILLA EN LAMINA CON REJILLA COMPLETA CON BARRA ANTIPANICO PARA EVACUACION - PL-14 - D=1.20x2.40M	0.0%	2.581.899,99	7 jun '25	15 ene '26	0%				0%	$
15.2.2	PUERTA SENCILLA EN LAMINA - PL-02 D=0.95x2.40	0.0%	76.194.400,01	7 jun '25	15 ene '26	0%				0%	$
15.2.3	PUERTA SENCILLA EN LAMINA - PL-03 D=1.25x2.40	0.0%	2.179.470,01	7 jun '25	15 ene '26	0%				0%	$
15.2.4	PUERTA SENCILLA EN LAMINA CON REJILLA INFERIOR - PL-04 D=0.75x2.40M	0.0%	13.078.709,99	7 jun '25	15 ene '26	0%				0%	$
15.2.5	PUERTA SENCILLA EN LAMINA CON REJILLA INFERIOR - PL-05 D=0.95x2.40M	0.0%	24.846.000,00	7 jun '25	14 nov '25	0%				0%	$
15.2.6	PUERTA DOBLE EN LAMINA CON REJILLA COMPLETA - PL-06 - D=1.80x2.40M	0.0%	27.317.700,00	5 ene '25	30 oct '25	0%				0%	$
15.2.7	PUERTA DOBLE EN LAMINA CON REJILLA COMPLETA - PL-07 - D=2.05x2.40M	0.0%	14.787.319,99	5 ene '25	14 nov '25	0%				0%	$
15.2.8	PUERTA SENCILLA EN LAMINA CON REJILLA COMPLETA - PL-08 - D=0.95x2.40M	0.0%	1.648.400,00	21 ene '25	14 nov '25	0%				0%	$
15.2.9	PUERTA CORREDIZA SENCILLA EN LAMINA CON REJILLA INFERIOR - PL-09 - D=0.97x2.40M	0.0%	20.795.240,00	17 ene '25	14 nov '25	0%				0%	$
		0.0%		5 ene '25	14 nov '25	0%				0%	$
15.4.1	PUERTA DOBLE EN ACERO INOXIDABLE - PA-01 - D=2.05x2.40M	0.0%	11.170.160,01	5 ene '25	14 nov '25	0%				0%	$
15.4.2	PUERTA SENCILLA EN ACERO INOXIDABLE - PA-02 - D=0.95x2.40M	0.0%	18.004.339,97	5 ene '25	14 nov '25	0%				0%	$
15.4.4	PUERTA SENCILLA EN ACERO INOXIDABLE - PA-04 - D=0.75x2.40M	0.0%	2.024.170,00	5 ene '25	14 nov '25	0%				0%	$
15.4.5	PUERTA CORREDIZA SENCILLA EN ACERO INOXIDABLE CON REJILLA INFERIOR - PA-05 - D=0.97x2.40M	0.0%	2.630.859,99	5 ene '25	14 nov '25	0%				0%	$
15.4.6	PUERTA DOBLE EN ACERO INOXIDABLE EVACUACION - PA-06 - D=2.05x2.40M	0.0%	19.640.240,01	5 ene '25	14 nov '25	0%				0%	$
		0.0%		5 ene '25	14 nov '25	0%				0%	$
15.5.1	PV01-PUERTA VENTANA EN ALUMINIO COLOR NEGRO 9017 CON VIDRIO LAMINADO 4+4AM PVB + PUERTAS DE CRISTAL TEMPLADO 10MM PBV 0.38MM + REJILLA DE VENTILACION TIPO Z SUPERIOR	0.0%	112.391.020,00	5 ene '25	14 nov '25	0%				0%	$
15.5.10	PV10-PUERTA VENTANA EN ALUMINIO COLOR NEGRO 9017 CON VIDRIO LAMINADO 4+4AM PVB + PUERTAS DE CRISTAL TEMPLADO 10MM PBV 0.38MM D=19.15 X 4.45 M	0.0%	79.979.610,00	5 ene '25	14 nov '25	0%				0%	$
15.5.11	PV11-PUERTA VENTANA EN ALUMINIO COLOR NEGRO 9017 CON VIDRIO LAMINADO 5+5AM PVB + PUERTAS DE CRISTAL TEMPLADO 10MM PBV 0.38MM D= 7.70 X 4.95 M	0.0%	45.930.279,99	5 ene '25	14 nov '25	0%				0%	$
15.5.12	PV12-PUERTA VENTANA EN ALUMINIO COLOR NEGRO 9017 CON VIDRIO LAMINADO 5+5AM PVB + PUERTAS DE CRISTAL TEMPLADO 10MM PBV 0.38MM D= 8.11 X 4.95 M	0.0%	147.661.230,00	5 ene '25	14 nov '25	0%				0%	$
15.5.13	PV13-PUERTA VENTANA EN ALUMINIO COLOR NEGRO 9017 CON VIDRIO LAMINADO 4+4AM PVB + PUERTAS DE CRISTAL TEMPLADO 10MM PBV 0.38MM D=2.62 X 4.95 M	0.0%	16.337.549,00	5 ene '25	14 nov '25	0%				0%	$
15.5.14	PV14-PUERTA VENTANA EN ALUMINIO COLOR NEGRO 9017 CON VIDRIO LAMINADO 4+4AM PVB + PUERTAS DE CRISTAL TEMPLADO 10MM PBV 0.38MM D=5.00 X 4.95 M	0.0%	35.572.800,00	5 ene '25	14 nov '25	0%				0%	$
15.5.15	PV15-PUERTA VENTANA EN ALUMINIO COLOR NEGRO 9017 CON VIDRIO LAMINADO 5+5AM PVB + PUERTAS DE CRISTAL TEMPLADO 10MM PBV 0.38MM + REJILLA DE VENTILACION TIPO Z SUPERIOR D=8.17 X 95	0.0%	144.291.000,00	5 ene '25	14 nov '25	0%				0%	$
15.5.16	PV16-PUERTA VENTANA EN ALUMINIO COLOR NEGRO 9017 CON VIDRIO LAMINADO 8+5AM PVB + PUERTAS DE CRISTAL TEMPLADO 10MM PBV 0.38MM + REJILLA DE VENTILACION TIPO Z SUPERIOR D=7.19 X 4.95	0.0%	60.454.478,00	5 ene '25	14 nov '25	0%				0%	$
15.5.2	PV02-PUERTA VENTANA EN ALUMINIO COLOR NEGRO 9017 CON VIDRIO LAMINADO 4+4AM PVB + PUERTAS DE CRISTAL TEMPLADO 10MM PBV 0.38MM D=14.72 X 4.80 M	0.0%	84.918.640,00	5 ene '25	14 nov '25	0%				0%	$
15.5.3	PV03-PUERTA VENTANA EN ALUMINIO COLOR NEGRO 9017 CON VIDRIO LAMINADO 4+4AM PVB + PUERTAS DE CRISTAL TEMPLADO 10MM PBV 0.38MM D=5.06 X 4.95 M	0.0%	22.768.420,00	5 ene '25	14 nov '25	0%				0%	$
15.5.4	PV04-PUERTA VENTANA EN ALUMINIO COLOR NEGRO 9017 CON VIDRIO LAMINADO 4+4AM PVB + PUERTAS DE CRISTAL TEMPLADO 10MM PBV 0.38MM D=15.39 X 4.45 M	0.0%	81.927.860,00	5 ene '25	14 nov '25	0%				0%	$
15.5.5	PV05-PUERTA VENTANA EN ALUMINIO COLOR NEGRO 9017 CON VIDRIO MULTILAMINADO TEMPLADO 5+5+5AM PVB + PUERTAS DE CRISTAL TEMPLADO 10MM PBV 0.38MM D=7.45 X 6.70 M	0.0%	92.927.800,00	5 ene '25	14 nov '25	0%				0%	$
15.5.6	PV06-PUERTA VENTANA EN ALUMINIO COLOR NEGRO 9017 CON VIDRIO MULTILAMINADO TEMPLADO 5+5+5AM PVB + PUERTAS DE CRISTAL TEMPLADO 10MM PBV 0.38MM D=7.17 X 6.70 M	0.0%	89.751.670,00	5 ene '25	14 nov '25	0%				0%	$
15.5.7	PV07-PUERTA VENTANA EN ALUMINIO COLOR NEGRO 9017 CON VIDRIO MULTILAMINADO TEMPLADO 5+5+5AM PVB + PUERTAS DE CRISTAL TEMPLADO 10MM PBV 0.38MM D=7.40 X 6.70 M	0.0%	183.850.900,00	5 ene '25	14 nov '25	0%				0%	$
15.5.8	PV08-PUERTA VENTANA EN ALUMINIO COLOR NEGRO 9017 CON VIDRIO MULTILAMINADO TEMPLADO 5+5+5AM PVB + PUERTAS DE CRISTAL TEMPLADO 10MM PBV 0.38MM D=7.12 X 6.70 M	0.0%	258.756.610,00	5 ene '25	14 nov '25	0%				0%	$
15.5.9	PV09-PUERTA VENTANA EN ALUMINIO COLOR NEGRO 9017 CON VIDRIO MULTILAMINADO TEMPLADO 5+5+5AM PVB + PUERTAS DE CRISTAL TEMPLADO 10MM PBV 0.38MM D=3.08 X 6.70 M	0.0%	60.173.000,01	5 ene '25	14 nov '25	0%				0%	$
		0.0%		5 ene '25	14 nov '25	0%				0%	$
15.6.1	V01-VENTANA EN ALUMINIO COLOR NEGRO 9017 CON VIDRIO MULTILAMINADO TEMPLADO 5+5+5 PVB D=7.12 X 6.70 M	0.0%	373.000.010,00	5 ene '25	14 nov '25	0%				0%	$
15.6.10	V10-VENTANA EN ALUMINIO COLOR NEGRO 9017 CON VIDRIO MULTILAMINADO TEMPLADO 5+5+5 PVB D=74.95 X 18.35 M	0.0%	288.934.290,00	5 ene '25	14 nov '25	0%				0%	$
15.6.11	V11-VENTANA EN ALUMINIO COLOR NEGRO 9017 CON VIDRIO LAMINADO 4+4 PVB D=53.26 X 9.35 M	0.0%	795.793.950,00	5 ene '25	14 nov '25	0%				0%	$
15.6.12	V12-VENTANA EN ALUMINIO COLOR NEGRO 9017 CON VIDRIO LAMINADO TEMPLADO 4+4 PVB CON CUERPOS PROYECTANTES D=18.13 X 4.45 M	0.0%	197.978.670,00	5 ene '25	14 nov '25	0%				0%	$
15.6.13	V13-VENTANA EN ALUMINIO COLOR NEGRO 9017 CON VIDRIO LAMINADO TEMPLADO 4+4 PVB CON CUERPOS PROYECTANTES D=6.06 X 4.95 M	0.0%	34.561.860,00	5 ene '25	14 nov '25	0%				0%	$
15.6.14	V14-VENTANA EN ALUMINIO COLOR NEGRO 9017 CON VIDRIO TEMPLADO 5+5 PVB D=2.86 X 1.58 M	0.0%	4.721.190,00	5 ene '25	14 nov '25	0%				0%	$
15.6.15	V15-VENTANA EN ALUMINIO COLOR NEGRO 9017 CON VIDRIO TEMPLADO 5+5 PVB D=7.45 X 1.58 M	0.0%	11.604.000,00	5 ene '25	14 nov '25	0%				0%	$
15.6.16	V16-VENTANA EN ALUMINIO COLOR NEGRO 9017 CON VIDRIO LAMINADO TEMPLADO 5+5 PVB D=8.40 X 1.58 M	0.0%	12.936.210,00	5 ene '25	14 nov '25	0%				0%	$
15.6.17	V17-VENTANA EN ALUMINIO COLOR NEGRO 9017 CON VIDRIO LAMINADO TEMPLADO 5+5 PVB D=5.94 X 1.58 M	0.0%	9.205.780,00	5 ene '25	14 nov '25	0%				0%	$
15.6.18	V18-VENTANA EN ALUMINIO COLOR NEGRO 9017 CON VIDRIO LAMINADO 4+4 PVB D=0.86 X 1.19 M	0.0%	3.861.960,01	5 ene '25	14 nov '25	0%				0%	$
15.6.19	V19-VENTANA EN ALUMINIO COLOR NEGRO 9017 CON VIDRIO LAMINADO 4+4 PVB D=0.86 X 1.58 M	0.0%	13.446.180,00	5 ene '25	14 nov '25	0%				0%	$
15.6.2	V02-VENTANA EN ALUMINIO COLOR NEGRO 9017 CON VIDRIO MULTILAMINADO TEMPLADO 5+5+5 PVB D=7.12 X 6.70 M	0.0%	42.863.199,99	5 ene '25	14 nov '25	0%				0%	$
15.6.20	V20-VENTANA EN ALUMINIO COLOR NEGRO 9017 CON VIDRIO LAMINADO 4+4 PVB D=0.86 X 1.80 M	0.0%	7.399.140,01	5 ene '25	14 nov '25	0%				0%	$
15.6.21	V21-VENTANA EN ALUMINIO COLOR NEGRO 9017 CON VIDRIO LAMINADO 4+4 PVB D=0.86 X 2.15 M	0.0%	2.874.660,00	5 ene '25	14 nov '25	0%				0%	$
15.6.22	V22-VENTANA EN ALUMINIO COLOR NEGRO 9017 CON VIDRIO LAMINADO 4+4 PVB D=0.86 X 2.50 M	0.0%	11.249.480,83	5 ene '25	14 nov '25	0%				0%	$
15.6.23	V23-VENTANA EN ALUMINIO COLOR NEGRO 9017 CON VIDRIO LAMINADO 4+4 PVB D=0.86 X 2.86 M	0.0%	12.543.388,99	5 ene '25	14 nov '25	0%				0%	$
15.6.24	V24-VENTANA EN ALUMINIO COLOR NEGRO 9017 CON VIDRIO LAMINADO 4+4 PVB D=0.86 X 3.20 M	0.0%	19.498.820,00	5 ene '25	14 nov '25	0%				0%	$
15.6.25	V25-VENTANA EN ALUMINIO COLOR NEGRO 9017 CON VIDRIO LAMINADO 4+4 PVB D=0.86 X 3.55 M	0.0%	2.220.100,01	5 ene '25	14 nov '25	0%				0%	$
15.6.26	V26-VENTANA EN ALUMINIO COLOR NEGRO 9017 CON VIDRIO LAMINADO 4+4 PVB D=0.86 X 3.90 M	0.0%	19.568.050,01	5 ene '25	14 nov '25	0%				0%	$
15.6.27	V27-VENTANA EN ALUMINIO COLOR NEGRO 9017 CON VIDRIO LAMINADO 4+4 PVB D=0.86 X 8.79 M	0.0%	72.884.940,82	5 ene '25	14 nov '25	0%				0%	$
15.6.28	V28-VENTANA EN ALUMINIO COLOR NEGRO 9017 CON VIDRIO LAMINADO 4+4 PVB D=0.86 X 9.10 M	0.0%	9.875.930,00	5 ene '25	14 nov '25	0%				0%	$
15.6.29	V29-VENTANA EN ALUMINIO COLOR NEGRO 9017 CON VIDRIO LAMINADO 4+4 PVB D=0.86 X 10.13 M	0.0%	21.479.900,01	5 ene '25	14 nov '25	0%				0%	$
15.6.3	V03-VENTANA EN ALUMINIO COLOR NEGRO 9017 CON VIDRIO MULTILAMINADO TEMPLADO 5+5+5 PVB D=6.41 X 6.70 M	0.0%	218.088.000,01	5 ene '25	14 nov '25	0%				0%	$
15.6.30	V30-VENTANA EN ALUMINIO COLOR NEGRO 9017 CON VIDRIO LAMINADO 4+4 PVB D=0.86 X 11.20 M	0.0%	47.146.640,01	5 ene '25	14 nov '25	0%				0%	$
15.6.31	V31-VENTANA EN ALUMINIO COLOR NEGRO 9017 CON VIDRIO LAMINADO 4+4 PVB D=0.86 X 11.80 M	0.0%	26.163.888,99	5 ene '25	14 nov '25	0%				0%	$
15.6.32	V32-VENTANA EN ALUMINIO COLOR NEGRO 9017 CON VIDRIO LAMINADO 4+4 PVB D=0.86 X 1.45 M	0.0%	4.710.180,00	5 ene '25	14 nov '25	0%				0%	$
15.6.33	V33-VENTANA EN ALUMINIO COLOR NEGRO 9017 CON VIDRIO LAMINADO 4+4 PVB D=0.86 X 1.45 M	0.0%	8.961.840,00	5 ene '25	14 nov '25	0%				0%	$
15.6.34	V34-VENTANA EN ALUMINIO COLOR NEGRO 9017 CON VIDRIO LAMINADO 4+4 PVB D=0.86 X 1.45 M	0.0%	27.479.490,82	5 ene '25	14 nov '25	0%				0%	$
15.6.35	V35-VENTANA EN ALUMINIO COLOR NEGRO 9017 CON VIDRIO LAMINADO 4+4 PVB D=0.86 X 1.45 M	0.0%	9.751.200,99	5 ene '25	14 nov '25	0%				0%	$
15.6.36	V36-VENTANA EN ALUMINIO COLOR NEGRO 9017 CON VIDRIO LAMINADO 4+4 PVB D=0.86 X 1.45 M	0.0%	38.228.160,00	5 ene '25	14 nov '25	0%				0%	$
15.6.37	V37-VENTANA EN ALUMINIO COLOR NEGRO 9017 CON VIDRIO LAMINADO 4+4 PVB D=0.86 X 1.45 M	0.0%	12.674.020,02	5 ene '25	14 nov '25	0%				0%	$
15.6.38	V38-VENTANA EN ALUMINIO COLOR NEGRO 9017 CON VIDRIO LAMINADO 4+4 PVB D=0.86 X 1.45 M	0.0%	2.653.640,00	5 ene '25	14 nov '25	0%				0%	$
15.6.39	V39-VENTANA EN ALUMINIO COLOR NEGRO 9017 CON VIDRIO LAMINADO 4+4 PVB D=0.86 X 1.45 M	0.0%	7.183.240,00	5 ene '25	14 nov '25	0%				0%	$
15.6.4	V04-VENTANA EN ALUMINIO COLOR NEGRO 9017 CON VIDRIO MULTILAMINADO TEMPLADO 5+5+5 PVB D=7.28 X 4.80 M	0.0%	125.973.750,00	5 ene '25	14 nov '25	0%				0%	$
15.6.5	V05-VENTANA EN ALUMINIO COLOR NEGRO 9017 CON VIDRIO LAMINADO 4+4 PVB D=14.57 X 4.45 M	0.0%	81.551.580,00	5 ene '25	14 nov '25	0%				0%	$
15.6.6	V06-VENTANA EN ALUMINIO COLOR NEGRO 9017 CON VIDRIO LAMINADO 4+4 PVB D=14.57 X 4.45 M	0.0%	81.551.580,00	5 ene '25	14 nov '25	0%				0%	$
15.6.7	V07-VENTANA EN ALUMINIO COLOR NEGRO 9017 CON VIDRIO LAMINADO TEMPLADO 5+5 PVB D=27.36 X 4.95 M	0.0%	168.996.020,00	5 ene '25	14 nov '25	0%				0%	$
15.6.8	V08-VENTANA EN ALUMINIO COLOR NEGRO 9017 CON VIDRIO LAMINADO 4+4 PVB D=31.89 X 6.73 M	0.0%	297.924.640,01	5 ene '25	14 nov '25	0%				0%	$
15.6.9	V09-VENTANA EN ALUMINIO COLOR NEGRO 9017 CON VIDRIO LAMINADO 4+4 PVB D=7.12 X 6.70 M	0.0%	1.604.123.440,00	5 ene '25	14 nov '25	0%				0%	$

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15.8.11	DV01-DIVISION DE VIDRIO EN ALUMINIO COLOR NEGRO 9017 CON VIDRIO TEMPLADO 4+4 PBV 0.38 H=4.00 M	0.0%	24.483.986.58	5 ago 25	14 nov 25	0%				0%	$
15.8.12	DV02-DIVISION DE VIDRIO EN ALUMINIO COLOR NEGRO 9017 CON VIDRIO 4+4 PBV 0.38 H=2.87 M	0.0%	8.974.994.27	5 ago 25	14 nov 25	0%				0%	$
15.8.13	DV03-DIVISION DE VIDRIO EN ALUMINIO COLOR NEGRO 9017 CON VIDRIO 4+4 PBV 0.38 H=5.55 M	0.0%	33.295.414.48	5 ago 25	14 nov 25	0%				0%	$
		0.0%		5 ago 25	14 nov 25	0%				0%	$
15.11.1	BA-03 BARANDA EN ACERO CON PARALES TUBULARES REDONDOS DIAMETRO 1 ANCLADO A ESTRUCTURA EN CONCRETO, 4 PERFILES HORIZONTALES CADA 250M, CON PASAMANOS TUBULAR REDONDO EN ACERO INOXIDABLE DIAMETRO 2	0.0%	2.063.688.33	5 ago 25	14 nov 25	0%				0%	$
15.11.11	PA-01 PASAMANOS TUBULAR REDONDO EN ACERO INOXIDABLE DIAMETRO 2 ANCLADO A MURO INCLUYE PASAMANOS A 70 Y A 90CM DE ALTURA	0.0%	13.573.410.45	5 ago 25	14 nov 25	0%				0%	$
		0.0%		5 ago 25	14 nov 25	0%				0%	$
15.16.1	PERSIANA EN LAMINA D= 1.00 x 1.55	0.0%	779.110.00	5 ago 25	14 nov 25	0%				0%	$
15.16.2	PERSIANA EN LAMINA D= 0.80 x 1.45	0.0%	6.604.719.00	5 ago 25	14 nov 25	0%				0%	$
15.16.3	PERSIANA EN LAMINA D= 0.80 x 1.80	0.0%	3.562.619.95	5 ago 25	14 nov 25	0%				0%	$
15.16.4	PERSIANA EN LAMINA D= 0.80 x 2.15	0.0%	4.253.650.02	5 ago 25	14 nov 25	0%				0%	$
15.16.5	PERSIANA EN LAMINA D= 0.85 x 2.85	0.0%	3.883.100.01	5 ago 25	14 nov 25	0%				0%	$
15.16.6	PERSIANA EN LAMINA D= 0.80 x 3.55	0.0%	11.895.500.00	5 ago 25	14 nov 25	0%				0%	$
15.16.7	PERSIANA EN LAMINA D= 0.80 x 3.90	0.0%	2.644.580.09	5 ago 25	14 nov 25	0%				0%	$
15.16.8	PERSIANA EN LAMINA D= 1.70 x 12.60	0.0%	11.781.540.00	5 ago 25	14 nov 25	0%				0%	$
		0.0%		5 ago 25	14 nov 25	0%				0%	$
		0.0%		5 ago 25	14 nov 25	0%				0%	$
15.23.1	ESCALERA DE GATO DESM+SUM+INST	0.0%	1.049.580.00	5 ago 25	14 nov 25	0%				0%	$
15.23.2	ESCALERA GATO PASOS EN VARILLA	0.0%	8.243.199.58	5 ago 25	14 nov 25	0%				0%	$
15.23.21	CUARTO PLANTA ELECTRICA	0.0%	3.289.160.10	5 ago 25	14 nov 25	0%				0%	$
		0.0%		5 ago 25	14 nov 25	0%				0%	$
15.28.1	FACHADA EN PANEL SINGLE SKIN GEOGLAD GEO 150 - HUNTER DOUGLAS	0.0%	579.405.933.00	5 ago 25	14 nov 25	0%				0%	$
		0.0%		5 ago 25	14 nov 25	0%				0%	$
15.29.1	FU-01 FACHADA EN UCLAS DOBLE CARA	0.0%	782.718.421.50	5 ago 25	14 nov 25	0%				0%	$
		0.0%		5 ago 25	14 nov 25	0%				0%	$
16	CARPINTERIA EN MADERA	0.0%		5 ago 25	14 nov 25	0%				0%	$
16.4.1	BANCA SUPERFICIE EN MADERA CHAMBA APOYO CONCRETO	0.0%	94.452.479.40	5 ago 25	14 nov 25	0%				0%	$
		0.0%		5 ago 25	14 nov 25	0%				0%	$
16.9.1	MUEBLE ESPECIAL MF-01 - HALL DE ACCESO	0.0%	13.493.230.00	5 ago 25	14 nov 25	0%				0%	$
16.9.2	MUEBLE ESPECIAL MF-02 - RECEPCION PRINCIPAL	0.0%	11.728.045.00	5 ago 25	14 nov 25	0%				0%	$
16.9.3	MUEBLE ESPECIAL MF-03 - MESON ATENCION CON PUERTA	0.0%	7.087.789.89	5 ago 25	14 nov 25	0%				0%	$
16.9.4	MUEBLE ESPECIAL MF-04 - MESON ATENCION BENCALLO	0.0%	11.137.960.03	5 ago 25	14 nov 25	0%				0%	$
16.9.5	MUEBLE ESPECIAL MF-05 - PUESTO BANCOS SEGUN DETALLE ARQUITECTONICO	0.0%	136.527.800.00	5 ago 25	14 nov 25	0%				0%	$
		0.0%		5 ago 25	14 nov 25	0%				0%	$
16.10.1	FACHADA VENTILADA - PANELES 8 MM COLOR SEGUN DISEÑO ARQUITECTONICO	0.0%	4.386.323.054.00	5 ago 25	14 nov 25	0%				0%	$
		0.0%		5 ago 25	14 nov 25	0%				0%	$
16.11.1	SILLA AUDITORIO TUBULAR METAL POLIURETANO CORO FONTAN TIPO NOVA DE INDRCA INDRCA COMCATEGORIA PRODUCTOCOMES-AUDITORIOSAUDITORIOS E EDUCACION/	0.0%	117.544.058.80	5 ago 25	14 nov 25	0%				0%	$
		0.0%		5 ago 25	14 nov 25	0%				0%	$
17	ENCHAPES Y REVESTIMIENTOS	0.0%		5 ago 25	14 nov 25	0%				0%	$
17.1.1	ENCHAPE EN CERAMICA COLOR BLANCO FORMATO 30X60 REF	0.0%	112.770.298.00	5 ago 25	14 nov 25	0%				0%	$
17.1.11	ENCHAPE EN PORCELANATO ATLANTA CAFE CD 36.3*54.6	0.0%	28.738.032.83	5 ago 25	14 nov 25	0%				0%	$
17.1.41	ENCHAPE EN PANELES 8MM REFERENCIA NATURAL DAN 1807 MT. PANEL 1.22 A2 64M	0.0%	240.884.560.00	5 ago 25	14 nov 25	0%				0%	$
		0.0%		5 ago 25	14 nov 25	0%				0%	$
17.5.1	FACHADA EN DAINPAL - PERFILERIA EN ALUMINIO, PANELES POLICARBONATO MULTICELDADO E=16MM COLORES DORADO, AMARILLO, NARANJA, ROJO DISEÑO SEGUN DETALLE ARQ	0.0%	479.563.691.90	5 ago 25	14 nov 25	0%				0%	$
18	CIELO RASOS	0.0%		5 ago 25	14 nov 25	0%				0%	$
18.1.4	CIELORASOLAMINATABLA-YESO RINCHUELGAS+PINTURA+CASBAD	0.0%	176.823.684.70	5 ago 25	14 nov 25	0%				0%	$
18.1.5	DILATACION PLASTICA EN Z (12MM) + ANDAMIO (25UM + INST	0.0%	57.500.772.33	5 ago 25	14 nov 25	0%				0%	$
		0.0%		5 ago 25	14 nov 25	0%				0%	$
18.5.2	CIELORASO EN ALUMINIO MALLA EXPANDIDA (SIMI CUBAS) APERTURA 20% METALSORRIEN HOOK-ON HUNTER DOUGLAS	0.0%	492.084.803.20	5 ago 25	14 nov 25	0%				0%	$
		0.0%		5 ago 25	14 nov 25	0%				0%	$
19	ILUMINACION	0.0%		5 ago 25	14 nov 25	0%				0%	$
19.1.1	SUMINISTRO E INSTALACION DE LUMINARIA TIPO LED HERMETICA DE 1 2 1 9 20 M18 45YA11 20V IP 65 CON FLUJO LUMINOSO DE 4201 LM	0.0%	8.356.999.73	5 ago 25	14 nov 25	0%				0%	$
		0.0%		5 ago 25	14 nov 25	0%				0%	$
19.2.1	SUMINISTRO E INSTALACION DE LUMINARIA PANEL LED REDONDO 12W	0.0%	26.207.400.13	5 ago 25	14 nov 25	0%				0%	$
19.2.2	SUMINISTRO E INSTALACION DE LUMINARIA PANEL LED REDONDO 24W	0.0%	18.556.400.63	5 ago 25	22 nov 25	0%				0%	$
19.2.3	SUMINISTRO E INSTALACION DE LUMINARIA PANEL LED CUADRADO 60CM x 60CM 40W	0.0%	18.835.187.68	15 ago 25	7 nov 25	0%				0%	$
19.2.4	SUMINISTRO E INSTALACION DE LUMINARIAS DE DESCOLGAR HIGH BAY LED 200W	0.0%	5.840.000.19	13 ago 25	22 nov 25	0%				0%	$
19.2.5	BALA TIPO 3	0.0%	57.510.01	29 ene 25	22 nov 25	0%				0%	$
		0.0%		24 oct 25	22 nov 25	0%				0%	$
19.3.1	LUMINARIAS DE DESCOLGAR HIGH BAY LED 300W	0.0%	80.612.709.92	15 ago 25	6 oct 25	0%				0%	$
		0.0%		13 ago 25	22 nov 25	0%				0%	$
19.4.1	SUMINISTRO E INSTALACIÓN DE LUMINARIA LINEAL CONTINUUM 600MM x 80MM	0.0%	811.220.00	24 oct 25	22 nov 25	0%				0%	$
19.4.2	SUMINISTRO E INSTALACION DE LUMINARIA LINEAL CONTINUUM 1200MM x 80MM	0.0%	7.417.840.08	24 oct 25	22 nov 25	0%				0%	$
19.4.3	SUMINISTRO E INSTALACIÓN DE LUMINARIA LINEAL CONTINUUM 1700MM x 80MM	0.0%	4.443.000.07	24 oct 25	22 nov 25	0%				0%	$
19.4.4	SUMINISTRO E INSTALACIÓN DE LUMINARIA LINEAL CONTINUUM 2700MM x 80MM	0.0%	25.252.200.04	24 oct 25	22 nov 25	0%				0%	$
19.4.5	SUMINISTRO E INSTALACIÓN DE LUMINARIA LINEAL CONTINUUM 2850MM x 80MM	0.0%	19.414.050.04	24 oct 25	22 nov 25	0%				0%	$
19.4.6	SUMINISTRO E INSTALACIÓN DE LUMINARIA LINEAL CONTINUUM 2400MM x 80MM	0.0%	138.852.999.79	24 oct 25	22 nov 25	0%				0%	$
		0.0%		24 oct 25	22 nov 25	0%				0%	$
19.6.1	SUMINISTRO E INSTALACION DE REFLECTOR LED 80W	0.0%	3.298.000.16	24 oct 25	6 oct 25	0%				0%	$
		0.0%		13 ago 25	22 nov 25	0%				0%	$
19.7.1	APLIQUE LED 12W	0.0%	2.689.700.10	24 oct 25	6 oct 25	0%				0%	$
		0.0%		13 ago 25	6 oct 25	0%				0%	$
19.9.1	LUMINARIA EXTERIOR TIPO POSTE PEDESTAL 40W	0.0%	1.884.400.06	13 ago 25	6 oct 25	0%				0%	$
19.9.2	LUMINARIA EXTERIOR TIPO AP ALBOR 30W INCLUYE KIT FOTOVOLTAICO	0.0%	9.384.200.23	13 ago 25	22 nov 25	0%				0%	$
		0.0%		24 oct 25	6 oct 25	0%				0%	$
19.10.1	LUMINARIA DE EMERGENCIA TIPO APLIQUE LED	0.0%	29.053.889.83	13 ago 25	6 oct 25	0%				0%	$
		0.0%		13 ago 25	22 nov 25	0%				0%	$
19.11.3	POSTE METALICO PARA LUMINARIAS EXTERIORES	0.0%	72.942.450.01	24 oct 25	22 nov 25	0%				0%	$
20	DOTACION BAÑOS	0.0%		24 oct 25	6 oct 25	0%				0%	$
20.1.1	SUMINISTRO E INSTALACION DE SANITARIO MONTECARLO	0.0%	3.482.280.81	13 ago 25	22 nov 25	0%				0%	$
20.1.11	SANITARIO BALTICO INST. CON SISTEMA DE CONEXION DE ENTRADA POSTERIOR ANTIVANDALICO PARA FLUXOMETRO	0.0%	40.777.779.80	24 oct 25	22 nov 25	0%				0%	$
20.1.12	SANITARIO ADRIATICO CRINA INST. PUSH FLUX "	0.0%	31.283.000.04	24 oct 25	22 nov 25	0%				0%	$
		0.0%		24 oct 25	6 oct 25	0%				0%	$
20.2.11	LAVAMANOS AQUACER BLANCO+GRIFERIA	0.0%	2.372.700.01	13 ago 25	22 nov 25	0%				0%	$
20.2.12	LAVAMANOS AQUAJET CORONA	0.0%	543.836.87	24 oct 25	22 nov 25	0%				0%	$
20.2.21	LAVAMANOS CORRIDO - MF-06 - MESON EN MARMOL CREMA TIPO BOTICCHINO BRILLADO CON SALPICADERO INTEGRADO	0.0%	113.167.787.50	24 oct 25	22 nov 25	0%				0%	$
20.2.22	LAVAMANOS CORRIDO - MF-05 - MESON EN MARMOL CREMA TIPO BOTICCHINO BRILLADO CON SALPICADERO INTEGRADO H=0.80 (PMR)	0.0%	17.953.310.04	24 oct 25	6 oct 25	0%				0%	$
		0.0%		13 ago 25	22 nov 25	0%				0%	$
20.3.1	ORINAL COTA+VALV ANTIVAND +ENTRADA POSTERIOR	0.0%	29.467.479.94	24 oct 25	22 nov 25	0%				0%	$
		0.0%		24 oct 25	22 nov 25	0%				0%	$
20.6.1	GRIFERIA PARA LAVAMANOS ANTIVANDALICA PUSH DE PARE	0.0%	7.664.580.11	24 oct 25	22 nov 25	0%				0%	$
20.6.11	GRIFERIA DUCHA TIPO PUSH ANTIVANDALICA	0.0%	49.618.149.81	24 oct 25	22 nov 25	0%				0%	$
20.6.21	GRIFERIA TELEDUCHA TIPO PUSH ANTIVANDALICA	0.0%	2.838.009.54	24 oct 25	22 nov 25	0%				0%	$
20.6.31	LLAVE ORIVAL JARDIN 1/2 CONM	0.0%	848.120.67	24 oct 25	22 nov 25	0%				0%	$
20.6.32	SUMINISTRO E INSTALACION DE GRIFERIA TIPO VALVULA FLUXOMETRO, PARA SANITARIO	0.0%	25.437.263.01	24 oct 25	22 nov 25	0%				0%	$

		0.0%		24 sep '25	22 nov '25	0%				0%	$	
20.7.11	PORTARROLLO LIQUID CROMO	0.0%	2 318 760.00	24 sep '25	22 nov '25	0%				0%	$	
20.7.21	DISPENSADOR PAPEL HIGIENICO 400 CAL 304 "	0.0%	7 054 979.84	24 sep '25	22 nov '25	0%				0%	$	
20.7.31	PERCHA SENCILLA METALICA CROMADA "	0.0%	1 344 418.28	24 sep '25	22 nov '25	0%				0%	$	
20.7.41	TOALLERO ACUCKER CORONA	0.0%	27 918.09	24 sep '25	22 nov '25	0%				0%	$	
20.7.61	BARRA DE SEGURIDAD PLEGABLE PARA BAÑOS PMR EN ACER	0.0%	1 378 174.86	13 sep '25	7 nov '25	0%				0%	$	
20.7.62	BARRA DE SEGURIDAD PARED A PISO ACERO INOXIDABLE	0.0%	4 049 768.85	13 sep '25	22 nov '25	0%				0%	$	
20.7.64	SUMINISTRO E INSTALACION DE SILLA DUCHA PARA DISCAPACIDAD PLEGABLE CORONA REF 705530001 EN ACERO INOXIDABLE	0.0%	563 359.97	25 sep '25	22 nov '25	0%				0%	$	
20.7.71	DISPENSADOR JABÓN LIQ PARED EN ACERO PUSH FRONTAL	0.0%	11 618 100.10	24 oct '25	22 nov '25	0%				0%	$	
20.7.79	SUMINISTRO E INSTALACION DE CANECA DE SOBREPONER - 14 lts	0.0%	793 758.89	13 sep '25	22 nov '25	0%				0%	$	
20.7.81	SUMINISTRO E INSTALACION DE SECADOR DE MANOS FORZA EN ACERO INOXIDABLE (INCLUYE ACCESORIOS DE INSTALACIÓN Y TRANSPORTE)	0.0%	17 700 038.91	13 sep '25	22 nov '25	0%				0%	$	
		0.0%		13 sep '25	29 nov '25	0%				0%	$	
20.8.1	SUMINISTRO E INSTALACION DE REJILLA DE PISO EN ACERO INOXIDABLE PARA BAÑOS Dim 10 - 10 cm (INCLUYE ACCESORIOS DE INSTALACIÓN Y TRANSPORTE)	0.0%	9 437 440.86	21 ago '25	14 nov '25	0%				0%	$	
		0.0%		21 ago '25	29 nov '25	0%				0%	$	
20.9.1	TAPA REGISTRO 7" X20 ALUMINIO "	0.0%	613 199.63	4 sep '25	29 nov '25	0%				0%	$	
21	DOTACION COCINAS	0.0%		31 oct '25	29 nov '25	0%				0%	$	
21.2.1	SUMINISTRO E INSTALACION DE GRIFERIA LAVAPLATOS MONO CONTROL - CF LVP MONOC VERA BASIC COLOR CROMO	0.0%	330 620.01	21 ago '25	29 nov '25	0%				0%	$	
		0.0%		21 ago '25	29 nov '25	0%				0%	$	
21.3.1	SUMINISTRO E INSTALACION DE LAVAPLATOS DE SUMIONTAR Dim= 55 X 43 CM3 EN ACERO INOXIDABLE	0.0%	1 091 080.03	21 ago '25	29 nov '25	0%				0%	$	
		0.0%		21 ago '25	29 nov '25	0%				0%	$	
21.4.1	SUMINISTRO E INSTALACION DE ESTUFA ACERO INOXIDABLE 76.5*58 CM 2 PUESTOS	0.0%	1 718 600.01	21 ago '25	29 nov '25	0%				0%	$	
21.4.2	SUMINISTRO E INSTALACION DE FREIDORA A GAS VULCAN LG300	0.0%	43 789 400.02	21 ago '25	29 nov '25	0%				0%	$	
21.4.3	SUMINISTRO E INSTALACION DE PLANCHA ASADORA DE SOBREPONER EPA-24	0.0%	20 639 479.98	21 ago '25	6 dic '25	0%				0%	$	
		0.0%		28 ago '25	22 nov '25	0%				0%	$	
21.5.1	SUMINISTRO E INSTALACION DE CAMPANA EXTRACCION TIPO ISLA SENCILLA 3	0.0%	14 864 559.99	28 ago '25	6 dic '25	0%				0%	$	
		0.0%		13 sep '25	6 dic '25	0%				0%	$	
21.8.1	CAJA MEDIDOR GAS 140x45	0.0%	1 608 840.01	8 nov '25	6 dic '25	0%				0%	$	
		0.0%		28 ago '25	6 dic '25	0%				0%	$	
21.11.1	REJILLA VENTILACION PLASTICA 15x15	0.0%	72 670.00	28 ago '25	6 dic '25	0%				0%	$	
21.11.11	REJILLAS PISO 0.30	0.0%	456 920.00	28 ago '25	15 dic '25	0%				0%	$	
22	VIDRIOS, ESPEJOS Y DIVISIONES	0.0%		4 sep '25	29 nov '25	0%				0%	$	
22.3.1	SUMINISTRO E INSTALACION DE LAVAPLATOS DE SUMIONTAR Dim 55 X 43 CM3 EN ACERO INOXIDABLE	0.0%	21 237 873.78	4 sep '25	13 dic '25	0%				0%	$	
		0.0%		18 sep '25	13 dic '25	0%				0%	$	
22.4.1	BARANDA EN VIDRIO, PANEL 80CM H=1.00M INCRUSTADO EN BORDILLO DE CONCRETO CON PASAMANOS EN ACERO 2	0.0%	79 824 008.72	15 nov '25	23 dic '25	0%				0%	$	
22.4.2	BARANDA EN VIDRIO, PANEL 80CM H=1.10M INCRUSTADO EN BORDILLO DE CONCRETO CON PASAMANOS EN MADERA CEDRO 2 1/2	0.0%	78 173 130.28	31 sep '25	4 dic '25	0%				0%	$	
		0.0%		11 sep '25	22 dic '25	0%				0%	$	
22.6.1	DIVISION LATERAL EN PANEL FENOLICO PARA SANITARIOS EN CANTILEVER 1.48 x 0.90M	0.0%	61 323 633.27	25 sep '25	22 dic '25	0%				0%	$	
		0.0%		24 nov '25	22 dic '25	0%				0%	$	
22.7.1	DIVISIONES ACERO INOX EN CANTILEVER BAÑOS "	0.0%	581 629 868.00	11 sep '25	22 dic '25	0%				0%	$	
22.7.2	DIVISIONES ACERO INOX EN CANT ORINALES BAÑOS	0.0%	1 845 144.01	11 sep '25	22 dic '25	0%				0%	$	
23	CERRADURAS, HERRAJES Y ACCESORIOS	0.0%		11 sep '25	22 dic '25	0%				0%	$	
23.1.2	CERRADURA DE PISO CON CILINDRE INTERIOR SOBRE PLATINA METALICA - PUERTAS VENTANA	0.0%	8 936 920.11	11 sep '25	22 dic '25	0%				0%	$	
		0.0%		11 sep '25	22 dic '25	0%				0%	$	
23.2.1	CERRADURA SEGURIDAD LATERAL DERECHA E IZQUIERDA PARA PUERTA VEHICULAR	0.0%	127 870.00	11 sep '25	22 dic '25	0%				0%	$	
23.2.2	CERRADURA PISO DE LORO REF. 3HU 00/026 NATURAL CON CILINDRO PARA PUERTA DE BLINZAJE CON MANIJA HORIA DIAGONAL	0.0%	1 324 310.04	11 sep '25	22 dic '25	0%				0%	$	
		0.0%		11 sep '25	30 dic '25	0%				0%	$	
23.9.1	CERRADURA MANIJA BATIMADO GM COL SUR	0.0%	3 711 759.56	18 sep '25	13 dic '25	0%				0%	$	
		0.0%		18 sep '25	30 dic '25	0%				0%	$	
23.10.1	CIERRAPUERTAS AEREO HIDRAULICO SERIE 3000	0.0%	795 300.04	2 oct '25	30 dic '25	0%				0%	$	
		0.0%		1 dic '25	30 dic '25	0%				0%	$	
23.11.1	BARRA ANTIPANICO DE EMPUJE TIPO ORLANDO DE 1 PUNTO CON MANIJA ORION	0.0%	2 719 470.02	18 sep '25	30 dic '25	0%				0%	$	
23.11.2	BARRA ANTIPANICO DE EMPUJE TIPO ORLANDO DE 2 PUNTOS CON MANIJA ORION	0.0%	13 499 870.05	18 sep '25	30 dic '25	0%				0%	$	
		0.0%		18 sep '25	30 dic '25	0%				0%	$	
23.12.1	TOPE PARA PUERTA EN ACERO	0.0%	2 452 447.34	18 sep '25	30 dic '25	0%				0%	$	
24	PINTURA	0.0%		18 sep '25	30 dic '25	0%				0%	$	
24.1.1	SUMINISTRO E INSTALACION DE ESTUCO Y VINILO TIPO I ACABADO MATE COLOR BLANCO (3 MANOS) X M2 (INCLUYE HERRAMIENTA, MANO DE OBRA MATERIALES PARA SU CORRECTA INSTALACIÓN Y FUNCIONAMIENTO)	0.0%	400 867 222.40	18 sep '25	30 dic '25	0%				0%	$	
24.1.7	SUMINISTRO E INSTALACION DE ESTUCO Y VINILO CIELO RASO (3 MANOS) (INCLUYE HERRAMIENTA, MANO DE OBRA MATERIALES PARA SU CORRECTA INSTALACIÓN Y FUNCIONAMIENTO)	0.0%	79 980 257.13	18 sep '25	30 dic '25	0%				0%	$	
24.1.15	ESTUCO Y PINTURA EPOXICA SOBRE PAHETE (3 MANOS) X M2 - ESTUCO PLASTICO + PINTURA EPOXICA ALTA RESISTENCIA COLOR BLANCO	0.0%	74 952 430.48	18 sep '25	30 dic '25	0%				0%	$	
24.1.15	ESTUCO Y PINTURA EPOXICA SOBRE PAHETE (3 MANOS) X M2 - ESTUCO PLASTICO + PINTURA EPOXICA ALTA RESISTENCIA COLOR BLANCO	0.0%	74 963 195.78	18 sep '25	30 dic '25	0%				0%	$	
24.1.15	ESTUCO Y PINTURA EPOXICA SOBRE PAHETE (3 MANOS) X M2 - ESTUCO PLASTICO + PINTURA EPOXICA ALTA RESISTENCIA COLOR BLANCO	0.0%	74 963 195.78	18 sep '25	30 dic '25	0%				0%	$	
		0.0%		18 sep '25	30 dic '25	0%				0%	$	
24.2.1	SUMINISTRO E INSTALACION DE PINTURA PLASTICA PARA BAÑOS (2 MANOS) X M2 (INCLUYE HERRAMIENTA MANO DE OBRA MATERIALES PARA SU CORRECTA INSTALACIÓN Y FUNCIONAMIENTO)	0.0%	24 267 631.87	18 sep '25	30 dic '25	0%				0%	$	
		0.0%		18 sep '25	30 dic '25	0%				0%	$	
24.4.1	SUMINISTRO E INSTALACION DE PINTURA ACRILICA DE PROTECCION SOBRE MUROS X M2 (INCLUYE HERRAMIENTA, MANO DE OBRA MATERIALES PARA SU CORRECTA INSTALACIÓN Y FUNCIONAMIENTO)	0.0%	273 845 581.00	18 sep '25	30 dic '25	0%				0%	$	
25	EQUIPOS	0.0%		18 sep '25	30 dic '25	0%				0%	$	
25.1	EQUIPOS HIDROSANITARIOS	0.0%	0.00	18 sep '25	30 dic '25	0%				0%	$	
25.1.1	EQUIPO PRESION RED DE AGUA POTABLE TIPO CENTRIFUGA CAUDAL=4.52 L/S CDT=51.5 MCA POT=0.00HP (2 BOMBAS AL 50% + 1 BOMBA SUPLENTE) INCLUYE TANQUE HORIZONTAL VOL 200 L, TABLERO DE CONTROL Y ACCESORIOS ESPECIFICADOS POR EL FABRICANTE	0.0%	26 754 959.51	18 sep '25	30 dic '25	0%				0%	$	
25.1.2	EQUIPO PRESION RECIRCULACIÓN DE AGUAS CALIENTE CON VARIADOR DE VELOCIDAD CAUDAL=1.67 L/S CDT=34.5 (1 BOMBA) INCLUYE ACCESORIOS ESPECIFICADOS POR EL FABRICANTE	0.0%	14 982 150.20	18 sep '25	30 dic '25	0%				0%	$	
25.1.5	EQUIPO PRESION RED DE RECIRCULACION BOMBA EJE HORIZONTAL TIPO CENTRIFUGA ELECTRICA CAUDAL=4.71 L/S CDT=36.8 MCA POT=0.00HP (2 BOMBAS AL 50% + 1 BOMBA SUPLENTE) ACCESORIOS ESPECIFICADOS POR EL FABRICANTE	0.0%	78 868 048.57	18 sep '25	30 dic '25	0%				0%	$	
25.1.6	EQUIPO PRESION RED DE PROTECCIÓN CONTRA INCENDIO A BASE DE AGUA - ELECTRICA CAUDAL=635 TGPM CDT=106.2PSI LISTADO ULIAPROBADO FM INCLUYE BOMBA JOCKEY DE EJE HORIZONTAL-ELECTRICA CAUDAL=63 GPM CDT=115.2PSI LISTADA ULIAPROBADA FM TABLEROS DE CONTROL Y ACC	0.0%	175 813 810.58	18 sep '25	30 dic '25	0%				0%	$	
25.1.11	EQUIPO DE BOMBEO SUMERGIBLE PARA AGUAS PATOGENAS TIPO ELECTRICA CAUDAL=0.84 L/S CDT=44.11 MCA INCLUYE ACCESORIOS ESPECIFICADOS POR EL FABRICANTE (1 BOMBA FUNCIONALES - 1 BOMBA SUPLENTE)	0.0%	833 845.89	18 sep '25	30 dic '25	0%				0%	$	
25.1.12	EQUIPO DE BOMBEO SUMERGIBLE PARA AGUAS RESIDUALES TIPO ELECTRICA CAUDAL=4.36 L/S CDT=60 MCA POTENCIA 1 0HP INCLUYE ACCESORIOS ESPECIFICADOS POR EL FABRICANTE (1 BOMBA FUNCIONALES - 1 BOMBA SUPLENTE)	0.0%	18 218 900.72	18 sep '25	30 dic '25	0%				0%	$	
25.1.13	EQUIPO DE BOMBEO SUMERGIBLE PARA AGUAS LLUVIAS TIPO ELECTRICA CAUDAL=13.72 L/S CDT=46.30 MCA INCLUYE ACCESORIOS ESPECIFICADOS POR EL FABRICANTE (1 BOMBA FUNCIONALES - 1 BOMBA SUPLENTE)	0.0%	19 773 888.43	18 sep '25	30 dic '25	0%				0%	$	
25.1.14	EQUIPO DE BOMBEO SUMERGIBLE PARA AGUAS LLUVIAS 2 TIPO ELECTRICA CAUDAL=14.66 L/S CDT=0.40 MCA INCLUYE ACCESORIOS ESPECIFICADOS POR EL FABRICANTE (1 BOMBA FUNCIONALES - 1 BOMBA SUPLENTE)	0.0%	19 773 888.43	18 sep '25	30 dic '25	0%				0%	$	
25.1.23	SISTEMA PLANTA DE TRATAMIENTO DE AGUA PATOGENA	0.0%	402 450 420.41	18 sep '25	30 dic '25	0%				0%	$	
25.1.25	PLANTA DE TRATAMIENTO DE AGUAS LLUVIAS 9.23 L/S	0.0%	83 447 564.80	18 sep '25	30 dic '25	0%				0%	$	
25.1.29	EQUIPO ELECTRICO DE RECIRCULACIÓN CALDERA DE DUCHAS CAPACIDAD=755KW/H CAUDAL=1.67 L/S CDT=35.07 MCA POT=2.00HP INCLUYE TANQUES Y ACCESORIOS ESPECIFICADOS POR EL FABRICANTE	0.0%	126 233 205.79	18 sep '25	30 dic '25	0%				0%	$	
25.1.30	EQUIPO ELECTRICO DE RECIRCULACIÓN CALDERA DE PISCINA CAPACIDAD=820KW/H CAUDAL=1.67 L/S CDT=36.07 MCA POT=2.00HP INCLUYE ACCESORIOS ESPECIFICADOS POR EL FABRICANTE	0.0%	1 912 410 209.57	18 sep '25	30 dic '25	0%				0%	$	
		0.0%		18 sep '25	30 dic '25	0%				0%	$	
25.2	EQUIPOS ELECTRICOS	0.0%	0.00	18 sep '25	7 ene '26	0%				0%	$	
25.2.1	PLANTA ELECTRICA 800 KVA (480V 265V)	0.0%	506 067 568.97	25 sep '25	22 dic '25	0%				0%	$	

25.2.6	TRANSFORMADOR SECO 800 KVA (11400V/480V/208V)	0.0%	41.521.730,13	25 sep '25	7 ene '26	0%				0%	$	
25.2.21	UPS TRIFASICO DE 10 KVA (208V/110V)	0.0%	30.678.780,06	9 oct '25	7 ene '26	0%				0%	$	
25.2.26	TRANSFORMADOR BT-BT (ELEVADOR DE TENSION) (480V/208V)	0.0%	4.810.440,83	9 dic '25	7 ene '26	0%				0%	$	
		0.0%		25 sep '25	7 ene '26	0%				0%	$	
25.4	EQUIPOS DE TRANSPORTE VERTICAL	0.0%	0,00	25 sep '25	7 ene '26	0%				0%	$	
25.4.1	ASCENSOR FOSO 2.15 x 2.60M	0.0%	148.481.520,53	25 sep '25	15 ene '26	0%				0%	$	
26	CONSTRUCCION Y PUESTA EN FUNCIONAMIENTO PISCINA DE COMPETENCIAS - SISTEMA MYRTHA POOLS	0.0%		7 oct '25	30 dic '25	0%				0%	$	
26.1.1	MYRTHA CLASSIC COMPETITION - 3.00 M - CORRIDOR	0.0%	253.894.200,00	2 oct '25	13 ene '26	0%				0%	$	
26.1.2	CORNER - OVERFLOW	0.0%	4.283.880,00	17 oct '25	13 ene '26	0%				0%	$	
26.1.3	MYRTHA RECESSED LADDER (INCL. 2 GRAB RAILS AND 2 GUTTER ANCHORS)	0.0%	47.173.870,00	16 dic '25	15 ene '26	0%				0%	$	
26.1.4	LINK PLATE	0.0%	18.139.430,00	2 oct '25	15 ene '26	0%				0%	$	
26.1.5	MYRTHA SKIN - FLOOR	0.0%	79.735.160,01	2 oct '25	13 ene '26	0%				0%	$	
		0.0%		2 oct '25	13 ene '26	0%				0%	$	
26.2.1	WALL INLET - STRAHLENTURBULENZ	0.0%	31.487.310,00	2 oct '25	13 ene '26	0%				0%	$	
26.2.2	WALL PVC VACUUM POINT 2	0.0%	1.827.009,99	2 oct '25	13 ene '26	0%				0%	$	
26.2.3	MYRTHA BOTTOM DRAIN - 225 MM	0.0%	7.853.970,00	2 oct '25	13 ene '26	0%				0%	$	
26.2.4	GUTTER DRAIN - PVC - INT. 90 MM / EXT. 110 MM	0.0%	8.283.180,00	2 oct '25	13 ene '26	0%				0%	$	
26.2.5	SILENCER FOR DROP OUTS	0.0%	15.707.950,01	2 oct '25	13 ene '26	0%				0%	$	
		0.0%		2 oct '25	13 ene '26	0%				0%	$	
26.3.1	FLOOR LANE MARKING - BLACK DYED ON SITE	0.0%	11.136.369,99	2 oct '25	13 ene '26	0%				0%	$	
26.3.2	WALL TARGET - PAINTED - FACTORY INSTALL	0.0%	4.997.980,00	2 oct '25	13 ene '26	0%				0%	$	
26.3.3	POLE ANCHOR - POOL GUTTER	0.0%	12.209.260,00	2 oct '25	13 ene '26	0%				0%	$	
26.3.4	REMOVABLE HEADWALL - STAINLESS STEEL AISI 304	0.0%	70.810.840,00	2 oct '25	13 ene '26	0%				0%	$	
26.3.5	STARTING BLOCK - MYRTHA TRACK START BLOCK - FIBERGLASS	0.0%	56.981.850,00	2 oct '25	13 ene '26	0%				0%	$	
26.3.6	FLOATING LANE - 50 M - D 150 MM	0.0%	14.137.159,99	2 oct '25	13 ene '26	0%				0%	$	
26.3.7	FLOATING LANE - 25 M - D 150 MM	0.0%	7.068.580,00	2 oct '25	13 ene '26	0%				0%	$	
26.3.8	FLOATING WATERPOLO GOAL	0.0%	4.997.980,00	2 oct '25	13 ene '26	0%				0%	$	
26.3.9	WATERPOLO - ANCHORS & LANES SET	0.0%	11.095.180,00	2 oct '25	13 ene '26	0%				0%	$	
26.3.10	WATERPOLO - BALL RELEASE DEVICE	0.0%	483.510,00	2 oct '25	13 ene '26	0%				0%	$	
26.3.11	BACKSTROKE START SYSTEM	0.0%	4.141.179,99	2 oct '25	13 ene '26	0%				0%	$	
		0.0%		2 oct '25	13 ene '26	0%				0%	$	
26.4.1	PAREO TIA DE 25 MX 1.5M X 3 M	0.0%	129.412.180,00	2 oct '25	13 ene '26	0%				0%	$	
26.4.2	MOV. BULKHEAD - MAINTENANCE & REPAIR KIT	0.0%	1.070.950,01	2 oct '25	13 ene '26	0%				0%	$	
26.4.3	MOV. BULKHEAD - HAND GRIP (ONE SIDE)	0.0%	8.425.560,00	2 oct '25	13 ene '26	0%				0%	$	
26.4.4	MOV. BULKHEAD - SOCKET/ANCHOR	0.0%	3.213.809,00	2 oct '25	13 ene '26	0%				0%	$	
		0.0%		2 oct '25	13 ene '26	0%				0%	$	
26.5.1	PUENTE MOVIL DE 25 MX 1.5M X 3 M (TODOS LOS ACCESORIOS INCLUIDOS)	0.0%	91.063.950,01	2 oct '25	13 ene '26	0%				0%	$	
26.5.2	MOV. BULKHEAD - ELECTRIC MOVEMENT SYSTEM	0.0%	42.630.880,01	2 oct '25	13 ene '26	0%				0%	$	
		0.0%		2 oct '25	13 ene '26	0%				0%	$	
26.6.1	SYSTEM AQUAREVIVAL 2 x 850GPH (12MM0H) + PIPING + PIPING SUPPORTS (ANTISEISMIC)	0.0%	301.112.530,00	2 oct '25	13 ene '26	0%				0%	$	
26.6.2	DISINFECTION SYSTEM - DULCOPOOL 3 - DOSING KIT 3	0.0%	8.946.389,99	2 oct '25	13 ene '26	0%				0%	$	
26.6.3	HEAT EXCHANGER - UP TO 4000 M3 INDOOR	0.0%	73.099.280,00	2 oct '25	13 ene '26	0%				0%	$	
26.6.4	HEAT EXCHANGER - INFLATING BOX EXTRA LARGE	0.0%	913.810,00	2 oct '25	13 ene '26	0%				0%	$	
26.6.5	CLEANING ACCESSORIES - POOL UP TO 25 M	0.0%	184.210,81	2 oct '25	13 ene '26	0%				0%	$	
26.6.6	CLEANING ACCESSORIES - POOL UP TO 50 M	0.0%	371.270,00	2 oct '25	13 ene '26	0%				0%	$	
26.6.7	CALYDA 2000 - POOL FLOOR	0.0%	3.866.960,00	2 oct '25	13 ene '26	0%				0%	$	
		0.0%		2 oct '25	13 ene '26	0%				0%	$	
26.10.1	MURO DE ESCALADA EN VELOCIDAD CON MEDIDAS Y CARACTERISTICAS REGLAMENTARIAS DE LA IF SC. PRESAS DE MANOS Y PIES NO INCLUIDAS USO EXTERIOR	0.0%	373.288.240,00	2 oct '25	13 ene '26	0%				0%	$	
26.10.2	MURO DE ESCALAR MODULADO BOULDER FABRICADO EN RESINAS SINTETICAS REFORZADAS CON FIBRA DE VIDRIO, USO RECOMENDADO BAJO TECHO Y EXTERIORES	0.0%	727.273.200,00	2 oct '25	15 ene '26	0%				0%	$	
26.10.3	MURO DE ESCALAR MODULADO DIFICULTAD FABRICADO EN RESINAS SINTETICAS REFORZADAS CON FIBRAS DE VIDRIO DE GRAN DURACION Y BAJO MANTENIMIENTO APTO PARA EXTERIORES Y AMBIENTES DIFICILES	0.0%	566.421.170,60	2 oct '25	30 dic '25	0%				0%	$	
26.10.4	ESTRUCTURA METALICA DISEÑADA PARA FIJAR EL MURO DE ESCALADA EN UNA PARED EXISTENTE	0.0%	243.563.812,20	2 oct '25	13 ene '26	0%				0%	$	
26.10.5	AUTOBELAY TRUBLUE 2, SISTEMA DE AUTOASEGURAMIENTO FACIL DE UTILIZAR Y CON VELOCIDAD CONSTANTE DE DESCENSO	0.0%	186.177.800,00	17 oct '25	13 ene '26	0%				0%	$	
26.10.6	PRESA BULECION O AGARRE PARA MURO DE ESCALADA CON VARIEDAD DE COLORES Y TAMAÑOS	0.0%	10.570.000,36	16 dic '25	15 ene '26	0%				0%	$	
26.10.7	SET DE 6 PRESAS, BULECIONES O AGARRES PARA MURO DE ESCALADA DISEÑADAS PARA JUEGOS	0.0%	11.378.399,81	2 oct '25	15 ene '26	0%				0%	$	
26.10.8	PRESA, BULECION O AGARRE PARA MURO DE ESCALADA CON VARIEDAD DE COLORES, EN PACK DE 100 FORMAS Y TAMAÑOS DIFERENTES (25+35	0.0%	30.434.000,65	2 oct '25	13 ene '26	0%				0%	$	
26.10.9	MODULO DE ESCALADA TAMAÑO GRANDE 3 MX3,24 MAX	0.0%	8.508.070,83	2 oct '25	13 ene '26	0%				0%	$	
26.10.10	MODULO DE ESCALADA TAMAÑO PEQUEÑO 0,75MX0,75M MAX	0.0%	5.113.499,75	2 oct '25	13 ene '26	0%				0%	$	
26.10.11	PRESA, BULECION O AGARRE PARA MURO DE ESCALADA CON VARIEDAD DE COLORES Y TAMAÑOS	0.0%	11.012.099,66	2 oct '25	15 ene '26	0%				0%	$	
26.10.12	TORNILLO ZINCADO 3/8 TIPO ALLEN PARA BULECION DE PRESAS	0.0%	4.136.013,27	2 oct '25	30 dic '25	0%				0%	$	
26.10.13	CUERDA MAURO WALL, CUERDA SEMPLE DE 10,1 MM DE DIAMETRO PARA ESCALADA EN ROCODROMO	0.0%	12.921.092,13	2 oct '25	13 ene '26	0%				0%	$	
26.10.14	CASCO BORLO CLUB, ROBUSTO Y POLIVALENTE CON PROTECCION REFORZADA PARA ESCALADA Y ALPINISMO	0.0%	13.503.040,78	17 oct '25	13 ene '26	0%				0%	$	
26.10.15	CINTA EXPRES DUNN AXESS - PETZL CINTA EXPRES ROBUSTA PARA ESCALADA DEPORTIVA	0.0%	17.519.998,77	16 dic '25	15 ene '26	0%				0%	$	
26.10.16	CODEUR STAINLESS PLAQUETA DE ACERO INOXIDABLE PARA UTILIZACION EN EXTERIORES TRADICIONALES	0.0%	5.947.199,68	7 oct '25	15 ene '26	0%				0%	$	
26.10.17	LLAVE EN FORMA DE T TIPO ALLEN DE 3/8 PARA LA UBICACIÓN DE PRESAS EN EL MURO	0.0%	188.760,01	2 oct '25	13 ene '26	0%				0%	$	
26.10.18	ARNES REGULABLE Y POLIVALENTE CORAX, FACIL DE UTILIZAR Y CONFORTABLE, ESTA DESTINADO A LA	0.0%	388.480,01	2 oct '25	15 ene '26	0%				0%	$	
26.10.19	ARNES PANDION, COMPACTO Y LIGERO ES MUY APRECIADO EN ESCALADA, RECORRIDOS POR	0.0%	24.167.629,77	2 oct '25	13 ene '26	0%				0%	$	
26.10.20	DESCENSOR TIPO OCHO QUE PERMITE EL USO A UNA O 2 CUERDAS	0.0%	1.899.200,01	2 oct '25	13 ene '26	0%				0%	$	
26.10.21	SET DE PRESAS DE VELOCIDAD PARA MURO DE 15 METROS, INCLUYE ELEMENTOS DE FIJACION	0.0%	25.100.000,00	2 oct '25	13 ene '26	0%				0%	$	
26.10.22	MOSQUETON BWD - PETZL MOSQUETON CON BLOQUEO DE SEGURIDAD EN FORMA DE D	0.0%	8.941.799,79	2 oct '25	15 ene '26	0%				0%	$	
26.10.23	ASEGURADOR GIGI 2, ASEGURADOR CON FRENADO A BOTON PARA CUERDAS SIMPLES CON	0.0%	8.513.720,04	2 oct '25	15 ene '26	0%				0%	$	
26.10.24	CABLE ACERO INOXIDABLE DE 3/8 7*19 CON ACCESORIOS INOX	0.0%	16.764.000,37	2 oct '25	15 ene '26	0%				0%	$	
26.10.25	SERVICIOS INCLUIDOS COMO PERSONAL HERRAMIENTAS, VISITAS, CONSUMIBLES,	0.0%	116.947.188,80	7 oct '25	30 dic '25	0%				0%	$	
26.10.26	COLCHONETA DE IMPACTO (ESPECIFICA PARA ESCALADA DE 300H DE GROSOR, FORRADA EN	0.0%	184.134.580,50	2 oct '25	13 ene '26	0%				0%	$	
26.10.27	SERVICIOS DE TRANSPORTE	0.0%	14.100.449,93	17 oct '25	13 ene '26	0%				0%	$	
		0.0%		16 dic '25	15 ene '26	0%				0%	$	
26.9	SUMINISTRO DE EQUIPOS DE PISCINA DE COMPETENCIAS - SISTEMA MYRTHA POOLS	0.0%	0,00	7 oct '25	15 ene '26	0%				0%	$	
26.1.8	ESTRUCTURA	0.0%	0,00	2 oct '25	13 ene '26	0%				0%	$	
26.1.1.8	MYRTHA CLASSIC COMPETITION - 3.00 M - CORRIDOR	0.0%	4.947.775.750,43	2 oct '25	13 ene '26	0%				0%	$	
26.1.2.8	CORNER - OVERFLOW	0.0%	50.486.519,56	2 oct '25	13 ene '26	0%				0%	$	
26.1.3.8	MYRTHA RECESSED LADDER (INCL. 2 GRAB RAILS AND 2 GUTTER ANCHORS)	0.0%	555.701.110,45	2 oct '25	13 ene '26	0%				0%	$	
26.1.4.8	LINK PLATE	0.0%	725.984.379,80	2 oct '25	13 ene '26	0%				0%	$	
26.1.5.8	MYRTHA SKIN - FLOOR	0.0%	2.164.449.979,56	2 oct '25	13 ene '26	0%				0%	$	
		0.0%		2 oct '25	13 ene '26	0%				0%	$	
26.2.8	ACCESORIOS DE CIRCULACION	0.0%	0,00	2 oct '25	15 ene '26	0%				0%	$	
26.2.1.8	WALL INLET - STRAHLENTURBULENZ	0.0%	371.343.499,87	2 oct '25	22 ene '26	0%				0%	$	
26.2.2.8	WALL PVC VACUUM POINT 2	0.0%	19.193.889,61	9 oct '25	7 ene '26	0%				0%	$	
26.2.3.8	MYRTHA BOTTOM DRAIN - 225 MM	0.0%	92.533.309,88	9 oct '25	22 ene '26	0%				0%	$	
26.2.4.8	GUTTER DRAIN - PVC - INT. 90 MM / EXT. 110 MM	0.0%	71.548.129,63	22 dic '25	22 ene '26	0%				0%	$	
26.2.5.8	SILENCER FOR DROP OUTS	0.0%	186.568.350,43	22 dic '25	22 ene '26	0%				0%	$	
		0.0%		9 oct '25	22 ene '26	0%				0%	$	
26.3.8	ACCESORIOS DE COMPETENCIA	0.0%	0,00	9 oct '25	22 ene '26	0%				0%	$	
26.3.1.8	FLOOR LANE MARKING - BLACK DYED ON SITE	0.0%	126.622.580,22	9 oct '25	22 ene '26	0%				0%	$	
26.3.2.8	WALL TARGET - PAINTED - FACTORY INSTALL	0.0%	56.003.440,27	9 oct '25	22 ene '26	0%				0%	$	
26.3.3.8	POLE ANCHOR - POOL GUTTER	0.0%	143.847.560,51	9 oct '25	22 ene '26	0%				0%	$	

		0.0%		9 oct '25	22 ene '26	0%					0%	$
26.3.4.5	REMOVABLE HEADWALL - STAINLESS STEEL AISI 304	0.0%	832 229 740,38	9 oct '25	22 ene '26	0%					0%	$
26.3.5.5	STARTING BLOCK - MYRTHA PACK START BLOCK - FIBERGLASS	0.0%	666 149 788,60	9 oct '25	22 ene '26	0%					0%	$
26.3.6.5	FLOATING LANE - 50 M - Q 150 MM	0.0%	166 240 330,15	9 oct '25	22 ene '26	0%					0%	$
26.3.7.5	FLOATING LANE - 25 M - Q 150 MM	0.0%	83 290 160,37	9 oct '25	22 ene '26	0%					0%	$
26.3.8.5	FLOATING WATERPOLO GOAL	0.0%	58 884 960,45	9 oct '25	22 ene '26	0%					0%	$
26.3.9.5	WATERPOLO - ANCHORS & LANES SET	0.0%	141 312 070,41	9 oct '25	22 ene '26	0%					0%	$
26.3.10.5	WATERPOLO - BALL RELEASE DEVICE	0.0%	5 722 619,56	9 oct '25	22 ene '26	0%					0%	$
26.3.11.5	BACKSTROKE START SYSTEM	0.0%	16 873 329,73	9 oct '25	22 ene '26	0%					0%	$
		0.0%		9 oct '25	22 ene '26	0%					0%	$
26.4.9	PARED FIJA	0.0%	0,00	9 oct '25	29 ene '26	0%					0%	$
26.4.1.5	PARED FIJA DE 25 MX 1.5M X 3 M	0.0%	1 524 510 449,43	17 oct '25	15 ene '26	0%					0%	$
26.4.2.5	MOV. BULKHEAD - MAINTENANCE & REPAIR KIT	0.0%	12 624 130,47	17 oct '25	29 ene '26	0%					0%	$
26.4.3.5	MOV. BULKHEAD - HAND GRIP (ONE SIDE)	0.0%	75 703 310,13	31 oct '25	29 ene '26	0%					0%	$
26.4.4.5	MOV. BULKHEAD - SOCKET/ANCHOR	0.0%	20 238 520,01	31 dic '25	29 ene '26	0%					0%	$
		0.0%		17 oct '25	29 ene '26	0%					0%	$
26.5.5	PUENTE MOVIL	0.0%	0,00	17 oct '25	29 ene '26	0%					0%	$
26.5.1.5	PUENTE MOVIL DE 25 MX 1.5M x 3 M (TODOS LOS ACCESORIOS INCLUIDOS)	0.0%	2 313 041 860,45	17 oct '25	29 ene '26	0%					0%	$
26.5.2.5	MOV. BULKHEAD - ELECTRIC MOVEMENT SYSTEM	0.0%	504 669 539,70	17 oct '25	29 ene '26	0%					0%	$
		0.0%		17 oct '25	29 ene '26	0%					0%	$
26.6.6	TRATAMIENTO AGUA CON FILTRO AQUAREVIVAL	0.0%	0,00	17 oct '25	29 ene '26	0%					0%	$
26.6.1.5	SYSTEM AQUAREVIVAL 2 X 830/40 (178M3/H) + PIPING + PIPING SUPPORTS (ANTI-SISMIC)	0.0%	8 461 758 470,30	17 oct '25	29 ene '26	0%					0%	$
26.6.2.5	DISINFECTION SYSTEM - DULCOPOOL 3 - DOSING KIT 2	0.0%	78 833 580,41	17 oct '25	29 ene '26	0%					0%	$
26.6.3.5	HEAT EXCHANGER - UP TO 4000 M3 INDOOR	0.0%	202 750 449,46	17 oct '25	29 ene '26	0%					0%	$
26.6.4.5	HEAT EXCHANGER INSULATING BOX EXTRA LARGE	0.0%	8 932 799,84	17 oct '25	29 ene '26	0%					0%	$
26.6.5.5	CLEANING ACCESSORIES - POOL UP TO 25 M	0.0%	1 443 290,27	17 oct '25	29 ene '26	0%					0%	$
26.6.6.5	CLEANING ACCESSORIES - POOL UP TO 50 M	0.0%	3 263 320,34	17 oct '25	29 ene '26	0%					0%	$
26.6.7.5	"ALKOR 2005" - POOL FLOOR	0.0%	33 868 317,37	17 oct '25	29 ene '26	0%					0%	$
27	SISTEMAS ESPECIALES	0.0%		17 oct '25	29 ene '26	0%					0%	$
27.1.3	PA00 - PUERTA ACUSTICA EN MADERA STC 48 CARA EXTERNA 1 ACABADO FORMICA O MELAMINA DE 1MM + MDF DE 12MM DE ESPESOR + MEMBRANA ACUSTICA DE 3MM DE ESPESOR INTERIOR /CAMARA DE AIRE DE 47MM CON FIBRA DE VIDRIO DE BAJA DENSIDAD DE 2.5" DE ESPESOR DENSIDAD 2	0.0%	2 959 770,00	17 oct '25	29 ene '26	0%					0%	$
27.1.4	PA01 -PUERTA ACUSTICA EN MADERA STC 38, COMPOSICIÓN ACABADO FORMICA O MELAMINA DE 1MM + MADERA CONTRACHAPADA DE 12MM DE ESPESOR + MEMBRANA ACUSTICA DE 3MM DE ESPESOR + FIBRA DE VIDRIO DE BAJA DENSIDAD (22KG/M3) DE ESPESOR 2.5" + MEMBRANA ACUSTICA DE 3MM	0.0%	4 735 640,00	17 oct '25	29 ene '26	0%					0%	$
27.1.5	DIVISIONES ACUSTICAS RETRACTILES, STC 53 PANEL MELAMINICO DE 15MM DE ESPESOR CON MEMBRANA ACUSTICA DE 3MM DE ESPESOR MONTADA SOBRE ESTRUCTURA METALICA GENERANDO CÁMARA DE AIRE DE 80MM, COMPLEMENTADA CON FIBRA DE VIDRIO DE BAJA DENSIDAD (22KG/M3) DE ESPESO	0.0%	1 036 117 959,00	17 oct '25	5 feb '26	0%					0%	$
		0.0%		24 oct '25	22 ene '26	0%					0%	$
27.2.1	LF - SISTEMA DE LOZA FLOTANTE CUARTO DE BOMBAS + SUBESTACION ELECTRICA PLACA DE CONCRETO REFORZADO DE 5CM DE ESPESOR FUNDIDA SOBRE LAMINA DE FIBRA DE VIDRIO DE ALTA DENSIDAD DE 1" DE ESPESOR, REMATE LATERAL DE LA PLACA EN FIBRA DE VIDRIO A MANERA DE ZOCAL	0.0%	29 887 212,52	24 oct '25	5 feb '26	0%					0%	$
27.2.2	CIELORRASO DE SOLGADO LN LAMINA DE CARTON YESO DE 1/2" DE ESPESOR GENERANDO CAMARA DE AIRE CON LA PLACA DE ENTREPISO SUPERIOR DE 40CM, MONTADO SOBRE SUBESTRUCTURA CORRIENTE DE CONSTRUCCION LIVIANA, CAMARA DE AIRE COMPLEMENTADA CON FIBRA DE VIDRIO DE BAJA	0.0%	201 849 472,70	5 ene '26	5 feb '26	0%					0%	$
27.2.3	CUBIERTA METALICA DE 30MM CALIBRE 22 PANEL TIPO SANDWICH, INYECTADO EN LINEA CONTINUA CON POLIURETANO (PUR) EXPANDIDO DE ALTA DENSIDAD (38KG/M3) CARA EXTERNA CON ACERO GALVANIZADO PREPINTADO Y CARA INTERNA CON LANA MINERAL DE VIDRIO BIOSOLUBLE ADOLQUER	0.0%	1 984 936 639,00	8 ene '26	5 feb '26	0%					0%	$
		0.0%		24 oct '25	5 feb '26	0%					0%	$
27.3.1	PANEL MULTIPERFORADO EN MADERA DE 1 9CM DE ESPESOR, AREA PERFORADA 30%, ACABADO FORMICA O MELAMINA SEGUN REFERENCIA ARQUITECTONICA, LAMINA DE FIBRA DE VIDRIO DE 1" DE ESPESOR MONTADA AL RESPALDO DEL PANEL PERFORADO DEL TIPO BLACK THEATER O SIMILAR, SIRTE	0.0%	81 435 899,32	24 oct '25	5 feb '26	0%					0%	$
27.3.2	PANEL LISO EN MADERA DE 1 5CM DE ESPESOR ACABADO FORMICA O MELAMINA SEGUN REFERENCIA ARQUITECTONICA, SISTEMA DE SUBESTRUCTURA DE ANCLAJE A MURO GENERANDO CAMARA DE AIRE DE 3CM	0.0%	145 940 643,80	24 oct '25	5 feb '26	0%					0%	$
		0.0%		24 oct '25	5 feb '26	0%					0%	$
27.4.1	PANEL MULTIPERFORADO LN MADERA DE 1 5CM DE ESPESOR, AREA PERFORADA 30%, ACABADO FORMICA O MELAMINA SEGUN REFERENCIA ARQUITECTONICA, LAMINA DE FIBRA DE VIDRIO DE 1" DE ESPESOR MONTADA AL RESPALDO DEL PANEL PERFORADO DEL TIPO BLACK THEATER O SIMILAR, SIRTE	0.0%	43 300 992,31	24 oct '25	5 feb '26	0%					0%	$
27.4.2	PANEL LISO EN MADERA DE 1 5CM DE ESPESOR ACABADO FORMICA O MELAMINA SEGUN REFERENCIA ARQUITECTONICA, SISTEMA DE SUBESTRUCTURA DE ANCLAJE A DRYWALL GENERANDO CAMARA DE AIRE DE 3CM	0.0%	38 932 781,38	24 oct '25	5 feb '26	0%					0%	$
27.4.4	CIELORRASO EN LAMINA MULTIPERFORADA DE CARTON YESO MONTADA SOBRE ESTRUCTURA TRADICIONAL DE DRYWALL CON FIBRA DE VIDRIO DE BAJA DENSIDAD DE ESPESOR 2 5 MONTADA AL RESPALDO INCLUYE SUBESTRUCTURA DE SOPORTE MODULAR EN ALUMINIO SISTEMA DE SUSPENSIÓN DE ENSAU	0.0%	758 309 083,00	24 oct '25	5 feb '26	0%					0%	$
		0.0%		24 oct '25	5 feb '26	0%					0%	$
27.5.1	FIBRA DE VIDRIO DE BAJA DENSIDAD DE 2.5 DE ESPESOR SIN PAPEL TIPO FIBERCASA O SIMILAR, INCLUYE SUMINISTRO E INSTALACIÓN	0.0%	31 797 401,55	24 oct '25	5 feb '26	0%					0%	$
27.5.2	SOPORTE ANTIVIBRATORIO A BASE DE NEOPRITA INCLUYE SUMINISTRO E INSTALACIÓN	0.0%	187 820,00	24 oct '25	5 feb '26	0%					0%	$
27.5.3	JUNTAS DE EXPANSIÓN PARA TUBERÍA HIDRAULICA EN CAUCHO INCLUYE SUMINISTRO E INSTALACIÓN	0.0%	466 540,00	24 oct '25	12 feb '26	0%					0%	$
28	SEÑALIZACION Y DOTACION	0.0%		31 oct '25	29 ene '26	0%					0%	$
28.1.1	PUNTO DE INFORMACION ENTRADA PRINCIPAL	0.0%	7 684 680,00	31 oct '25	12 feb '26	0%					0%	$
		0.0%		15 nov '25	12 feb '26	0%					0%	$
28.2.1	INDICADOR DE PISO - GENERICO	0.0%	1 440 800,00	18 ene '26	12 feb '26	0%					0%	$
		0.0%		31 oct '25	12 feb '26	0%					0%	$
28.3.1	HORARIO ENTRADAS PRINCIPALES	0.0%	1 745 040,00	31 oct '25	12 feb '26	0%					0%	$
		0.0%		31 oct '25	12 feb '26	0%					0%	$
28.4.1	TERMINAL DE PASAJEROS Y BASE SDEI	0.0%	1 841 089,99	31 oct '25	12 feb '26	0%					0%	$
		0.0%		31 oct '25	12 feb '26	0%					0%	$
28.5.1	TOTEM EXTERIOR	0.0%	29 817 480,00	31 oct '25	19 feb '26	0%					0%	$
		0.0%		8 nov '25	5 ene '26	0%					0%	$
28.6.1	MAQUETA TACTIL - ENTRADA PRINCIPAL	0.0%	73 374 199,81	8 nov '25	19 feb '26	0%					0%	$
		0.0%		24 nov '25	19 feb '26	0%					0%	$
28.8.1	DESCOLGADA GENERICA	0.0%	5 571 359,95	23 ene '26	19 feb '26	0%					0%	$
28.8.2	DESCOLGADA GENERICA DOBLE	0.0%	5 443 280,81	8 nov '25	19 feb '26	0%					0%	$
28.8.3	DESCOLGADA GENERICA DOBLE TIPO 2	0.0%	6 652 839,99	8 nov '25	19 feb '26	0%					0%	$
		0.0%		8 nov '25	19 feb '26	0%					0%	$
28.9.1	TIPO 1 (ORIENTACIÓN E INDICACIÓN DE DEPENDENCIAS)	0.0%	3 625 799,81	8 nov '25	19 feb '26	0%					0%	$
		0.0%		8 nov '25	19 feb '26	0%					0%	$
28.10.1	TERMINAL DE PASAJEROS - POSICIONAMIENTO PERSONAS CON MOVILIDAD REDUCIDA	0.0%	849 499,98	8 nov '25	19 feb '26	0%					0%	$
		0.0%		8 nov '25	19 feb '26	0%					0%	$
28.11.1	SEÑAL INDICATIVA GENERICA - TIPO 1	0.0%	75 561 200,51	8 nov '25	26 feb '26	0%					0%	$
		0.0%		15 nov '25	12 feb '26	0%					0%	$
28.12.1	SEÑAL INDICATIVA GENERICA DOBLE - TIPO 1	0.0%	732 479,99	13 nov '25	26 feb '26	0%					0%	$
		0.0%		1 dic '25	26 feb '26	0%					0%	$
28.13.1	SEÑAL INDICATIVA GENERICA DOBLE - TIPO 2	0.0%	1 504 679,99	30 ene '26	26 feb '26	0%					0%	$
		0.0%		15 nov '25	26 feb '26	0%					0%	$
28.14.1	SEÑAL INDICATIVA GENERICA DOBLE - TIPO 3	0.0%	9 267 879,95	13 nov '25	26 feb '26	0%					0%	$
		0.0%		13 nov '25	26 feb '26	0%					0%	$
28.15.1	SEÑAL TIPO (ORIENTACIÓN E INDICACIÓN DE DEPENDENCIAS)	0.0%	19 604 832,11	15 nov '25	26 feb '26	0%					0%	$
		0.0%		15 nov '25	26 feb '26	0%					0%	$
28.16.1	GENERICA (SALIDA DE EMERGENCIA EVACU DERECHA EVACU IZQUIERDA BOTIQUIN BAJA ESCALERA IZQUIERDA BAJA ESCALERA DERECHA)	0.0%	13 335 838,62	15 nov '25	26 feb '26	0%					0%	$
28.18.18	PUNTO DE ENCUENTRO	0.0%	13 448 159,99	15 nov '25	5 mar '26	0%					0%	$

29.19.2	GENERICA (SALIDA DE EMERGENCIA, EVACU DERECHA, EVACU IZQUIERDA, BOTIQUIN, BAJA ESCALERA IZQUIERDA, BAJA ESCALERA DERECHA) ILUMINACION LED	0.0%	4.178.520,04	24 nov '25	18 feb '26	0%				0%	$ -
		0.0%		24 nov '25	5 mar '26	0%				0%	$ -
29.20.1	SEÑAL TIPO (EXTINTOR, EQUIPO EMER, HIDRANTE)	0.0%	3.650.160,00	9 dic '25	5 mar '26	0%				0%	$ -
		0.0%		4 feb '26	5 mar '26	0%				0%	$ -
29.22.1	AVISO GENERICO	0.0%	2.841.730,01	24 nov '25	5 feb '26	0%				0%	$ -
29.22.2	AVISO FACHADA SUR	0.0%	35.781.710,00	9 dic '25	5 mar '26	0%				0%	$ -
		0.0%		24 nov '25	5 feb '26	0%				0%	$ -
29.23.1	MAPA DE EVACUACION	0.0%	126.080,00	9 dic '25	5 feb '26	0%				0%	$ -
29	OBRAS EXTERIORES	0.0%		9 dic '25	5 feb '26	0%				0%	$ -
29.1.11	CONCRETO ESTRIADO RAMPAS E=0.15M SIN REFUERZO	0.0%	29.680.182,26	9 dic '25	5 feb '26	0%				0%	$ -
29.1.12	RAMPA B5 INCLUYE REMATE Y BARDINEL (CARTILLA DE ANDENES)	0.0%	3.310.560,01	9 dic '25	5 feb '26	0%				0%	$ -
29.1.13	RAMPA B10 INCLUYE REMATE Y BARDINEL (CARTILLA DE ANDENES)	0.0%	2.648.719,99	9 dic '25	5 feb '26	0%				0%	$ -
29.1.21	PLACA CONTRAPISO E 10 M 3.000 PSI +MALLA 4MM "	0.0%	1.382.558,13	9 dic '25	5 feb '26	0%				0%	$ -
29.1.36	PASOS EN CONCRETO - FORMA CIRCULAR DIAMETRO 40CM E=30CM	0.0%	7.387.199,71	9 dic '25	5 mar '26	0%				0%	$ -
29.1.37	PASOS EN CONCRETO - FORMA CIRCULAR DIAMETRO 50CM E=30CM	0.0%	3.229.880,04	24 nov '25	5 mar '26	0%				0%	$ -
29.1.38	PASOS EN CONCRETO - FORMA CIRCULAR DIAMETRO 58CM E=30CM	0.0%	3.460.000,11	24 nov '25	5 mar '26	0%				0%	$ -
29.1.41	MUROS EN CONCRETO ESPESOR 15CM	0.0%	770.842.376,30	24 nov '25	5 feb '26	0%				0%	$ -
29.1.42	MUROS EN CONCRETO ESPESOR 20CM	0.0%	272.648.749,70	9 dic '25	5 feb '26	0%				0%	$ -
		0.0%		9 dic '25	5 feb '26	0%				0%	$ -
29.2.1	JARDINERA EN MAMPOSTERIA LADRILLO GRAN FORMATO CAPUCCINO	0.0%	8.638.222,46	9 dic '25	5 feb '26	0%				0%	$ -
		0.0%		9 dic '25	5 feb '26	0%				0%	$ -
29.3.1	ADOQUIN EN CONCRETO COLOR BEIGE CAPA 8 CM - ARENA 6 CM	0.0%	297.467.643,80	9 dic '25	5 feb '26	0%				0%	$ -
29.3.2	ADOQUIN EN CONCRETO COLOR OCRE CAPA 8 CM - ARENA 6 CM	0.0%	311.884.476,30	9 dic '25	5 feb '26	0%				0%	$ -
29.3.3	ADOQUIN EN CONCRETO COLOR CHOCOLATE CAPA 8 CM - ARENA 6 CM	0.0%	247.247.458,10	9 dic '25	5 feb '26	0%				0%	$ -
29.3.4	ADOQUIN EN CONCRETO DE TRAFICO VEHICULAR CAPA 8 CM - ARENA 6 CM	0.0%	66.521.894,31	9 dic '25	5 feb '26	0%				0%	$ -
29.3.11	DECA EN CONCRETO COLORES GRIS OSCURO	0.0%	24.878.443,82	9 dic '25	5 feb '26	0%				0%	$ -
29.3.12	DECA EN CONCRETO COLORES GRIS CLARO	0.0%	34.664.842,52	9 dic '25	5 feb '26	0%				0%	$ -
29.3.21	LOSETA PREFABRICADA 40 X 40CM	0.0%	14.870.819,69	9 dic '25	5 feb '26	0%				0%	$ -
29.3.22	LOSETA PREFABRICADA 20X20CM	0.0%	13.500.387,80	9 dic '25	5 feb '26	0%				0%	$ -
		0.0%		9 dic '25	5 feb '26	0%				0%	$ -
29.6.1	RODADURA ASFALTICA MDIB O #1350 E=0.05M CON RECUBRIMIENTO SINTETICO DE COLOR + CAPA DE ARENA NIVELACION 0.06 Y BASE GRANULAR 0.2	0.0%	122.053.561,10	9 dic '25	5 feb '26	0%				0%	$ -
29.6.1	CICLERAS EN CONCRETO 4000 PSI	0.0%	34.638.736,30	9 dic '25	5 feb '26	0%				0%	$ -
		0.0%		24 nov '25	5 mar '26	0%				0%	$ -
29.14.1	CINTA DE CONFINAMIENTO DIM 10*30CM	0.0%	209.218.472,60	24 nov '25	5 mar '26	0%				0%	$ -
29.14.11	BORDILLO PREFABRICADO EN CONCRETO 4000 PSI PREFABRICADO EN OBRA EN L	0.0%	83.040.866,87	24 nov '25	5 mar '26	0%				0%	$ -
29.14.14	BORDILLO PREFABRICADO A-800 35MD 2CD 80AS	0.0%	29.754.880,27	24 nov '25	5 mar '26	0%				0%	$ -
29.14.21	BORDILLO EN SITIO B 10 40 35 M 2500 PSI	0.0%	8.214.151,36	24 nov '25	12 mar '26	0%				0%	$ -
		0.0%		1 dic '25	26 feb '26	0%				0%	$ -
29.15.1	SARDINEL PREFABRICADO A-10	0.0%	20.061.746,96	1 dic '25	12 mar '26	0%				0%	$ -
		0.0%		18 dic '25	12 mar '26	0%				0%	$ -
29.17.1	PRADIZACIÓN GRAMA NATURAL - COLA DE ZORRO	0.0%	41.651.485,38	13 feb '26	12 mar '26	0%				0%	$ -
29.17.2	PRADIZACIÓN GRAMA NATURAL PASTO ALEMAN	0.0%	107.147,18	1 dic '25	12 mar '26	0%				0%	$ -
		0.0%		1 dic '25	12 mar '26	0%				0%	$ -
29.25.1	REJILLA 1000*25*3 CM TRÁFICO VEHICULAR LIVIANO	0.0%	18.863.943,84	13 feb '26	12 mar '26	0%				0%	$ -
		0.0%		13 feb '26	12 mar '26	0%				0%	$ -
29.28.1	BOLARDO M-19-A - ACTUALIZACIÓN CARTILLA DE ANDENES	0.0%	9.342.819,09	13 feb '26	12 mar '26	0%				0%	$ -
29.28.13	BANCA M-10-A - ACTUALIZACIÓN CARTILLA DE ANDENES	0.0%	29.134.400,18	13 feb '26	12 mar '26	0%				0%	$ -
29.28.14	BANCA M-12-A - ACTUALIZACIÓN CARTILLA DE ANDENES	0.0%	23.417.400,18	1 dic '25	12 mar '26	0%				0%	$ -
29.28.15	BANCA M-09-A ACTUALIZACIÓN CARTILLA DE ANDENES	0.0%	587.440,08	13 feb '26	12 mar '26	0%				0%	$ -
29.28.16	BANCA M-00-A ACTUALIZACIÓN CARTILLA DE ANDENES	0.0%	2.179.240,04	13 feb '26	12 mar '26	0%				0%	$ -
29.28.71	BANCA EN LISTONES DE MADERA SOBRE APOYO I N CONCRETO DIMENSIONES 2.70X0.45X0.45	0.0%	6.847.199,96	13 feb '26	12 mar '26	0%				0%	$ -
		0.0%		13 feb '26	12 mar '26	0%				0%	$ -
29.27.1	CANECA M-12" - CARTILLA DE ANDENES	0.0%	18.337.498,87	13 feb '26	12 mar '26	0%				0%	$ -
		0.0%		13 feb '26	12 mar '26	0%				0%	$ -
29.29.1	PLANTA HIEDRA KINJITO (12 X M2)	0.0%	119.915.432,00	1 dic '25	12 mar '26	0%				0%	$ -
29.29.2	PLANTA BALAZO PARA JARDIN (2 A M2)	0.0%	25.107.284,36	13 feb '26	12 mar '26	0%				0%	$ -
29.29.3	PLANTA HIEDRA HOJA ANCHA (1 A M2)	0.0%	297.217.373,70	13 feb '26	12 mar '26	0%				0%	$ -
29.29.4	PLANTA HELECHO ARBORES D (12 X M2)	0.0%	15.553.434,11	1 dic '25	12 mar '26	0%				0%	$ -
29.29.5	PLANTA HELECHO PEINE (12 X M2)	0.0%	37.655.203,72	13 feb '26	12 mar '26	0%				0%	$ -
29.29.10	PLANTA PAPIRO ENANO ACUATICO	0.0%	2.466.127,93	1 dic '25	12 mar '26	0%				0%	$ -
29.29.20	ARENA PEDAR (BLANCA + PISTAL) PARA PLAYA	0.0%	18.338.788,25	13 feb '26	12 mar '26	0%				0%	$ -
		0.0%		13 feb '26	12 mar '26	0%				0%	$ -
29.30.1	ARBOL SANGALOAO	0.0%	6.507.660,09	1 dic '25	12 mar '26	0%				0%	$ -
29.30.2	ARBOL FALSO PIMIENTO	0.0%	3.146.730,88	1 dic '25	12 mar '26	0%				0%	$ -
29.30.3	ARBOL CARBONERO ROJO	0.0%	1.784.599,98	1 dic '25	12 mar '26	0%				0%	$ -
29.30.4	ARBOL ROBLE AUSTRALIANO	0.0%	1.472.000,81	1 dic '25	12 mar '26	0%				0%	$ -
29.30.5	ARBOL EUCALIPTO POMARROSO	0.0%	3.758.279,95	13 feb '26	12 mar '26	0%				0%	$ -
29.30.6	ARBOL CAUCHO SABANERO	0.0%	286.650,00	13 feb '26	12 mar '26	0%				0%	$ -
29.30.7	ARBOL CAUCHO TEQUENDAMA	0.0%	897.799,99	13 feb '26	12 mar '26	0%				0%	$ -
29.30.8	ARBOL GUAYACAN	0.0%	4.236.039,96	13 feb '26	12 mar '26	0%				0%	$ -
29.30.9	ARBOL ABUTILON	0.0%	1.882.870,04	13 feb '26	19 mar '26	0%				0%	$ -
29.30.10	ARBOL PLATANO DE TIERRA FRIA	0.0%	857.840,01	9 dic '25	5 mar '26	0%				0%	$ -
29.30.11	ARBOL HAYUELO	0.0%	1.628.920,02	9 dic '25	19 mar '26	0%				0%	$ -
29.30.12	ARBOL FEIJOA	0.0%	537.840,01	23 dic '25	19 mar '26	0%				0%	$ -
29.30.13	ARBOL CEDRO	0.0%	1.352.480,00	20 feb '26	19 mar '26	0%				0%	$ -
		0.0%		9 dic '25	19 mar '26	0%				0%	$ -
29.31.1	CERRAMIENTO TUBULAR METALICO DIAMETRO 50M CADA 1.30M ALTURA=1.80M SOBRE LLAVO EN CONCRETO H=80CM INCLUYE PUERTA SEGUN DISEÑO ARQ	0.0%	67.738.442,60	9 dic '25	27 mar '26	0%				0%	$ -
29.31.2	CERRAMIENTO TUBULAR DIAMETRO 2 1/2 CADA 3M PANEL EN MALLA ELECTROSOLDADA H=1.80M SOBRE MURETE EN CONCRETO H=.55CM INCLUYE PUERTA SEGUN DISEÑO ARQ	0.0%	15.674.734,31	16 dic '25	17 mar '26	0%				0%	$ -
		0.0%		10 dic '25	27 mar '26	0%				0%	$ -
29.32.1	RELLENO PARA ANDENES Y CIRCULACIONES EXTERIORES PEATONALES Y VEHICULARES(RELLENO SELECCIONADO B 4 M - GEOTEXTIL TEJIDO - BUBBA SE GRANULAR 0.3 M - GEOTEXTIL TEJIDO)	0.0%	706.092.731,10	31 dic '25	27 mar '26	0%				0%	$ -
		0.0%		27 feb '26	27 mar '26	0%				0%	$ -
30	ASEO	0.0%	243.688.490,90	16 dic '25	27 mar '26	0%				0%	$ -
30.1.2	ASEO FIN DE OBRA	0.0%	91.345.518,24	16 dic '25	27 mar '26	0%				0%	$ -
30.2.2	LIMPIEZA DE VIDRIOS	0.0%		16 dic '25	6 abr '26	0%				0%	$ -
	GASTOS REEMBOLSABLES	0.0%	37.557.634,03	23 dic '25	19 mar '26	0%				0%	$ -
9.18.1	CERTIFICACION RETILAP	0.0%	77.816.318,09	23 dic '25	6 abr '26	0%				0%	$ -
9.18.2	CERTIFICACION RETIE	0.0%	1.650.080,00	6 ene '26	6 abr '26	0%				0%	$ -
9.18.3	CERTIFICACION PUNTOS LOGICOS DE VOZ Y DATOS	0.0%	268.042.173,00	6 mar '26	6 abr '26	0%				0%	$ -
9.18.4	RESOLUCION SANCIU, TURAL (COMPENSACION Y SEGUIMIENTO FORESTAL)	0.0%		23 dic '25	6 abr '26	0%				0%	$ -
	FIN [Ajuste decimales]	0.0%									
		#¡REF!	$ 153.551.392.956,22			#¡REF!	$ -			#¡REF!	$ -

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BOGOTÁ
Instituto Distrital de Recreación y Deporte

CONTRATO DE OBRA No. IDRD-CTO-3203-2023

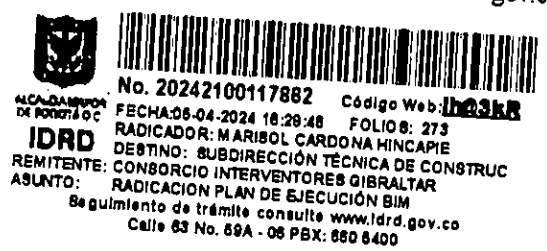
CONTRATAR LAS OBRAS Y ACTIVIDADES COMPLEMENTARIAS DEL CENTRO DE ALTO RENDIMIENBTO EN EL AMRCO DE LA MANZANA DEL CUIDADO DEL PORVENIR (GIBRALTAR). LOCALIDAD DE KENNEDY – BOGOTA

CONSORCIO GIBRALTAR

CUADRO DE CANTIDADES MODELOS BIM AS-BUILT

Element ID System Parameter	CODIGO Schedule Parameter			ITEM Schedule Parameter	AREA Schedule Parameter
6130961	1.1	NIVEL	MODULO	NOMBRE ACTIVIDAD CONSTRUCTIVA	46,34

Sticker web https://orfeo.idrd.gov.c...



CONSORCIO
INTERVENTORES GIBRALTAR

Bogotá D.C., 05 de abril de 2024

CIG-IDRD-CEFE-142-2024

Señores
INSTITUTO DISTRITAL DE RECREACIÓN Y DEPORTE - IDRD
ING. OSCAR RICARDO TAMAYO
Profesional Especializado
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Calle 63 # 59ª – 06

Referencia. **Proyecto CENTRO DE ALTO RENDIMIENTO** - CONTRATO DE OBRA IDRD-CTO-3203-2023 cuyo objeto es "CONTRATAR LAS OBRAS Y ACTIVIDADES COMPLEMENTARIAS DEL CENTRO DE ALTO RENDIMIENTO EN EL MARCO DE LA MANZANA DEL CUIDADO DEL PORVENIR (GIBRALTAR). LOCALIDAD DE KENNEDY – BOGOTA.

Asunto: Radicación Plan de Ejecución BIM PEB/BEP en su versión 3.1.

Respetado Ingeniero:

Como interventoría delegada para el contrato de la referencia, radicamos la aprobación de la versión 3.1 del Plan de Ejecución BIM PEB/BEP del proyecto CAR CDRC GIBRALTAR, presentado por el contratista el día 02 de abril del 2024 mediante el oficio IDRD--3203-E0149-2023.

Como aclaraccion se informa que previo a esta version 3.1, el día 27 de marzo del 2024 mediante el oficio IDRD--3203-E0143-2023 el contratista presento la version 3, sobre la cual la interventoría presento 30 observaciones mediante el oficio IDRD-CEFE-129-2024 - Observaciones BEP V3 – CAR, que permitieron llegar a este Plan de Ejecución BIM PEB/BEP (01-PLAN-DE-EJECUCION-BIM CAR V.3.1) al cumplir con las subsanaciones a las observaciones presentadas sobre las versiones V2 y V3.

Además, previo a la aprobación de este documento se realizaron cuatro (4) mesas de trabajo, una mesa de trabajo el 21 de marzo de 2024 (3. Acta de comité reunión - BIM 24-03-21) para la creación de una estrategia de segregación y cronograma de modelamiento, otra mesa de trabajo con la supervisión el 22 de marzo de 2024 (4. Acta de comité reunión - BIM 24-03-22) donde se presentaron las observaciones a la versión 2, otra mesa de trabajo el 01 de abril de 2024 (5. Acta de comité reunión - BIM 24-04-01) donde se le aclararon al contratista las inquietudes de las observaciones presentadas por la interventoría sobre la versión 3, y finalmente el 02 de abril de 2024 (6. Acta de comité reunión - BIM 24-04-02) se realizó una última mesa de trabajo para la verificación del estado de las subsanaciones a las observaciones.

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INTERVENTORES GIBRALTAR

Como consideraciones fundamentales para la aprobación de esta nueva versión (3.1) se tuvieron en cuenta lo siguiente:

- Esquema de ejecución para lograr los objetivos del anexo técnico.

    1. La estructura del BEP debe seguir los lineamientos establecidos en la ISO 19650 1, 2 y 3. Y la información debe ser gestionada siguiendo las recomendaciones de las GUÍAS PARA LA ADOPCIÓN BIM EN LAS ORGANIZACIONES del BIM Fórum Colombia.
    2. El seguimiento del avance de la obra se debe realizar bajo la metodología BIM, teniendo en cuenta las cantidades los recursos, la ruta crítica, entre otros, con una presentación similar a lo presentado en Project Management.
    3. Se deberán modelar todas las especialidades en LOD 350 para coordinación, actualización y modelos récord. (Se escogerán algunas zonas previo al inicio de cada actividad, consenso entre contratista e interventoría.)
    4. Informes quincenales
    5. Proceso constructivo de la estructura.
    6. Planos generados del modelo
    7. CDE una fuente de información.

- Propuesta de herramientas y actores para desarrollar los usos del modelo.
- Estrategia de segregación junto a un cronograma de modelamiento.

Sin otro particular, quedo atento a su respuesta.

Cordialmente,

Arq. Andrés Martínez V.
Representante Legal

Elaboró y proyectó: Wilber Pierre Sánchez Murcia – Residente BIM de Interventoría.
Revisó: Arq. Farith Adriana Guerrero Alayón.
Aprobó: Arq. Andrés Martínez Vesga

Anexo:
1. IDRD--3203-E0149-2023
2. 01-PLAN-DE-EJECUCION-BIM CAR V 3.1
3. 11 Formatos (BEP 01 al BEP 11)
4. IDRD-CEFE-118-2024 - Observaciones BEP V2 - CAR
5. IDRD-CEFE-129-2024 - Observaciones BEP V3 - CAR
6. 4 Actas de comité reunión (BIM 24-03-21, BIM 24-03-2, BIM 24-04-01, BIM 24-04-02)
7. LISTA_DE_CHEQUEO_DOCUMENTAL - BIM CAR

(272) Folios
(1) CD

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