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OUTLINE SPECIFICATIONS

DIVISION 1 – GENERAL REQUIREMENTS

01010 – General

1. Scope of Work:

New construction of a community center: Provide and perform all components of the work in a complete manner, with all normal accessories, for the intended use in fully functional condition.

Perform all work in accordance with the International Building Code 2015, NFPA Life Safety Code 2015, New Hampshire Energy Code, ADA, and all other applicable local and state codes.

2. Schedule: TBD

3. Contract: The Contract Agreement shall be AIA A101/A201 *Standard Form of Agreement Between Owner and Contractor*, with *General Conditions of the Contract for Construction*, latest editions.

DIVISION 2 – SITEWORK

02011 – Structure Demolition

1. Section includes demolition and removal of above and below-grade construction.
2. Comply with governing EPA notification regulations before beginning demolition.
3. Demolish foundation walls and other below-grade construction within footprint of new construction and extending 5 feet outside new construction.
4. Completely fill below-grade areas and voids with material as indicated in the site civil specifications.
5. Clean, pack, and transport items indicated to be salvaged to the Owner.

02200 – Earthwork

1. Remove vegetation and strip topsoil within work limits. Protect trees and shrubs to remain from damage during construction operations.
2. Excavate to the depth required for structures and utilities. Remove all unsuitable materials. Should unsuitable materials be encountered under proposed structures, the Owner will engage the services of a certified geotech company to determine the course of action.
3. Backfill excavations with satisfactory soil material. Backfill foundations with drainage fill. Compact soil beneath structures and paving to a minimum of 95% of optimum dry density in accordance with AASHTO T99.

02513 – Asphalt Paving

1. Provide 2" asphalt base course (¾" aggregate size) and 1" finish course (½" aggregate size). Materials shall be NHDOT specifications, Section 401, Table 2.
2. Subbase: 18" deep. Shall be free of any organic materials, trash, and boulders over 12" in diameter. On-site material shall contain less than 40% fines (#200 sieve). Imported fill shall contain less than 30% fines.
3. Base: 12" deep. Material shall be gravel, NHDOT item 304.2, and 6" of crushed gravel, NHDOT item 304.3.
4. Compaction: Subbase and base materials shall be compacted in 12" lifts, to not less than 95% dry density in accordance with AASHATO T99.
5. Pavement markings: NHDOT standards, white, 4" wide.

02730 – Sanitary Sewerage

1. Provide a new sanitary septic system for the project in accordance with state and local standards.

02900 – Landscaping

1. Provide an allowance for trees, shrubs and flowers.

DIVISION 3 – CONCRETE

03310 – Concrete Work

1. All concrete construction to conform to ACI 318, "Building Code Requirements for Reinforced Concrete", latest edition.
2. Provide 3000 psi concrete for footings, foundation walls and slabs on grade (except where noted). Provide 4000 psi air entrained concrete for exterior pads.
3. Reinforcing bars: ASTM A615, Grade 60, deformed. Lap all continuous bars 48 diameters. Provide matching corner and intersection bars.
4. Concrete cover for reinforcing bars:
 - Footings: 3"
 - Foundation Walls: 1 1/2"
 - Slabs on Grade: 1 1/4" from top
 - Piers: 2" to ties
 - Pilasters: 1 1/2" to ties
5. Welded wire fabric: ASTM A185. Lap 1 1/2 squares at all joints and tie at 3' c/c.
6. Provide Fibermesh reinforcing in slabs on grade.
7. Provide 'Stego Wrap' Class A vapor retarder under slabs, 10 mil thickness, as manufactured by Stego Industries LLC. Provide all accessories for a complete system, including 'Stego Tape' and 'Stego Mastic'.
8. Admixture containing calcium chloride not allowed. For slabs which will receive moisture sensitive adhered flooring products, provide 'Barrier 1' admixture as manufactured by Barrier One Inc.
9. Sealer: One coat "Sher-Crete" clear as manufactured by Sherwin Williams Company.
10. Control joints:
 - Walls: 3/4" x 3/4" V strip, 30' c/c max.
11. Finish:
 - Interior slabs: steel trowel
 - Exterior slabs: light broom
 - Walls: form finish
12. Submittals: Concrete mix design certificates.

DIVISION 4 – MASONRY

04200 – Unit Masonry and Mortar

1. Normal Weight Concrete Masonry Units: Normal weight, ASTM C90 for bearing units, ASTM C129 for non-loadbearing units. Type 1, 1600 psi, 8" x 16" x width shown.
2. Light Weight Concrete Masonry Units: For non-loadbearing walls only; ASTM C331, 105 pcf, 800 psi, 8" x 16" x width shown.
3. Architectural Concrete Masonry Units: ground-faced and split faced as shown on the drawings.
4. Mortar: Type S, 1800 psi min: Portland cement Type I, ASTM C150; Hydrated Lime: Type S, ASTM C144; Aggregates: Well-graded sand, clean and dry, 10% passing No. 100 sieve; Water: Potable.

5. Grout: As per ASTM C476, 3000 psi, 8-10" slump: Portland cement Type I; Fine and Course Aggregates: Standard concrete type, ASTM C404, max 3/8", clean and well graded, free of contaminants. Water: Potable.
6. Joint reinforcement: Horizontal truss type, 9 gauge.
7. Through-wall flashing: Asphalt-copper fabric, 5 oz.
8. Control Joints: Pre-moulded PVC; H&B VS Series.
9. Cleaning Agent: Sure-Klean, VanaTrol, manufactured by ProSoCo Inc.
10. Loose Lintels: Hot-dipped galvanized steel.
11. Reinforcing Bar: Grade 60 steel, deformed.
12. Installation: As per the National Concrete Masonry Association.
13. Submittals: Product data, field mock-up panel, samples.

DIVISION 5 – METALS

05210 – Steel Joists

1. Provide open web steel joists with bridging, attached seats, and anchors.
2. Perform work in accordance with SJI Open Web Steel Joists.
3. Shop prime joists in accordance with SJI standards.
4. Provide A36 steel bearing plates and anchors for installation on existing foundation walls.
5. Adjust member spacing as required to accommodate piping.

05310 – Steel Decking

1. Provide Vulcraft acoustical roof deck over new steel roof joist system.
2. Provide pre-coated galvanized steel deck materials in accordance with ASTM A525, gauge as indicated.
3. Welding materials to conform to AWS D1.1. Weld washers to be mild steel, uncoated.
4. Provide deck accessories including metal closure strips, concrete stops and cover plates of 20 gauge galvanized steel.
5. Erect metal decking in accordance with SDI Design Manual for Form Decks.
6. Fasten deck to steel supports with fusion welds through weld washers.

DIVISION 6 – CARPENTRY

06100 – Rough Carpentry

1. Dimensional sawn lumber shall be NLGA grade #2 and better SPF, maximum moisture content 19%.
2. Manufactured lumber shall be by Weyerhaeuser as follows:

Beams and Headers:	LVL or PSL
Columns and Posts:	PSL
Rim Joists:	LSL
I Joists:	TJI
3. Provide 1/2" APA structural rated wall sheathing and 5/8" APA rated structural rated roof sheathing. Subfloor panels shall be 3/4" T&G "Advantech".
4. Provide pressure treated Southern Pine where in contact with concrete or roofing materials.
5. Flush-framed connections shall be metal beam or joist hangers, manufactured by Simpson Strong Tie Inc. or equal.
6. Provide DuPont "Tyvek" air infiltration barrier on all exterior wall surfaces scheduled to receive new siding.
7. Install rough carpentry work in accordance with the *Wood Frame Construction Manual* by the American Wood Council (ANSI/AF&PA WFCM, current edition) and *IBC 2009* Chapter 23. Provide fasteners in accordance with the *Manual* and *IBC* Code requirements.

8. Install Zip panel sheathing with tapes and accessories in strict accordance with manufacturer's instructions.

06150 – Finish Carpentry

1. Section includes: Exterior trim and porch ceilings (see section 07465 for Fiber-Cement Siding).
2. Porch ceiling material: Douglas Fir, 5/8" x 4", C+Btr, VG, E+CB, clear finish.
3. Trim and painted siding materials: Solid cellular PVC: Kleer or equal, field painted.
4. Installation: trim with Stainless steel nails spaced as per the manufacturer's written instructions.

06161 – Insulating Sheathing

1. Scope: Composite insulating structural sheathing for exterior walls.
2. Basis of design: Provide sheathing products as manufactured by Hunter Panels, Portland, ME.
3. Panels:
4. Fasteners: As recommended by the manufacturer.
5. Installation: In strict accordance with manufacturer's written instructions and Chapter 34 of the *IBC*. Insulating sheathing shall be structurally rated as shear and braced walls and shall have all panel edges solid blocked.
6. Warranty: 30 years.

06192 – Shop Fabricated Wood Trusses

1. Provide roof and floor trusses manufactured in accordance with ANSI/TPI 1- *National Design Standard for Metal Plate Connected Wood Truss Construction*.
2. Provide engineering by the truss manufacturer to comply with *IBC International Building Code* structural loads as amended by the *State of New Hampshire Building Code*. Designs shall be stamped by a licensed Structural Engineer registered in the State of New Hampshire.
3. Lumber materials shall be identified by grade mark, with a maximum moisture content of 7%.
4. Metal connector plates shall be manufactured by a TPI member plate Manufacturer and shall be not less than 20 gauge, ASTM A653/A653M, grade 33, with galvanized coating in accordance with ASTM A924/A924M, coating G60.
5. Provide trusses with live load deflection characteristics of less than L/360.
6. Install trusses in strict accordance with TPI and Manufacturer's standards.
7. Provide lateral bracing in accordance with the drawings.
8. Provide metal hurricane tie down clips at each roof truss bearing point: Simpson or equal.
9. Submittals: Truss design drawings, layout drawings, calculations.

06300 – Wood Treatment

1. Lumber and plywood indicated to be fire retardant shall be pressure treated with fire retardant chemicals manufactured by Koppers "Dricon FRT", or approved equal and shall conform to requirements of local authorities having jurisdiction. Treatment shall provide a Fire-Hazard Classification equal to 25 for flame spread, smoke developed and fuel contributed.

06400 – Architectural Woodwork

General

1. Scope: Interior trim and wood veneer cabinets and plastic laminate countertops
2. Architectural Woodwork to conform to AWS "Custom" standards.
3. Grades for transparent finish:
Lumber: Grade I.
Wood veneer: Grade A, bookmatched.
4. Grades for opaque finish:
Lumber: Grade II.

5. Composite woods:
 - MDF: ANSI A208.2, Grade MD
 - Particleboard: ANSI A208.1, Grade M2
 - Hardwood Plywood and Face Veneers: HPA HP-1.
6. High pressure laminate: NEMA LD 3. Adhesive: Resorcinol.
7. Thermoset Decorative Overlay: Melamine decorative paper complying with LMA SAT-1.

Interior Standing and Running Trim

1. Lumber:
 - Softwood Lumber: Douglas Fir, plain sawn, clear satin finish in accordance with 09900.
 - Hardwood Lumber: Red Oak, quartersawn, clear satin finish.
2. Panel Products:
 - Softwood Plywood: Douglas Fir, plain sawn, veneer core, clear satin finish.
 - Hardwood Plywood: Red Oak, quartersawn, clear satin finish.
 - High Pressure Decorative Laminate: Formica, Wilsonart, or equal.
3. Profiles:
 - Window and Door Jamb Casing: GWB returns
 - Window and Door Head Casing: GWB returns
 - Window Stool: 1x bullnose, projecting ¾" beyond apron on all three sides
 - Window Apron: none
 - Chair rail in Corridors
 - And Function Room: 1x3 with 1x2 bullnose cap and ¾" scotia apron
4. Casing joinery: Glued with biscuit or pocket screw attachment.

Architectural Cabinets

1. Scope: Wood veneer base and wall cabinets, plastic laminate countertops, closet shelving.
2. Lumber:
 - For exposed surfaces: Douglass Fir, plain sawn.
 - For semi-exposed and concealed surfaces: Birch, plain sawn.
3. Panel Products (Wood Veneer Cabinets)
 - For exposed surfaces: Hard White Maple faces, rift sawn, veneer core.
 - For semi-exposed and concealed surfaces: Birch, rotary sawn.
4. Cabinet Style: Frameless, full overlay.
5. Cabinet Hardware as per BHMA 159.9:
 - Frameless Concealed Hinges: B01602, 170 degree opening
 - Wire Pulls: Back mounted, 4" x 5/16" dia.
 - Shelf Rests: B04013
 - Drawer Slides: Side mounted, full extension, B05091
 - Grommets: 2 inch OD, plastic
 - Shelving Brackets and Standards: Knape and Vogt, heavy duty, clear anodized aluminum finish
 - Wall hung countertop brackets: Rakks aluminum, powder coat white
 - Locks CR Laurence Cabinet Lock
 - Finishes: BHMA 626
6. Countertops: HPDL, 1 1/8" particleboard core (water resistant where sinks are located) with exposed maple edge, chamfered. Provide ¾" x 4" plastic laminate back and side splash.
7. Wall-hung countertop brackets: mill finish aluminum as manufactured by Rakks Inc., EH series, spaced 32" c/c.
8. Shop finish: Conversion varnish, satin.
9. Submittals: Shop drawings, samples and product data.

Closet Shelving

1. Provide shelving as indicated on the drawings.
2. Material: ¾" Veneer Core plywood. Face and back veneer species: any Group 1 species, plain sliced, A-C INT APA, exterior glue, hardwood edge banded.
3. Finish: Conversion varnish, satin.

4. Provide brackets and standards as manufactured by Knape and Vogt, Grand Rapids, MI:
Regular Duty: 70/170 Series
Heavy Duty: 83/183 Series

DIVISION 7 – THERMAL AND MOISTURE PROTECTION

07110 – Foundation Waterproofing, Insulation, and Finish System

1. Provide "Horizon" Foundation system as manufactured by Tremco at Gym exposed foundation walls which support CMU bearing walls.
2. System components:
Waterproofing: "Tuff-N-Dri" liquid applied waterproofing membrane
Insulation: R10 "Thermopanel" rigid fiberglass board mechanically fastened to foundation
Finish: "Horizon Coat" spray-applied exterior finish on all exposed surfaces, matte
3. Warranty: 30 years.

07200 – Building Insulation

1. Provide building insulation as shown on the drawings meeting the criteria set forth in this section.
2. Fiberglass batts: Unfaced or Kraft faced as indicated, high-performance: ASTM 665: CertainTeed or equal.
3. Fiberglass sound attenuation batts: Unfaced: ASTM C665: CertainTeed or equal.
4. Thermal Closed Cavity Blowing Insulation: CertainTeed OPTIMA Loose Fiber Glass Insulation for Closed Cavity Applications. Fiber glass blowing insulation for use behind OPTIMA non-woven fabric in sidewalls, cathedral Ceilings, floored attics and other closed cavity applications. Complies with ASTM C 764; mineral fiber loose fill insulation Type 1:

Compression Filled Application: Sidewalls, Cathedral Ceilings and other closed cavities:

Thermal Resistance: R of 15
Density 1.8
Thickness: 3-12 inches (2 by 4)

Thermal Resistance: R of 23
Density 1.8
Thickness: 5-12 inches (2 by 6)

Sheet Retarder: CertainTeed MemBrain, polyimide film vapor retarder. Material has a permeance of 1 perm or less when tested to ASTM E 86, dry cup method and increases to greater than 10 perms using the wet cup method.

5. Mineral Fiber Insulation for Thermal Barrier: Glass or other inorganic fibers and resinous binders formed into flexible blankets, batts or rolls; ASTM C 665. Kraft faced type may be used to facilitate installation.
6. Extruded polystyrene: ASTM C 578, Type VII for under-slab conditions, Type IV for all other areas.
7. Polyisocyanurate: Faced, ASTM C 1289, Type II.
8. Provide moulded polystyrene insulation baffles to maintain minimum 2" ventilation space at eaves.
9. Provide sill seal insulation between top of foundation wall and wood plates.

07209 – Mineral Wool Insulation

1. Basis of Design: "RockWool Premium Plus" as manufactured by American Rockwool Manufacturing LLC, Plano, TX.
2. Wall Spray application: Flame Spread 0, Smoke Developed 5
 - a. Density: 4 pcf
 - b. R value: 4.14/inch

3. Loose Blow Attic: Flame Spread 0, Smoke Developed 0.
 - a. Density: 1.7 pcf
 - b. R value: 3.39/inch
4. Semi-Rigid mineral wool insulation for general purpose: ASTM C612, Type IVA, R4.2/inch, unfaced.
5. Submittals: Product data
6. Warranty: Manufacturer's standard.

07250 – Weather Barriers

1. Section includes weather barrier membrane, seam tape, flashing, and fasteners.
2. Basis of design: "Tyvek Commercial Wrap D" spunbonded polyolefin weather barrier, as manufactured by DuPont.
3. Accessories:
 - Seam Tape: 3" DuPont Tyvek tape
 - Fasteners: As produced by the manufacturer for the specific conditions
 - Sealants: Elastomeric polymer type, ASTM C920: DuPont Commercial Sealant
 - Adhesives: as recommended by the manufacturer
 - Primers: as recommended by the manufacturer
 - Flashing: As produced by the manufacturer for the specific conditions
4. Installation: As per manufacturers written instructions.

07270 - Fluid Applied Non Permeable Air Barrier Membrane

1. Basis of Design: "Air'Bloc 06WB as manufactured by Henry Company, El Segundo, CA.
2. Transition membrane for openings, corners and other transitions: HE200 AM metal Clad as manufactured by Henry.
3. Through-wall flashing membrane: Blueskin TWF as manufactured by Henry.
4. Provide primers and other accessories as produced by the manufacturer.
5. Installation: in strict accordance with manufacturer's written instructions and specifications.
6. Warranty: 10 Years.

07280 – Air Sealing

1. Provide air sealing to supplement and provide continuity of the main or primary air barrier assembly, including the bridging, sealing and/or filling of perimeter of building components and systems such as, but not limited to: door and window openings, crevices, roof-wall connections, mechanical and electrical penetrations in walls, floors and roofs, window and curtain wall, mullions, beam and column enclosures, and voids in walls.
2. Air seal at openings in walls, floors and roofs at mechanical and electrical penetrations, openings at each floor level in shafts or stairwells, and penetrations through construction enclosing compartmentalized areas involving both empty openings and openings containing penetrating item.
3. MATERIALS (materials are based on those produced by Dow Chemical Company):
 - A. CLASS A - Insulating air sealant: Polyurethane Foam: Two-component chemically-cured spray-applied polyurethane foam with the following characteristics:
 FROTH-PAK™ Foam Sealant.
 - B. Foamed-in-Place Sealant – General Purpose Type: single-component polyurethane sealant. Gun-applied and Straw-applied products, Thermal Value R3.5 per inch.
 GREATSTUFF PRO™ Gaps & Cracks Insulating Foam Sealant. Clean substrate per manufacturer's recommendations.
 - C. Foamed-in-Place Sealant – Low Foaming Pressure: single-component polyurethane sealant low expansion pressure specifically designed for window and door application. Gun-applied and Straw-applied products, Thermal Value R3.5 per inch.

GREAT STUFF PRO™ Window & Door Insulating Foam Sealant. Clean substrate per manufacturer's recommendations.

4. INSTALLATION

- A. Install materials in strict compliance with manufacturer's written installation instructions.
- B. Provide continuity with the air barrier systems by sealing the following areas within the construction and construction assemblies. Please note that these areas are typical in nature and does not limit the application of these products to these noted areas but any and all details within the construction that present similar air leakage characteristics should receive similar applications:
 - 1. Various roof locations including penetrations of all kinds and roof to fascia junctions.
 - 2. Window head, jamb and sill areas at cavity walls and framed walls.
 - 3. Various roof areas including sloped roof/wall junctions, penetrations of all kinds and roof/wall junctions.
 - 4. Junction of roof air/vapor barrier and wall air/vapor barrier.
 - 5. Junctions at mechanical equipment located on the roof.
 - 6. Provide reduced air leakage into and out of building(s) by sealing gaps, leaks and holes in interior and exterior construction
- C. Ensure continuity of air and vapor seal between wall and window and door frames in accordance with the requirements of CSA A440.4 Windows standard.
- D. Inspect roof perimeter for air leakage paths such as the fluted deck itself, truss and structural beam penetrations above and below the top of the wall, open mortar joints, and conduit and pipe penetrations. Use smoke tester kits to identify and locate leakage.

07311 – Asphalt Shingles

- 1. Provide laminated asphalt shingles with Class A fire rating and limited lifetime warranty: CertainTeed "Landmark Premium", or equal.
- 2. Provide membrane under all shingles: WR Grace "Ice and Water Shield" or equal.
- 3. Provide 5" .032" aluminum edge at eaves and rakes.
- 4. Provide .019" aluminum flashing at roof/wall intersections.
- 5. Provide continuous ridge ventilator: 'Shingle Vent II' by Air Vent or equal.
- 6. Install roof shingle valleys in the 'closed cut' method.
- 7. Follow manufacturer's written specifications and installation instructions.
- 8. Submittals: Samples, installation instructions.

07465 – Fiber-Cement Siding and Trim

- 1. Scope: Factory finished siding panels, soffit panels, and accessories and trim.
- 2. Provide products as produced by James Hardie, Allura, or equal complying with ASTM C1186, Type A, Grade II.
- 3. Provide products which have a smooth texture.
- 4. Factory finish: Factory primed and finished with 100 percent acrylic solid color.
- 5. Nailing: Stainless steel.
- 6. Install in strict accordance with manufacturer's written specifications and installation instructions.
- 7. Submittals: Product data, samples, installation methods.
- 8. Warranty: 50 year limited siding warranty, 15 year limited paint warranty.

07530 - Flexible Sheet Roofing System

- 1. Provide complete 60 mil reinforced TPO fully adhered roof membrane system as indicated.

2. Basis of Design: "Ultraply Platinum" TPO Roofing system as manufactured by Firestone Building Products LLC, Carmel, In.
3. The roofing system shall be installed by a roofing applicator authorized by the manufacturer.
4. Provide assembly having Underwriters Laboratories, Inc. (UL) Class A Fire Hazard Classification.
5. Insulation: Provide rigid polyisocyanurate roof deck insulation, 25 psi, as indicated on drawings and as manufactured by the roofing manufacturer, tapered where required.
6. Protection board: Dens-Deck as manufactured by Georgia Pacific.
7. Walkway pads: Provide walkway pads by the roofing manufacturer, adhered to the roof membrane, in locations shown.
8. Curb and Parapet Flashing: Same material as membrane, with encapsulated edge which eliminates need for seam sealing the flashing-to-roof splice; precut to 18 inches (457 mm) wide.
9. Miscellaneous flashings, sealers, sealants, termination bars: as produced by the roofing manufacturer.
10. Installation shall be in strict accordance with the manufacturer's written specifications and installation instructions.
11. Submittals:
 - a. Provide membrane manufacturer's printed data sufficient to show that all components of roofing system, including insulation and fasteners, comply with the specified requirements and with the membrane manufacturer's requirements and recommendations for the system type specified; include data for each product used in conjunction with roofing membrane.
 - b. Where UL or FM requirements are specified, provide documentation that shows that the roofing system to be installed is UL-Classified or FM-approved, as applicable; include data itemizing the components of the classified or approved system.
 - c. Installation Instructions: Provide manufacturer's instructions to installer, marked up to show exactly how all components will be installed; where instructions allow installation options, clearly indicate which option will be used.
12. Shop Drawings: Provide:
 - a. The roof membrane manufacturer's standard details customized for this project for all relevant conditions, including flashings, base tie-ins, roof edges, terminations, expansion joints, penetrations, and drains.
 - b. For tapered insulation, provide project-specific layout and dimensions for each board.
13. Warranty: Provide Firestone 30 year Platinum Red Shield Limited Warranty for wind uplift coverage for a wind speed of 90 mph.

07840 – Firestopping

1. Basis of Design: Provide complete firestop systems as manufactured by Hilti, Inc., Tulsa, OK.
2. Provide fire-tested firestop systems to maintain the integrity of fire-rated construction.
3. Materials to comply with UL and ASTM testing procedures for through-penetration firestop, fire barrier systems, and other Code-required systems.
4. Provide systems from a single manufacturer throughout the building.
5. Provide products and systems which meet F, T and W ratings as required.
6. Install materials in strict accordance with manufacturer's written specifications and instructions.
7. Warranty period: 2 years from the date of Substantial Completion.

07842 – Fire-Resistive Joint Systems

1. Section includes fire-resistive systems for floor-floor, floor-wall, wall-wall, and head-of-wall joints.
2. Provide products for each joint system as manufactured by Tremco Inc. USG, or equal.
3. System shall comply with the requirements of the applicable UL listing.
4. Install materials in strict accordance with manufacturer's written specifications and instructions.

07900 – Joint Sealers:

1. Scope: Provide joint sealers as indicated and as required at:

Exterior joints:

Between dissimilar materials, such as door and window frames and louvers
Control and expansion joints
Concrete and masonry
Thresholds

Interior joints:

Perimeters of exterior openings
Control and expansion joints
Control joints in wall and floor tile
Penetrations in acoustical and smoke barrier construction
Countertops
Masonry joints
Perimeters of door and window frames

2. At exterior and interior movement joints: Tremco "Dymeric 240" multi-component polyurethane based elastomeric.
At interior minimal movement joints and acoustical construction: Tremco "Acrylic Latex 834".
- 3.
5. At interior joints at ceramic tile and plumbing fixtures: Tremco "Tremsil 200" silicone rubber.
6. Provide back-up joint fillers, bond-breaker tape, primers and cleaners as recommended by the manufacturer.
7. Installation: As per ASTM C1193 and ASTM C919.

DIVISION 8 – DOORS AND WINDOWS

08110 – Steel Doors and Frames

1. Provide doors complying with the requirements with the Steel Door Institute Specifications SDI-100. Fire rated door assemblies shall comply with NFPA 80, and shall have been tested in accordance with ASTM E152.
2. Interior doors: SDI-100, Grade II, heavy duty, model 1, min 18 gauge faces, 14 gauge stiles and 16 gauge closures, with reinforced, stiffened and sound deadened core of polystyrene foam or impregnated Kraft honeycomb.
3. Exterior doors: SDI-100, Grade III, extra heavy duty, model 2, min 16 gauge galvanized faces, with an insulated core, max U value 0.24 in accordance with ASTM C236.
4. Exterior steel frames: 14 gauge hot-dipped galvanized cold-rolled steel, mitered, continuously welded and ground smooth.
5. Interior steel frames: 16 gauge cold-rolled steel, mitered, continuously welded and ground smooth. Provide 3 silencers on all non-weatherstripped frames.
6. Frame reinforcement: Provide 7 gauge hinge reinforcement, 12 gauge closer reinforcement, and 14 gauge lock reinforcement. Provide .042 in floor anchors.
7. Jamb anchors: Masonry: Adjustable strap or stirrup T-shaped. Stud Wall: designed to engage stud, welded to back of frames, .042 in thick min.
8. Finish: All doors and frames to be shop primed, field finished.
9. Submittals: Door and frame schedules, elevations, and installation details.

Install doors and frames in accordance with SDI-100, and NFPA 80 for fire-rated assemblies

08210 – Flush Wood Doors

1. Provide 5 ply bonded solid core doors with AWS 'A' Grade veneer, AWI 'Custom' grade.
2. Veneer: Hard White Maple, plain sliced, book matched, center balance matched.
3. Vertical edges: Same species as faces, no finger joints.

4. For doors scheduled to receive painted finish: 2 or 3 ply face panel construction each side over a solid core, edge bonded to stiles and rails. Provide AWS Custom Grade rotary cut birch face veneers. Provide close-grain hardwood for exposed edges and all other solid wood components.
5. Core: Provide AWS core types as follows:

Non fire rated:	PC (Grade 1-LD-2)
Non fire rated:	SCL (for doors with panic devices)
Fire rated:	FD as applicable for fire rating

Provide solid lumber rails in doors scheduled to receive closers.

6. Lite frames and louvers: Provide flush solid wood stops to match face species.
7. Finish: Factory finish, TR-6 catalyzed polyurethane, satin sheen, selected from manufacturer's standard clear finishes.
8. Submittals: Door schedules, elevations, samples.
9. Warranty: Life of installation.

08415 – Aluminum Entrances and Storefront

1. Provide aluminum entrances and thermal break aluminum storefront as shown on drawings.
2. Manufacturers: EFCO, Portal, Kawneer, or equal.
3. Storefront style: Aluminum framed. Aluminum members: ASTM B209, ASTM B221, ASTM B429.
4. Door style: Medium stile and rail.
5. Finish: Clear anodized.
6. Provide the following standard hardware as scheduled:
 - Rim touch bar panics
 - Latchset
 - Lever Handles
 - Removable mullions
 - Full mortise, 5 knuckle ball bearing brass hinges, non-removable pins
 - Surface mounted closers
 - Push-pull set on interior pairs of Vestibule doors
7. Installation shall be in strict accordance with manufacturer's written instructions and with AAMA (American Architectural Manufacturer's Association) publication "Installation of Windows and Doors in Commercial Buildings".
8. Warranty: 5 years from date of Substantial Completion.
9. Submittals: Product data, shop drawings, operation and maintenance data.

08430 – Automatic Door Openers

1. Scope: Provide automatic door openers at Main Entrance and Function Room entrance doors and vestibule doors.
2. Units are based on "HD Swing Type 4100" as manufactured by Horton Automatics. Unit is surface applied and shall be mounted on the inside of outswing doors.
3. Provide Basic Sensor System and guide rails as required.
4. Installation shall be by an installer certified by the manufacturer and AAADM in strict accordance with the manufacturer's written instructions.
5. Warranty: One year manufacturer's and distributor's warranty.
6. Submittals: Product data, installation instructions.

08540 – Fiberglass Windows

1. Basis of Design: Wood-Ultrex windows as manufactured by Marvin Windows and Doors, Fargo, ND.
2. Window types: Sliding.
3. Characteristics:

- | | |
|-----------------|--|
| Cladding color: | White |
| Frame and Sash: | Clear pine interior, field finished; Pultruded fiberglass exterior |
| Glass: | Low E II insulating with Argon |
| Lites: | Simulated Divided Lites with spacer bars |
| Hardware: | Satin nickel finish |
| Screen: | Aluminum, with charcoal aluminum wire |
4. Installation shall be in strict accordance with manufacturer's written instructions and with AAMA (American Architectural Manufacturer's Association) publication "Installation of Windows and Doors in Commercial Buildings". Provide perimeter flashing system with prefabricated corners and sill pan: Grace Vycor.
 5. Screens: aluminum mesh.
 6. Warranty: 10 years from date of Substantial Completion.
 7. Submittals: Elevations, installation details, RO, glazing type.

08710 – Finish Hardware

1. Hardware finishes to be US 26D, brushed chrome.
2. Provide hardware in compliance with NFPA 80 for fire rated openings.
3. Butts: 5 knuckle ball bearing, non-rising pins. Provide non-removable pins on exterior doors.
4. Continuous hinges: Provide Hager series 780 "Roton" continuous geared hinges at all exterior doors. Hinges to be Heavy Duty, concealed.
5. Locks: Schlage AL Series cylinder type at interior doors, 'Jupiter' lever trim. Provide Schlage L Series mortise type at exterior doors, '07' lever trim. Provide removable cores keyed as per Owner's requirements.
6. Door Closers: LCN 4040, mounted on less visible side of door.
7. Panic Devices: Von Duprin 22 Series. Provide fire exit devices where located on fire rated doors. Provide rim device where mullions are called for, surface mounted vertical rods elsewhere. Provide standard outside lever with keyed cylinder. Provide electric devices where electronic access is called for.
8. Push/Pull: Ives #8300 Push Plate, 4" x 16"; Ives #8190 Pull, 12". Bar type: Ives #9190 with 12" pull.
9. Kick Plates: .050" thick stainless steel, 10" high x door width minus 2".
10. Thresholds: Pemko, thermally broken aluminum at exterior doors, ADA compliant.
11. Weatherstripping: Sweeps: Pemko 18062 mounted on pull side; Weatherstripping: Pemko 303; Smoke Seal: Pemko S88.
12. Submittals: Product data, schedules.

08800 – Glass and Glazing

1. Section includes glazing for windows, doors, glazed openings, and mirrors. All glass to meet or exceed the requirements of Federal Specification DD-G-451.
 2. Products:
 - Annealed float glass: ASTM C1036, Type I, quality Q3; Class 1.
 - Heat strengthened glass: ASTM C1036 and ASTM C1048. Provide where required by Code.
 - Tempered glass: ASTM C1036 and ASTM C1048, permanently marked with certification label of the SGCC. Provide where required by Code.
 - Wired Glass: ASTM E152, UL labeled. Provide where required by Code.
 - Laminated glass: ASTM C1172, polyvinyl butyral interlayers, 6 mm total thickness, with permanent certification label. Provide where required by Code.
 - Fire Glass: Provide Pilkington Pyrostop as manufactured by Pilkington Group and distributed by Technical Glass Products, Snoqualmie, WA.
- | | |
|-------------------|------------------------------------|
| Thickness: | 7/8" |
| VT: | 88-75% |
| Fire Rating: | 1 Hour as per UL 263 and ASTM E119 |
| Glazing Compound: | As per manufacturer |

- Accessories and installation shall be in strict accordance with manufacturer's instructions and UL.
3. Insulating glass units to be 1" total thickness, with 1/4" thick inner and outer panes and 1/2" air space. Provide Low E coating on #3 surface: PPG "Solarban 60". Provide tinted units as noted. Units to be filled with Argon gas as per ASTM E774. Provide a primary polyisobutylene seal and secondary polysulfide or silicone seal.
 4. Fixed and sliding glass: Provide aluminum extrusions as manufactured by CR Laurence Co.

Fixed lites: Provide low-profile extruded aluminum U shapes at head and sill. Provide 1/8" gap at glass sides without framing or sealant.

Sliding lites: Provide CRL 'Masterroll Overhead Track System', complete with overhead track and fascia, hangers, rollers, and plastic guides at glass bottom.

Locks: Showcase type.

5. GLAZING SCHEDULE

Exterior doors	Low E insulating glass, tempered
Storefront	Low E insulating glass
Interior doors	1/4" float glass, tempered
Interior lites	1/4" float glass, tempered as required by Code

6. Warranty: Insulating glass units: 10 years.
7. Submittals: Product information.

DIVISION 9 – FINISHES

09250 – Gypsum Board and Metal Stud Partitions

1. Scope: Gypsum drywall, gypsum sheathing, non-loadbearing metal stud framing systems, and associated components and finishing systems.
2. Provide gypsum products from one of the following manufacturers: USG, Domtar, Gold Bond, Georgia Pacific, or approved equal. Products of this section are based on USG.
3. Gypsum Board: Shall be in compliance with ASTM C1396/C1396M, thickness as indicated.
4. Moisture Resistant Gypsum Board: ASTM C1396/C1396M, with a mold resistance score of 10 in accordance with ASTM D3274. Provide in all spaces subject to moisture.
5. Taping Compounds: 'Sheetrock Taping Compound' and 'Sheetrock Topping Compounds' as manufactured by USG, in compliance with ASTM C475/C475M
6. Trim and Accessories: Made of galvanized steel sheet. Provide aluminum trim in areas subject to moisture.
7. Provide metal framing products and accessories from one of the following manufacturers: Marino/Ware, Superior, Dietrich, Uni-Mast, or approved equal.
8. Unless noted otherwise, provide 25 gauge galvanized cold-formed steel framing members, ASTM A446. Install in accordance with Gypsum Association recommendations and ASTM C754. Maximum allowable lateral deflection of interior partition framing shall be L/240 at 5 psf. Provide deflection head tracks 2 1/2" deep, 20 ga min.
9. Install gypsum board in accordance with Gypsum Association publication GA-216 and ASTM C840. Provide level 2 finish at concealed non-fire-rated areas (tape set in compound at all joints; one coat of compound over fasteners), unprimed, level 4 finish at exposed areas (two coats compound over tape; three coats compound over fasteners), primed.
10. Provide control joints as recommended by the panel manufacturer. Provide where partition or ceiling spans exceed 30'.
11. 'Acoustical' partitions shall have stud tracks and bottom and top edges of gypsum board set in acoustical sealant. All wall penetrations to be sealed.
12. Provide thermafiber sound batts as indicated.

13. Fire rated partitions shall comply with the requirements of the specified UL tested assembly.
14. Submittals: Product data.

09511 – Acoustical Ceilings

1. Provide suspended acoustic panel ceiling systems with exposed grid.
2. System Standard:
 - Panels: Armstrong "Fine Fissured Second Look", 2'x4'x3/4", #1761, white
 - Grid: Armstrong 15/16" "Prelude ML"
 - Height: As indicated
3. System for Bathrooms, Locker Rooms:
 - Panels: Armstrong "Fine Fissured Ceramaguard", 2'x4'x5/8", #607, white
 - Grid: Armstrong 15/16" "AL Prelude Plus XL"
 - Height: As indicated
4. System for Kitchen:
 - Panels: Armstrong "Fine Fissured Ceramaguard", 2'x4'x5/8", #605, white
 - Grid: Armstrong 15/16" "AL Prelude Plus XL"
 - Height: As indicated
5. Warranty: 10 years.
6. Submittals: Product data, samples.

09652 – Rubber Tile Flooring

1. Provide rubber tile flooring and rubber base as indicated.
2. Rubber Tile: ASTM F-1344, Type IB, Grade 2. Basis of design: "Norament Grano" .14" thickness with hammered surface, as manufactured by Nora Systems, Salem, NH.
3. Rubber Base: FS SS-W-40, Type I; 4 inches high, 1/8 inch gage; with matching preformed external corner units. Style: Cove wall base with standard toe.
4. Adhesive and Filler/Wall Patch: As recommended by the base manufacturer for the type of substrate indicated.
5. Resilient Edge Strips: Homogeneous vinyl; not less than one inch wide, 1/8 inch gage; tapered bullnose edge. Color/Pattern: Matching floor tile.
6. Provide 5% of the installed flooring as attic stock.
7. Submittals: Product data, samples.

09704 – Epoxy Flooring

1. Provide epoxy flooring at Kitchen.
2. Flooring is based on Series 222 Deco-Tread Epoxy Flooring System as manufactured by Tnemec Company, Inc., Kansas City, MO.
3. Tnemec Series 222 Epoxy Flooring System to consist of the following:
 - a) Saturating Prime Coat: Tnemec Series 201 100% Solids Epoxy Primer/Sealer.
 - b) Intermediate Coat: Tnemec Series 222 100% Solids Epoxy with color quartz broadcast to rejection (times two).
 - c) Topcoat: Tnemec Series 222 clear epoxy.
4. Follow manufacturer's written specifications and installation instructions, including subfloor preparation and moisture testing and mitigation procedures.
5. Installer shall be approved by the manufacturer
6. Installed thickness: 1/8".
7. Provide 4" epoxy wall base.

09750 – Polyurethane Athletic Flooring

1. Provide athletic flooring in the Gym.
2. Basis of Design: "Pulastic Classic 110" as manufactured by Robbins Inc.

3. Warranty: 25 years.
4. Base: Rubber.
5. Gamelines: Perimeter: Track. Main Court: Basketball, volleyball. Side courts: Basketball.
6. Installation: By a company certified by the manufacturer.
7. Submittals: Product info, color samples.

09775 – Fiberglass Reinforced Plastic Panels

1. Provide FRP panels at Mechanical Rooms 8' high and at bathroom wet walls 4' high.
2. Provide products equal to Kemlite "Glasbord-P", pebbled finish.
3. Install panels by fully adhering to substrate with manufacturer's standard adhesives and trim strips. Provide mechanical fasteners where required by the manufacturer.
4. Follow manufacturer's written specifications and installation instructions, including subfloor preparation and moisture testing and mitigation procedures.

09900 – Painting

1. Provide best quality paint products of Sherwin Williams or approved equal. Provide primers by same manufacturer as finish coating at all bare surfaces. Prime coat is not needed on factory primed or previously painted surfaces. Apply paint in accordance with manufacturer's instructions, under conditions and at spreading rate recommended to achieve minimum dry mil thickness for system specified. Sand between coats. Provide coating of uniform color and sheen, without holidays, lap marks, streaks, sags, drips or show through of substrate. Apply additional coats as required if uniform finish is not achieved with specified number of coats. Owner will select colors from manufacturer's standards.
Water Based Polyurethane for wood floors: "Streetshoe 275 Satin" as manufactured by Basic Coatings, Inc.
2. Gypsum Board Surfaces: Fill minor defects with filler compound. Spot prime defects after repair
3. Galvanized Surfaces: Remove surface contamination and oils and wash with solvent. Apply coat of etching primer.
4. Concrete and Unit Masonry Surfaces Scheduled to Receive Paint Finish: Remove foreign matter. Remove oil and grease with solution of tri-sodium phosphate, rinse well and allow to dry.
5. Uncoated Steel and Iron Surfaces: Remove scale by wire brushing, sandblasting, and clean by washing with solvent. Apply treatment of phosphoric acid solution. Prime paint after repairs.
6. Shop Primed Steel Surfaces: Sand and scrape to remove loose primer and rust. Clean surfaces with solvent. Prime bare steel surfaces.
7. Interior Wood Items Scheduled to Receive Paint Finish: Wipe off dust and grit prior to priming. Seal knots, pitch streaks, and sappy sections with sealer. Fill nail holes and cracks after primer has dried; sand between coats.
8. Interior Wood Items Scheduled to Receive Transparent Finish: Wipe off dust and grit prior to sealing, seal knots, pitch streaks, and sappy sections with sealer. Fill nail holes and cracks after sealer has dried; sand lightly between coats.
9. Exterior Trim Scheduled to Receive Paint Finish: Remove dust, grit, and foreign matter. Seal knots, pitch streaks, and sappy sections. Fill nail holes with tinted exterior paintable caulking compound after prime coat has been applied.
10. Exterior Wood Porch Ceilings Scheduled to Receive Transparent Finish: Remove dust, grit, and foreign matter; seal knots, pitch streaks, and sappy sections with sealer. Fill nail holes with tinted exterior caulking compound after sealer has been applied.

PAINT SCHEDULE

The following paint schedule is based on Sherwin Williams paint products unless otherwise noted:

Application	Finish	System	Coats	
<u>INTERIOR:</u>				
Drywall	Eggshell	Primer:	ProMar 200 Zero VOC Latex Primer B28W2600	1
		Finish:	ProMar 200 Zero VOC Interior Latex Eg-Shel B20-2600	2
CMU	Epoxy	Primer:	PrepRite Block Filler B25W25	1
		Finish:	Pro Industrial Pre Cat Epoxy Eg-Shel K45-151	2
Metal	Semigloss	Primer:	Pro-Cryl Universal Primer B66-310	1
		Finish:	Pro Industrial 0 VOC Acrylic Semi-Gloss B66-650	2
Wood	Clear	Stain	Oil Based Penetrating Stain	1
		Primer:	Oil Based Polyurethane Clear Finish (reduced 25%)	1
		Finish:	Oil Based Polyurethane Clear Finish Satin	2
Concrete Floors		Primer:	ArmorSeal Tread-Plex Primer B90	1
		Finish:	ArmorSeal Tread-Plex B90	2
Roof Joists and Deck		Finish:	Pro Industrial Acrylic Dryfall Flat B42-80	1
<u>EXTERIOR:</u>				
PVC	Satin	Primer:	Exterior Latex Primer	1
		Finish:	A-100 Exterior Latex Satin A82	1
Wood Ceilings	Stain	Primer:	Woodscapes Exterior Acrylic Solid Color Stain (Factory)	1
		Finish:	Woodscapes Exterior Acrylic Solid Color Stain	1
Metal	Satin	Primer:	Pro Industrial Pro Cryl B66-310	1
		Finish:	Pro Industrial Eg-Shel B66-660	2

DIVISION 10 – SPECIALTIES10160 – Toilet Partitions

1. Provide solid plastic toilet partitions, floor mounted overhead rail braced, in configurations indicated, complete with anchors and hardware.
2. Units to be equal to products manufactured by Santana/Comtec/Capitol composed of HDPE material, 1" thick.
3. Door hardware, wall brackets and headrail shall be heavy-duty extruded aluminum 6463-T5 alloy. Headrail brackets shall be 20 gauge stainless steel.
4. Submittals: Product data, color samples, shop drawings showing plan and elevation layouts.
5. Warranty: 25 year manufacturer's material warranty.

10180 – Operable Partitions

1. Scope: Operable panel partition in the Function Room.
2. Basis of Design: Manually operated Acousti-Seal 932 as manufactured by Modernfold, Inc., Greenfield, IN., 3" thick x 48" wide.
3. Final closure: Hinged panel.
4. Panel skin: 1/2" MR GWB, STC 41, with reinforced vinyl face with woven backing.
5. Hinges: full leaf butt.
6. Suspension system and sound seals: manufacturer's standard.
7. Installation: in accordance with manufacturer and ASTM E557.
8. Warranty: manufacturer's standard.

10440 – Interior Signs

1. Provide interior panel signs with raised vinyl lettering, ADA compliant, at all new spaces.
2. All signs shall be 1/8" thick opaque acrylic sheet or MP plastic material with matte finish and square polished edges and corners. Signs shall be height and length required, with 1" high Helvetica Medium characters, machine engraved background into sign surface to create 1/32" raised characters and pictograms with Grade 2 braille for all text. Background characters shall be of contrasting colors as selected by the Owner. Where room numbers, names and/or International Symbol of Accessibility (ISA) are required, they shall be on the same sign.
3. Sign types:
 - Toilet Rooms: Identified as "Women" or "Men" or "Restroom", with 6"x6" International Symbol of Access where applicable. Provide pictograph symbol of men or women.
 - Mechanical, Utility, Storage Rooms: Identify with room names at all doors.
 - Building Entrance: Identify as "Entrance" with the ISA.
 - "Exit" signs to be provided at exit stairs and exit doors, with the ISA.Installation: Strictly follow manufacturer's written specifications and installation instructions. Signs shall be mounted 60" above floor to the center of the sign, within 18" of door latch jambs.
4. Submittals: Product data, shop drawings, samples.

10510 – Metal Lockers

1. Provide standard metal lockers with baked enamel finish as shown on the drawings.
2. Locker specifications:
 - Size: 12" x12" x72"
 - Body: Knock Down with 24 gauge solid body components
 - Frame: 16 gauge with 16 gauge horizontal cross member
 - Handle: seamless stainless steel
 - Hinges: 16 gauge continuous piano hinge
 - Hooks: 2 single and 1 double
 - Shelf: Provide one
 - Top: Flat
 - Curb: 4" high
3. Warranty: 2 years.
4. Submittals: Product data, shop drawings.

10522 – Fire Extinguishers

1. Provide seven (7 total – 2 in the Gym) UL listed 2A:10BC multipurpose dry chemical fire extinguisher and semi-recessed cabinet as shown. Unit is based on Larsen as follows:

Fire Extinguisher	#MP5
Cabinet	#2409-5R, Horizontal Duo door style, laminated safety glass, aluminum, rolled edge

10810 – Toilet Accessories

1. Toilet and shower accessories shall be manufactured by Bradley Co., or approved equal.

Provide the following:

Paper towel dispenser:	#250-15
Soap dispenser:	#6562
Toilet paper dispenser:	#5071
Mirror:	#780
Grab bars:	#812, safety grip finish

DIVISION 11 – EQUIPMENT

11660 – Gymnasium Equipment

1. Provide products as manufactured by Aalco Manufacturing, St Louis, MO.
2. Wall mounted fold-up backstops: Model 24-WS; provide (4).
3. Ceiling suspended forward fold backstops: Model 22-SF; provide (2).
4. Backboards, goals and nets: #501 backboard with protection pad, #28HS4 goal, net; provide (6).
5. Manual Hoist: Model K-500; provide (6).
6. Cushion panels: #440-602, 6' high; provide (12).
7. Volleyball: Model SLS – 99P complete package.
8. Warranty: manufacturer's standard.

DIVISION 12 – FURNISHINGS

12494 – Roller Shades

1. Scope: Window treatments for all windows except at the Gym.
2. Provide Sunscreen roller shades equal to Mechoshade as follows:
 Mounting: Surface mounted 'Slimline Drive-End Bracket' with fascia
 Configuration: Single solar shadecloth
 Fabric: ThermoVeil 3000 satin texture, visually translucent, dense twill-weave pattern at 2 percent open
3. Installation: In strict accordance with manufacturer's written instructions.
4. Warranty: Hardware and Shadecloth: 25 years. Installation: One year from date of substantial completion.
5. Submittals: Product data, samples.

12660 – Telescoping Seating

1. Scope: Wall-attached telescoping seating in the Gym.
2. Basis of design: "Maxam 26 Series Telescopic Gym Seat System" as manufactured by Hussey Seating Company, North Berwick, ME.
3. Characteristics:
 - a. Rise: 11 5/8"
 - b. Aisle: foot level
 - c. Seat type: 12" polymer
 - d. Rail type: self storing end rails.
 - e. Operation: manual

DIVISION 13 – SPECIAL CONSTRUCTION

13110 – Swimming Pools

1. Section includes shotcrete formed lap and therapy pools.
2. Work to conform to ACI 301 "Specifications for Structural Concrete" and ACI 506.2 "Specifications for Shotcrete".
3. Shotcrete materials shall be as per ASTM C150, ASTM C33, and Course-Aggregate Class 3S, compressive strength 3,500 psi at 28 days. Apply as per ACI 506.2.
4. Surface finish: As per ACI 596R, ¼" coat of shotcrete using ACR 506R, Grade 1, fine screened sand with wood-float finish.
5. Waterstops: PVC type, CE CRD-C 572.
6. Pool coping: Precast concrete "waterfall" profile, 5,000 psi minimum.
7. Pool deck drains: Fabricated PVC as manufactured by Stegmeir LLC. Extend around entire pool perimeters.
8. Pool equipment: Provide a complete pool water filtration, sanitizing system and heating system as manufactured by Pentair Inc.
9. Provide Levelor electronic water leveling system as manufactured by Zodiac, Inc.
10. Provide the following:
 - a. tiled lane markers with T's and Targets.
 - b. (3) access ladders and (1) access stair for each pool.
 - c. Racing lane dividers for the lap pool.
 - d. Pentair low-voltage lighting systems mounted in pool sidewalls.
 - e. (2) ADA compliant pool lifts: "Ranger 2" pool lift as manufactured by Aqua Creek Products.

DIVISION 14 – VERTICAL TRANSPORTATION

Not Used

JOB #	2020.26	THE HUB - MOULTONBOROUGH COMMUNITY-ACTIVITY-AQUATIC CENTRE						SD
	8/23/2022							
DIVISION		MTRL	EQPMT	SUB	LABOR	OTHER	TOTAL	
1	General Conditions	8,000	52,000	54,500	370,750	344,910	830,160	
2	Existing Conditions			86,800			86,800	
3	Concrete	197,670		84,505	145,375		427,550	
4	Masonry			980,225			980,225	
5	Steel	598,430	56,175	11,760	151,875		818,240	
6	Carpentry	161,240	42,000	139,315	150,000		492,555	
7	Thermal/Moisture			684,745			684,745	
8	Doors/Glass			458,050			458,050	
9	Finish			947,715			947,715	
10	Specialties			92,445			92,445	
11	Equipment			292,325			292,325	
12	Furnishings			88,550			88,550	
13	Special Construction			708,000			708,000	
14	Conveying Equipment			X			0	
21	Fire Suppression			411,870			411,870	
22	Plumbing			407,825			407,825	
23	HVAC			1,323,250			1,323,250	
26	Electrical			1,362,235			1,362,235	
27	Communications			see Div 26			0	
28	Electronic Safety/Security			see Div 26			0	
31	Earthwork			806,890			806,890	
32	Exterior Improvements			340,325			340,325	
33	Utilities			163,215			163,215	
34	Transportation			X			0	
35	Waterway/Marine			X			0	
41	Material Handling			X			0	
44	Pollution Control			X			0	
	SUBTOTAL	965,340	150,175	9,444,545	818,000	344,910	11,722,970	
5%	Overhead & Profit					586,150	586,150	
-1.50%	Volume Adjustment			not used		-175,845	-175,845	
	Complexity & Phasing			not used		0	0	
7.50%	Contingency			Concept cost contingency		879,225	879,225	
7.50%	Market & Inflation			Inflation to Fall 2023 job start & uncertain markets		879,225	879,225	
3%	Bonds & Insurance					351,690	351,690	
	TOTAL	965,340	150,175	9,444,545	818,000	2,865,355	\$14,243,415	
Conestco.								
	222 Mountain Road, Raymond ME 04071 ~ 207.627.4099 ph/fx						Opinions of Probable Cost ~ Construction Consulting ~ Value Engineering	

JOB #	2022.25		THE HUB - MOULTONBOROUGH COMMUNITY-ACTIVITY-AQUATIC CENTRE		SD					WORKSHEETS				(page 1)
Qty	X on	Units	Description	8/23/2022	Mtrl	Eqpmt	Subcon	Labor	Other	TOTAL	SECTN	DIVSN		
			Div 1 - General Conditions		0	0	0	0	0	0				
			Provated from backups attached		8,000	52,000	54,500	370,750	344,910	830,160	830,160	830,160		
			Div 2 - Existing Conditions		0	0	0	0	0	0				
					0	0	0	0	0	0				
x	x	x	See Div 31		0	0	0	0	0	0	0			
					0	0	0	0	0	0	0			
					0	0	0	0	0	0				
			Hazardous materials abatement		0	0	0	0	0	0				
75,000	cf	\$0.20	Building demolition (single or two story unclear)		0	0	15,000	0	0	15,000				
75	cy	\$250.00	Concrete foundation removal		0	0	18,750	0	0	18,750				
70	cy	\$250.00	Concrete slab on grade removal		0	0	17,500	0	0	17,500				
290	cy	\$45.00	Compacted granular backfill @ removed foundations		0	0	13,050	0	0	13,050				
25	15 cy	\$900.00	Cleanup & disposal		0	0	22,500	0	0	22,500	86,800	86,800		
			Total Div 2		0	0	86,800	0	0	86,800				
					0	0	0	0	0	0				
			Div 3 - Concrete		0	0	0	0	0	0				
					0	0	0	0	0	0				
345	\$128.75	cy ave	Frost foundations 85#/cy		44,420	0	0	0	0	44,420				
60	\$128.75	cy ave	Frost entry foundations 85#/cy		7,725	0	0	0	0	7,725				
10	\$122.00	cy	Column footings 65#/cy (exterior covered canopies & wood wall load bearing posts))		1,220	0	0	0	0	1,220				
10	\$131.00	cy	Column piers 125#/cy (exterior covered canopies & wood wall load bearing posts)		1,310	0	0	0	0	1,310				
30	\$122.00	cy	Wall footing @ interior cmu 45#/cy		3,660	0	0	0	0	3,660				
35	\$122.00	cy	Wall footing & c.i.p. stub wall @ load bearing wood stud 45#/cy		4,270	0	0	0	0	4,270				
cy	475	\$225.00	form material & labor		0	0	106,875	0	0	106,875	169,480			
			Slabs (3500 psi interior on grade/on deck & 4000 psi exterior on grade)		0	0	0	0	0	0				
270	\$126.00	cy	4" slab on grade typ 6x6#10 mesh Center-Aquatic (net pool areas)-Gym Storage		34,020	0	0	0	0	34,020				
160	\$126.00	cy	5" slab on grade 95#/cy Gymnasium		20,160	0	0	0	0	20,160				
25	\$131.00	cy	6" frost entry slabs 85#/cy		3,275	0	0	0	0	3,275				
12	\$126.00	cy	4" slab on deck 6x6#8 mesh		1,515	0	0	0	0	1,515				
500	\$1.75	sf	Equipment pads		875	0	0	0	0	875				
hrs	100	\$45.00	form material & labor		0	0	0	4,500	0	4,500				
1	days	\$1,650.00	concrete pumping		0	0	1,650	0	0	1,650				
5,750	ls	\$2.50	sawcutting		0	0	14,375	0	0	14,375				
31,760	sf	\$1.25	finish on grade interior		0	0	39,690	0	0	39,690				
1,320	sf	\$2.00	finish on grade exterior		0	0	2,640	0	0	2,640				
see Div 9 epoxy			textured finish add Aquatic deck surround		0	0	0	0	0	0				
1,200	sf	\$1.50	finish on deck interior		0	0	1,800	0	0	1,800	124,500			
			Stairs (3500 psi)		0	0	0	0	0	0				
1	\$115.00	cy	Concrete treads & landing Gym Storage stairs		115	0	0	0	0	115				
1	ls	\$1,350.00	finishing		0	0	1,350	0	0	1,350	1,465			
					0	0	0	0	0	0				
					0	0	0	0	0	0				
					0	0	0	0	0	0				
					0	0	0	0	0	0				
					0	0	0	0	0	0				
					0	0	0	0	0	0				
Conestogo.			222 Mountain Road, Raymond ME 04071 ~ 207.627.4099 phrxf		0	0	0	0	0	0				
							Opinions of Probable Cost ~ Construction Consulting ~ Value Engineering							

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JOB #	2022.25		THE HUB - MOULTONBOROUGH COMMUNITY-ACTIVITY-AQUATIC CENTRE			SD	WORKSHEETS					(page 4)	
Qty	X on	Units	Description	8/23/2022		Mtrl	Eqpmt	Subcon	Labor	Other	TOTAL	SECTN	DIVSN
			Div 6 - Carpentry			0		0	0		0		
						0		0	0		0		
						0		0	0		0		
14,310	\$5.00	sf	Pre-engineered flat bottom pitched roof trusses w/overhang Center roof typ			71,550		0	0		71,550		
750	\$0.80	bf	Roof exterior cupola 2 x framing & blocking			600		0	0		600		
1,000	\$0.80	bf	Roof 2 x overframing			800		0	0		800		
2,000	\$0.80	bf	Roof exterior canopy 2 x framing & blocking			1,600		0	0		1,600		
1,750	\$0.80	bf	Roof eave-gable perimeter framing & blocking & gable ladder framing			1,400		0	0		1,400		
580	\$37.50	shfs	Roof 5/8" sheathing Center			21,000		0	0		21,000		
15	\$37.50	shfs	Roof 5/8" sheathing Center cupola			565		0	0		565		
40	\$37.50	shfs	Roof 5/8" sheathing Center canopy overhangs			1,500		0	0		1,500		
1,500	\$5.75	bf	allow LVL-PSL beams-headers-columns-posts			8,625		0	0		8,625		
12,000	\$0.80	bf	Exterior walls load bearing 2 x 6 @ 16" o.c. FT			9,600		0	0		9,600		
240	\$65.00	shfs	Exterior Zip 1/2" wall sheathing w/2" rigid insulation face			15,600		0	0		15,600		
11,500	\$0.80	bf	Interior walls 2 x 6 load bearing (corridors & shear demisers) @ 16" o.c.			9,200		0	0		9,200		
1,750	\$0.80	bf	Interior walls 2 x 4 non-load bearing minor partitions @ 24" o.c. o.c.			1,400		0	0		1,400		
75	\$24.00	shfs	Interior shear walls 1/2" structural grade sheathing			1,800		0	0		1,800		
		excluded	Attic 2 x framed catwalk & 3/4" floor sheathing & handrails			0		0	0		0		
4,250	\$0.75	bf	Door & window header-block-shim			3,190		0	0		3,190		
3,000	\$0.75	bf	In wall blocking			2,250		0	0		2,250		
8	\$70.00	shfs	Electric panel & telephone backer boards FT			560		0	0		560		
hrs	3,000	\$50.00	labor			0		0	150,000		150,000		
hrs	300	\$140.00	equipment			0	42,000	0	0		42,000		
1	\$10,000	ls	Hardware			10,000		0	0		10,000	353,240	
						0		0	0		0		
						0		0	0		0		
						0		0	0		0		
980	sf		Exterior canopy soffit wood beadboard & trims			0		9,800	0		9,800		
165	lf		Exterior canopy eave & gable PVC trims			0		3,300	0		3,300		
150	lf		Exterior canopy portico header PVC trims			0		3,000	0		3,000		
70	vf		Exterior canopy fiberglass on steel support columns			0		8,750	0		8,750		
740	lf		Exterior main pitched roof eave & gable PVC trims			0		14,800	0		14,800		
			Interior			0		0	0		0		
420	sf		Stage raised platform & rampway 2 x subframe & 3/4" Advantech floor sheathing finish			0		4,200	0		4,200		
20	sf		Stage stairs closed tread			0		500	0		500		
200	lf		Window wood sill & stool assembly			0		5,000	0		5,000		
450	lf		Chair rail Function & Corridors			0		7,875	0		7,875		
225	lf		Closet shelving (Kitchen & major Storage)			0		9,000	0		9,000		
100	lf		Closet shelving (minor rooms)			0		2,500	0		2,500		
125	sf		FRP panel & trim @ non-cmu walls Janitorial & single stall Toilet wet walls 4' tall			0		2,500	0		2,500		
2,245	sf		FRP panel & trim Kitchen/Kitchen Storage & non-cmu Mechanical walls 8' tall			0		44,900	0		44,900	116,125	
						0		0	0		0		
						0		0	0		0		
						0		0	0		0		
						0		0	0		0		
						0		0	0		0		
						0		0	0		0		
						0		0	0		0		
Conestogo.			222 Mountain Road, Raymond ME 04071 ~ 207.627.4099 ph/fx			0		0	0		0		
													Opinions of Probable Cost - Construction Consulting - Value Engineering

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JOB #	2022.25	THE HUB - MOULTONBOROUGH COMMUNITY-ACTIVITY-AQUATIC CENTRE				SD		WORKSHEETS				(page 6)	
		8/23/2022											
Qty	X on	Units	Description		Mtrl	Eqpmt	Subcon	Labor	Other	TOTAL	SECTN	DIVSN	
			Div 7 - (cont.)		0		0	0	0	0			
			Membrane Roofing		0		0	0	0	0			
22,280	sf	\$3.25	TPO 60 mil gray membrane roofing		0		72,410	0		72,410			
22,280	sf	\$6.00	R40 rigid polyisocyanurate insulation		0		133,680	0		133,680			
500	sf	\$7.50	Crickets & tapers		0		3,750	0		3,750			
22,280	sf	\$1.25	1/2" roof protection board		0		27,850	0		27,850			
500	sf	\$15.00	Walkway pads		0		7,500	0		7,500			
275	lf	\$20.00	Change height & curb flashings		0		5,500	0		5,500			
765	lf	\$20.00	Eave perimeter drip-trim-flash		0		15,300	0		15,300			
1	ls		General project sheet metal & fabric flashings		0		0	0	0	0			
280	lf	\$40.00	Expansion joint cover assemblies @ flat & sloped roofs		0		11,200	0		11,200	277,190		
			Siding		0		0	0		0			
5,015	sf	\$7.50	Cement board clapboard siding & trims factory finished		0		37,615	0		37,615			
2,050	sf	\$6.50	Cement board vertical board panel siding & trims factory finished		0		13,325	0		13,325	50,940		
			Fire Stopping & Sealants		0		0	0		0			
1	ls	\$15,000.00	Project fire stop		0		15,000	0		15,000			
1	ls	\$10,000.00	Project caulk & seal		0		10,000	0		10,000	25,000		
			Total Div 7		0	0	684,745	0	0	684,745		684,745	
					0		0	0		0			
			Div 8 - Doors & Glass		0		0	0		0			
			Doors & Hardware		0		0	0		0			
5	ls	\$1,750.00	HM exterior galvanized doors & HM galvanized frames		0		8,750	0		8,750			
23	ls	\$1,425.00	HM interior doors & HM frames		0		32,775	0		32,775			
31	ls	\$1,150.00	Wood s.c. interior doors & HM frames		0		35,650	0		35,650			
8	ls	\$750.00	Wood s.c. interior closet folding doors & HM frames		0		6,000	0		6,000			
1	ls	\$75,000.00	Door hardware systems		0		75,000	0		75,000			
425	sf	\$125.00	Door panel tempered glazing		0		53,125	0		53,125			
10	sf	\$125.00	Door HM frame sidelite tempered glazing		0		1,250	0		1,250			
14	ls	\$150.00	Doors fire rated add		0		2,100	0		2,100			
2	set	\$3,250.00	ADA pushpaddle entry system		0		6,500	0		6,500			
3	ea	\$5,000.00	Security keycard door entry system		0		15,000	0		15,000			
1	ls	\$1,000.00	Access doors MEP		0		1,000	0		1,000	237,150		
			Storefronts		0		0	0		0			
4	ls	\$6,000.00	Exterior insulated tempered glazed storefront door & frame w/panic hardware & closer		0		24,000	0		24,000			
4	ls	\$3,000.00	Interior tempered glazed storefront door & frame w/panic hardware & closer		0		12,000	0		12,000			
30	sf	\$125.00	Exterior storefront entry door insulated tempered glazed transoms		0		3,750	0		3,750			
560	sf	\$125.00	Exterior storefront Aquatic insulated tempered thermally broken		0		70,000	0		70,000	109,750		
			Coiling Doors		0		0	0		0			
1	ea	\$2,750.00	Kitchen server stainless steel slat coiling door manual operations 4' x 4'		0		2,750	0		2,750	2,750		
			Windows		0		0	0		0			
1,155	sf	\$80.00	Exterior fiberglass insulated low e glazed windows		0		92,400	0		92,400			
50	sf	\$125.00	Interior tempered slide glass communicating windows Workroom-Program		0		6,250	0		6,250			
150	sf	\$65.00	Interior tempered fixed glass borrowed lights		0		9,750	0		9,750	108,400		
			Total Div 8		0	0	458,050	0	0	458,050		458,050	
					0		0	0		0			
Cones/co.			222 Mountain Road, Raymond ME 04071 ~ 207.627.4099 ph/fx				Options of Probable Cost ~ Construction Consulting ~ Value Engineering						

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JOB #	2022.25	THE HUB - MOULTONBOROUGH COMMUNITY-ACTIVITY-AQUATIC CENTRE				WORKSHEETS				(page 12)	
		8/23/2022									
Qnty	X on	Units	Description	Mtrl	Eqpmt	Subcon	Labor	Other	TOTAL	SECT'N	DIV'SN
			Div 31 - Earthwork	0		0	0		0		
				0		0	0		0		
			Building Pad Prep	0		0	0		0		
1,750	cy	\$20.00	Excavation for structure	0		35,000	0		35,000		
1,275	cy	\$50.00	Compacted backfill for structure	0		63,750	0		63,750		
220	cy	\$50.00	60" gravel @ frost entry slabs	0		11,000	0		11,000		
1,630	cy	\$50.00	12" gravel subslab	0		81,500	0		81,500		
	excluded		Gravity vent perforated pipe radon system	0		0	0		0		
1,060	lf	\$15.00	Foundation drains	0		15,900	0		15,900		
1,000	lf	\$15.00	Excavate & backfill interior utilities	0		15,000	0		15,000		
37,550	sf	\$0.35	Fine grading	0		13,145	0		13,145		
1,750	cy	\$7.50	Waste excess materials on site	0		13,125	0		13,125	248,420	
			Site Prep	0		0	0		0		
10	wks	\$2,500.00	Superintendence & safety	0		25,000	0		25,000		
1	ls	\$5,000.00	Traffic & pedestrian control	0		5,000	0		5,000		
1	ls	\$2,500.00	Signage & barriers	0		2,500	0		2,500		
2,000	lf	\$10.00	Perimeter fencing	0		20,000	0		20,000		
1,100	lf	\$4.00	Snow fence open excavations	0		4,400	0		4,400		
1	ea	\$2,750.00	Construction entrance	0		2,750	0		2,750		
1	ls	\$7,500.00	Dust control & surface water control	0		7,500	0		7,500		
1	ls	\$10,000.00	Erosion control	0		10,000	0		10,000		
2.25	acres	\$7,500.00	Tree removal & stump grub	0		16,500	0		16,500		
2,200	cy	\$7.50	Loam strip & stockpile	0		16,500	0		16,500		
9,820	sf	\$1.15	Paved surface removals & disposal	0		11,295	0		11,295		
1	ls	\$750.00	Protection of existing utilities to remain	0		750	0		750		
1	ls	\$6,500.00	Existing leach field & septic tank removal & disposal	0		6,500	0		6,500		
1	ea	\$1,000.00	Existing water well decommission & line cutting-capping	0		1,000	0		1,000		
2,500	cy	\$35.00	Structural fill @ building footprint to slab gravel subgrade	0		87,500	0		87,500		
5,000	cy	\$15.00	Site cuts & fills to balanced site	0		75,000	0		75,000		
	excluded		Unsuitable soils	0		0	0		0		
	excluded		Ledge removal & blasting	0		0	0		0		
120	hrs	\$500.00	Area equipment work to rough grade	0		60,000	0		60,000		
3,920	cy	\$45.00	18" gravel @ parking & roads	0		176,400	0		176,400		
170	cy	\$50.00	12" gravel @ walkways	0		8,500	0		8,500		
900	cy	\$20.00	Excavation & backfill exterior utilities	0		18,000	0		18,000		
300	cy	\$10.00	Haul excess materials	0		3,000	0		3,000	558,470	
			Total Div 31	0	0	806,890	0	0	806,890		806,890
				0		0	0		0		
				0		0	0		0		
				0		0	0		0		
				0		0	0		0		
				0		0	0		0		
				0		0	0		0		
				0		0	0		0		
				0		0	0		0		
				0		0	0		0		
Conestco.			222 Mountain Road, Raymond ME 04071 ~ 207.627.4099 ph/rx	0		0	0		0		Opinions of Probable Cost ~ Construction Consulting ~ Value Engineering

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HUB CENTER PROJECTED BUDGET 2023-2024

The HUB Community Center Estimated Annual Costs	FY 23-24
Description	
SALARIES & WAGES	
Aquatic Director	\$ 60,000
Part Time Cleaning Staff	\$ 30,160
Part Time Attendants (1)	\$ 15,000
Part Time Attendants (1)	\$ 15,000
Part Time Attendants (1)	\$ 15,000
TOTAL SALARY & WAGES	\$ 135,160
PERSONNEL ADMINISTRATION	
Health Insurance	
Dental Insurance	
Life, AD & D	
LTD	
Fica	\$ 8,380
Medicare	\$ 1,960
NH State Retirement	
Worker's Compensation	
TOTAL FRINGE BENEFITS	\$ 10,340
HUB OPERATING EXPENSES	
Aquatic Supplies	\$ 8,500
Pool Maintenance	\$ 23,000
Technology/Internet/Security System Maint.	\$ 7,432
Office Supplies	\$ 500
Program Supplies	\$ 5,000
Professional Development	\$ 1,000
Small Equipment	\$ 2,500
Septic Maintenance	\$ 3,000
Propane	\$ 78,000
Electricity	\$ 120,000
TOTAL OPERATING EXPENSES	\$ 248,932
TOTAL HUB EXPENSES BEFORE INCOME OFFSET	\$ 394,432
HUB ANTICIPATED NEW INCOME	\$ 125,000
HUB NET BUDGET WITH INCOME OFFSET	\$ 269,432
*These costs do not include any offsets for energy efficiency measures such as Solar or Heat Pumps. These numbers also do not include any offsets from costs of the current Function Hall and Recreation Department building.	



THE HUB

**Moultonborough Community
Activity & Aquatic Center**

Everyone has their reasons why they love Moultonborough

Whether you grew up here and Moultonborough is your forever home, or possibly you have returned to raise a family and are enjoying our great schools, you retired here, or visited friends here, or you vacationed here and you fell in love with the town - Moultonborough is a very special place to many and the proposed HUB Community Activity & Aquatic Center will be an incredible addition to our community.

The Friends of the Moultonborough Community Center (FOTMCC), an IRS 501(3)(c), is actively seeking donations, and pledges to offset the initial design, engineering and building costs, as well as ongoing costs for the HUB. All donations are tax deductible. All pledges will go into effect after an affirmative vote on the project at The Moultonborough Town Meeting, Thursday, May 11, 2023.

We have developed sponsorship opportunities for your consideration. Personal, business or organization sponsorships can become part of this exciting project, bringing our town and surrounding towns together and providing endless possibilities with a centralized Community, Activity and Aquatic Center.

Naming Sponsorships

Entire Building	\$3,000,000
Aquatic Center	\$250,000
Function Space	\$250,000
Multipurpose Room	\$250,000
Front Entrance Sign	\$60,000
Aquatic Center Furnishings	\$50,000
Adult Social Room Furnishings	\$50,000
Function Space Furnishings	\$25,000
Multipurpose Room - Center Court	\$25,000
Adult Social Room Furnishings	\$20,000
3 Flagpoles - American Flag, POW Flag, New Hampshire Flag	\$10,000 ea.
Game Room	\$10,000
Meeting Room	\$10,000
Makers/Crafters Room	\$10,000
Kitchenette	\$5,000
Armed Services Plaques	\$2,500
Multipurpose Room Banners	\$1,000 or \$500 depending on size. \$250 annually after initial investment.

Donor Levels

Donor Level and Supporter Name(s) to be memorialized on a permanent entrance plaque.

Titanium Supporter	\$50,000+
Platinum Supporter	\$10,000 - \$49,999
Gold Supporter	\$5,000 - \$9,999
Silver Supporter	\$1,000 - \$4,999
Bronze Supporter	\$100 - \$999

To donate, pledge, or to discuss sponsorship opportunities,
please email friendsofmborocc@gmail.com to start the conversation.

