

SECTION 0160 - MATERIAL AND EQUIPMENT

PART 1 - GENERAL

- 1.01 SOURCE LIMITATIONS: TO THE FULLEST EXTENT POSSIBLE, PROVIDE PRODUCTS OF THE SAME KIND AND FROM A SINGLE SOURCE.
- 1.02 PRODUCT DELIVERY, STORAGE AND HANDLING: DELIVER, STORE AND HANDLE PRODUCTS IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS AND RECOMMENDATIONS. USE METHODS THAT WILL PREVENT DAMAGE TO WITHSTAND PRESSURE OF FORMY-PLACED CONCRETE WITHOUT BOW OR DEFLECTION.

- A. SCHEDULE DELIVERY TO MINIMIZE LONG TERM STORAGE AND PREVENT DAMAGE TO CONSTRUCTION SPECIFICATIONS.
- B. DELIVER PRODUCTS IN MANUFACTURER'S ORIGINAL SEALED CONTAINER OR PACKAGING SYSTEM, COMPLETE WITH LABELS AND INSTRUCTIONS FOR HANDLING, STORING, UNPACKING, PROTECTING AND INSTALLING.
- 1.03 PRODUCT SELECTION: PROVIDE PRODUCTS THAT COMPLY WITH THE CONTRACT DOCUMENTS, ARE UNHARMED AND UNDETERIORATED AT THE END OF CONSTRUCTION.
- A. PROVIDE PRODUCTS COMPLETE WITH ALL ACCESSORIES, TRIM, FINISH, SAFETY GUARDS AND OTHER DEVICES AND DETAILS NEEDED FOR A COMPLETE INSTALLATION AND FOR THE INTENDED USE AND EFFECT.

- 1.04 INSTALLATION OF PRODUCTS: COMPLY WITH MANUFACTURER'S INSTRUCTIONS AND RECOMMENDATIONS FOR INSTALLATION. PRODUCTS ALLOWED EACH PRODUCT SECURELY IN PLACE, ACCURATELY LOCATED AND ALIGNED WITH OTHER WORK, CLEAN EXPOSED SURFACES AND PROTECT EXPOSED SURFACES FROM DAMAGE AND DETRIORATION AT THE END OF SUBSTANTIAL COMPLETION.

END OF SECTION 0160

SECTION 01635 - FINAL CLEANUP

PART 1 - GENERAL

- 1.01 PRIOR TO OCCUPANCY BY THE OWNER, AND WHEN AGREED UPON BY THE OWNER, THE GENERAL CONTRACTOR SHALL CLEAN UP THE PREMISES AND AREAS INCLUDING:
 - A. CLEAN AND POLISH GLASS AND SUPPORTING FRAMES. ALL DAMAGED, BROKEN OR SCRATCHED GLASS SHALL BE REPLACED BY THE CONTRACTOR'S EXPENSE.
 - B. REMOVE STAINS, MARKS, FINGERPRINTS AND DIRT FROM PAINTED, STAINED OR DECORATED WORK.

- C. REMOVE TEMPORARY PROTECTION AND CLEAN.
- D. CLEAN AND POLISH HARDWARE, FIXTURES AND EQUIPMENT.
- E. REMOVE WASTE MATERIALS AND LIGHTING DEBRIS FROM THE ENTIRE SITE.
- F. REMOVE LABELS FROM GLASS, MIRRORS, BULB FIXTURES, PLUMBING FIXTURES, ETC.
- G. CLEANING OF THE WORK AND GROUNDS SHALL BE PERFORMED UNDER THE CONTRACT AND AT AN ADDITIONAL COST TO THE FOLLOWING TYPES:
 1. ANY DAMAGED OR SOLID MATERIAL FOUND UPON COMPLETION OF CLEANING AND BEFORE OCCUPANCY BY THE OWNER SHALL BE REMOVED, REPAIRED OR CLEANED BY THE GENERAL CONTRACTOR.
 2. RESIDENT FLOORING: REMOVE EXCESS ADHESIVE AND OTHER STAYS. SCUB FLOOR THOROUGHLY WITH HILLARY'S SUPER DRY CLEANER TO APPROVED SPECIFICATION. WHEN DRY APPLY TWO THIN COATS OF HILLARY'S SUPER HI-RITE, OR APPROVED SUBSTITUTE, AND BUFF. FLOOR TREATMENT MATERIALS SHALL BE APPLIED IN ACCORDANCE WITH MANUFACTURER'S DIRECTION.

- A. CARPETING: VACUUM CLEAN AND ELECTRIFY. COMMERCIAL-TYPE VACUUM CLEANERS, REMOVING LOOSE SURFACE DIRT TO THE COMPLETE SATISFACTION OF THE OWNER.
 1. ANY DAMAGED OR SOLID MATERIAL FOUND UPON COMPLETION OF CLEANING AND BEFORE OCCUPANCY BY THE OWNER SHALL BE REPAIRED OR CLEANED BY THE GENERAL CONTRACTOR.
- B. RESIDENT FLOORING: REMOVE EXCESS ADHESIVE AND OTHER STAYS. SCUB FLOOR THOROUGHLY WITH HILLARY'S SUPER DRY CLEANER TO APPROVED SPECIFICATION. WHEN DRY APPLY TWO THIN COATS OF HILLARY'S SUPER HI-RITE, OR APPROVED SUBSTITUTE, AND BUFF. FLOOR TREATMENT MATERIALS SHALL BE APPLIED IN ACCORDANCE WITH MANUFACTURER'S DIRECTION.

- C. CONCRETE FLOORS: REMOVE PAINT AND OTHER SPOTS FROM FLOOR. D. PAINTED WALLS: REMOVE DUST, STAINS AND SPOTS FROM WALL BY VACUUM CLEANING OR WASHING AS NECESSARY.
- E. PANELLED WALLS, CABINET WORK, DOORS AND TRIM: REMOVE DUST AND SPOTS.
- F. GLASS: CLEAN AND POLISH GLASS AND ROOF, WINDOW AND ENTRANCE FRAMES AND MIRRORS. REMOVE PAINT, VARNISH, EXCESS PUTTY, ETC. FROM WINDOW GLASSING. REMOVE MATERIALS AT LEAST 1/2" DEEP IN CONSTRUCTION JOINTS IN WALLS, SLABS AND BETWEEN WALLS AND FOOTINGS. EXCESS PUTTY, STAINS, LABELS, ETC. CLEAN AND POLISH HARDWARE AND FIXTURES. VACUUM DUST FROM LIGHTING FIXTURES.

- 3.01 FLOOR WORK
- A. GENERAL: AS PER ACI 301, CHAPTER 4, EXCEPT AS NOTED.
- B. FORM DESIGN AND CONSTRUCTION: DESIGN, ERECT, SUPPORT, BRACE AND MAINTAIN WORK UNTIL SUCH VERTICAL AND LATERAL LOADS THAT MIGHT BE APPLIED UNTIL SUPPORT LOADS CAN BE SUPPORTED BY THE FORMS AND BRACING MATERIALS. THESE WILL BE PERMITTED FOR INITIAL CURING ONLY. USE LARGEST PRACTICAL SIZE SHEETS. LAP JOINTS NOT LESS THAN 4" AND SEAL CAREFULLY. ANCHOR COVERING SECURITY THROUGHOUT.
- C. CURING: CONSTRUCT CONCRETE CURING CURTAINS TO MAINTAIN RELATIVE HUMIDITY ABOVE 90 PERCENT.
- D. RESTRICTIONS ON USE: DO NOT USE CURING COMPOUND ON SURFACES OVER WHICH HOMOGENEOUS FINISH MATERIAL WILL BE APPLIED. FOR PLANK AND BATT EXCLUSIVE OF FACING MIXES, SUBMIT WELL IN ADVANCE OF TIME FOR CURING APPLICATION, WRITTEN ACCEPTANCE OF CURING COMPOUND BY BOTH THE MANUFACTURER AND THE ARCHITECT. THE FINISH MATERIAL, RELATIVE TO COMPATIBILITY THEREWITH OF FINISH MATERIAL, INCLUDING PRIMERS, ADHESIVES, AND SIMILAR MATERIALS. IF MANUFACTURER OF FINISH MATERIAL HAS BEEN DETERMINED, THESE WILL BE PERMITTED FOR RETENTION OF PANEL FROM ONE STORY TO THE NEXT.
- E. APPLICATION: APPLY UNIFORMLY AT A COVERAGE RATE NOT LESS THAN THAT SPECIFIED IN THE MANUFACTURER'S LITERATURE.

- 3.02 FLOORING REINFORCEMENT
- A. GENERAL: AS PER ACI 301, SECTIONS 5.3 AND 5.4, EXCEPT AS FOLLOWS:
 1. WELDING OF REINFORCING BARS WILL BE PERMITTED WITHOUT APPROVAL BY THE OWNER OR OWNER'S REPRESENTATIVE.

- 3.03 JOINTS AND EMBEDDED ITEMS
- A. GENERAL: AS PER ACI 301, CHAPTER 6, WITH JOINT LOCATIONS AS NOTED.
- B. CONSTRUCTION JOINTS: LOCATE AND INSTALL CONSTRUCTION JOINTS AS INDICATED, OR IF NOT INDICATED, LOCATE 50 AS NOTED WITH LAP STRENGTH REQUIREMENTS. CONSTRUCTION JOINTS SHALL BE AT LEAST 1/2" DEEP IN CONSTRUCTION JOINTS IN WALLS, SLABS AND BETWEEN WALLS AND FOOTINGS. EXCESS PUTTY, STAINS, LABELS, ETC. CLEAN AND POLISH HARDWARE AND FIXTURES. VACUUM DUST FROM LIGHTING FIXTURES.

- 3.04 CONCRETE PLACEMENT
- A. GENERAL: AS PER ACI 301, CHAPTER 8, EXCEPT AS NOTED.
- B. PREPARATION BEFORE PLACING:
 1. CLEANING: REMOVE LOOSE SCALE AND RUST, DIRT AND OTHER COATINGS THAT WOULD REDUCE OR DESTROY BOND FROM REINFORCING STEEL, THOROUGHLY CLEAN FORMS OF HARDENED CONCRETE, WOOD FORMS, SHYINGS AND OTHER DEBRIS.
 2. SPRINKLING SLAB UNDERBED: AT SLAB AREAS ON GROUND WHERE THERE IS NO MOISTURE BARRIER, SPRINKLE GRANULAR UNDERBED SUFFICIENTLY AND UNIFORMLY WITH CLEAN WATER TO ELIMINATE LOSS OF WATER FROM FORMS AND/OR AIR CONTENT TESTS DO NOT MEET THESE SPECIFICATIONS.
 3. CHANGE IN APPEARANCE OR CONSISTENCY OF CONCRETE.
 4. POSSIBLE REDUCTION OF AIR CONTENT DUE TO DELAYS OF TRUCK AND/OR HOT WEATHER.
- C. PLACING: NOT USED.
- D. COLD WEATHER PLACING:
 1. PORTLAND CEMENT WOULD BE FROM PHYSICAL DAMAGE OR REDUCED STRENGTH WHICH COULD BE CAUSED BY FROST, FREEZING ACTIONS, OR LOW TEMPERATURES, IN COMPLIANCE WITH ACI 306 AND AS HEREIN SPECIFIED.
 2. WHEN AIR TEMPERATURE HAS FALLEN TO OR IS EXPECTED TO FALL BELOW 40 DEGREES F, UNIFORM HOT WATER AND AGGREGATES BEFORE MIXING AND TO BE MAINTAINED AT OR ABOVE 60 DEGREES F. CONCRETE MIXTURE TEMPERATURE SHOULD NOT BE LESS THAN 50 DEGREES F, AND NOT MORE THAN 80 DEGREES F AT POINT OF PLACEMENT.
 - E. HOT WEATHER PLACING:
 1. WHEN HOT WEATHER CONDITIONS EXIST THAT WOULD IMPAIR QUALITY AND STRENGTH OF CONCRETE, PLACE CONCRETE IN COMPLIANCE WITH ACI 305 AND AS HEREIN SPECIFIED.
 2. COOL INGREDIENTS BEFORE MIXING TO MAINTAIN CONCRETE MIXTURE TEMPERATURE AT OR ABOVE 50 DEGREES F. MIXING WATER MAY BE CHILLED, OR CHOPPED ICE MAY BE USED TO CONTROL TEMPERATURE OF CONCRETE MIXTURE. EQUIPMENT USED TO CHILL WATER SHALL BE MAINTAINED AT OR ABOVE 40 DEGREES F.

- 3.05 FINISH OF FORMED SURFACES
- A. GENERAL: AS PER ACI 301, CHAPTER 10, WITH SELECTIONS AS FOLLOWS:
 1. ROUGH FORM FINISH: USE FORMED CONCRETE SURFACES NOT EXPOSED TO VIEW IN THE FINISH WORK.
 2. SMOOTH FORM FINISH: USE FOR FORMED CONCRETE SURFACES TO BE COVERED WITH A COATING OR COVERING MATERIAL. APPLY DIRECTLY TO CONCRETE, SUCH AS WATERPROOFING, FORD PROOFING, PAINTING OR OTHER SIMILAR SYSTEM.
 3. SMOOTH RUBBED FINISH: USE FOR DAMPED CONCRETE SURFACES EXPOSED TO VIEW. EXCEPT USE SMOOTH FORM FINISH FOR EXPOSED OVERHEAD SURFACES, WHETHER OR NOT PAINTED.

- A. GENERAL: AS PER ACI 301, SECTIONS 4.2 AND 10.2, EXCEPT AS NOTED.

- B. FORMS FOR EXPOSED FINISH CONCRETE: UNLESS OTHERWISE INDICATED, CONSTRUCT FORMWORK FOR EXPOSED CONCRETE SURFACES WITH 1/2" PLANK OR METAL, HEAVY FRAMED PLYWOOD OR OTHER ACCEPTABLE PANEL-TYPE MATERIALS, TO PROVIDE CONTIGUOUS, STRAIGHT, UNIFORM SURFACES. FINISH IN LARGEST PRACTICABLE SIZES TO MINIMIZE JOINTS AND CORNERS TO JOINT SYSTEMS SHOWN ON DRAWINGS. PROVIDE FORMY-PLACED WITH SUFFICIENT THICKNESS TO WITHSTAND PRESSURE OF NEWLY-PLACED CONCRETE WITHOUT BOW OR DEFLECTION.
- C. FORMS FOR UNEXPOSED FINISH CONCRETE: FORM CONCRETE SURFACES WHICH WILL BE UNEXPOSED IN FINISHED STRUCTURE WITH PLYWOOD, LUMBER, METAL OR OTHER ACCEPTABLE MATERIAL. PROVIDE LUMBER DRESSED ON AT LEAST TWO SURFACES UNTIL TIME FOR FLOATING; DO NOT WORK SURFACES WHILE WATER IS PRESENT.
- D. BRUSHING METHOD FINISHING IS NOT ACCEPTABLE AND WILL BE CAUSE FOR REJECTION.

- E. BEGINS FLOAT OPERATIONS WHEN BLEED WATER SHEEN HAS DISAPPEARED AND CONCRETE HAS STIFFENED SUFFICIENTLY TO ALLOW WALKING WITH SHOES WITHOUT LEAVING HEEL PRINTS MORE THAN 1/4" INCH DEEP. USE MAGNESIUM OR ALUMINUM POWDER.
 1. REINFORCEMENT: AS PER ACI 301, SECTION 5.2, WITH SELECTIONS AND SUPPLEMENTS AS FOLLOWS:
 1. REINFORCING BARS: ASTM A 615, GRADE 60.
 2. WELDED WIRE FABRIC: ASTM A 185 FOR PLAIN WIRE.
 2. SUPPORTS FOR REINFORCEMENT: PROVIDE SUCH ITEMS AS BOLSTERS, CURBS AND SPACERS FOR SUPPORTING, SPACING AND EXTENDING REINFORCING BARS AND WELDED WIRE FABRIC IN PLACE. USE WIRE BAR TIE SUPPORTS COMPLYING WITH CRSI SPECIFICATIONS, UNLESS OTHERWISE ACCEPTABLE. SUPPORTS SHALL BE OF THE FOLLOWING TYPES:
 1. PRECAST CONCRETE BLOCKS: SUPPORT REINFORCEMENT FOR SLABS ON GRADE.
 - 2.04 CONCRETE MATERIALS

- A. GENERAL:
 1. CEMENTS, ADMIXTURES, WATER AND AGGREGATES SHALL CONFORM TO ACI 301, CHAPTER 7, WITH SELECTIONS AND SUPPLEMENTS AS SPECIFIED HEREIN.
 2. CEMENTS: ALL CEMENTS USED SHALL BE PORTLAND CEMENTS CONFORMING TO ASTM C 150, TYPE I OR II, UNLESS OTHERWISE SPECIFIED. CEMENTS AND AGGREGATES SHALL CONFORM TO THE FOLLOWING TYPES:
 1. PRECAST CONCRETE BLOCKS: SUPPORT REINFORCEMENT FOR SLABS ON GRADE.

2. CEMENTS: ALL CEMENTS USED SHALL BE PORTLAND CEMENTS CONFORMING TO ASTM C 150, TYPE I OR II, UNLESS OTHERWISE SPECIFIED. CEMENTS AND AGGREGATES SHALL CONFORM TO THE FOLLOWING TYPES:
 1. PRECAST CONCRETE BLOCKS: SUPPORT REINFORCEMENT FOR SLABS ON GRADE.

3. CEMENTS: ALL CEMENTS USED SHALL BE PORTLAND CEMENTS CONFORMING TO ASTM C 150, TYPE I OR II, UNLESS OTHERWISE SPECIFIED. CEMENTS AND AGGREGATES SHALL CONFORM TO THE FOLLOWING TYPES:
 1. PRECAST CONCRETE BLOCKS: SUPPORT REINFORCEMENT FOR SLABS ON GRADE.

4. CEMENTS: ALL CEMENTS USED SHALL BE PORTLAND CEMENTS CONFORMING TO ASTM C 150, TYPE I OR II, UNLESS OTHERWISE SPECIFIED. CEMENTS AND AGGREGATES SHALL CONFORM TO THE FOLLOWING TYPES:
 1. PRECAST CONCRETE BLOCKS: SUPPORT REINFORCEMENT FOR SLABS ON GRADE.

5. CEMENTS: ALL CEMENTS USED SHALL BE PORTLAND CEMENTS CONFORMING TO ASTM C 150, TYPE I OR II, UNLESS OTHERWISE SPECIFIED. CEMENTS AND AGGREGATES SHALL CONFORM TO THE FOLLOWING TYPES:
 1. PRECAST CONCRETE BLOCKS: SUPPORT REINFORCEMENT FOR SLABS ON GRADE.

6. CEMENTS: ALL CEMENTS USED SHALL BE PORTLAND CEMENTS CONFORMING TO ASTM C 150, TYPE I OR II, UNLESS OTHERWISE SPECIFIED. CEMENTS AND AGGREGATES SHALL CONFORM TO THE FOLLOWING TYPES:
 1. PRECAST CONCRETE BLOCKS: SUPPORT REINFORCEMENT FOR SLABS ON GRADE.

7. CEMENTS: ALL CEMENTS USED SHALL BE PORTLAND CEMENTS CONFORMING TO ASTM C 150, TYPE I OR II, UNLESS OTHERWISE SPECIFIED. CEMENTS AND AGGREGATES SHALL CONFORM TO THE FOLLOWING TYPES:
 1. PRECAST CONCRETE BLOCKS: SUPPORT REINFORCEMENT FOR SLABS ON GRADE.

8. CEMENTS: ALL CEMENTS USED SHALL BE PORTLAND CEMENTS CONFORMING TO ASTM C 150, TYPE I OR II, UNLESS OTHERWISE SPECIFIED. CEMENTS AND AGGREGATES SHALL CONFORM TO THE FOLLOWING TYPES:
 1. PRECAST CONCRETE BLOCKS: SUPPORT REINFORCEMENT FOR SLABS ON GRADE.

9. CEMENTS: ALL CEMENTS USED SHALL BE PORTLAND CEMENTS CONFORMING TO ASTM C 150, TYPE I OR II, UNLESS OTHERWISE SPECIFIED. CEMENTS AND AGGREGATES SHALL CONFORM TO THE FOLLOWING TYPES:
 1. PRECAST CONCRETE BLOCKS: SUPPORT REINFORCEMENT FOR SLABS ON GRADE.

10. CEMENTS: ALL CEMENTS USED SHALL BE PORTLAND CEMENTS CONFORMING TO ASTM C 150, TYPE I OR II, UNLESS OTHERWISE SPECIFIED. CEMENTS AND AGGREGATES SHALL CONFORM TO THE FOLLOWING TYPES:
 1. PRECAST CONCRETE BLOCKS: SUPPORT REINFORCEMENT FOR SLABS ON GRADE.

11. CEMENTS: ALL CEMENTS USED SHALL BE PORTLAND CEMENTS CONFORMING TO ASTM C 150, TYPE I OR II, UNLESS OTHERWISE SPECIFIED. CEMENTS AND AGGREGATES SHALL CONFORM TO THE FOLLOWING TYPES:
 1. PRECAST CONCRETE BLOCKS: SUPPORT REINFORCEMENT FOR SLABS ON GRADE.

12. CEMENTS: ALL CEMENTS USED SHALL BE PORTLAND CEMENTS CONFORMING TO ASTM C 150, TYPE I OR II, UNLESS OTHERWISE SPECIFIED. CEMENTS AND AGGREGATES SHALL CONFORM TO THE FOLLOWING TYPES:
 1. PRECAST CONCRETE BLOCKS: SUPPORT REINFORCEMENT FOR SLABS ON GRADE.

13. CEMENTS: ALL CEMENTS USED SHALL BE PORTLAND CEMENTS CONFORMING TO ASTM C 150, TYPE I OR II, UNLESS OTHERWISE SPECIFIED. CEMENTS AND AGGREGATES SHALL CONFORM TO THE FOLLOWING TYPES:
 1. PRECAST CONCRETE BLOCKS: SUPPORT REINFORCEMENT FOR SLABS ON GRADE.

14. CEMENTS: ALL CEMENTS USED SHALL BE PORTLAND CEMENTS CONFORMING TO ASTM C 150, TYPE I OR II, UNLESS OTHERWISE SPECIFIED. CEMENTS AND AGGREGATES SHALL CONFORM TO THE FOLLOWING TYPES:
 1. PRECAST CONCRETE BLOCKS: SUPPORT REINFORCEMENT FOR SLABS ON GRADE.

- 3.07 SLABS

- A. EXAMINATION
1. VERIFY THAT FLOOR SURFACES ARE READY TO RECEIVE WORK.
2. STARTING WORK CONSTITUTES ACCEPTANCE OF THE EXISTING CONDITIONS AND THIS CONTRACTOR SHALL BEAT HIS OWNERS BE RESPONSIBLE FOR CORRECTING ALL UNSATISFACTORY AND DEFECTIVE WORK ENCOUNTERED.

- B. FINISHING
1. FINISH CONCRETE FLOOR SURFACES IN ACCORDANCE WITH ACI 301.
 1. INITIAL WORKING:
 1. REMOVE SURFACE IRREGULARITIES WITH BULL FLOOR BEFORE WATER PLACING CONCRETE SURFACE.
 2. DO NOT FURROW OR SURFACE UNTIL TIME FOR FLOATING; DO NOT WORK SURFACES WHILE WATER IS PRESENT.
 2. FINISHING METHOD FINISHING IS NOT ACCEPTABLE AND WILL BE CAUSE FOR REJECTION.

3. BEGINS FLOAT OPERATIONS WHEN BLEED WATER SHEEN HAS DISAPPEARED AND CONCRETE HAS STIFFENED SUFFICIENTLY TO ALLOW WALKING WITH SHOES WITHOUT LEAVING HEEL PRINTS MORE THAN 1/4" INCH DEEP. USE MAGNESIUM OR ALUMINUM POWDER.
 1. REINFORCEMENT: AS PER ACI 301, SECTION 5.2, WITH SELECTIONS AND SUPPLEMENTS AS FOLLOWS:
 1. REINFORCING BARS: ASTM A 615, GRADE 60.
 2. WELDED WIRE FABRIC: ASTM A 185 FOR PLAIN WIRE.
 2. SUPPORTS FOR REINFORCEMENT: PROVIDE SUCH ITEMS AS BOLSTERS, CURBS AND SPACERS FOR SUPPORTING, SPACING AND EXTENDING REINFORCING BARS AND WELDED WIRE FABRIC IN PLACE. USE WIRE BAR TIE SUPPORTS COMPLYING WITH CRSI SPECIFICATIONS, UNLESS OTHERWISE ACCEPTABLE. SUPPORTS SHALL BE OF THE FOLLOWING TYPES:
 1. PRECAST CONCRETE BLOCKS: SUPPORT REINFORCEMENT FOR SLABS ON GRADE.

- 3.08 CURING AND PROTECTION
- A. GENERAL: AS PER ACI 301, CHAPTER 12, EXCEPT AS NOTED.
- B. WEATHER RESISTANCE: WITH PARTICULAR EMPHASIS ON THE FOLLOWING:
 1. INITIAL CURING AND PROTECTION BY ANY OF THE METHODS GIVEN IN THIS CONTRACT, SECTION 12.2, EXCEPT AS NOTED, USING MATERIALS SPECIFIED IN ACI 308.5 AND ABOVE.
 2. CONTAINING HOT MORE THAN 0.1% CHLORIDES.
 3. CALCULUS CONTAINING MORE THAN 0.1% CHLORIDES.
 4. WATER-REDUCING, NONCHLORIDE ACCELERATING ADMIXTURE: ASTM C 494, TYPE D, CONTAINING NOT MORE THAN 0.1% CHLORIDES.
 5. SUBJECT TO COMPLIANCE WITH REQUIREMENTS, ADMIXTURES USED IN AN ADMIXTURE IS USED IN A CONCRETE MIX, THEY SHALL BE OF SAME MANUFACTURER.
 1. CHEM-MASTERS CORP.
 2. EXCOLD CHEMICAL CO.
 3. CONSTRUCTION PRODUCTS - DIVISION OF W.R. GRACE & CO.
 4. MASTER BUILDERS - DIVISION OF MARTIN MARETTA CORP.
 5. SIKACORP.

- 3.09 FABRICATING REINFORCEMENT
- A. GENERAL: AS PER ACI 301, SECTIONS 5.3 AND 5.4, EXCEPT AS FOLLOWS:
 1. WELDING OF REINFORCING BARS WILL BE PERMITTED WITHOUT APPROVAL BY THE OWNER OR OWNER'S REPRESENTATIVE.

- 3.10 FLOOR WORK
- A. GENERAL: AS PER ACI 301, CHAPTER 4, EXCEPT AS NOTED.
- B. FORM DESIGN AND CONSTRUCTION: DESIGN, ERECT, SUPPORT, BRACE AND MAINTAIN WORK UNTIL SUCH VERTICAL AND LATERAL LOADS THAT MIGHT BE APPLIED UNTIL SUPPORT LOADS CAN BE SUPPORTED BY THE FORMS AND BRACING MATERIALS. THESE WILL BE PERMITTED FOR INITIAL CURING ONLY. USE LARGEST PRACTICAL SIZE SHEETS. LAP JOINTS NOT LESS THAN 4" AND SEAL CAREFULLY. ANCHOR COVERING SECURITY THROUGHOUT.
- C. CURING: CONSTRUCT CONCRETE CURING CURTAINS TO MAINTAIN RELATIVE HUMIDITY ABOVE 90 PERCENT.
- D. RESTRICTIONS ON USE: DO NOT USE CURING COMPOUND ON SURFACES OVER WHICH HOMOGENEOUS FINISH MATERIAL WILL BE APPLIED. FOR PLANK AND BATT EXCLUSIVE OF FACING MIXES, SUBMIT WELL IN ADVANCE OF TIME FOR CURING APPLICATION, WRITTEN ACCEPTANCE OF CURING COMPOUND BY BOTH THE MANUFACTURER AND THE ARCHITECT. THE FINISH MATERIAL, RELATIVE TO COMPATIBILITY THEREWITH OF FINISH MATERIAL, INCLUDING PRIMERS, ADHESIVES, AND SIMILAR MATERIALS. IF MANUFACTURER OF FINISH MATERIAL HAS BEEN DETERMINED, THESE WILL BE PERMITTED FOR RETENTION OF PANEL FROM ONE STORY TO THE NEXT.
- E. APPLICATION: APPLY UNIFORMLY AT A COVERAGE RATE NOT LESS THAN THAT SPECIFIED IN THE MANUFACTURER'S LITERATURE.

- 3.11 FLOORING REINFORCEMENT
- A. GENERAL: AS PER ACI 301, SECTIONS 5.3 AND 5.4, EXCEPT AS FOLLOWS:
 1. WELDING OF REINFORCING BARS WILL BE PERMITTED WITHOUT APPROVAL BY THE OWNER OR OWNER'S REPRESENTATIVE.

- 3.12 FLOORING REINFORCEMENT
- A. GENERAL: AS PER ACI 301, SECTIONS 5.3 AND 5.4, EXCEPT AS FOLLOWS:
 1. WELDING OF REINFORCING BARS WILL BE PERMITTED WITHOUT APPROVAL BY THE OWNER OR OWNER'S REPRESENTATIVE.

- 3.13 FLOORING REINFORCEMENT
- A. GENERAL: AS PER ACI 301, SECTIONS 5.3 AND 5.4, EXCEPT AS FOLLOWS:
 1. WELDING OF REINFORCING BARS WILL BE PERMITTED WITHOUT APPROVAL BY THE OWNER OR OWNER'S REPRESENTATIVE.

- 3.14 FLOORING REINFORCEMENT
- A. GENERAL: AS PER ACI 301, SECTIONS 5.3 AND 5.4, EXCEPT AS FOLLOWS:
 1. WELDING OF REINFORCING BARS WILL BE PERMITTED WITHOUT APPROVAL BY THE OWNER OR OWNER'S REPRESENTATIVE.

- 3.15 FLOORING REINFORCEMENT
- A. GENERAL: AS PER ACI 301, SECTIONS 5.3 AND 5.4, EXCEPT AS FOLLOWS:
 1. WELDING OF REINFORCING BARS WILL BE PERMITTED WITHOUT APPROVAL BY THE OWNER OR OWNER'S REPRESENTATIVE.

- 3.16 FLOORING REINFORCEMENT
- A. GENERAL: AS PER ACI 301, SECTIONS 5.3 AND 5.4, EXCEPT AS FOLLOWS:
 1. WELDING OF REINFORCING BARS WILL BE PERMITTED WITHOUT APPROVAL BY THE OWNER OR OWNER'S REPRESENTATIVE.

- 3.17 FLOORING REINFORCEMENT
- A. GENERAL: AS PER ACI 301, SECTIONS 5.3 AND 5.4, EXCEPT AS FOLLOWS:
 1. WELDING OF REINFORCING BARS WILL BE PERMITTED WITHOUT APPROVAL BY THE OWNER OR OWNER'S REPRESENTATIVE.

- 3.18 FLOORING REINFORCEMENT
- A. GENERAL: AS PER ACI 301, SECTIONS 5.3 AND 5.4, EXCEPT AS FOLLOWS:
 1. WELDING OF REINFORCING BARS WILL BE PERMITTED WITHOUT APPROVAL BY THE OWNER OR OWNER'S REPRESENTATIVE.

- 3.19 FLOORING REINFORCEMENT
- A. GENERAL: AS PER ACI 301, SECTIONS 5.3 AND 5.4, EXCEPT AS FOLLOWS:
 1. WELDING OF REINFORCING BARS WILL BE PERMITTED WITHOUT APPROVAL BY THE OWNER OR OWNER'S REPRESENTATIVE.

- 3.20 FLOORING REINFORCEMENT
- A. GENERAL: AS PER ACI 301, SECTIONS 5.3 AND 5.4, EXCEPT AS FOLLOWS:
 1. WELDING OF REINFORCING BARS WILL BE PERMITTED WITHOUT APPROVAL BY THE OWNER OR OWNER'S REPRESENTATIVE.

- 3.21 FLOORING REINFORCEMENT
- A. GENERAL: AS PER ACI 301, SECTIONS 5.3 AND 5.4, EXCEPT AS FOLLOWS:
 1. WELDING OF REINFORCING BARS WILL BE PERMITTED WITHOUT APPROVAL BY THE OWNER OR OWNER'S REPRESENTATIVE.

- 3.22 FLOORING REINFORCEMENT
- A. GENERAL: AS PER ACI 301, SECTIONS 5.3 AND 5.4, EXCEPT AS FOLLOWS:
 1. WELDING OF REINFORCING BARS WILL BE PERMITTED WITHOUT APPROVAL BY THE OWNER OR OWNER'S REPRESENTATIVE.

- 3.23 FLOORING REINFORCEMENT
- A. GENERAL: AS PER ACI 301, SECTIONS 5.3 AND 5.4, EXCEPT AS FOLLOWS:
 1. WELDING OF REINFORCING BARS WILL BE PERMITTED WITHOUT APPROVAL BY THE OWNER OR OWNER'S REPRESENTATIVE.

- 3.24 FLOORING REINFORCEMENT
- A. GENERAL: AS PER ACI 301, SECTIONS 5.3 AND 5.4, EXCEPT AS FOLLOWS:
 1. WELDING OF REINFORCING BARS WILL BE PERMITTED WITHOUT APPROVAL BY THE OWNER OR OWNER'S REPRESENTATIVE.

- 3.25 FLOORING REINFORCEMENT
- A. GENERAL: AS PER ACI 301, SECTIONS 5.3 AND 5.4, EXCEPT AS FOLLOWS:
 1. WELDING OF REINFORCING BARS WILL BE PERMITTED WITHOUT APPROVAL BY THE OWNER OR OWNER'S REPRESENTATIVE.

- 3.26 FLOORING REINFORCEMENT
- A. GENERAL: AS PER ACI 301, SECTIONS 5.3 AND 5.4, EXCEPT AS FOLLOWS:
 1. WELDING OF REINFORCING BARS WILL BE PERMITTED WITHOUT APPROVAL BY THE OWNER OR OWNER'S REPRESENTATIVE.

- 3.27 FLOORING REINFORCEMENT
- A. GENERAL: AS PER ACI 301, SECTIONS 5.3 AND 5.4, EXCEPT AS FOLLOWS:
 1. WELDING OF REINFORCING BARS WILL BE PERMITTED WITHOUT APPROVAL BY THE OWNER OR OWNER'S REPRESENTATIVE.

- 3.28 FLOORING REINFORCEMENT
- A. GENERAL: AS PER ACI 301, SECTIONS 5.3 AND 5.4, EXCEPT AS FOLLOWS:
 1. WELDING OF REINFORCING BARS WILL BE PERMITTED WITHOUT APPROVAL BY THE OWNER OR OWNER'S REPRESENTATIVE.

- 3.29 FLOORING REINFORCEMENT
- A. GENERAL: AS PER ACI 301, SECTIONS 5.3 AND 5.4, EXCEPT AS FOLLOWS:
 1. WELDING OF REINFORCING BARS WILL BE PERMITTED WITHOUT APPROVAL BY THE OWNER OR OWNER'S REPRESENTATIVE.

- 3.30 FLOORING REINFORCEMENT
- A. GENERAL: AS PER ACI 301, SECTIONS 5.3 AND 5.4, EXCEPT AS FOLLOWS:
 1. WELDING OF REINFORCING BARS WILL BE PERMITTED WITHOUT APPROVAL BY THE OWNER OR OWNER'S REPRESENTATIVE.

- 3.31 FLOORING REINFORCEMENT
- A. GENERAL: AS PER ACI 301, SECTIONS 5.3 AND 5.4, EXCEPT AS FOLLOWS:
 1. WELDING OF REINFORCING BARS WILL BE PERMITTED WITHOUT APPROVAL BY THE OWNER OR OWNER'S REPRESENTATIVE.

- 3.32 FLOORING REINFORCEMENT
- A. GENERAL: AS PER ACI 301, SECTIONS 5.3 AND 5.4, EXCEPT AS FOLLOWS:
 1. WELDING OF REINFORCING BARS WILL BE PERMITTED WITHOUT APPROVAL BY THE OWNER OR OWNER'S REPRESENTATIVE.

- 3.33 FLOORING REINFORCEMENT
- A. GENERAL: AS PER ACI 301, SECTIONS 5.3 AND 5.4, EXCEPT AS FOLLOWS:
 1. WELDING OF REINFORCING BARS WILL BE PERMITTED WITHOUT APPROVAL BY THE OWNER OR OWNER'S REPRESENTATIVE.

- 3.34 FLOORING REINFORCEMENT
- A. GENERAL: AS PER ACI 301, SECTIONS 5.3 AND 5.4, EXCEPT AS FOLLOWS:
 1. WELDING OF REINFORCING BARS WILL BE PERMITTED WITHOUT APPROVAL BY THE OWNER OR OWNER'S REPRESENTATIVE.

- 3.35 FLOORING REINFORCEMENT
- A. GENERAL: AS PER ACI 301, SECTIONS 5.3 AND 5.4, EXCEPT AS FOLLOWS:
 1. WELDING OF REINFORCING BARS WILL BE PERMITTED WITHOUT APPROVAL BY THE OWNER OR OWNER'S REPRESENTATIVE.

- 3.36 FLOORING REINFORCEMENT
- A. GENERAL: AS PER ACI 301, SECTIONS 5.3 AND 5.4, EXCEPT AS FOLLOWS:
 1. WELDING OF REINFORCING BARS WILL BE PERMITTED WITHOUT APPROVAL BY THE OWNER OR OWNER'S REPRESENTATIVE.

- 3.37 FLOORING REINFORCEMENT
- A. GENERAL: AS PER ACI 301, SECTIONS 5.3 AND 5.4, EXCEPT AS FOLLOWS:
 1. WELDING OF REINFORCING BARS WILL BE PERMITTED WITHOUT APPROVAL BY THE OWNER OR OWNER'S REPRESENTATIVE.

- 3.38 FLOORING REINFORCEMENT
- A. GENERAL: AS PER ACI 301, SECTIONS 5.3 AND 5.4, EXCEPT AS FOLLOWS:
 1. WELDING OF REINFORCING BARS WILL BE PERMITTED WITHOUT APPROVAL BY THE OWNER OR OWNER'S REPRESENTATIVE.

- 3.39 FLOORING REINFORCEMENT
- A. GENERAL: AS PER ACI 301, SECTIONS 5.3 AND 5.4, EXCEPT AS FOLLOWS:
 1. WELDING OF REINFORCING BARS WILL BE PERMITTED WITHOUT APPROVAL BY THE OWNER OR OWNER'S REPRESENTATIVE.

- 3.40 FLOORING REINFORCEMENT
- A. GENERAL: AS PER ACI 301, SECTIONS 5.3 AND 5.4, EXCEPT AS FOLLOWS:
 1. WELDING OF REINFORCING BARS WILL BE PERMITTED WITHOUT APPROVAL BY THE OWNER OR OWNER'S REPRESENTATIVE.

- 3.41 FLOORING REINFORCEMENT
- A. GENERAL: AS PER ACI 301, SECTIONS 5.3 AND 5.4, EXCEPT AS FOLLOWS:
 1. WELDING OF REINFORCING BARS WILL BE PERMITTED WITHOUT APPROVAL BY THE OWNER OR OWNER'S REPRESENTATIVE.

- 3.42 FLOORING REINFORCEMENT
- A. GENERAL: AS PER ACI 301, SECTIONS 5.3 AND 5.4, EXCEPT AS FOLLOWS:
 1. WELDING OF REINFORCING BARS WILL BE PERMITTED WITHOUT APPROVAL BY THE OWNER OR OWNER'S REPRESENTATIVE.

- 3.43 FLOORING REINFORCEMENT
- A. GENERAL: AS PER ACI 301, SECTIONS 5.3 AND 5.4, EXCEPT AS FOLLOWS:
 1. WELDING OF REINFORCING BARS WILL BE PERMITTED WITHOUT APPROVAL BY THE OWNER OR OWNER'S REPRESENTATIVE.

- 3.44 FLOORING REINFORCEMENT
- A. GENERAL: AS PER ACI 301, SECTIONS 5.3 AND 5.4, EXCEPT AS FOLLOWS:
 1. WELDING OF REINFORCING BARS WILL BE PERMITTED WITHOUT APPROVAL BY THE OWNER OR OWNER'S REPRESENTATIVE.

- 3.45 FLOORING REINFORCEMENT
- A. GENERAL: AS PER ACI 301, SECTIONS 5.3 AND 5.4, EXCEPT AS FOLLOWS:
 1. WELDING OF REINFORCING BARS WILL BE PERMITTED WITHOUT APPROVAL BY THE OWNER OR OWNER'S REPRESENTATIVE.

- 3.46 FLOORING REINFORCEMENT
- A. GENERAL: AS PER ACI 301, SECTIONS 5.3 AND 5.4, EXCEPT AS FOLLOWS:
 1. WELDING OF REINFORCING BARS WILL BE PERMITTED WITHOUT APPROVAL BY THE OWNER OR OWNER'S REPRESENTATIVE.

- 3.47 FLOORING REINFORCEMENT
- A. GENERAL: AS PER ACI 301, SECTIONS 5.3 AND 5.4, EXCEPT AS FOLLOWS:
 1. WELDING OF REINFORCING BARS WILL BE PERMITTED WITHOUT APPROVAL BY THE OWNER OR OWNER'S REPRESENTATIVE.

- 3.48 FLOORING REINFORCEMENT
- A. GENERAL: AS PER ACI 301, SECTIONS 5.3 AND 5.4, EXCEPT AS FOLLOWS:
 1. WELDING OF REINFORCING BARS WILL BE PERMITTED WITHOUT APPROVAL BY THE OWNER OR OWNER'S REPRESENTATIVE.

- 3.49 FLOORING REINFORCEMENT
- A. GENERAL: AS PER ACI 301, SECTIONS 5.3 AND 5.4, EXCEPT AS FOLLOWS:
 1. WELDING OF REINFORCING BARS WILL BE PERMITTED WITHOUT APPROVAL BY THE OWNER OR OWNER'S REPRESENTATIVE.

- 3.50 FLOORING REINFORCEMENT
- A. GENERAL: AS PER ACI 301, SECTIONS 5.3 AND 5.4, EXCEPT AS FOLLOWS:
 1. WELDING OF REINFORCING BARS WILL BE PERMITTED WITHOUT APPROVAL BY THE OWNER OR OWNER'S REPRESENTATIVE.

- 3.51 FLOORING REINFORCEMENT
- A. GENERAL: AS PER ACI 301, SECTIONS 5.3 AND 5.4, EXCEPT AS FOLLOWS:
 1. WELDING OF REINFORCING BARS WILL BE PERMITTED WITHOUT APPROVAL BY THE OWNER OR OWNER'S REPRESENTATIVE.

- 3.52 FLOORING REINFORCEMENT
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SECTION 09260 - GYPSUM BOARD SYSTEMS

PART 1 - GENERAL

1.01 REFERENCES

- A. ASTM A 446/A446M-89 -- STANDARD SPECIFICATION FOR STEEL SHEET, ZINC-COATED (GALVANIZED) BY THE HOT-DIP METHOD, 1989.
- B. ASTM A 641-89 -- STANDARD SPECIFICATION FOR ZINC-COATED (GALVANIZED) CARBON STEEL WIRE - 1989.
- C. ASTM A 792-89 -- STANDARD SPECIFICATION FOR STEEL SHEET, ALUMINUM-ZINC ALLOY-COATED BY THE HOT-DIP METHOD - 1989.
- D. ASTM C 36-90 -- STANDARD SPECIFICATION FOR GYPSUM WALLBOARD 1990.
- E. ASTM C 475-89 -- STANDARD SPECIFICATION FOR JOINT COMPOUND AND JOINT TAPE FOR FINISHING GYPSUM BOARD - 1989.
- F. ASTM C 630-90 -- STANDARD SPECIFICATION FOR WATER-RESISTANT GYPSUM BACKING BOARD - 1990.
- G. GA-608-88 FIRE RESISTANCE DESIGN MANUAL - GYPSUM ASSOCIATION 1988.
- H. GYPSUM CONSTRUCTION HANDBOOK - USG CORPORATION - 1987.

1.02 SYSTEM DESCRIPTION

- A. SOUND-RATED CONSTRUCTION: WHERE INDICATED, PROVIDE CONSTRUCTION BUILT IN ACCORDANCE WITH MANUFACTURER'S ASSEMBLIES WHICH HAVE BEEN LABORATORY-TESTED FOR ASTM E 90 FOR DESIGNATED STC RATINGS. STC RATINGS: AS INDICATED ON DRAWINGS.
- B. FIRE RESISTANCE VALUES: WHERE INDICATED, PROVIDE CONSTRUCTION BUILT IN ACCORDANCE WITH UL AND/OR FM DESIGN PARAMETERS, FOR THE HOURLY RATING NOTED.
- C. QUALITY ASSURANCE
- D. REGULATORY REQUIREMENTS: AT LOCATIONS INDICATED ON DRAWINGS, PROVIDE FIRE-RATED ASSEMBLIES TESTED IN ACCORDANCE WITH ASTM E 119 AND ACCEPTABLE TO AUTHORITIES FOR RATINGS REQUIRED. PROVIDE ASSEMBLIES AS LISTED IN THE FOLLOWING:
 1. GA-600, FIRE RESISTANCE DESIGN MANUAL.
 2. UNDERWRITERS LABORATORIES INC.'S (UL) "FIRE RESISTANCE DIRECTORY."

- 1.04 DELIVERY, STORAGE, AND HANDLING
- A. DELIVER MATERIALS IN ORIGINAL AND UNOPENED PACKAGES, CONTAINERS, OR BUNDLES, WITH BRAND, NAMES AND MANUFACTURER'S LABELS INTACT AND LEGIBLE. STORE MATERIALS IN DRY LOCATION, FULLY PROTECTED FROM WEATHER AND DIRECT EXPOSURE TO SUNLIGHT.

- B. STACK GYPSUM BOARD PRODUCTS F LAT AND LEVEL, PROPERLY SUPPORTED TO PREVENT SAGGING OR DAMAGE TO ENDS AND EDGES.
- C. STORE CORNER BEAD AND OTHER METAL AND PLASTIC ACCESSORIES TO PREVENT BENDING, SAGGING, DISTORTION, OR OTHER MECHANICAL DAMAGE.

1.05 PROJECT CONDITIONS

- A. TEMPERATURE: MAINTAIN TEMPERATURE IN AREAS OF INSTALLATION BETWEEN 50AND 70 DEGREES F FOR AT LEAST 24 HOURS BEFORE INSTALLATION BEGINS AND FOR NOT LESS THAN 48 HOURS AFTER JOINT FINISHING HAS BEEN COMPLETED.
- B. VENTILATION: PROVIDE CONTROLLED VENTILATION DURING JOINT FINISHING OPERATIONS, TO ELIMINATE EXCESSIVE MOISTURE. AVOID DRAUGHTS DURING HOT, DRY WEATHER TO PREVENT EXCESSIVELY FAST DRYING OF JOINT COMPOUND.

PART 2 - MATERIALS

2.01 GYPSUM WALL BOARD (GWB)

- A. GYPSUM WALL BOARD: ASTM C 36, 5/8" THICK, TYPE X FOR FIRE RESISTANT ASSEMBLIES, AND ALL OTHER LOCATIONS.
- 2.02 TRIM AND ACCESSORIES
- A. GENERAL: EXCEPT AS OTHERWISE SPECIFICALLY INDICATED, PROVIDE TRIM AND ACCESSORIES BY MANUFACTURER OF GYPSUM BOARD MATERIALS, MADE OF GALVANIZED STEEL OR ZINC ALLOY AND CORNER GURD FOR CONCEALMENT IN JOINT COMPOUND.
1. INCLUDE CORNER BEADS, EDGE TRIM, AND OTHER TRIM UNITS NECESSARY FOR PROJECT CONDITIONS. PROVIDE ACCESSORIES AS REQUIRED IN ORDER TO ACHIEVE DETAILS INDICATED, WHETHER OR NOT SPECIFIC ACCESSORIES ARE SHOWN ON THE DRAWINGS.
- B. CONTROL JOINTS: AT MAXIMUM SPACING OF 30'-0". PROVIDE MANUFACTURER'S STANDARD ONE-PIECE CONTROL JOINTS OF EXTRUDED VINYL, ZINC ALLOY, OR OTHER NONCORROSIVE METAL.

- 2.04 JOINT TREATMENT
- A. GENERAL: PROVIDE PRODUCTS BY MANUFACTURER OF GYPSUM BOARDS. COMPLY WITH ASTM C 475 AND WITH MANUFACTURER'S RECOMMENDATIONS FOR SPECIFIC PROJECT CONDITIONS.
- B. JOINT TAPE: MANUFACTURER'S STANDARD PAPER TYPE.

- C. JOINT TAPE: IF RECOMMENDED BY MANUFACTURER, PROVIDE OPEN-WEAVE FIBERGLASS TAPE FOR JOINT TREATMENT OF WATER-RESISTANT GYPSUM BACKING BOARD.
- D. JOINT COMPOUND: CHEMICAL HARDENING TYPE, FOR THE FOLLOWING APPLICATIONS:

1. INTERIOR USE:
 - a. LAMINATING DOUBLE-LAYER SYSTEMS.
- E. JOINT COMPOUND: VINYL-BASED READY-MIXED TYPE FOR INTERIOR USE, AND AS FOLLOWS:
 1. ALL-PURPOSE TYPE, FOR BOTH EMBEDDING TAPE AND AS TOPPING.

- 2.05 MISCELLANEOUS MATERIALS
- A. GENERAL: PROVIDE MISCELLANEOUS MATERIALS AS PRODUCED OR RECOMMENDED BY MANUFACTURER OF GYPSUM PRODUCTS.
- B. SCREWS: ASTM C 1002 - SELF-DRILLING TYPE-- LENGTHS AS RECOMMENDED BY GYPSUM BOARD MANUFACTURER FOR PROJECT CONDITIONS.

- C. LAMINATING ADHESIVE: ASTM C 475, AS RECOMMENDED BY MANUFACTURER OF GYPSUM BOARD.
- D. ACOUSTICAL SEALANTS: ASTM C 919 - NONDRYING, NONHARDENING, NONSHRINKING TYPE FOR CONCEALED LOCATIONS; NONOXIDIZING, SKINNING TYPE FOR EXPOSED LOCATIONS.

- E. SEALING: AT WATER-RESISTANT GYPSUM BACKING BOARD, PROVIDE TYPE I ORGANIC ADHESIVE PER ANSI A136.1.
5. C. JOINT REINFORCEMENT AS FOLLOWS:
 1. REINFORCING TAPE: EXTERIOR TAPE, 2 INCHES WIDE, POLYMER-COATED, WOVEN GLASS-FIBER MESH WITH PRESSURE SENSITIVE ADHESIVE ON ONE SIDE.
 2. JOINT COMPOUND: EXTERIOR BASECOAT, READY-TO-MIX PORTLAND CEMENT MORTAR CONTAINING DRY LATEX POLYMERS, GRAY.

- D. SURFACE CONTROL JOINT: USG NO. 093 CONTROL JOINT, OR EQUIVALENT, ROLL-FORMED ZINC.
- E. TRIM ACCESSORIES: CORNER BEADS AND 5/8 INCH TRIM ANGLES, ZINC ALLOY.

PART 3 - EXECUTION

3.01 INSTALLATION OF GYPSUM BOARD (GWB)

- A. GENERAL: COMPLY WITH ASTM C 840 AND GA-216 EXCEPT WHERE EXCEEDED BY OTHER REQUIREMENTS.
1. WHEREVER POSSIBLE, INSTALL GWB OR CBB TO MINIMIZE BUTT END JOINTS.
2. APPLY CEILING BOARDS PRIOR TO INSTALLATION OF WALLBOARDS. ARRANGE TO MINIMIZE BUTT END JOINTS NEAR CENTER OF CEILING AREA.
3. INSTALL WALLBOARDS IN A MANNER WHICH WILL MINIMIZE BUTT END JOINTS IN CENTER OF WALL AREA. STAGGER VERTICAL JOINTS ON OPPOSITE SIDES OF WALLS.
4. BUTT ALL JOINTS LOOSELY, WITH MAXIMUM OF 1/16 INCH BETWEEN BOARDS.
5. PLACE WRAPPED EDGES ADJACENT TO ONE ANOTHER; DO NOT PLACE CUT EDGES OR BUTT ENDS ADJACENT TO WRAPPED EDGES.
6. SUPPORT ALL EDGES AND ENDS OF EACH BOARD ON FRAMING OR BY SOLID SUBSTRATE, EXCEPT THAT LONG EDGES AT RIGHT ANGLES TO FRAMING MEMBERS IN NON-FIRE-RATED CONSTRUCTION MAY BE LEFT UNSUPPORTED.
7. IN DOUBLE-LAYER CEILING WORK, APPLY BASE LAYER WITH LONG EDGES PERPENDICULAR TO FRAMING MEMBERS, WITH FACE LAYER IN OPPOSITE DIRECTION, AND WITH ALL JOINTS OFFSET.

- B. CONTROL JOINTS: FORM CONTROL JOINTS BY MEANS OF 1/4-INCH SPACE BETWEEN ADJACENT GWB OR CBB, WITH EACH EDGE SUPPORTED ON SEPARATE FRAMING MEMBER, READY TO RECEIVE TRIM ACCESSORY, AND LOCATED AS SHOWN ON THE DRAWINGS AND AS FOLLOWS:
 1. NOT MORE THAN 30 FEET APART ON WALLS WHICH ARE NOT INTERSECTED BY OTHER WALLS FOR 50 FEET OR MORE.
 2. AT EXTERIOR SOFFITS, NOT MORE THAN 30 FEET APART IN BOTH DIRECTIONS.

- C. SOUND-RATED CONSTRUCTION: SEAL PERIMETER OF CONSTRUCTION WITH ACOUSTICAL SEALANT, COMPLYING WITH ASTM C 919. CAREFULLY SEAL AROUND PENETRATIONS AND AT CONTROL JOINTS AND OTHER OPENINGS.
1. AT PARTITIONS SHOWN OR WHERE REQUIRED FOR STC RATINGS INDICATED, INSTALL CLEAR SPRAY ON INSULATION AFTER GWB OR CBB HAS BEEN INSTALLED ON ONE SIDE.
- D. INSTALLATION ON WOOD OR METAL METAL FRAMING AS INDICATED:
 1. SINGLE LAYER APPLICATION: INSTALL GWB OR CBB BY MEANS OF SCREW ATTACHMENT.
 - a. ON WALLS AND PARTITIONS, PLAN INSTALLATION SO THAT LEADING EDGE OR END OF GWB OR CBB IS ATTACHED TO OPEN END OF STUD FLANGE FIRST.
 2. FOR FIRE-RATED CONSTRUCTION, INSTALL GWB OR CBB BY MEANS OF SCREWS AS SPECIFIED FOR THE TESTED ASSEMBLY.
 3. AT "WET" LOCATIONS, AND AT ALL AREAS INDICATED TO RECEIVE CERAMIC TILE FINISH, 5/8" CEMENT BOARD, COMPLYING WITH MANUFACTURER'S RECOMMENDATIONS FOR INSTALLATION, INCLUDING MINIMUM CLEARANCES AND SEALING OF PENETRATIONS AND EDGES.

3.02 INSTALLATION OF TRIM AND ACCESSORIES

- A. GENERAL: COMPLY WITH MANUFACTURER'S RECOMMENDATIONS FOR INSTALLATION OF TRIM ITEMS. EXCEPT FOR ITEMS INTENDED BY MANUFACTURER TO BE LEFT EXPOSED OR SEMIEXPOSED, INSTALL TRIM UNITS FOR CONCEALMENT IN JOINT F FINISHING COMPOUND. WHEREVER POSSIBLE, FASTEN METAL TRIM ITEMS TO SUBSTRATE WITH SAME FASTENERS USED TO INSTALL GYPSUM BOARD PRODUCTS.
1. CORNER BEAD: INSTALL METAL CORNER BEAD AT ALL EXTERNAL CORNERS UNLESS DETAILS CLEARLY INDICATE ITS OMISSION AT SPECIFIC LOCATIONS.
2. EDGE TRIM: INSTALL EDGE TRIM AT LOCATIONS INDICATED AND WHEREVER EDGE OF GYPSUM BOARD OTHERWISE WOULD BE EXPOSED.
3. CONTROL JOINTS: INSTALL ONE-PIECE CONTROL JOINTS AT REQUIRED LOCATION; DO NOT REMOVE TAPE UNTIL FINISHING OPERATIONS ARE COMPLETE.

3.03 FINISHING

- A. GENERAL: COMPLY WITH ASTM C 840 AND GA-216 EXCEPT WHERE EXCEEDED BY OTHER REQUIREMENTS.
1. DO NOT MIX JOINT COMPOUNDS EXCEPT AS SPECIFICALLY RECOMMENDED BY MANUFACTURER.

- B. FINISH GYPSUM BOARD IN ACCORDANCE WITH THE FOLLOWING LEVEL OF FINISH, EXCEPT WHERE INDICATED OTHERWISE ON THE DRAWINGS:
 1. LEVEL 4: EMBED TAPE IN JOINT COMPOUND AT ALL JOINTS AND INTERIOR ANGLE; PROVIDE THREE SEPARATE COATS OF COMPOUND AT ALL JOINTS, ANGLES, FASTENER HEADS, AND ACCESSORIES. PROVIDE SMOOTH SURFACES FREE OF TOOL MARKS AND RIDGES.

- C. JOINT TREATMENT: TAPE AND FINISH JOINTS IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS FOR COMPOUNDS USED, USING PROPER TOOLS DESIGNED FOR THE PURPOSE:
 1. AVOID RAISING NAP OF FACE PAPER WHEN SANDING- CAREFULLY SPONGE DOWN ANY AREAS ROUGHENED BY SANDING PROCESS.
 2. PARTICULAR CARE SHALL BE TAKEN IN ALL TAPING AND FINISHING OPERATIONS TO ENSURE INVISIBILITY OF JOINTS AND PATCHING.

- D. PENETRATIONS: FILL CUTOUTS AND OPENINGS AROUND FIXTURES AND PENETRATIONS WITH JOINT COMPOUND.

3.04 CLEANING

- A. PROMPTLY REMOVE ANY RESIDUAL GYPSUM DRYWALL MATERIALS FROM ADJACENT OR ADJOINING SURFACES, LEAVING SPACES READY FOR SUBSEQUENT FINISHING OPERATIONS AND DECORATING.

END OF SECTION 09260

SECTION 09653 - RESILIENT WALL BASE AND ACCESSORIES

PART 1 - GENERAL

- 1.1 SECTION REQUIREMENTS
- A. SUBMITTALS: PRODUCT DATA AND SAMPLES.
- B. EXTRA MATERIALS: DELIVER TO OWNER AT LEAST 30 LINEAR FEET, OF EACH TYPE AND COLOR OF RESILIENT WALL BASE INSTALLED.

PART 2 - PRODUCTS

- 2.1 WALL BASE
- A. PRODUCTS:
 1. FLEXCO, A DIVISION OF TEXTILE RUBBER CO.
 - B. COLOR AND PATTERN: TO BE SELECTED BY CLIENT.
 - C. STYLE: [CODE WITH TOP-SET TOE]
 - F. MINIMUM THICKNESS: [0.080 INCH (2.0 MM)]
 - G. HEIGHT: [4 INCHES (101.6 MM)]
 - H. LENGTHS: [CUT LENGTHS 48 INCHES (1219.2 MM) LONG] [OR] [COILS IN MANUFACTURER'S STANDARD LENGTHS].
1. OUTSIDE CORNERS: [PREMOLDED].
- J. INSIDE CORNERS: [PREMOLDED].
- 2.2 INSTALLATION ACCESSORIES
- A. TROWELABLE LEVELING AND PATCHING COMPOUNDS:
 - LATEX-MODIFIED PORTLAND CEMENT OR BLENDED HYDRAULIC CEMENT-BASED FORMULATION PROVIDED OR APPROVED BY FLOORING MANUFACTURER FOR APPLICATIONS INDICATED.
 - B. ADHESIVES: WATER-RESISTANT TYPE RECOMMENDED BY MANUFACTURER TO SUIT PRODUCTS AND SUBSTRATE CONDITIONS.
- C. STAIR-TREAD-NOSE FILLER: TWO-PART EPOXY COMPOUND RECOMMENDED BY RESILIENT TREAD MANUFACTURER TO FILL NOSING SUBSTRATES THAT DO NOT CONFORM TO TREAD CONTOURS.

- 3.1 INSTALLATION
- A. PREPARE CONCRETE SUBSTRATES ACCORDING TO ASTM F 710. VERIFY THAT SUBSTRATES ARE DRY AND FREE OF CURING COMPOUNDS, SEALERS, AND HARDENERS.
- B. ADHESIVELY INSTALL RESILIENT WALL BASE AND ACCESSORIES.
- C. INSTALL WALL BASE IN MAXIMUM LENGTHS POSSIBLE. APPLY TO WALLS, COLUMNS, PILASTERS, CASEWORK, AND OTHER PERMANENT FIXTURES IN ROOMS OR AREAS WHERE BASE IS REQUIRED.
- D. INSTALL STAIR-TREAD-NOSE FILLER TO NOSING SUBSTRATES THAT DO NOT CONFORM TO TREAD CONTOURS.
- E. INSTALL REDUCER STRIPS AT EDGES OF FLOOR COVERINGS THAT WOULD OTHERWISE BE EXPOSED.

END OF SECTION 09653

SECTION 09900 - PAINTING

PART 1 - GENERAL

- 1.01 SUMMARY:
 - A. SECTION INCLUDES:
 1. PAINTING AND FINISHING OF EXPOSED INTERIOR ITEMS AND SURFACES.
 2. SECTION DOES NOT INCLUDE:
 3. PRE-FINISHED ITEMS.
 4. CONCEALED SURFACES, UNLESS SPECIFICALLY INDICATED.
 5. OPERATING PARTS.
- 1.02 DEFINITIONS:
 - A. DFM (DRY FILM MILS): THICKNESS, MEASURED IN MILS, OF A COAT OF PAINT IN THE CURED STATE.

PART 2 - MATERIALS

- A. PRODUCT DATA: SUBMIT COMPLETE COLOR BOOK AND/OR STAIN SAMPLES OR 1.03 SUBMITTALS:
 - A. GENERAL: PREPARE AND CLEAN EACH SUBSTRATE CONDITION IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS AND AS HEREIN SPECIFIED.
 - B. PROVIDE BARRIER COATS OR REMOVE AND RE-PRIME INCOMPATIBLE PRIMERS AS REQUIRED.
 - C. REMOVE ELECTRICAL PLATES, HARDWARE, LIGHT FIXTURE TRIM, AND FITTINGS PRIOR TO PREPARING OR FINISHING SURFACES.
 - D. REINSTALL REMOVED ITEMS FOLLOWING THE COMPLETION OF PAINTING OF EACH SPACE OR AREA.
 - E. CLEAN SURFACES BEFORE APPLYING SURFACE TREATMENT.
 - F. REMOVE OIL AND GREASE PRIOR TO MECHANICAL CLEANING.
 - G. COORDINATE CLEANING AND PAINTING TO ENSURE THAT NO CLEANING CONTAMINANTS WILL FALL ONTO NEWLY COATED AREAS.
- 3.04 CEMENTITIOUS MATERIALS:
 - A. PREPARE CEMENTITIOUS SURFACES TO BE COATED BY REMOVING EFFLORESCENCE, CHALK, DUCT, DIRT, GREASE, AND OILS, AND BY ROUGHENING AS REQUIRED TO REMOVE GLAZE.
 - B. DETERMINE ALKALINITY AND MOISTURE CONTENT OF SURFACES TO BE COATED BY PERFORMING APPROPRIATE TESTS.
 - C. DO NOT APPLY COATINGS OVER SURFACES WHERE TEST RESULTS EXCEED PERMITTED IN MANUFACTURER'S PRINTED DIRECTIONS.
 - D. AFTER AGING AS RECOMMENDED BY COATING MANUFACTURER, PREPARE CONCRETE FLOOR SURFACES TO BE COATED WITH AN ACID ETCHING CLEANER
 - E. FLUSH FLOOR WITH CLEAN WATER.
 - F. ALLOW TO DRY BEFORE APPLYING COATINGS.

PART 3 - EXECUTION

- 3.01 INSPECTION:
 - A. VERIFY THAT SURFACES AND CONDITIONS ARE READY FOR WORK AS INSTRUCTED BY THE PROJECT MANUFACTURER.
 - B. EXAMINE SURFACES SCHEDULED TO BE FINISHED, PRIOR TO COMMENCEMENT OF WORK.
 - C. REPORT ANY UNSATISFACTORY CONDITIONS IN WRITING TO THE CONTRACTOR.
 - D. DO NOT PROCEED WITH WORK UNTIL UNSATISFACTORY CONDITIONS HAVE BEEN CORRECTED IN A MANNER ACCEPTABLE TO THE APPLICATOR. STARTING OF PAINTING WORK IN ANY PARTICULAR AREA WILL BE CONSIDERED AS ACCEPTANCE OF SURFACES AND CONDITIONS WITHIN THAT AREA.
- 3.02 DO NOT PAINT OVER ANY CODE-REQUIRED LABELS, EQUIPMENT PLATES, IDENTIFICATION, OF PERFORMANCE RATING, NAME, OR NOMENCLATURE
- 3.03 SURFACE PREPARATION:
 - A. GENERAL: PREPARE AND CLEAN EACH SUBSTRATE CONDITION IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS AND AS HEREIN SPECIFIED.
 - B. PROVIDE BARRIER COATS OR REMOVE AND RE-PRIME INCOMPATIBLE PRIMERS AS REQUIRED.
 - C. REMOVE ELECTRICAL PLATES, HARDWARE, LIGHT FIXTURE TRIM, AND FITTINGS PRIOR TO PREPARING OR FINISHING SURFACES.
 - D. REINSTALL REMOVED ITEMS FOLLOWING THE COMPLETION OF PAINTING OF EACH SPACE OR AREA.
 - E. CLEAN SURFACES BEFORE APPLYING SURFACE TREATMENT.
 - F. REMOVE OIL AND GREASE PRIOR TO MECHANICAL CLEANING.
 - G. COORDINATE CLEANING AND PAINTING TO ENSURE THAT NO CLEANING CONTAMINANTS WILL FALL ONTO NEWLY COATED AREAS.

PART 4 - EXECUTION

- B. CERTIFICATION THAT EACH PRODUCT MEETS OR EXCEEDS VOC AND OTHER ENVIRONMENTAL STANDARDS PER FEDERAL, AND LOCAL LAW, AND THE LAWS OF THE STATE IN WHICH THE PROJECT IS BEING BUILT.

PART 5 - EXECUTION

- C. EQUIVALENCY CHART: CONTRACTORS PROPOSING TO USE A MANUFACTURER NOT LISTED HEREIN SHALL SUBMIT A TABULAR SUMMARY OF EACH PRODUCT BEING PROPOSED COMPARED TO COMPARABLE PRODUCTS AS MANUFACTURED BY BENJAMIN MOORE.

1.04 SINGLE SOURCE RESPONSIBILITY:

- A. ALL MATERIALS REQUIRED BY THIS SECTION SHALL BE PROVIDED BY A SINGLE MANUFACTURER, UNLESS OTHERWISE REQUIRED OR APPROVED.
- B. APPLICATOR: FIRM WITH NOT LESS THAN 3 YEARS OF SUCCESSFUL EXPERIENCE IN PAINTING WORK SIMILAR IN SCOPE TO WORK OF THIS PROJECT.

1.05 MAINTAIN THROUGHOUT DURATION OF THE WORK A CREW OF PAINTERS WHO ARE FULLY QUALIFIED TO SATISFY REQUIREMENTS OF THE SPECIFICATIONS.

1.06 DELIVERY, STORAGE, AND HANDLING:

- A. REGARDLESS OF THE MANUFACTURER BEING USED, ALL PAINT MATERIALS SHALL BE PURCHASED IN THE STATE WHERE THE PROJECT IS BEING BUILT.

B. DELIVERY: DELIVERY MATERIALS TO PROJECT SITE IN ORIGINAL, NEW UNOPENED PACKAGES AND CONTAINER BEARING THE MANUFACTURER'S NAME AND LABEL AND THE FOLLOWING INFORMATION.

1. NAME OF TITLE OF MATERIAL
2. MANUFACTURER'S STOCK NUMBER AND DATE OF MANUFACTURE.
3. MANUFACTURER'S NAME.

R 4. CONTENTS BY VOLUME FOR MAJOR PIGMENT AND VEHICLE CONSTITUENTS.

5. THINNING INSTRUCTIONS.

6. APPLICATION INSTRUCTIONS.

7. COLOR NAME AND NUMBER.

C. STORE MATERIALS IN TIGHTLY COVERED CONTAINERS.

1.08 COORDINATION:

- A. GENERAL: PERFORM WORK IN PROPER SEQUENCE WITH WORK OF OTHER TRADES TO AVOID DAMAGE TO FINISHED WORK.

B. PRIMERS: PROVIDE FINISH COATS WHICH ARE COMPATIBLE WITH PRIME COATS USED. REVIEW OTHER SECTIONS OF THESE SPECIFICATIONS IN WHICH PRIME COATS ARE TO BE PROVIDED, TO ENSURE COMPATIBILITY OF TOTAL COATINGS SYSTEM FOR VARIOUS SUBSTRATES.

C. UPON REQUEST, FURNISH INFORMATION TO OTHER TRADES ON CHARACTERISTICS OF FINISH MATERIALS PROPOSED FOR USE. PROVIDE BARRIER COATS OVER INCOMPATIBLE PRIMERS, OR REMOVE AND RE-PRIME AS REQUIRED. NOTIFY THE ARCHITECT IN WRITING OF ANY ANTICIPATED PROBLEMS USING SPECIFIED COATING SYSTEMS WITH SUBSTRATES PRIMED BY OTHERS.

PART 2 - MATERIALS

- 2.01 ACCEPTABLE MANUFACTURERS:
 1. EXCEPT AS OTHERWISE SPECIFIED, MATERIALS SHALL BE THE PRODUCTS OF THE FOLLOWING MANUFACTURERS:
 - A. GLIDDEN
 - B. SHERWIN WILLIAMS, CO. (SPECIFIED)
- C. BENJAMIN MOORE

- 2.02 MATERIALS SELECTED FOR COATING SYSTEMS FOR EACH TYPE SURFACE SHALL BE THE PRODUCT OF A SINGLE MANUFACTURER.

2.03 MIXING AND TINTING:

- A. DELIVER PAINTS AND ENAMELS READY-MIXED TO JOB SITE.
- B. FUNGICIDAL AGENT SHALL BE INCORPORATED INTO PAINT BY MANUFACTURER.

PART 3 - EXECUTION

- 3.01 INSPECTION:
 - A. VERIFY THAT SURFACES AND CONDITIONS ARE READY FOR WORK AS INSTRUCTED BY THE PROJECT MANUFACTURER.
 - B. EXAMINE SURFACES SCHEDULED TO BE FINISHED, PRIOR TO COMMENCEMENT OF WORK.
 - C. REPORT ANY UNSATISFACTORY CONDITIONS IN WRITING TO THE CONTRACTOR.
 - D. DO NOT PROCEED WITH WORK UNTIL UNSATISFACTORY CONDITIONS HAVE BEEN CORRECTED IN A MANNER ACCEPTABLE TO THE APPLICATOR. STARTING OF PAINTING WORK IN ANY PARTICULAR AREA WILL BE CONSIDERED AS ACCEPTANCE OF SURFACES AND CONDITIONS WITHIN THAT AREA.
- 3.02 DO NOT PAINT OVER ANY CODE-REQUIRED LABELS, EQUIPMENT PLATES, IDENTIFICATION, OF PERFORMANCE RATING, NAME, OR NOMENCLATURE
- 3.03 SURFACE PREPARATION:
 - A. GENERAL: PREPARE AND CLEAN EACH SUBSTRATE CONDITION IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS AND AS HEREIN SPECIFIED.
 - B. PROVIDE BARRIER COATS OR REMOVE AND RE-PRIME INCOMPATIBLE PRIMERS AS REQUIRED.
 - C. REMOVE ELECTRICAL PLATES, HARDWARE, LIGHT FIXTURE TRIM, AND FITTINGS PRIOR TO PREPARING OR FINISHING SURFACES.
 - D. REINSTALL REMOVED ITEMS FOLLOWING THE COMPLETION OF PAINTING OF EACH SPACE OR AREA.
 - E. CLEAN SURFACES BEFORE APPLYING SURFACE TREATMENT.
 - F. REMOVE OIL AND GREASE PRIOR TO MECHANICAL CLEANING.
 - G. COORDINATE CLEANING AND PAINTING TO ENSURE THAT NO CLEANING CONTAMINANTS WILL FALL ONTO NEWLY COATED AREAS.

PART 4 - EXECUTION

- 3.01 INSPECTION:
 - A. VERIFY THAT SURFACES AND CONDITIONS ARE READY FOR WORK AS INSTRUCTED BY THE PROJECT MANUFACTURER.
 - B. EXAMINE SURFACES SCHEDULED TO BE FINISHED, PRIOR TO COMMENCEMENT OF WORK.
 - C. REPORT ANY UNSATISFACTORY CONDITIONS IN WRITING TO THE CONTRACTOR.
 - D. DO NOT PROCEED WITH WORK UNTIL UNSATISFACTORY CONDITIONS HAVE BEEN CORRECTED IN A MANNER ACCEPTABLE TO THE APPLICATOR. STARTING OF PAINTING WORK IN ANY PARTICULAR AREA WILL BE CONSIDERED AS ACCEPTANCE OF SURFACES AND CONDITIONS WITHIN THAT AREA.
- 3.02 DO NOT PAINT OVER ANY CODE-REQUIRED LABELS, EQUIPMENT PLATES, IDENTIFICATION, OF PERFORMANCE RATING, NAME, OR NOMENCLATURE
- 3.03 SURFACE PREPARATION:
 - A. GENERAL: PREPARE AND CLEAN EACH SUBSTRATE CONDITION IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS AND AS HEREIN SPECIFIED.
 - B. PROVIDE BARRIER COATS OR REMOVE AND RE-PRIME INCOMPATIBLE PRIMERS AS REQUIRED.
 - C. REMOVE ELECTRICAL PLATES, HARDWARE, LIGHT FIXTURE TRIM, AND FITTINGS PRIOR TO PREPARING OR FINISHING SURFACES.
 - D. REINSTALL REMOVED ITEMS FOLLOWING THE COMPLETION OF PAINTING OF EACH SPACE OR AREA.
 - E. CLEAN SURFACES BEFORE APPLYING SURFACE TREATMENT.
 - F. REMOVE OIL AND GREASE PRIOR TO MECHANICAL CLEANING.
 - G. COORDINATE CLEANING AND PAINTING TO ENSURE THAT NO CLEANING CONTAMINANTS WILL FALL ONTO NEWLY COATED AREAS.

PART 5 - EXECUTION

- 3.01 INSPECTION:
 - A. VERIFY THAT SURFACES AND CONDITIONS ARE READY FOR WORK AS INSTRUCTED BY THE PROJECT MANUFACTURER.
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 - C. REPORT ANY UNSATISFACTORY CONDITIONS IN WRITING TO THE CONTRACTOR.
 - D. DO NOT PROCEED WITH WORK UNTIL UNSATISFACTORY CONDITIONS HAVE BEEN CORRECTED IN A MANNER ACCEPTABLE TO THE APPLICATOR. STARTING OF PAINTING WORK IN ANY PARTICULAR AREA WILL BE CONSIDERED AS ACCEPTANCE OF SURFACES AND CONDITIONS WITHIN THAT AREA.
- 3.02 DO NOT PAINT OVER ANY CODE-REQUIRED LABELS, EQUIPMENT PLATES, IDENTIFICATION, OF PERFORMANCE RATING, NAME, OR NOMENCLATURE
- 3.03 SURFACE PREPARATION:
 - A. GENERAL: PREPARE AND CLEAN EACH SUBSTRATE CONDITION IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS AND AS HEREIN SPECIFIED.
 - B. PROVIDE BARRIER COATS OR REMOVE AND RE-PRIME INCOMPATIBLE PRIMERS AS REQUIRED.
 - C. REMOVE ELECTRICAL PLATES, HARDWARE, LIGHT FIXTURE TRIM, AND FITTINGS PRIOR TO PREPARING OR FINISHING SURFACES.
 - D. REINSTALL REMOVED ITEMS FOLLOWING THE COMPLETION OF PAINTING OF EACH SPACE OR AREA.
 - E. CLEAN SURFACES BEFORE APPLYING SURFACE TREATMENT.
 - F. REMOVE OIL AND GREASE PRIOR TO MECHANICAL CLEANING.
 - G. COORDINATE CLEANING AND PAINTING TO ENSURE THAT NO CLEANING CONTAMINANTS WILL FALL ONTO NEWLY COATED AREAS.

PART 6 - EXECUTION

- 3.01 INSPECTION:
 - A. VERIFY THAT SURFACES AND CONDITIONS ARE READY FOR WORK AS INSTRUCTED BY THE PROJECT MANUFACTURER.
 - B. EXAMINE SURFACES SCHEDULED TO BE FINISHED, PRIOR TO COMMENCEMENT OF WORK.
 - C. REPORT ANY UNSATISFACTORY CONDITIONS IN WRITING TO THE CONTRACTOR.
 - D. DO NOT PROCEED WITH WORK UNTIL UNSATISFACTORY CONDITIONS HAVE BEEN CORRECTED IN A MANNER ACCEPTABLE TO THE APPLICATOR. STARTING OF PAINTING WORK IN ANY PARTICULAR AREA WILL BE CONSIDERED AS ACCEPTANCE OF SURFACES AND CONDITIONS WITHIN THAT AREA.
- 3.02 DO NOT PAINT OVER ANY CODE-REQUIRED LABELS, EQUIPMENT PLATES, IDENTIFICATION, OF PERFORMANCE RATING, NAME, OR NOMENCLATURE
- 3.03 SURFACE PREPARATION:
 - A. GENERAL: PREPARE AND CLEAN EACH SUBSTRATE CONDITION IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS AND AS HEREIN SPECIFIED.
 - B. PROVIDE BARRIER COATS OR REMOVE AND RE-PRIME INCOMPATIBLE PRIMERS AS REQUIRED.
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 - G. COORDINATE CLEANING AND PAINTING TO ENSURE THAT NO CLEANING CONTAMINANTS WILL FALL ONTO NEWLY COATED AREAS.

PART 7 - EXECUTION

- 3.01 INSPECTION:
 - A. VERIFY THAT SURFACES AND CONDITIONS ARE READY FOR WORK AS INSTRUCTED BY THE PROJECT MANUFACTURER.
 - B. EXAMINE SURFACES SCHEDULED TO BE FINISHED, PRIOR TO COMMENCEMENT OF WORK.
 - C. REPORT ANY UNSATISFACTORY CONDITIONS IN WRITING TO THE CONTRACTOR.
 - D. DO NOT PROCEED WITH WORK UNTIL UNSATISFACTORY CONDITIONS HAVE BEEN CORRECTED IN A MANNER ACCEPTABLE TO THE APPLICATOR. STARTING OF PAINTING WORK IN ANY PARTICULAR AREA WILL BE CONSIDERED AS ACCEPTANCE OF SURFACES AND CONDITIONS WITHIN THAT AREA.
- 3.02 DO NOT PAINT OVER ANY CODE-REQUIRED LABELS, EQUIPMENT PLATES, IDENTIFICATION, OF PERFORMANCE RATING, NAME, OR NOMENCLATURE
- 3.03 SURFACE PREPARATION:
 - A. GENERAL: PREPARE AND CLEAN EACH SUBSTRATE CONDITION IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS AND AS HEREIN SPECIFIED.
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 - E. CLEAN SURFACES BEFORE APPLYING SURFACE TREATMENT.
 - F. REMOVE OIL AND GREASE PRIOR TO MECHANICAL CLEANING.
 - G. COORDINATE CLEANING AND PAINTING TO ENSURE THAT NO CLEANING CONTAMINANTS WILL FALL ONTO NEWLY COATED AREAS.

PART 8 - EXECUTION

- 3.01 INSPECTION:
 - A. VERIFY THAT SURFACES AND CONDITIONS ARE READY FOR WORK AS INSTRUCTED BY THE PROJECT MANUFACTURER.
 - B. EXAMINE SURFACES SCHEDULED TO BE FINISHED, PRIOR TO COMMENCEMENT OF WORK.
 - C. REPORT ANY UNSATISFACTORY CONDITIONS IN WRITING TO THE CONTRACTOR.
 - D. DO NOT PROCEED WITH WORK UNTIL UNSATISFACTORY CONDITIONS HAVE BEEN CORRECTED IN A MANNER ACCEPTABLE TO THE APPLICATOR. STARTING OF PAINTING WORK IN ANY PARTICULAR AREA WILL BE CONSIDERED AS ACCEPTANCE OF SURFACES AND CONDITIONS WITHIN THAT AREA.
- 3.02 DO NOT PAINT OVER ANY CODE-REQUIRED LABELS, EQUIPMENT PLATES, IDENTIFICATION, OF PERFORMANCE RATING, NAME, OR NOMENCLATURE
- 3.03 SURFACE PREPARATION:
 - A. GENERAL: PREPARE AND CLEAN EACH SUBSTRATE CONDITION IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS AND AS HEREIN SPECIFIED.
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 - E. CLEAN SURFACES BEFORE APPLYING SURFACE TREATMENT.
 - F. REMOVE OIL AND GREASE PRIOR TO MECHANICAL CLEANING.
 - G. COORDINATE CLEANING AND PAINTING TO ENSURE THAT NO CLEANING CONTAMINANTS WILL FALL ONTO NEWLY COATED AREAS.

3.05 WOOD:

- A. CLEAN WOOD SURFACES TO BE COATED WITH SCRAPERS, MINERAL SPIRITS, AND SANDPAPER, AS REQUIRED.
- B. SAND SMOOTH THOSE FINISHED SURFACES EXPOSED TO VIEW, AND DUST OFF.
- C. SCRAPE AND CLEAN SMALL, DRY, SEASONED KNOTS AND APPLY A THIN COAT OF WHITE SHELLAC OR OTHER RECOMMENDED KNOT SEALER BEFORE APPLICATION OF PRIMING COAT.
- D. AFTER PRIMING, FILL HOLES AND IMPERFECTIONS IN FINISH SURFACES WITH PUTTY, PLASTIC WOOD FILLER, OR EXTERIOR CAULKING COMPOUND AS APPLICABLE.
- E. SAND SMOOTH WHEN DRIED.

3.06 FERROUS METALS:

- A. CLEAN FERROUS SURFACES WHICH ARE NOT GALVANIZED OR SHOP-COATED, REMOVING OIL, GREASE, DIRT, LOOSE MILL SCALE, OR OTHER FOREIGN SUBSTANCES BY MEANS OF SOLVENTS, WIRE BRUSHING, HAND-OR POWER-TOOL CLEANING, OR SANDBLASTING TO ACHIEVE DEGREE OF PREPARATION RECOMMENDED BY COATING MANUFACTURER, EXCEPT WHERE SPECIFIC AND MORE STRINGENT REQUIREMENTS ARE CONTAINED IN THE CONTRACT DOCUMENTS.

3.07 GYPSUM BOARD:

- A. LATEX-FILL MINOR DEFECTS.
- B. SPOT-PRIME DEFECTS AFTER REPAIR.
- C. MILDEW: REMOVE MILDEW BY SCRUBBING WITH SOLUTION OF TRISODIUM PHOSPHATE AND BLEACH. RINSE WITH CLEAN WATER AND ALLOW SURFACE TO DRY.

3.08 MATERIALS PREPARATION:

- A. MIX AND PREPARE COATINGS MATERIALS IN ACCORDANCE WITH MANUFACTURER'S DIRECTIONS.
- B. STIR MATERIALS BEFORE APPLICATION, TO PRODUCE A MIXTURE OF UNIFORM DENSITY; STR AS REQUIRED DURING APPLICATION.
- C. DO NOT STIR FILM INTO MATERIAL.
- D. REMOVE FILM, AND IF NECESSARY STRAIN MATERIAL BEFORE USING.
- E. MAINTAIN CONTAINERS USED IN MIXING AND APPLICATION OF COATING IN A CLEAN CONDITION, FREE OF FOREIGN MATERIALS AND RESIDUE.

3.09 APPLICATION

- A. GENERAL:
 1. APPLY COATING IN ACCORDANCE WITH MANUFACTURER'S DIRECTIONS.
 2. USE APPLICATORS AND TECHNIQUES BEST SUITED FOR SUBSTRATE AND TYPE OF MATERIAL BEING APPLIED.
 3. SURFACE IMPERFECTIONS WILL NOT BE