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DIVISION 03 00 00. CONCRETE

03 00 00 - Concrete

Contractor shall review construction documents and provide labor and m concrete and foundations as required in said documents and as specified complying with all applicable building codes.

03 05 00 - Common Work Results for Concrete

All concrete work shall be designed on the basis of "Strength Design" in a 318 "Building Code Requirements for reinforced Concrete." Concrete work in accordance with ACI 301 "Specifications for Structural Concrete" and Recommended Practice for Selecting Proportions for Normal Weight Corslabs, patios, driveways, walls and foundations shall be constructed of a psi concrete, 28 day test, with a 4" minimum to 6" maximum slump maxin - 8%. No additional water shall be added to concrete after slump test is reshall be taken from every batch truck and tested for compressive strength Concrete should be a mix of high grade Portland cement, clean sand or gravel or crushed stone as coarse aggregate per ACI 530. Maximum aggravel or crushed stone as coarse aggregate per ACI 530. Maximum aggravel or crushed stone as coarse aggregate per ACI 530. Maximum aggravel or crushed stone as coarse aggregate per ACI 530. Maximum aggravel or crushed stone as coarse aggregate per ACI 530. Maximum aggravel or crushed stone as coarse aggregate per ACI 530. Maximum aggravel or crushed stone as coarse aggregate per ACI 530. Maximum aggravel or crushed stone as coarse aggregate per ACI 530. Maximum aggravel or crushed stone as coarse aggregate per ACI 530. Maximum aggravel or crushed stone as coarse aggregate per ACI 530. Maximum aggravel or crushed stone as coarse aggregate per ACI 530. Maximum aggravel or crushed stone as coarse aggregate per ACI 530. Maximum aggravel or crushed stone as coarse aggregate per ACI 530. Maximum aggravel or crushed stone as coarse aggregate per ACI 530. Maximum aggravel or crushed stone as coarse aggregate per ACI 530. Maximum aggravel or crushed stone as coarse aggregate per ACI 530. Maximum aggravel or crushed stone as coarse aggregate per ACI 530. Maximum aggravel or crushed stone as coarse aggregate per ACI 530. Maximum aggravel or crushed stone as coarse aggregate per ACI 530. Maximum aggravel or crushed stone as coarse aggregate per ACI 530.

03 10 00 - Concrete Forming and Accessories

Provide all labor, materials and equipment necessary for the completion of reinforced concrete called for on the plans. Concrete when deposited shoranging between a minimum of 50 degrees Fahrenheit and a maximum of Fahrenheit.

Construction of Forms - Construct wood forms of sound materia shape and dimensions, constructed tightly and of sufficient strengt forms together. Make joints and seams mortar tight. Install leake accordance with manufacturer's installation instructions.

Chamfered Corners - Unless otherwise noted, provide chamfered exposed corners. Provide 3/4 inch moldings in forms for all cham

Embedded Items - make provisions for sleeves, anchors, inserts, features.

Form Ties - Use form ties of sufficient strength and in sufficient quespreading of the forms. Place ties at least 1 inch away from the fit concrete. Do not use ties consisting of twisted wire loops. Leave when forms are stripped. Space all form ties equidistant and symboth vertically and horizontally.

Cleanouts and Access Panels - Provide removable cleanout sed at the bottom of all forms to permit inspection and effective cleaning and water material. Clean all forms and surfaces to receive concr

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sawdust, and other debris and thoroughly blow out with compress concrete is placed.

03 15 13 - Concrete Accessories

Provide 1/2" thick by 4" wide bituminous expansion joint material at all su adjoin raised slab, crawlspace or basement stem-wall CMU or poured for

03 21 00 - Reinforcing Steel

Reinforcing steel (rebar) shall be minimum ASTM A615, grade 40. All rein shall be as follows: #5 bars 25" minimum, #7 bars 35" minimum. All rebar shall be located 3" clear from bottom and side of footing and 2" clear from rebar (reinforcing steel) 4'-0" on center (OC). All reinforcement splices sh with ACI 318 for "Strength Design." All reinforcement steel shall be accur supported, and firmly tied in place with bar supports and spacers in accordant ACI 318.

03 22 00 - Welded Wire Fabric Reinforcing

Welded wire fabric shall conform to ASTM A105 and be located in the ce Install at slab on grade conditions.

03 30 00 - Footings

Center all footings on walls, piers, or columns above unless otherwise no rest on undisturbed virgin soil with minimum soil bearing allowable of 250 percent compaction, or 3/4" stone compacted in 12" lifts to 95 percent de Footings at building perimeter shall be a minimum of 12" below frost line with local building officials for frost line level) constructed of 3000 psi con rebar (reinforcing steel) continuous through footers. Provide #5 rebar (rei bars at all corners and intersections of footers, beams and walls. Each s 0", with a 90 degree bend. Footers shall bear on undisturbed soil and ke water. Underneath load-bearing walls and interior or exterior column foo within a 1' radius to 12"thick.

03 30 01 - Slab Foundations

Concrete floor slabs shall be constructed of 3000 psi concrete, 4" thick re 6" x 6" welded-wire mesh continuous and rebar (reinforcing steel) as per over well-compacted granular fill compacted in 12 inch lifts to 95 percent T-180 Proctor, and a 4 or 6 mil vapor barrier. Construction or control join slabs on grade so that the maximum area between joints shall be 400 sq that area is not more than twice the width. Provide smooth steel trowel fi areas and garage surfaces. Provide broom finish texture for all exterior s patio or porch slabs away from building at 1/4" of drop in elevation for ever garage slab, provide positive drainage and taper lip at garage/overhead of

03 30 02 - Poured Concrete Basement Walls

Poured walls shall be constructed of 3000 psi concrete with #5 rebar (reii 12" on center (OC) placed in a vertical grid. Thickness of walls shall be a 8'-0"high, 10"thick for 9'-0"high, 12"thick for 10'-0"high. Patch all voids an exceeding 3/8 inch in any direction. Provide appropriate waterproofing s exterior perimeter and install drainage as specified by manufacturers reco

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03 35 00 - Concrete Finishing

Repair of surface defects shall begin immediately after removal of form o foundation. Provide smooth steel trowel finish for all interior slab areas a Provide broom finish texture for all exterior slabs. Slope exterior patio or building at 1/4" of drop in elevation for every 1'-0" in distance. At garage drainage and taper lip at garage/overhead door. Patch all voids and depinch in any direction.

03 40 00 - Precast Concrete

Provide all labor, materials and equipment to provide concrete structures plans. Erect pre-cast concrete units and accurately install in place with he than adequate for the loads. At completion, units shall be plumb, level ar with angles and edges parallel with related building lines.

03 50 00 - Cast Decks and Underlayment

Install cementitious backer-board under ceramic tile, marble and stone fir edge as guide to score sheet's face with carbide tipped scoring knife and the score line. Large cutouts use a circular saw with carbide tipped blade

Floor Installation - Install over interior wood or concrete sub-floor structurally sound. Ensure the sub-floor is not damaged. Replace damaged boards. Make certain sub-floor is clean and flat. Exterior hardwood sub-floor should be at least 1 1/4" thick (5/8" minimum) structurally solid, movement free foundation. In addition, the space should not exceed 16" on center. In any case, the maximum allow deflection of your sub-floor may not exceed L/360 of the span. Stralign with plywood joints. Never allow all four corners of sheets to Apply a dry set mortar or modified thinset to sub-floor per manufactive recommendations. Fasten backer-board sheets with proper nails the entire surface. Keep the fasteners between 3/8" and 3/4" from from sheet corners. Provide expansion joints where required.

Countertop Installation - Ensure cabinets are level and secure. exterior grade plywood positioned across the wood cabinet. Spac supports is not to exceed 16" on center. So not align backer-boar Sheet ends and edges must be supported by perimeter framing. A or modified thinset to plywood per manufacturer's recommendatio board sheets with proper nails or screws every 8" over the entire s fasteners between 3/8" and 3/4" from sheet edges and 2" in from sexpansion joints where required.

Wall Installation - Ensure framing is structurally sound. Nominal minimum 20 gauge metal studs must be straight properly aligned maximum of 16" on center. In tub and shower enclosures, ensure adequately reinforced at the corners. Sheets may be installed ver Score and snap sheets to required sizes and make necessary cut and edges must be supported by a structural framing member or a areas, install a moisture barrier (such as 15 lb. Felt) between stud Install sheets 1/4" above floor, tub or shower pan. Fasten backer-l proper nails or screws every 8" over the entire surface. Keep the

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and 3/4" from sheet edges and 2" in from sheet corners. Set faste the surface, without overdriving. Provide expansion joints where r

03 54 00 - Cast Underlayment

Sub-floor shall be structurally sound. Clean sub-floor to remove mud, oil contaminating factors before the installation of the underlayment. Fill cra quick setting patching or caulking material. Allow joints to continue at the Application shall not begin until the building is enclosed, including roof, w other fenestrations.

Gypsum Underlayment - Place gypsum cement a minimum 1 inc sound deadening pad. Spread and screed gypsum cement to a s Contractor shall provide continuous ventilation and adequate heat moisture from the area until the gypsum cement is dry. Contractor mechanical ventilation if necessary. Under the above conditions, cement 7-10 days is usually adequate drying time. To test for dry 24 inch (609 mm by 609 mm) section of plastic or high density rub of the underlayment. After 48-72 hours, if no condensation occurs shall be considered dry. Perform dryness test 5-7 days after pour

Portland Cement Underlayment - Fill large cracks, holes and vo underlayment placement. Contraction and control joints must be underlayment. Mark their location for later saw cutting. Mix primer manufacturers recommendations. Apply an even coat removing a porous surfaces may require a second coat of primer once the firs seal the floor. Allow primer to dry to touch completely. Keep prime protected from abrasion. Mix cementitious underlayment per mar recommendations. Spread out using gauged spreader tool set to spiked roller to disperse air bubbles. Repeat mixing and pouring u complete. Use smoother for touchups. To avoid low spots between leading edge of previous pour before initial set and spread.

03 60 00 - Grouting

Concrete surfaces to receive grout shall be prepared by removing defect grease and other foreign matter to achieve sound, clean concrete surface

Grouting- Mix up grout per manufacturers recommendations. Use to spread the grout over a workable section of tile. Push the grout joints to force it down into the gaps. Grout all the joints except the expansion joints specifically along fixtures, between the floor and corners in between walls. Expansion joints will be sealed with cau process. Once the appropriate joints are packed with grout, scrap the surface of the tile with the grout float. Hold the float at a sharp diagonal strokes to keep from digging grout out of the joints. Clear with a damp sponge and a couple buckets of clean water. Wipe e surface of the tiles using a clean sponge in circular strokes. Once clean, make another pass parallel to the grout lines to shape the g Smooth the joints down a little below the surface of the tile. Clean the surface of the tile with a sponge or a soft rag. In 24 to 48 hours

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hardened, caulk using a clear tub/shower caulk or one in a color the in the areas that you allowed for your expansion joints and over jo because of movement. Specifically areas between floor tile and cafloor or wall tile and bathtub or shower; between floor and wall tile corner where two walls meet. Fill the joints completely then smoot rag or appropriate tool. Caulk around plumbing valves, sinks and f from water penetration. Glazed ceramic tile surfaces only require sealed which will provide an enhanced water and mildew resistant silicone or water-based grout sealer to all joints per manufacturer's minimum of 14 days after grout has been installed.

Nonshrink Grout - Lightly roughen concrete surface for maximun manufacturer's recommendations. Cover concrete areas with prot covering until ready to place grout. Align and level components to maintain in final position until grout placement is complete and acc for grout around bases and other spaces to be grouted. The tops one inch above the surfaces to be grouted. Place grout in accordant manufacturer's recommendations. Pour grout from one side only one inch above the plate on opposite side or said plate. Neatly trobase, tapered at an angle of 60 degrees.

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