

**SECTION 011100  
SUMMARY OF WORK**

**PART 1 - GENERAL**

1.01 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and other Division 01 Specification Sections, apply to this Section.

1.02 EXISTING CONDITIONS

- A. Existing Conditions and Available Material: Verify existing conditions in the company of the DNR Construction Inspector prior to submitting a bid. A certain amount of material remaining from the initial contract is available on site. That material may be installed while some may only be stored on site and ready to be installed. Existing material stored on site may be included in this Scope of work while other may have been overlooked. The bidding contractor shall be responsible for inventorying this material to be incorporated in the work along with providing and installing additional material that may be necessary to provide a proper and complete installation.

**PART 2 – PRODUCTS (Not Used)**

**PART 3 – EXECUTION**

3.03 EARTHWORK:

- A. Backfilling: Install backfill of foundation around building perimeter to allow sufficient drainage. Present grade is approximately 1'-0" lower than specified final grade around entire perimeter.
- B. Excavation: Excavate for grade beams for concrete stairs where shown on the drawings.
- C. Sub-grade preparation: Prepare sub-grade to receive slabs, sidewalks, stairs and drives.
- D. Granular Fill: Furnish and install 4" compacted granular fill were sidewalks, stairs and drives are shown on the drawings.
- E. Foundation Drainage: Inspect drainage tile. Verify proper installation and operation. Install outlet.
- F. Fine grading and seeding: Provide final grading and lawn/grass seeding around building perimeter and in areas disturbed by the work.

3.04 CONCRETE

- A. Formwork: Provide and install formwork for sidewalks, slabs, stairs and drives where shown on the drawings.
- B. Reinforcing: Install reinforcing for footings, landings and stairs. Some material is available on site. Verify that quantities are sufficient to complete project.
- C. Cast-in-Place Concrete: Place all footings, landings, stairs, sidewalks, slabs and drives as shown on the drawings, including the remaining interior slab on deck at Upper Level Balcony, as shown.

3.05 METALS

- A. Exterior Metal Railings: Furnish and install exterior steel handrails on top of east and west retaining walls, as well as concrete stairs.
- B. Interior Metal Railings: Furnish and install interior handrails at north and south stairs.
- C. All Metal Railings: Weld all sections and grind smooth to accept paint.

- D. Sleeves: Furnish and install metal sleeves at Upper Level Balcony edge to accept wood handrail installation.

### 3.06 WOOD & PLASTICS

- A. Furring Strips: Furnish and Install furring strips on Boat Area concrete walls. Verify that existing strips are properly secured. Re-secure loose strips as necessary.
- B. Soffit Framing: Furnish and install soffit framing below balcony.
- C. Plywood: furnish and install plywood walls in room A114, B110, B111, AND C100.
- D. Running and Standing Trim: Furnish and Install running and standing trim at floor base and boat area trim.
- E. Tongue & Groove Paneling: Furnish and install tongue and groove ceiling paneling at room A114, A115, and B101
- F. Wood Guardrail: furnish and install interior wood guardrail with navy flex webbing. Some flex webbing may be available on site. Verify that quantity is sufficient to accomplish the work. Provide any additional material necessary to accomplish the work. Provide sample panel for review by DNR Construction Inspector.
- G. Casework and Countertops: Provide and install casework. Install countertops. Countertops and laminate material are available on site. Verify that quantity is sufficient to accomplish the work. Provide any additional material necessary to accomplish the work.

### 3.07 CLEANING

- A. Foundations: Clean seepages created by malfunctioning drainage tile. Seal and or provide interior waterproofing treatment to prevent future occurrences.
- B. Masonry: Remove concrete splatters and provide general cleaning of simulated stone.

### 3.08 THERMAL AND MOISTURE PROTECTION

- A. Joint Sealant: Provide and install pavement and sidewalk joint sealants as well as interior floor expansion joint sealants. Provide and install sealant for metal flashing and coping.
- B. Fluid applied waterproofing: Provide and apply fluid applied waterproofing on masonry surfaces, exposed concrete sidewalks stairs and exterior slab surfaces
- C. Building Insulation: Provide and install insulation inside exterior walls and roofs. Remove and replace insulation already in place.
- D. Vapor Barrier: Provide and Install vapor barrier.
- E. Metal Gutters, Scuppers, Downspouts and ice clips: Furnish and install gutters, scuppers, downspouts and ice clips.

### 3.09 DOORS AND WINDOWS

- A. Aluminum Storefront: Provide and install additional aluminum storefront matching existing to replace originally intended monumental door as shown.
- B. Wood Doors: Install interior wood doors and hardware. Material is available on site. Verify that quantity is sufficient to accomplish the work. Provide any additional material necessary to accomplish the work.
- C. Hollow Metal Doors: Furnish and Install metal doors and hardware as shown.

- D. Coiling Grille: Provide and install coiling grille and hardware. Also provide and install or coordinate to install electric operator, motor and remote control station.
- E. Interior Aluminum Doors: Install interior aluminum doors and frames where shown. Material is available on site. Verify that quantity is sufficient to accomplish the work. Provide any additional material necessary to accomplish the work.
- F. Hardware: Install metal door hardware, wood door hardware and aluminum entrance door hardware where shown. The work includes hinges, lock cylinders, lock and latch sets, push/pull units, closers, door trim units, and protection plates. Material is available on site. Verify that quantity is sufficient to accomplish the work. Provide any additional material necessary to accomplish the work.
- G. Glazing: Provide for obscure glazing in already installed restroom windows. Provide and install glazing at all openings yet to be glazed.

### 3.10 FINISHES

- A. Gypsum Boards: Furnish and install, tape, sand and finish all gypsum drywall partition, soffits, and ceilings.
- B. Acoustical Ceilings: Furnish and install acoustical ceiling grids and pads.
- C. Plastic Laminate Flooring: Furnish and install plastic laminate where shown.
- D. Resilient Flooring: Furnish and install resilient flooring where shown.
- E. Resinous flooring: Furnish and Install resinous flooring.
- F. Carpeting: Furnish and Install carpeting.
- G. Painting: Paint all interior walls as specified. Stain interior woods trims and paneling as specified. Add one coat of stain to exterior siding.

### 3.11 SPECIALTIES

- A. Flagpole: Furnish and install flagpole, base and hardware as shown.
- B. Solid Polymer Toilet Partitions: Install toilet partitions. Material is available on site. Verify that quantity is sufficient to accomplish the work. Provide any additional material necessary to accomplish the work.
- C. Toilet Accessories: Furnish and Install sanitary napkin disposal units, toilet tissue dispensers, grab bars, heavy duty hooks, framed mirrors, mops and broom holders, and hand dryers.

### 3.12 FURNISHINGS

- A. Foot grilles and frames: Install foot grilles and frames where shown. Material is available on site. Verify that quantity is sufficient to accomplish the work. Provide any additional material necessary to accomplish the work.

### 3.13 SPECIAL CONSTRUCTION

- A. Wheelchair Lift: Furnish and Install wheelchair lift equipment, including mechanical, electrical equipments and finishing requirements.

### 3.14 MECHANICAL

- A. Pipe Insulation: Furnish & install all pipe insulation and jackets consisting of the following areas: domestic hot water supply lines, domestic hot water recirculation lines, domestic cold water lines and condensate drain lines from heat pumps.

- B. Furnish & install all duct insulation consisting of the following areas: exhaust ducts within 10ft of exterior openings, outside air intake ducts, supply ducts, supply ducts 10ft downstream of heat pumps and return ducts upstream of heat pumps.
- C. Plumbing Piping: Furnish & install plumbing piping. In wall rough-ins for plumbing piping is approximately 90% complete. The remaining areas consist of mechanical piping to the units in the mechanical room.
- D. Plumbing Specialties: Furnish & install plumbing specialties consisting of the following: roof and floor drains, cleanouts, hose bibs, backflow preventers and water hammer arrestors. Rough-in requirements for this material are approximately 90% complete.
- E. Hydronic Piping: Furnish & install hydronic piping consisting of the following: water source heat pump system and equipment drains and overflows.
- F. Hydronic Specialties: Furnish & install hydronic specialties consisting of the following: expansion tanks, air vents, air separators, strainers, flow indicators, controls, meters and relief valves.
- G. HVAC Pumps: Furnish & install HVAC pumps consisting of the following: vertical in-line pumps. The pumps are onsite.
- H. Water Treatment: Furnish & install chemical water treatment for the following areas: cleaning of piping systems and application of chemical treatment.
- I. Loop Piping: The loop field piping work is approximately 95% complete per this specification section. Material is currently roughed in to the building. Lines need to be tied into mechanical equipment inside mechanical room.
- J. Plumbing Fixtures: Furnish & install plumbing fixtures consisting of the following: water closets, urinals, lavatories, sinks and electric water closets.
- K. Plumbing Equipment: Furnish & install plumbing equipment consisting of the following: water heaters, water storage tanks, water softeners and circulating pumps.
- L. Air to Air Recovery Units: Furnish & install air to air heat recovery units consisting of the following: cabinet units, energy recovery unit, control and blowers. The equipment is set in these areas. Work remains to rough-in equipment and perform start up testing.
- M. Water Source Heat Pumps: Install water source heat pumps.
- N. Ductwork: Furnish & install ductwork. Work currently 75% done at these areas. Remaining work consists of installing spiral ductwork in rooms A114 and B101, installing ductwork for ER-I and miscellaneous fresh air. duct.
- O. Duct Accessories: Furnish & install duct accessories consisting of the following: backdraft dampers, combination fire and smoke dampers, duct access doors, fire dampers, flexible duct connections. Work is approximately 40% complete at these areas.
- P. Power Ventilators: Furnish & install power ventilators consisting of the following: ceiling exhaust fans. This equipment is set. Work remains to rough-in lines to each exhaust fan. Work is approximately 20% complete at these areas.
- Q. Air Inlet and Outlets: Furnish & install air outlet and inlets consisting of the following: diffusers, registers/grilles and roof hoods. The roof hoods are set in place. Rough-in requirements for the roof hoods are not complete.
- R. Thermostats: Furnish & install thermostats consisting of the following: digital programmable thermostats and thermostat guards.

- S. Sequence of Operations: Furnish & install HVAC sequence of operation consisting of the following: central energy recovery unit, heat pump units, and radiation and unit heaters.
- T. Testing, Adjusting and Balancing: Complete all testing, adjusting and balancing consisting of the following: testing, adjustment and balancing of air systems and testing, adjustment and balancing of hydronic systems.

### 3.15 ELECTRICAL

- A. Identification: Furnish & install electrical identification consisting of the following: nameplates, labels, wire markers and cable markers.
- B. Building Wiring and Cabling: Install building wire and cabling consisting of the following: wire and cable for 600 volts and less and wiring connectors and connections. Currently service wire is in place at all boxes and disconnects. Termination to receptacles approximately 90% complete. No terminations have begun at light fixtures.
- C. Equipment Wiring: Install equipment wiring to all mechanical equipment. This work is approximately 50% complete.
- D. Contactors: Furnish & install enclosed contactors consisting of the following: lighting contactors.
- E. Panelboards: Install panelboards. Work approximately 85% complete at these areas.
- F. Luminaries: Install interior luminaries consisting of the following: interior luminaries and accessories, ballasts and lamps. Install exterior luminaries.
- G. Telephones: Install telephone service, pathways and wiring consisting of the following: telephone service entrance raceway, equipment and terminal backboards, telephone cabinets and premises wiring and outlets. Work approximately 45% complete at these areas.
- H. Fire Detection: Install fire detection and alarm system consisting of the following: fire alarm control panels, manual fire alarm stations, automatic smoke and heat detectors, fire alarm signaling appliances and auxiliary fire alarm equipment. Work approximately 35% complete at these areas.

**END OF SECTION 011100**