ARCHITECTURAL GENERAL SPECIFICATIONS:

7.5 DOORS AND WINDOWS - DOOR HARDWARE:

PART 1 - GENERAL

1.01 SUMMARY

A. PROVIDE DOOR HARDWARE WHERE INDICATED.

1.02 SUBMITTALS

A. SHOP DRAWINGS: NONE REQUIRED UNLESS SUBMITTING FOR APPROVED EQUALS.
B. OPERATING AND MAINTENANCE INSTRUCTIONS: NONE REQUIRED UNLESS SUBMITTING FOR APPROVED EQUALS.

1.03 QUALITY ASSURANCE

A. COMPLY WITH GOVERNING CODES AND REGULATIONS. PROVIDE PRODUCTS OF ACCEPTABLE MANUFACTURERS, WHICH HAVE BEEN IN SATISFACTORY USE IN SIMILAR SERVICE FOR THREE YEARS. USE EXPERIENCED INSTALLERS. DELIVER, HANDLE, AND STORE MATERIALS IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.
B. QUALIFICATION OF SUPPLIER: THE FINISH HARDWARE SUPPLIER SHALL HAVE IN HIS EMPLOY AN AHC MEMBER OF THE AMERICAN SOCIETY OF ARCHITECTURAL HARDWARE CONSULTANTS.
C. HARDWARE FOR FIRE-RATED OPENINGS: NFPA 80 AND LOCAL REQUIREMENTS.
D. HANDICAPPED ACCESSIBILITY: ANSI A117.1, AADAG, AND LOCAL REQUIREMENTS.
E. MATERIALS AND APPLICATION: ANSI A156 SERIES STANDARDS.

PART 2 - PRODUCTS

2.01 MATERIALS

A. SCHEDULE: REFER TO DRAWING DOOR HARDWARE SCHEDULE. FURNISH IN AMOUNTS AND FINISH INDICATED OR AS REQUIRED FOR COMPLETE AND OPERABLE FACILITY.
B. MANUFACTURERS: PRODUCTS OF THE FOLLOWING MANUFACTURERS WILL BE CONSIDERED ACCEPTABLE PROVIDED PRODUCTS ARE OF EQUIVALENT WEIGHT, FUNCTION, MATERIALS, AND DESIGN. SUBMIT OTHERS FOR PRIOR APPROVAL BY OWNER.
1. CYLINDERS: SCHLAGE (NO SUBSTITUTES).
2. LOCKSETS: YALE, SCHLAGE (NO SUBSTITUTES).
3. STOREFRONT DEADBOLTS AND DEADLOCK LEVERS: ADAMS RITE (NO SUBSTITUTES).
4. PANIC DEVICES WITH ALARMS (BATTERY POWERED): DETEX, DORMA, CORBIN RUSSWIN, VON DUPRIN.
5. PANIC DEVICES WITHOUT ALARMS: YALE, DORMA, VON DUPRIN.
6. HINGES AND BUTTS: HAGER, SOSS, STANLEY, PBB.
7. CLOSERS: DORMA, HAGER, LCN, NORTON, READING, CAL ROYAL.
8. STOREFRONT PIVOTS: RIXON.
9. STOREFRONT PUSH/PULLS: EFCO, KAWNEER, VISTAWALL.
10. STOPS, BUMPERS, WEATHER-STRIPPING, SWEEPS, AND THRESHOLDS: PEMCO, ROCKWOOD, TRIMCO, REESE, NATIONAL GUARD, HAGER, SCHLEGEL.
11. LATCH GUARDS: LATCHGUARD, ROCKWOOD, HAGER.
12. KNOX BOX FOR FIRE EMERGENCY KEYS: AS REQUIRED AND APPROVED BY LOCAL GOVERNING AGENCY.

2.02 KEYING

A. EXTERIOR DOORS WITH REMOVABLE CORE LOCK CYLINDERS SHALL BE KEYED ALIKE. INCLUDE CONSTRUCTION KEYING AND CONTROL KEYING WITH REMOVABLE CORE CYLINDERS.
B. SUPPLY 2 CHANGE KEYS FOR EACH LOCK.

2.03 FASTENINGS

A. FURNISH ALL NECESSARY SCREWS, BOLTS, AND OTHER FASTENERS OF SUITABLE SIZE AND TYPE TO PROPERLY ANCHOR THE HARDWARE.
B. FURNISH FASTENINGS, WHERE NECESSARY, WITH EXPANSION SHIELDS, TOGGLE BOLTS, SEX BOLTS, AND OTHER ANCHORS, ACCORDING TO THE MATERIAL TO WHICH HARDWARE IS TO BE APPLIED AND THE RECOMMENDATIONS OF THE HARDWARE MANUFACTURER.
C. FURNISH FASTENINGS COMPATIBLE WITH BOTH HARDWARE AND SUBSTRATE MATERIAL AND IF EXPOSED, MATCHING HARDWARE FINISH.

PART 3 - EXECUTION

3.01 INSTALLATION

A. FOLLOW GUIDELINES OF DHI "RECOMMENDED LOCATIONS FOR BUILDERS HARDWARE" AND HARDWARE MANUFACTURER'S INSTRUCTIONS.
B. INSTALL MATERIALS AND SYSTEMS IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS AND APPROVED SUBMITTALS. INSTALL MATERIALS AND SYSTEMS IN PROPER RELATION WITH ADJACENT CONSTRUCTION AND WITH UNIFORM APPEARANCE. COORDINATE WITH WORK OF OTHER SECTIONS.
C. DRILL AND COUNTERSINK UNITS, WHICH ARE NOT FACTORY-PREPARED FOR ANCHORAGE FASTENERS. SPACE FASTENERS AND ANCHORS IN ACCORDANCE WITH INDUSTRY STANDARDS.
D. SET THRESHOLDS IN FULL BED OF BUTYL-RUBBER OR POLYISOBUTYLENE MASTIC SEALANT.
E. ADJUST OPERATION, CLEAN, AND PROTECT.

8.0 FINISHES - PORTLAND CEMENT STUCCO:

PART 1 - GENERAL

1.01 SUMMARY

A. PROVIDE PORTLAND CEMENT-BASED THREE COAT POLYMER MODIFIED STUCCO SYSTEM, COMPLETE.

1.02 SUBMITTALS

A. UPON REQUEST, SUBMIT MANUFACTURER'S WRITTEN SPECIFICATIONS, PROPORTION MIXES, AND INSTALLATION INSTRUCTIONS FOR FACTORY-PREPARED MATERIALS.

B. UPON REQUEST, SUBMIT SAMPLES OF COLORED FINISH-COAT PLASTER CONTAINING COLORING COMPOUND AND SPECIFIC AGGREGATE TO BE USED DURING PLASTERING. PROVIDE SAMPLE OF MANUFACTURER'S FULL RANGE OF TEXTURES AND COLORS FOR OWNER'S REVIEW, SELECTION AND APPROVAL.

C. SUBMIT WARRANTY SPECIFIED.

1.03 QUALITY ASSURANCE

A. COMPLY WITH GOVERNING CODES AND REGULATIONS. PROVIDE PRODUCTS OF ACCEPTABLE MANUFACTURERS WHICH HAVE BEEN IN SATISFACTORY USE IN SIMILAR SERVICE FOR FIVE YEARS. USE EXPERIENCED INSTALLERS. DELIVER, HANDLE, AND STORE MATERIALS IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.

B. STANDARDS: COMPLY WITH THE PROVISIONS OF THE FOLLOWING SPECIFICATIONS AND STANDARDS, EXCEPT AS OTHERWISE NOTED OR SPECIFIED, OR AS ACCEPTED OR DIRECTED BY THE ARCHITECT.
1. ASTM C91-12, STANDARD SPECIFICATION FOR MASONRY CEMENT
2. ASTM C150-12, STANDARD SPECIFICATION FOR PORTLAND CEMENT
3. ASTM C595-13, STANDARD SPECIFICATION FOR BLENDED HYDRAULIC CEMENTS
4. ASTM C847-12, STANDARD SPECIFICATION FOR METAL LATH
5. ASTM C897-05, STANDARD SPECIFICATION FOR AGGREGATES FOR JOB MIXED PORTLAND CEMENT-BASED PLASTER
6. ASTM C926-12A, STANDARD SPECIFICATION FOR APPLICATION OF PORTLAND CEMENT-BASED PLASTER
7. ASTM C932-06, STANDARD SPECIFICATION FOR SURFACE-APPLIED BONDING AGENTS FOR EXTERIOR PLASTERING
8. ASTM C979-10, STANDARD SPECIFICATION FOR PIGMENTS FOR INTEGRALLY COLORED CONCRETE
9. ASTM C1063-12, STANDARD SPECIFICATION FOR INSTALLATION OF LATHING AND FURRING TO RECEIVE INTERIOR AND EXTERIOR PORTLAND CEMENT-BASED PLASTER
10. ASTM C1328-12, STANDARD SPECIFICATION FOR PLASTIC (STUCCO) CEMENT
11. ACI 524-GUIDE TO PORTLAND CEMENT PLASTERING

C. WARRANTY: PROVIDE MANUFACTURER'S STANDARD FIRE YEAR WARRANTY.

8.0 FINISHES - PORTLAND CEMENT STUCCO (CONT.):

PART 2 - PRODUCTS

2.01 STUCCO SYSTEM MATERIALS
A. GENERAL: SYSTEM SHALL BE COMPATIBLE WITH SUBSTRATE AND PROJECT CONDITIONS. NOTIFY ARCHITECT IF CONDITIONS DEVIATE SUBSTANTIALLY FROM SYSTEM SPECIFIED.
B. STUCCO:
1. APPROVED MANUFACTURERS: STO SPECIFIED. EQUAL PRODUCTS BY DRYVIT OR BASF ARE ACCEPTABLE. (NO SUBSTITUTES).
2. SCRATCH AND BROWN COAT STUCCO:
a. PORTLAND CEMENT: "STOPOWERWALL", FACTORY PROPORTIONED, FIBER REINFORCED PORTLAND CEMENT BASED STUCCO FOR TROWEL OR PUMP APPLICATION, FIELD MIXED WITH GRADED SAND (ASTM C897-12 OR ASTM C144-11) AND WATER.
b. PORTLAND CEMENT POLYMER MODIFIED: "STOPOWERWALL", FACTORY PROPORTIONED, FIBER REINFORCED PORTLAND CEMENT BASED STUCCO, FIELD MIXED WITH GRADED SAND (ASTM C897-12 OR ASTM C144-11), WATER AND STO BONDING AGENT AND ADMIXTURE.
C. PRIMER:
1. ACRYLIC BASED TINTED SAND: "STO PRIMER SAND".
2. ACRYLIC BASED PRIMER/SEALER FOR HIGH PH SURFACES: "STO HOT PRIME".
D. FINISH COAT STUCCO (AS SELECTED):
1. STO ELASTOMERIC OR SILICONE ENHANCED ELASTOMERIC TEXTURED WALL FINISH.
2. STO ACRYLIC OR SILICONE ENHANCED ACRYLIC TEXTURED WALL FINISH.
3. TEXTURE AND COLORS: TO BE SELECTED BY OWNER FROM MANUFACTURER'S FULL RANGE OF SAMPLES.

2.02 GENERAL MATERIAL REQUIREMENTS
A. CEMENT (TYPE AS REQUIRED FOR SPECIFIED STUCCO SYSTEM):
1. PORTLAND CEMENT: (WHITE OR GREY) ASTM C 150 TYPE N; ASTM C 1157 TYPE N
2. BLENDED CEMENT: ASTM C595-13 TYPE N.
3. MASONRY CEMENT: ASTM C91-12 TYPE N.
4. PLASTIC CEMENT: ASTM C1328-12 TYPE N.
5. COLORED MASONRY CEMENT: CONFORM TO ASTM C91-12 TYPE N.
B. AGGREGATE:
1. BASE COATS: ASTM C897-05 OR ASTM C144-11, NATURAL OR MANUFACTURED SAND.
2. FINISH COAT: NATURAL OR MANUFACTURED SAND GRADED TO PASS THE NO. 16 MESH SIEVE, LIGHT COLORED.
C. WATER: CLEAN, POTABLE AND FREE FROM IMPURITIES.
D. ADMIXTURES:
1. FIBERS: SIZES AS RECOMMEND BY STUCCO MANUFACTURER, MEETING THE REQUIREMENTS OF ASTM C1116-10A.
2. INTEGRAL BONDING AGENT: ACRYLIC ADMIXTURE AS MANUFACTURED BY STO FOR STOPOWERWALL SCRATCH AND BROWN STUCCO.
3. THE USE OF ANTI-FREEZE COMPOUNDS OR OTHER ADDITIVES IS PROHIBITED.
E. SURFACE-APPLIED BONDING AGENT: ASTM C932-06, NON-OXIDIZING, NON-CRYSTALLIZING, NON-REEMULSIFIABLE MATERIAL.
F. COLORING COMPOUNDS:
1. ASTM C979-10 MINERAL OXIDE PIGMENT.
2. USE COLORING COMPOUND AS PREPARED BY FACTORY CERTIFYING COMPLIANCE TO PRODUCT STANDARD AND DEMONSTRATING NO EFFECT ON SETTING AND HARDENING OF PLASTER MIXTURE WHEN USED WITHIN RECOMMENDED DOSAGE RANGE. DO NOT USE CARBON BLACK OR LAMPBLACK OR ORGANIC PIGMENTS.

2.03 SUBSTRATE MATERIALS
A. METAL LATH:
1. MANUFACTURERS: AMICO OR APPROVED EQUAL.
2. MINIMUM 2.5 LB. PER SQ. YD. SELF-FURRED G60 GALVANIZED STEEL DIAMOND MESH METAL LATH IN COMPLIANCE WITH ASTM C847-12.
3. MINIMUM NO. 17 GAUGE 1.5 INCH SELF-FURRED GALVANIZED STEEL WOVEN WIRE FABRIC IN COMPLIANCE WITH ASTM C1032-06.
B. MECHANICAL FASTENERS:
1. GENERAL: FORM OF PULL-OUT, WITHDRAWAL AND SPACING OF ATTACHMENT SHALL HAVE CAPACITY TO PROVIDE BUILDING CODE COMPLIANCE FOR PROJECT WIND LOAD DESIGN CRITERIA. PROVIDE FASTENING SCHEDULES AND COMPLIANCE REPORTS UPON REQUEST.
2. APPROPRIATE NON-CORRODING FASTENERS, DEPENDING ON SUBSTRATE CONDITIONS:
a. WOOD FRAMING: MINIMUM 11 GAUGE, 7/16 INCH DIAMETER HEAD GALVANIZED ROOFING NAILS WITH MINIMUM 3/4 INCH PENETRATION INTO STUDS OR MINIMUM #8 TYPE S WAFER HEAD FULLY THREADED CORROSION RESISTANT SCREWS WITH MINIMUM 3/4 INCH PENETRATION INTO STUDS. INSTALLATION BY PNEUMATIC EQUIPMENT METHODS SHALL BE IN ACCORDANCE WITH FASTENER MANUFACTURER'S RECOMMENDATIONS.
b. STEEL FRAMING: MINIMUM #8 TYPE S OR S-12 WAFER HEAD FULLY THREADED CORROSION RESISTANT SCREWS WITH MINIMUM 3/8 INCH PENETRATION INTO STUDS.
3. TIE WIRE: 18 GAUGE GALVANIZED AND ANNEALED LOW-CARBON STEEL IN COMPLIANCE WITH ASTM A641-09A WITH CLASS I COATING.
C. REINFORCEMENT ACCESSORIES:
1. MANUFACTURERS: AMICO OR APPROVED EQUAL.
2. WEED SCREED, CASING BEAD, CORNER BEAD, CORNER LATH, EXPANSION AND CONTROL JOINT ACCESSORIES. ALL ACCESSORIES SHALL MEET THE REQUIREMENTS OF ASTM C1063-06 AND ITS REFERENCED DOCUMENTS.
a. PVC PLASTIC IN COMPLIANCE WITH ASTM D1784-11, CELL CLASSIFICATION 13244C.
b. ZINC IN COMPLIANCE WITH ASTM B69-13.
c. GALVANIZED METAL IN COMPLIANCE WITH ASTM A653-11 WITH G60 COATING.
3. ALL ACCESSORIES SHALL HAVE PERFORATED OR EXPANDED FLANGES AND SHALL BE DESIGNED WITH GROUNDS FOR THE SPECIFIC THICKNESS OF STUCCO.
D. WEATHER BARRIERS, INSULATION AND SEALANTS (WHERE INDICATED):
1. WEATHER BARRIERS: (TO COMPLY WITH O'REILLY AUTO PARTS REQUIREMENTS).
2. INSULATION: RIGID BOARD TYPE, (TO COMPLY WITH O'REILLY AUTO PARTS REQUIREMENTS).
3. JOINT SEALANTS: (TO COMPLY WITH O'REILLY AUTO PARTS REQUIREMENTS).
4. BUILDING PAPERS: 30 LB. BUILDING FELT.
5. INSTALL SYSTEM PER MANUFACTURER'S RECOMMENDATIONS.

2.04 MIXES
A. MIXING
1. GENERAL
a. SIZE MIXER TO PRODUCE BATCHES THAT WILL BE APPLIED WITHIN MAXIMUM OF 1½ HOURS AFTER MIXING.
b. ACCURATELY PROPORTION MATERIALS FOR INITIAL PLASTER MIXTURE USING MEASURING DEVICES OF KNOWN VOLUME. SHOVELS OF SAND CAN BE USED AFTER MIXER IS CALIBRATED WITH KNOWN VOLUMES OF MATERIALS, INCLUDING WATER.
c. USE DAMP, LOOSE SAND.
d. ADD PIGMENTS OR OTHER SPECIFIED ADMIXTURES TO BATCH IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
e. RETEMPERING OF BASE-COAT CEMENT PLASTER IS PERMITTED ONE TIME ONLY AFTER INITIAL MIXING. PLASTER NOT USED WITHIN 1 1/2 HOURS OF INITIAL MIXING SHALL BE DISCARDED.
f. RETEMPERING OF FINISH-COAT CEMENT PLASTER IS NOT PERMITTED.
2. MECHANICAL MIXING
a. MIX EACH BATCH SEPARATELY; DOUBLE BATCHING WITH SINGLE BATCH DISCHARGE SHALL NOT BE PERMITTED. KEEP MIX RATIO CONSISTENT FROM BATCH TO BATCH.
b. MAINTAIN MIXER IN CLEAN CONDITION BEFORE, DURING, AND AFTER PLASTER PREPARATION. REMOVE PARTIALLY SET AND HARDENED PLASTER FROM MIXER DRUM BEFORE NEXT BATCH. IF MIXER HAS BEEN PREVIOUSLY USED IN PREPARING GYPSUM PLASTER, THOROUGHLY CLEAN PRIOR TO USE TO PREPARE CEMENT PLASTER.
c. MAINTAIN MIXER IN CONTINUOUS OPERATION WHILE CHARGING MIXER. ADD WATER TO BRING PLASTER TO DESIRED CONSISTENCY. CONTINUE MIXING FOR 3 TO 5 MINUTES AFTER ALL INGREDIENTS HAVE BEEN ADDED TO THE MIXER. USE ONLY THE MINIMUM AMOUNT OF WATER NECESSARY FOR A WORKABLE MIX. USE OF EXCESS WATER IS DETRIMENTAL TO PERFORMANCE.
d. MIX FACTORY-PREPARED PLASTER IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS
3. HAND MIXING
a. HAND MIXING SHALL BE ALLOWED ONLY WHEN AUTHORIZED BY ARCHITECT FOR SMALL BATCHES.
b. PROVIDE WATERPROOF PROTECTION AROUND MIXING TUB AND WATER BARRELS WHEN MIXING INSIDE THE BUILDING.
B. MIX PROPORTIONS
1. SCRATCH AND BROWN COAT STUCCO:
a. SCRATCH COAT: MIX 4 PARTS BY VOLUME OF SAND TO 1 - 94 LB. BAG SCRATCH AND BROWN COAT STUCCO MIX AND 4 TO 6.5 GALLONS OF CLEAN WATER.
b. BROWN COAT: MIX 5 PARTS BY VOLUME OF SAND TO 1 - 94 LB. BAG SCRATCH AND BROWN COAT STUCCO MIX AND 4 TO 6.5 GALLONS OF CLEAN WATER.
c. ADD 1/2 OF THE REQUIRED WATER AND ½ OF THE SAND. WHILE SAND AND WATER ARE MIXING ADD ONE BAG OF SCRATCH AND BROWN COAT STUCCO MIX IN A PADDLE TYPE MORTAR MIXER. THEN ADD THE REST OF THE SAND AND SUFFICIENT WATER TO ACHIEVE A UNIFORM MIX OF WORKABLE CONSISTENCY.
d. ADMIXTURES: ADD 1 PART INTEGRAL BONDING AGENT OF POLYMER MODIFIED ADMIXTURE WITH 3 PARTS WATER BY VOLUME TO DILUTE IN A CLEAN MIXING PAIL AND MIXING WITH A HIGH SPEED ELECTRIC DRILL MIXER. FOLLOW MANUFACTURER'S RECOMMENDATION FOR NORMAL MIX RATIO PROCEDURES, EXCEPT USE DILUTED ADMIXTURE IN LIEU OF WATER IN SCRATCH AND BROWN COAT MIX.
2. PRIMER: MIX WITH A CLEAN, RUST FREE HIGH SPEED MIXER TO A UNIFORM CONSISTENCY PER MANUFACTURER'S RECOMMENDATIONS.

8.0 FINISHES - PORTLAND CEMENT STUCCO (CONT.):

3. FINISH COAT: MIX FACTORY PROPORTIONED FINISH COAT MATERIAL PER MANUFACTURER'S RECOMMENDATIONS WITH A CLEAN, RUST FREE HIGH SPEED MIXER TO A UNIFORM CONSISTENCY. A SMALL AMOUNT OF WATER MAY BE ADDED TO ADJUST WORKABILITY. LIMIT ADDITION OF WATER TO AMOUNT NEEDED TO ACHIEVE THE FINISH TEXTURE.

PART 3 - EXECUTION

3.01 EXAMINATION
A. STRUCTURAL (WIND AND AXIAL LOADS): SUBSTRATE MAXIMUM ALLOWABLE DEFLECTION, NORMAL TO THE PLANE OF THE WALL, SHALL BE L/360.
B. VERIFY THAT SUBSTRATES TO RECEIVE STUCCO CONFORM TO THE REQUIREMENTS OF ASTM C926-12A. INSPECT SURFACES FOR CONTAMINATION, SURFACE ABSORPTION, CHALKINESS, CRACKS, DAMAGE, DETERIORATION, AND MOISTURE DAMAGE. INSPECT SHEATHING APPLICATION FOR COMPLIANCE WITH APPLICABLE STANDARDS.
C. VERIFY THAT AREAS AND CONDITIONS UNDER WHICH WORK IS TO BE PERFORMED PERMIT PROPER AND TIMELY COMPLETION OF THE WORK.
D. NOTIFY ARCHITECT IF CONDITIONS ARE NOT ACCEPTABLE PRIOR TO COMMENCING WORK.

3.02 SURFACE PREPARATION
A. CONCRETE (CAST-IN-PLACE) SUBSTRATES: PROVIDE A SURFACE THAT IS SLIGHTLY SCARIFIED, WATER ABSORBENT, STRAIGHT AND TRUE TO LINE AND PLANE. REMOVE FORM TIES AND TRIM PROJECTING CONCRETE SO IT IS EVEN WITH THE PLANE OF THE WALL. REMOVE FORM RELEASE AGENTS BY WASHING WITH A TRISODIUM PHOSPHATE DETERGENT AND RINSING WITH CLEAN WATER. ESTABLISH SURFACE PROFILE BY SANDBLASTING, WATER BLASTING, WIRE BRUSHING, CHIPPING OR OTHER APPROPRIATE MEANS. REMOVE ALL DUST, DIRT, GREASE, LAITANCE OR OTHER BOND INHIBITING MATERIAL. APPLY ONE UNIFORM COAT OF BONDING AGENT BY BRUSH OR ROLLER PER MANUFACTURER'S RECOMMENDATIONS
B. CONCRETE MASONRY UNITS SUBSTRATES: REMOVE PROJECTING JOINT MORTAR SO IT IS EVEN WITH PLANE OF THE WALL. REMOVE SURFACE CONTAMINATES SUCH AS EFFLORESCENCE, EXISTING WALL PAINT OR OTHER BOND INHIBITING MATERIAL BY SANDBLASTING, WATER BLASTING, WIRE BRUSHING, CHIPPING OR OTHER APPROPRIATE MEANS. APPLY ONE UNIFORM COAT OF BONDING AGENT BY BRUSH OR ROLLER PER MANUFACTURER'S RECOMMENDATIONS.
C. CONCRETE AND CONCRETE MASONRY UNIT SUBSTRATES: WHERE BOND INHIBITING MATERIAL CANNOT BE REMOVED, WHERE CONCRETE OR MASONRY SURFACE IRREGULARITIES ARE SUCH THAT MORE THAN ½ INCH OF STUCCO MUST BE APPLIED, OR WHEN THE SURFACE IS TOO DENSE OR NON-ABSORBENT TO RECEIVE THE STUCCO, INSTALL FURRED OR SELF-FURRED LATH.

3.03 PROJECT CONDITIONS
A. COLD WEATHER REQUIREMENTS: MAINTAIN AMBIENT AND SURFACE TEMPERATURES ABOVE 40°F DURING APPLICATION AND DRYING PERIOD OF WATERPROOFING/AIR BARRIER. MAINTAIN AMBIENT AND SURFACE TEMPERATURES ABOVE 40°F DURING APPLICATION AND FOR 24 HOURS AFTER SET OF STUCCO. PROVIDE SUPPLEMENTARY HEAT FOR INSTALLATION IN TEMPERATURES LESS THAN 40°F SUCH THAT TEMPERATURES ARE MAINTAINED. PREVENT CONCENTRATION OF HEAT ON UNCURED STUCCO AND VENT FUMES AND OTHER PRODUCTS OF COMBUSTION TO THE OUTSIDE TO PREVENT CONTACT WITH STUCCO.
B. HOT WEATHER CONDITIONS. PREVENT UNEVEN OR EXCESSIVE EVAPORATION OF MOISTURE FROM STUCCO DURING HOT, DRY OR WINDY WEATHER. PROVIDE SPECIAL MEASURES TO PROPERLY MOIST CURE THE STUCCO.
1. USE DAMP LOOSE SAND.
2. USE COOL WATER FOR MIX WATER.
3. PRE-DAMPEN MASONRY WALLS PRIOR TO THE APPLICATION OF THE SCRATCH COAT.
4. PREVENT THE STUCCO FROM DRYING OUT BY COVERING WITH A PLASTIC SHEET, OR MOIST CURE FOR THE FIRST 3 TO 5 DAYS
C. VENTILATION:
1. PROVIDE VENTILATION FOR DRYING OF INSTALLED CEMENT PLASTER.
2. COVER ALL WALL OPENINGS WITH PLASTIC FILM WHEN BUILDING IS SUBJECT TO HOT, DRY WINDS.
D. PROTECTION:
1. PREVENT EXCESS INTERIOR HUMIDITY DURING AND AFTER CONSTRUCTION.
2. PROTECT ADJACENT FINISHED SURFACES INSTALLED PRIOR TO PLASTERING, BY COVERING WITH PLASTIC SHEETS, NON-STAINING KRAFT PAPER, REMOVABLE TYPE MASKING TAPE, NON-STAINING PETROLEUM JELLY, OR OTHER APPROPRIATE MEANS.
3. MAINTAIN PROTECTION IN PLACE UNTIL COMPLETION OF STUCCO.

3.04 GENERAL INSTALLATION REQUIREMENTS
A. INSTALL PLASTER IN ACCORDANCE WITH THE REQUIREMENTS OF ASTM C926-12A FOR THE APPLICATION OF THREE COAT CEMENT STUCCO OVER PROJECT SUBSTRATE CONDITIONS.
B. MOISTURE CONTROL: PREVENT ACCUMULATION OF WATER INTO OR BEHIND STUCCO, EITHER BY CONDENSATION OR LEAKAGE, BY PROVIDING CORROSION RESISTANT FLASHING, AIR LEAKAGE PREVENTION, VAPOR DIFFUSION AND CONDENSATION SYSTEMS.
C. GRADE CONDITIONS: DO NOT INSTALL STUCCO BELOW GRADE OR ON SURFACES SUBJECT TO CONTINUOUS OR INTERMITTENT WATER IMMERSION OR HYDROSTATIC PRESSURE. PROVIDE MINIMUM 4 INCH CLEARANCE ABOVE EARTH GRADE AND MINIMUM 2 INCH CLEARANCE ABOVE FINISHED GRADE OF PAVEMENT AND/OR SIDEWALKS.
D. SLOPED SURFACES: DO NOT INSTALL STUCCO ON WEATHER EXPOSED HORIZONTAL SURFACES. SLOPE STUCCO 1:2 MINIMUM AT HORIZONTAL REVEALS.
E. JOINTS:
1. PROVIDE TWO PIECE EXPANSION JOINTS (OR BACK-TO-BACK CASING BEADS) IN STUCCO SYSTEM WHERE BUILDING MOVEMENT IS ANTICIPATED AT CHANGES IN SUBSTRATE CONDITIONS OF SUPPORTING CONSTRUCTION, BUILDING EXPANSION JOINTS, INSTALLED OVER DISSIMILAR CONSTRUCTION, AT CHANGES IN BUILDING HEIGHT, AT FLOOR LINES, COLUMNS, AND CANTILEVERED AREAS.
2. PROVIDE ONE PIECE EXPANSION/CONTROL JOINTS EVERY 144 SQ. FT. FOR SHEATHING SUBSTRATE APPLICATIONS AND 250 SQ. FT. FOR CONCRETE OR MASONRY SUBSTRATE APPLICATIONS. DO NOT EXCEED LENGTH TO WIDTH RATIO OF 2.5:1 IN EXPANSION JOINT LAYOUT AND DO NOT EXCEED MORE THAN 18 FEET IN ANY DIRECTION WITHOUT AN EXPANSION JOINT.
3. PROVIDE ONE PIECE EXPANSION/CONTROL JOINTS AT THROUGH WALL OPENINGS, DOORS AND WINDOW PENETRATIONS.
4. CUT AND WIRE LATH TO THE EXPANSION/CONTROL JOINT ACCESSORY SO LATH IS DISCONTINUOUS BENEATH THE ACCESSORY. AT EXPANSION JOINTS, BACK WITH AIR BARRIER MEMBRANE AT SHEATHING SUBSTRATE APPLICATIONS.
5. INSTALL CORNER BEAD AT OUTSIDE CORNERS AND CORNER LATH AT INSIDE CORNERS. INSTALL FULL ACCESSORY PIECES WHERE POSSIBLE AND AVOID SMALL PIECES. SEAL ADJOINING PIECES BY EMBEDDING ENDS IN SEALANT. ABUT HORIZONTAL INTO VERTICAL JOINT ACCESSORIES. ATTACH AT NO MORE THAN 7 INCHES ON CENTER INTO SUBSTRATE WITH APPROPRIATE FASTENERS.
6. PROVIDE APPROPRIATE ACCESSORIES AT STUCCO TERMINATIONS AND JOINTS.
7. PROVIDE APPROPRIATE SEALANT AT STUCCO TERMINATIONS.
F. LATH:
1. DIAMOND MESH METAL LATH:
a. GENERAL: INSTALL METAL LATH WITH THE LONG DIMENSION AT RIGHT ANGLES TO STRUCTURAL FRAMING. TERMINATE LATH AT EXPANSION JOINTS. DO NOT INSTALL CONTINUOUSLY BENEATH JOINTS.
b. SEAMS/OVERLAPS: OVERLAP SIDE SEAMS MINIMUM 1/2 INCH AND END SEAMS MINIMUM 1 INCH. STAGGER END SEAMS. OVERLAP CASING BEADS AND EXPANSION JOINTS MINIMUM 1 INCH OVER NARROW WING ACCESSORIES, MINIMUM 2 INCHES OVER EXPANDED FLANGE ACCESSORIES. DO NOT INSTALL LATH CONTINUOUSLY BENEATH EXPANSION JOINTS.
c. ATTACHMENT: FASTEN SECURELY INTO SUBSTRATE WITH APPROPRIATE FASTENERS AT 7 INCHES ON CENTER HORIZONTALLY. WIRE TIE AT NO MORE THAN 9 INCHES ON CENTER AT SIDE LAPS, ACCESSORY OVERLAPS, AND WHERE END LAPS OCCUR BETWEEN SUPPORTS.
2. WOVEN WIRE FABRIC LATH: FOLLOW INSTALLATION REQUIREMENTS FOR METAL LATH EXCEPT OVERLAP ALL SEAMS BY ONE MESH MINIMUM.
3. PAPER-BACKED LATH: FOLLOW INSTALLATION REQUIREMENTS FOR METAL LATH. LAP LATH OVER LATH, NOT PAPER TO LATH OVERLAP. FOR HORIZONTAL OVERLAPS THE PAPER BACKING MUST LAP SHINGLE STYLE BEHIND THE LATH TO LATH OVERLAP.

3.05 INSTALLATION
A. INSTALLATION OVER CAST-IN-PLACE CONCRETE OR CONCRETE MASONRY UNITS:
1. BONDING AGENT: INSTALL PER MANUFACTURER'S RECOMMENDATIONS.
2. WEEP SCREED INSTALLATION: INSTALL FOUNDATION WEEP SCREED AT THE BASE OF THE WALL.
3. CASING BEADS AND JOINTS: INSTALL AS SPECIFIED.
4. SCRATCH COAT: APPLY STUCCO WITH SUFFICIENT PRESSURE TO ENSURE INTIMATE CONTACT WITH SUBSTRATE AND COMPLETE COVERAGE TO AN APPROXIMATE THICKNESS OF 1/4 INCH. SCORE THE STUCCO UPON COMPLETION OF EACH PANEL IN PREPARATION FOR A SECOND COAT. SCORE HORIZONTALLY.
5. BROWN COAT: AS SOON AS FIRST COAT IS FIRM ENOUGH TO RECEIVE THE SECOND COAT WITHOUT DAMAGE, APPLY THE SECOND COAT. ALTERNATIVELY, MOIST CURE THE FIRST COAT UP TO 48 HOURS AND DAMPEN THE SCRATCHED SURFACE WITH WATER IMMEDIATELY BEFORE APPLYING THE SECOND COAT. APPLY THE SECOND COAT WITH SUFFICIENT PRESSURE TO ENSURE INTIMATE CONTACT WITH THE FIRST COAT TO AN APPROXIMATE THICKNESS OF 1/8 TO 1/4 INCH AND AS NEEDED TO BRING THE STUCCO TO THE DESIRED THICKNESS. USE A ROD OR STRAIGHT EDGE TO BRING THE SURFACE TO A TRUE, EVEN PLANE. FILL DEPRESSIONS IN PLANE WITH STUCCO. FINAL THICKNESS OF STUCCO SHALL NOT EXCEED 1/2 INCH.
6. AFTER THE STUCCO HAS LOST SUFFICIENT MOISTURE SO THAT THE SURFACE SHEEN HAS DISAPPEARED, FLOAT THE SURFACE LIGHTLY WITH A DARBY OR WOOD FLOAT TO DENSIFY THE SURFACE AND TO PROVIDE A SMOOTH, EVEN SURFACE. FLOAT BEFORE THE STUCCO BECOMES SO RIGID THAT IT CANNOT BE MOVED BENEATH THE FLOAT.

8.0 FINISHES - PORTLAND CEMENT STUCCO (CONT.):

7. MOISTURE CURE AFTER THE STUCCO HAS SET BY LIGHTLY FOGGING THE SURFACE FOR AT LEAST 48 HOURS. FOG AS FREQUENTLY AS REQUIRED DURING THE 48 HOUR PERIOD TO PREVENT LOSS OF MOISTURE FROM THE STUCCO. AVOID ERODING THE STUCCO SURFACE WITH EXCESS MOISTURE. IF RELATIVE HUMIDITY EXCEEDS 75% THE FREQUENCY OF MOIST-CURING CAN BE DIMINISHED.
B. PRIMER INSTALLATION:
1. ACRYLIC BASED PRIMER/SEALER FOR HIGH PH SURFACES: MOIST CURE STUCCO FOR A MINIMUM OF 48 HOURS. APPLY PRIMER EVENLY WITH BRUSH, ROLLER OR PROPER SPRAY EQUIPMENT OVER THE CLEAN, DRY STUCCO, AND ALLOW TO DRY BEFORE APPLYING FINISH.
2. ACRYLIC BASED TINTED SAND: MOIST CURE STUCCO FOR A MINIMUM OF 48 HOURS. WAIT UNTIL STUCCO IS 28 DAYS OLD OR THE PH LEVEL OF THE SURFACE IS BELOW 10 BEFORE APPLYING PRIMER AND ALLOW TO DRY BEFORE APPLYING FINISH.
C. FINISH COAT INSTALLATION:
1. APPLY SELECTED FINISH DIRECTLY OVER THE STUCCO WHEN DRY. APPLY FINISH BY SPRAYING OR TOWELING WITH A STAINLESS STEEL TROWEL, DEPENDING ON THE FINISH SPECIFIED. FOLLOW THESE GENERAL RULES FOR APPLICATION OF FINISH.
a. ALLOW PRIMED STUCCO WALL SURFACE TO DRY MINIMUM 28 DAYS.
b. AVOID APPLICATION IN DIRECT SUNLIGHT.
c. APPLY FINISH IN A CONTINUOUS APPLICATION, AND WORK A WET EDGE TOWARDS THE UNFINISHED WALL AREA. WORK TO AN ARCHITECTURAL BREAK IN THE WALL BEFORE STOPPING TO AVOID COLD JOINTS.
d. WEATHER CONDITIONS AFFECT APPLICATION AND DRYING TIME. HOT OR DRY CONDITIONS LIMIT WORKING TIME AND ACCELERATE DRYING. ADJUSTMENT IN THE SCHEDULING OF WORK MAY BE REQUIRED TO ACHIEVE DESIRED RESULTS. COOL OR DAMP CONDITIONS EXTEND WORKING TIME AND RETARD DRYING AND MAY REQUIRE ADDED MEASURES OF PROTECTION AGAINST WIND, DUST, DIRT, RAIN AND FREEZING. ADJUST WORK SCHEDULE AND PROVIDE PROTECTION.
e. FLOAT ROLLED TEXTURE FINISHES WITH A PLASTIC FLOAT TO ACHIEVE DESIRED TEXTURE.
f. DO NOT INSTALL SEPARATE BATCHES FOR FINISH SIDE-BY-SIDE.
g. DO NOT APPLY FINISH INTO OR OVER JOINTS AND ACCESSORIES. APPLY FINISH TO OUTSIDE FACE OF WALL ONLY.
h. DO NOT APPLY FINISH OVER IRREGULAR OF UNPREPARED SURFACES, OR SURFACES NOT IN COMPLIANCE WITH THE REQUIREMENTS OF THE PROJECT SPECIFICATIONS.
D. STUCCO THICKNESS:
1. APPLICATION TO CONCRETE OR CONCRETE MASONRY UNIT SUBSTRATES WITHOUT LATH: STUCCO THICKNESS SHALL BE 3/4 INCH APPLIED IN THREE COATS.
2. APPLICATION TO METAL LATH:
a. WOVEN WIRE FABRIC LATH: STUCCO THICKNESS SHALL BE 3/4 INCH APPLIED IN THREE COATS.
b. GALVANIZED DIAMOND MESH METAL LATH (MINIMUM 2.5 LB. PER SQ. YD): STUCCO THICKNESS SHALL BE 3/4 INCH TO 7/8 INCH APPLIED IN THREE COATS.
3. THICKNESS SHALL BE UNIFORM THROUGHOUT THE WALL AREA.
E. TOLERANCE: COMPLETE PLASTER WORK SUCH THAT THE DEVIATION FROM TRUE PLANE (EXCLUSIVE OF TEXTURE) IS NO GREATER THAN 1/4 IN. AS MEASURED FROM LINE OF A 10-FT STRAIGHTEDGE PLACED AT ANY LOCATION ON SURFACE.
F. JOINT SEALANTS: INSTALL APPROPRIATE SEALANTS AROUND JOINTS, OPENING AND PENETRATIONS PER MANUFACTURER'S RECOMMENDATIONS.

3.06 ADJUSTING AND CLEANING
A. PATCHING:
1. POINT-UP PLASTER AROUND TRIM AND OTHER LOCATIONS WHERE PLASTER ABUTS DISSIMILAR MATERIALS.
2. REMOVE DEFECTIVE AND DAMAGED PLASTER BY CUTTING IT OUT.
3. REMOVE BY CUTTING OUT STAINED AND DISCOLORED FINISH-COAT PLASTER SCHEDULED TO REMAIN NATURAL AND UNPAINTED.
4. REPLACE REMOVED PLASTER USING PLASTER WITH SAME COMPOSITION AND BROUGHT TO DESIRED TEXTURE AND COLOR CONSISTENT WITH SURROUNDING AREA.
B. CLEANING:
1. REMOVE PROTECTIVE MATERIALS MASKING ADJACENT SURFACES.
2. REMOVE STAINS THAT AFFECT UNIFORMITY OF PLASTER FINISH.
3. USE CLEANING METHODS APPROVED IN ADVANCE BY THE ARCHITECT.
C. COLOR UNIFORMITY: TO CORRECT NON-UNIFORM COLOR THROUGHOUT THE FIELD OF THE PLASTER, FOG COAT SPRAY ENTIRE FINISH-COAT SURFACE PER MANUFACTURER'S RECOMMENDATIONS. FOG COATS SHALL CONSIST OF FINISH-COAT MATERIALS, EXCEPT AGGREGATE, SPRAY APPLIED TO ENTIRE FINISH-COAT SURFACE ON DISCOLORED ELEVATIONS IDENTIFIED BY THE OWNER OR ARCHITECT.

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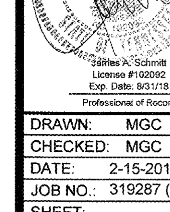

FEB 15 2018
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