SECTION 00100 – INSTRUCTIONS TO BIDDERS

1. AIA DOCUMENT A701, 1997 EDITION "INSTRUCTIONS OF BIDDERS" ARE INCLUDED AS PART OF THESE SPECIFICATIONS SAME AS IF HEREIN REPRINTED IN FULL.

   A) A COPY OF AIA A701, 1997 MAY BE OBTAINED FROM OWNER, ARCHITECT, OR DIRECTLY FROM THE AMERICAN INSTITUTE OF ARCHITECTS, 1735 NEW YORK AVENUE, N.W. WASHINGTON, D.C. 20006.

SECTION 00120 – SUPPLEMENTARY INSTRUCTIONS TO BIDDERS

THE FOLLOWING SUPPLEMENTS MODIFY, CHANGE, DELETE FROM, OR ADD TO THE INSTRUCTIONS TO BIDDERS (AIA A701, 1987 EDITION). WHERE ANY ARTICLE OF THE INSTRUCTION TO BIDDERS IS MODIFIED OR ANY PARAGRAPH, SUB-PARAGRAPH, OR CLAUSE THEREOF IS MODIFIED OR DELETED BY THESE SUPPLEMENTAL INSTRUCTIONS, THE UNALTERED PROVISIONS OF THE ARTICLE, PARAGRAPH, SUB-PARAGRAPH, OR CLAUSE SHALL REMAIN IN EFFECT.

1. ARTICLE 1, PARAGRAPH 1.8, ADD:

   BIDDING IS BY INVITATION, FROM THE OWNER, ONLY.

2. ARTICLE 1, ADD PARAGRAPH 1.10:

   1.10 THE TERM "ARCHITECT" AS USED HEREIN, SHALL BE CONSTRUED TO MEAN THE "OWNER", AS THE OWNER WILL ADMINISTER THE BIDDING PROCEDURE.

3. ARTICLE 3, PARAGRAPH 3.1.1:

   OWNER WILL PROVIDE EACH INVITED BIDDER ONE (1) SET OF SEPIAS OF THE BIDDING DOCUMENTS. EXTRA SETS MAY BE REQUESTED FROM THE OWNER OF A NON-REFUNDABLE COST. DEPOSIT IS OF OWNER'S DISCRETION.

4. ARTICLE 4, PARAGRAPH 4.1.1 DELETE AND INSERT THE FOLLOWING:

   4.1.1 BIDS SHALL BE SUBMITTED ON FORMS IDENTICAL TO THE BID FORM PROVIDED BY THE OWNER; ONE (1) ORIGINAL WITH ORIGINAL SIGNATURE(S). BIDS TRANSMITTED VIA FACSIMILE, PROVIDED THEY ARE RECEIVED BY THE PRESCRIBED DEADLINE, ARE ACCEPTABLE. ORIGINALS SHALL BE SENT BY OVERNIGHT SERVICE FOR NEXT DAY DELIVERY.

5. ARTICLE 4, PARAGRAPH 4.2:

   DELETE THIS PARAGRAPH IN ITS ENTIRETY, AS NO BID SECURITY WILL BE REQUIRED.

6. ARTICLE 4, PARAGRAPH 4.4.1:

   THE "STIPULATED TIME PERIOD" SHALL BE CONSTRUED AS 45 CALENDAR DAYS.

7. ARTICLE 5, PARAGRAPH 5.3.3:

   5.3.3 VOLUNTARY ALTERNATES, IF OFFERED BY THE BIDDER, WILL NOT BE CONSIDERED IN DETERMINING THE LOWEST RESPONSIBLE BID, HOWEVER, THE OWNER RESERVES THE RIGHT TO ACCEPT OR REJECT,, ANY OR ALL VOLUNTARY ALTERNATES, PRIOR TO AWARD OF CONTRACT.

8. ARTICLE 6, PARAGRAPH 6.2:

   DELETE THIS PARAGRAPH IN IT'S ENTIRETY.

9. ARTICLE 7, PARAGRAPH 7.1.1:

   BOND REQUIREMENT WILL BE AN OPTION RESERVED BY THE OWNER.

10. ARTICLE 7, PARAGRAPH 7.2.2:

    DELETE "UNLESS OTHERWISE PROVIDED, " AND SUBSTITUTE: "UNLESS OTHERWISE ACCEPTABLE TO THE OWNER."

SECTION 00220 – GEOTECHNICAL DATA

1. SUBSURFACE REPORT

   A) THE OWNER HAS HAD A SUBSURFACE INVESTIGATION PERFORMED BY A GEOTECHNICAL CONSULTANT, IN WHICH THE PARAMETERS OF WHICH ARE NOTED ON THE DRAWINGS. THE CONSULTANT'S REPORT PRESENTS THEIR CONCLUSIONS ON SUBSURFACE CONDITIONS, BASED ON THEIR INTERPRETATIONS OF THE DATA OBTAINED IN THE INVESTIGATION. THE CONTRACTOR ACKNOWLEDGES THAT HE/SHE HAS REVIEWED THE CONSULTANT'S REPORT AND ANY ADDENDA THERETO, AND THAT THE BID FOR EXCAVATION OPERATIONS, INCLUDING ALL NECESSARY ROCK REMOVAL, IS BASED ON THE SUBSURFACE CONDITIONS AS DESCRIBED IN SAID REPORT. IT IS RECOGNIZED THAT A SUBSURFACE INVESTIGATION MAY NOT DISCLOSE ALL CONDITIONS AS THEY ACTUALLY EXIST BETWEEN THE TIME OF A SUBSURFACE INVESTIGATION AND THE TIME EXCAVATION OPERATIONS. IN RECOGNITION OF EQUITABLE ADDITIONAL COMPENSATION FOR THE CONTRACTOR IF ADVERSE UNANTICIPATED CONDITIONS ARE ENCOUNTERED, AND TO PROVIDE A MEANS OF REBATE TO THE OWNER IF THE CONDITIONS ARE MORE FAVORABLE THAN ANTICIPATED.

   B) AT ANY POINT IN TIME DURING EXCAVATION OPERATIONS THAT THE CONTRACTOR ENCOUNTERS CONDITIONS THAT ARE DIFFERENT THAN THOSE ANTICIPATED BY THE FOUNDATION CONSULTANT'S REPORT, THE CONTRACTOR SHALL IMMEDIATELY (WITHIN 24 HOURS) BRING THIS FACT TO THE OWNER'S ATTENTION. ONCE A FACT OF UNANTICIPATED CONDITIONS HAS BEEN BROUGHT TO THE ATTENTION OF THE OWNER, AND THE CONSULTANT HAS CONCURRED, IMMEDIATE NEGOTIATIONS WILL BE UNDERTAKEN BETWEEN THE OWNER, AND THE CONTRACTOR TO ARRIVE AT A CHANGE IN CONTRACT PRICE FOR ADDITIONAL WORK OR REDUCTION IN WORK BECAUSE OF THE UNANTICIPATED CONDITIONS. THE CONTRACTOR AGREES THAT THE STATED UNIT PRICE WOULD APPLY FOR ADDITIONAL OR REDUCED WORK UNDER THE CONTRACT.

   C) THE SOIL INVESTIGATION REPORT IS NOT INTENDED AS REPRESENTATIONS OR WARRANTIES OF ACCURACY OF CONTINUITY BETWEEN SOIL BORINGS, AND IS FURNISHED ONLY AS A MATTER OF CONVENIENCE TO THE BIDDER.

SECTION 00300 – BID FORM

1. THE FORM OF PROPOSAL WILL BE FURNISHED SEPARATELY BY THE OWNER.

SECTION 00700 – GENERAL CONDITIONS

1. AIA DOCUMENT A201, 2007 EDITION, "GENERAL CONDITIONS OF THE CONTACT FOR CONSTRUCTION" ARE INCLUDED AS PART OF THESE SPECIFICATIONS SAME AS IF HEREIN REPRINTED IN FULL.

   A) A COPY OF AIA A201, 2007 MAY BE OBTAINED FROM OWNER, ARCHITECT, OR DIRECTLY FROM THE AMERICAN INSTITUTE OF ARCHITECTS, 1735 NEW YORK AVENUE, N.W. WASHINGTON, D.C. 20006.

SECTION 00800 – SUPPLEMENTARY CONDITIONS

THE FOLLOWING SUPPLEMENTS MODIFY, CHANGE, DELETE FROM, OR ADD TO THE INSTRUCTIONS TO BIDDERS (AIA A201, 2007 EDITION). WHERE ANY ARTICLE OF THE INSTRUCTION TO BIDDERS IS MODIFIED OR ANY PARAGRAPH, SUB-PARAGRAPH, OR CLAUSE THEREOF IS MODIFIED OR DELETED BY THE SUPPLEMENTAL INSTRUCTIONS, THE UNALTERED PROVISIONS OF THE ARTICLE, PARAGRAPH, SUB-PARAGRAPH, OR CLAUSE SHALL REMAIN IN EFFECT.

1. ARTICLE 1, PARAGRAPH 4.2.1; DELETE AND SUBSTITUTE:
   4.2.1 ALL REFERENCES USED THROUGHOUT THESE DOCUMENTS REQUIRING THE ARCHITECT TO ACT, APPROVE, OBSERVE OR OTHERWISE USE HIS PROFESSIONAL JUDGMENT REGARDING THIS PROJECT, WILL BECOME THE SOLE RESPONSIBILITY OF THE OWNER, WHO MAY CONSULT WITH THE ARCHITECT ON PERIODIC BASIS AS THE OWNER DEEMS NECESSARY TO ASSURE COMPLIANCE WITH THE CONTRACT DOCUMENTS.

2. ARTICLE 7, PARAGRAPH 7.3.6 IS FURTHER CLARIFIED AS FOLLOWS:

   WHEN THE OWNER AUTHORIZES THE CONTRACTOR TO PERFORM CHANGES OR ADDITIONS INVOLVING EXTRA LABOR AND MATERIAL, AND IF THE CONTRACTOR IS DIRECTED TO PROCEED ON THE BASIS OF THE ACTUAL COST OF LABOR AND MATERIAL BY CHANGE ORDER, THE FOLLOWING ALLOWANCES WILL BE ALLOWED FOR OVERHEAD (INCLUDING BOND AND INSURANCES/ & PROFIT:

   1) FOR THE CONTRACTOR: NET 10%
   2) EXTRA WORK COVERED BY UNIT PRICES AS REQUESTED IN THE BID FORM, INCLUDE CONTRACTOR'S OVERHEAD AND PROFIT.
   3) SUPERINTENDENT'S TIME SHALL NOT BE INCLUDED IN T & M EXTRA WORK

3. ARTICLE 8, ADD PARAGRAPH 8.3.4:

   8.3.4 THE CONTRACTOR SHALL HAVE NO CLAIM FOR AN EXTENSION OF TIME UNLESS SUCH TIME IS STATED ON THE FACE OF A WRITTEN CHANGE ORDER AND APPROVED AND ACCEPTED IN WRITING BY THE OWNER IN SUCH CHANGE ORDER. ANY ATTEMPTED RESERVATION BY THE CONTRACTOR OF THE RIGHT TO SUBSEQUENTLY CLAIM ANY EXTENSION OF TIME NOT STATED ON THE FACE OF A WRITTEN CHANGE ORDER APPROVED AND ACCEPTED BY THE OWNER SHALL BE NULL AND VOID.

4. ARTICLE 9, PARAGRAPH 9.3.1; ADD THE FOLLOWING:

   PAYMENT REQUESTS MUST BE RECEIVED BY THE OWNER NO LATER THAN THE 28TH DAY OF EACH MONTH, AND MUST BE ACCOMPANIED BY A LIEN WAIVER IN FULL FOR EACH PARTICIPATING CONTRACTOR, SUBCONTRACTOR, AND SUPPLIER SEEKING PAYMENT. OWNER WILL NOT BE REQUIRED TO MAKE ANY PAYMENT WITHOUT THE REQUIRED LIEN WAIVERS.

5. ARTICLE 9, PARAGRAPH 9.4: DELETE IN ITS ENTIRETY. (CERTIFICATES FOR PAYMENT)

6. ARTICLE 9, PARAGRAPH 9.6.1; DELETE AND SUBSTITUTE: (PROGRESS PAYMENTS)

   9.6.1 UPON RECEIPT OF CONTRACTOR'S APPLICATION FOR PAYMENT, OWNER WILL MAKE SUCH PAYMENT TO THE CONTRACTOR WITHIN 15 DAYS OR AS SOON AS PRACTICAL THEREAFTER.

7. ARTICLE 9, ADD PARAGRAPHS 9.10.5 AND 9.10.6:

   9.10.5 BEFORE OWNER ISSUES FINAL PAYMENT HEREUNDER, THE CONTRACTOR SHALL SUBMIT TO THE OWNER; (A) AN AFFIDAVIT THAT ALL PAYROLLS AND BILLS FOR MATERIAL AND EQUIPMENT, AND OTHER INDEBTEDNESS CONNECTED WITH WORK FOR WHICH THE OWNER OF IT'S PROPERTY MIGHT IN ANY WAY BE RESPONSIBLE, HAVE BEEN PAID OR OTHERWISE SATISFIED, (B) THE CONSENT OF SURETY TO FINAL PAYMENT: AND (C) IF REQUIRED BY THE OWNER, OTHER DATA ESTABLISHING PAYMENT OR SATISFACTION OF ALL SUCH OBLIGATIONS, SUCH AS RECEIPTS, RELEASES AND WAIVERS OF LIENS ARISING OUT OF THE CONTRACT DOCUMENTS, TO BE THE EXTENT AND IN SUCH FORM AS MAY BE DESIGNATED BY THE OWNER. IF ANY SUBCONTRACTOR AND/OR MATERIALMAN REFUSES TO FURNISH A BOND, AT IT'S EXPENSE, SATISFACTORY TO THE OWNER TO INDEMNIFY THE OWNER AGAINST SUCH LIEN. IF ANY SUCH LIEN REMAINS UNSATISFIED AFTER ALL PAYMENTS ARE MADE, THE CONTRACTOR SHALL REFUND TO THE OWNER ALL MONIES THAT THE OWNER MAY BE COMPELLED TO PAY IN DISCHARGING SUCH LIEN, INCLUDING, WITHOUT LIMITATION, ALL COSTS AND REASONABLE ATTORNEYS FEES.

   9.10.6 ALL WAIVERS AND SUBORDINATION AGREEMENTS REQUIRED HEREUNDER IN THE FORM ACCEPTABLE TO THE OWNER.

8. ARTICLE 11; DELETE FIRST PARAGRAPH 11.1.1 BEGINNING WITH "THE CONTRACTOR" AND ENDING WITH BE LIABLE:' AND SUBSTITUTE TO THE FOLLOWING:

   11.1.1 PRIOR TO THE COMMENCEMENT OF THE WORK, CONTRACTOR SHALL PROCURE, AND CONTRACTOR SHALL MAINTAIN, ALL INSURANCE REQUIRED UNDER THE PARAGRAPH 11.1. CONTRACTOR SHALL REQUIRE EACH SUBCONTRACTOR TO PROCURE COVERAGE ADEQUATE TO PROTECT SUBCONTRACTOR AND IT'S EMPLOYEES. IF THE TERMS OF COVERAGE OF SUCH POLICIES ARE UNACCEPTABLE TO OWNER, CONTRACTOR AND/OR SUBCONTRACTOR SHALL REVISE THE COVERAGE OR OBTAIN ADDITIONAL COVERAGE AS REASONABLE REQUESTED BY OWNER. OWNER'S APPROVAL OF CONTRACTOR'S AND ANY SUBCONTRACTOR'S INSURANCE SHALL NOT RELIEVE OR LIMIT THEIR LIABILITY UNDER THE CONTRACT DOCUMENTS. IN THE EVENT OF THE FAILURE OF CONTRACTOR TO FURNISH AND MAINTAIN SUCH INSURANCE THEN THE OWNER SHALL HAVE THE RIGHT, BUT NOT THE OBLIGATION, TO TAKE OUT AND MAINTAIN SUCH INSURANCE FOR AND IN THE NAME OF CONTRACTOR AND CONTRACTOR SHALL PAY THE COST THEREOF AND FURNISH ALL NECESSARY INFORMATION TO PERMIT THE OWNER TO TAKE OUT AND MAINTAIN SUCH INSURANCE FOR THE ACCOUNT OF CONTRACTOR. CONTRACTOR SHALL NOT ALLOW ANY SUBCONTRACTOR TO COMMENCE WORK ON IT'S SUBCONTRACT UNTIL ALL INSURANCES REQUIRED OF SUBCONTRACTOR HAVE BEEN OBTAINED. CONTRACTOR SHALL PURCHASE AND MAINTAIN SUCH INSURANCE AS WILL PROTECT FROM CLAIMS SET FORTH BELOW WHICH MAY ARISE OUT OF OR RESULT FROM CONTRACTOR'S OPERATIONS UNDER THE CONTRACT DOCUMENTS, WHETHER SUCH OPERATIONS BE BY CONTRACTOR OR BY SUBCONTRACTOR OR BY ANYONE DIRECTLY OR INDIRECTLY EMPLOYED BY ANY OF THEM, OR BY ANYONE FOR WHOSE ACTS ON ANY OF THEM MAY BE LIABLE:

9. ARTICLE 11; DELETE PARAGRAPH 11.1.2 AND SUBSTITUTE THE FOLLOWING:

   11.1.2 THE LIABILITY INSURANCE PURCHASED AND MAINTAINED BY CONTRACTOR PURSUANT TO THIS PARAGRAPH 11.1 SHALL INCLUDE THE TYPES AND BE IN THE MINIMUM AMOUNTS AS FOLLOWS:

   A) WORKMAN'S COMPENSATION

   I) WORKERS' OR WORKMENS' COMPENSATION – MAXIMUM PERMITTED BY STATUE, UNLIMITED IF PERMITTED;

   II) EMPLOYER'S LIABILITY – $1 MILLION.

   B) COMPREHENSIVE GENERAL LIABILITYBODILY INJURY AND PROPERTY DAMAGE HAVING A COMBINED SINGLE LIMIT OF $1 MILLION AND INCLUDING THE FOLLOWING COVERAGES:

   I) COMPREHENSIVE FORM:

   II) PREMISES – OPERATIONS;

   III) EXPLOSION AND COLLAPSE HAZARD;

   IV) UNDERGROUND HAZARD;

   V) PRODUCTS – COMPLETED OPERATIONS HAZARD (WHICH MUST BE MAINTAINED FOR 2 YEARS COMMENCING WITH ISSUANCES OF THE FINAL CERTIFICATE OF PAYMENT);

   VI) CONTRACTUAL INSURANCE;

   VII) BROAD FORM PROPERTY DAMAGE (EXTENDED TO APPLY TO COMPLETED OPERATIONS);

   VIII)INDEPENDENT CONTRACTORS;

   IX) PERSONAL INJURY (WITH EMPLOYEES AND CONTRACTUAL EXCLUSIONS DELETED);

   C) AUTOMOBILE LIABILITY (COMPREHENSIVE FORM, INSURING CONTRACTOR FOR OPERATIONS OF ALL OWNED, HIRED, AND NON-OWNED VEHICLES) LIMIT OF $1 MILLION.

   D) UMBRELLA EXCESS LIABILITY

10. ARTICLE 11; PARAGRAPH 11.3:

    DELETE ALL REFERENCES TO OWNER FURNISHED PROPERTY INSURANCE.

    THE OWNER SHALL FURNISH BUILDER'S RISK INSURANCE, INCLUDING THE PERILS OF FIRE, EXTENDED COVERAGE, VANDALISM, AND MALICIOUS MISCHIEF IN AN AMOUNT OF NOT LESS THAN 100% OF THE INSURABLE VALUE OF ALL THE WORK, AND THE COVERAGE WRITTEN ON BUILDER'S RISK COVERAGE FORM CP0020, INCLUDING CAUSES OF LOSS BASIC FORM CP 1010 OR CAUSES OF LOSS – BROAD FORM CP1020 OR CAUSES OF LOSS – SPECIAL FORM CP1030, OR AN ACCEPTABLE INLAND MARINE "ALL RISK" INSTALLATION FLOATER FORM, WITH A COMPANY AUTHORIZED TO DO BUSINESS IN THE STATE IN WHICH THE PROJECT IS LOCATED.

11. ARTICLE 12; ADD PARAGRAPH 12.2.2.1:

    12.2.2.1 IF DURING THE CONTRACTOR'S ONE (1) YEAR WARRANTY AFTER COMPLETION THE OWNER REQUESTS THAT TESTS BE PERFORMED TO DETERMINE IF CORRECTIONS IN THE WORK NEED TO BE MADE, THE EXPENSE OF SUCH TESTS SHALL BE BORNE BY (A) THE OWNER, IF THE RESULTS OF THE TESTS INDICATE THAT CORRECTIONS ARE NOT NECESSARY, OR (B) THE CONTRACTOR, IF THE RESULTS OF THE TEST INDICATE THAT CORRECTIONS ARE NECESSARY.

12. ARTICLE 13; PARAGRAPH 13.6.1:

    13.6.1 INTEREST NOTE SHALL BE TEN PERCENT (10%)

SECTION 01015 – OWNER FURNISHED ITEMS AND EQUIPMENT

1. ITEMS SHOWN OR NOTED "BY OTHERS" ON THE DRAWINGS AND/OR IN THE SPECIFICATIONS SHALL BE FURNISHED AND INSTALLED BY OWNER UNDER SEPARATE CONTRACT, EXCEPT AS DESCRIBED HEREINAFTER. THE CONTRACTOR SHALL RECEIVE, UNLOAD AS REQUIRED, STORE, AND BE RESPONSIBLE TO THE EXTENT OF CARRYING NECESSARY INSURANCE TO COVER ITEMS IN CASE OF THEFT, FIRE, LOSS, MALICIOUS DAMAGE, INCLUDED IN THIS CATEGORY ARE:

   A) KITCHEN AND BAR EQUIPMENT, INCLUDING WALK-IN COOLER/FREEZER WITH ATTENDANT REFRIGERATION EQUIPMENT. THIS EQUIPMENT SHALL BE FURNISHED, UNLOADED, ASSEMBLED AND SET IN PLACE UNDER SEPARATE CONTRACT WITH ROUGH-INS AND FINAL CONNECTIONS BY CONTRACTOR.

   B) STAINLESS STEEL FABRICATION INCLUDING COUNTERS AND CORNER GUARDS, FURNISHED AND INSTALLED BY OWNER'S FOOD SERVICE CONTRACTOR WITH FINAL CONNECTIONS BY CONTRACTOR.

   C) ALL LOOSE FURNISHING SUCH AS BOOTHS, TABLES, WAITRESS STATIONS, HOSTESS STAND, CHAIRS, AND WAITING BENCHES.

   D) BAR TOP.

   E) KITCHEN EXHAUST HOODS, FANS AND FAN CURBS FURNISHED BY OWNER AND INSTALLED BY CONTRACTOR.

   F) SECURITY SYSTEM.

   G) SOUND SYSTEM.

   H) INTERIOR SIGNAGE.

   I) SAFE.

   J) EXTERIOR SIGNAGE AND NEON (OWNER INSTALLED WIRED BY CONTRACTOR).

   K) HOOD FIRE SUPPRESSION SYSTEM.

   L) OWNER-FURNISHED.CONTRACTOR-INSTALLED EQUIPMENT.

2. CONTRACTOR SHALL PROVIDE ALL ROUGH-IN SERVICES AND MAKE ALL FINAL CONNECTIONS. CONTRACTOR SHALL BE REQUIRED TO REQUEST SHOP DRAWINGS, CATALOG CUTS, SCHEDULES, ETC., FROM THE OWNER, AS NECESSARY TO PROPERLY COORDINATE UTILITY CONNECTIONS, PREPARATIONS, ROOF OPENINGS, AND EQUIPMENT SUPPORT TO ACCOMMODATE ACTUAL FURNISHED ITEMS AND EQUIPMENT.

   CONTRACTOR SHALL DESIGNATE A COMPETENT INDIVIDUAL ON THE JOB SITE STAFF AS HIS "AUTHORIZED REPRESENTATIVE" FOR OWNER-FURNISHED EQUIPMENT. THIS INDIVIDUAL WILL BE RESPONSIBLE FOR FURNISHING INFORMATION ON DESIRED DELIVERY SCHEDULES, PROPER RECEIPT AND REPORTING OF ALL SHIPMENT RECEIVED AS DESCRIBED HEREINAFTER, AND SHALL BE RESPONSIBLE FOR PROPER STORAGE AND HANDLING OF THE EQUIPMENT AT ALL TIMES

SECTION 01070 – CUTTING AND PATCHING

1. EXECUTING, CUTTING (INCLUDING EXCAVATING), FITTING OR PATCHING OF WORK, REQUIRED TO:

   A) MAKE SEVERAL PARTS FIT PROPERLY.
   B) UNCOVER WORK TO PROVIDE FOR INSTALLATION OF ILL-TIMED WORK.
   C) REMOVE AND REPLACE DEFECTIVE WORK.
   D) REMOVE AND REPLACE WORK NOT CONFORMING TO REQUIREMENTS OF CONTRACT DOCUMENTS.
   E) REMOVE SAMPLES OF INSTALLED WORK AS SPECIFIED FOR TESTING.

2. EXECUTE CUTTING AND PATCHING BY METHODS WHICH WILL PREVENT DAMAGE TO OTHER WORK AND WILL PROVIDE PROPER SURFACES TO RECEIVE INSTALLATION OF REPAIRS AND NEW WORK.

3. EMPLOY ORIGINAL INSTALLER TO PERFORM CUTTING AND PATCHING FOR EXPOSED FINISHED SURFACES.

4. REFINISH ENTIRE SURFACE AS NECESSARY TO PROVIDE AN EVEN FINISH.

   A) CONTINUOUS SURFACES: TO NEAREST INTERSECTION.
   B) ASSEMBLY: ENTIRE REFINISHING.

SECTION 01200 – PRECONSTRUCTION MEETING DATE

1. OWNER WILL ADMINISTER PRE-CONSTRUCTION CONFERENCE FOR EXECUTION OF OWNER-CONTRACTOR AGREEMENT AND EXCHANGE OF PRELIMINARY SUBMITTALS.

2. OWNER WILL ADMINISTER MOBILIZATION AT PROJECT SITE FOR CLARIFICATION OF CONTRACTOR RESPONSIBILITIES IN USE OF SITE AND FOR REVIEW OF ADMINISTRATIVE PROCEDURES.

3. ATTENDANCE, JOB SUPERINTENDENT, REPRESENTATIVE OF THE CONTRACTOR'S MAIN OFFICE, MAJOR SUBCONTRACTORS AND SUPPLIERS, AND OWNER REPRESENTATIVE. OTHERS AS APPROPRIATE TO AGENDA TOPICS.

4. SUGGESTED AGENDA: REVIEW PROGRESS SCHEDULE AND ADJUSTMENT THERETO, DELIVERY SCHEDULES, SUBMITTAL, MAINTENANCE OF QUALITY STANDARDS, PENDING CHANGES AND SUBSTITUTION AND OTHER ITEMS AFFECTING PROGRESS WORK.

5. CONTRACTOR SHALL SCHEDULE, ORGANIZE AND CHAIR ANY SUBSEQUENT PROJECT MEETING DURING NORMAL WORKING HOURS.

SECTION 01300 – SUBMITTALS

1. DELIVER SUBMITTALS TO OWNER'S PROJECT MANAGER, UNLESS OTHERWISE DIRECTED.

2. IDENTIFY SUBMITTALS WITH CONTRACTOR'S NAME, PROJECT NAME/LOCATION AND DATE OF SUBMITTAL.

3. MAKE ANY CORRECTIONS TO THE SUBMITTALS REQUIRED BY OWNER AND RESUBMIT UNTIL APPROVED. DIRECT SPECIFIC ATTENTION IN WRITING TO REVISIONS ON RE-SUBMITTALS OTHER THAN THE CORRECTIONS REQUESTED BY OWNER ON PREVIOUS SUBMITTALS.

4. CONSTRUCTION SCHEDULE

   A) WITHIN TEN (10) DAYS AFTER EXECUTION OF THE CONTRACT OR THE DATE OF WRITTEN NOTICE TO COMMENCE THE WORK, WHICH EVER IS EARLIER, SUBMIT THREE (3) COPIES OF A DETAILED CONSTRUCTION SCHEDULE FOR APPROVAL.

   B) SCHEDULE SHALL GRAPHICALLY SHOW THE RELATIONSHIP AND INTERDEPENDENCE OF ALL ACTIVITIES NECESSARY TO FULLY COMPLETE THE WORK AND SHALL SHOW THE SEQUENCE IN WHICH EACH ACTIVITY IS TO BE ACCOMPLISHED. THE DETAIL OF INFORMATION SHALL BE SUCH THAT DURATION TIMES OF ACTIVITIES SHALL NORMALLY RANGE FROM ONE (1) TO FIFTEEN (15) DAYS.

   C) SCHEDULE SHALL GIVE DESCRIPTION OF EACH ACTIVITY, SHOW ITS DURATION IN CALENDAR DAYS AND REFERENCE ITS START AND FINISH DATES TO CALENDAR DATES.

5. SHOP DRAWINGS AND SAMPLES

   A) SUBMIT ALL DRAWINGS, DIAGRAMS, ILLUSTRATIONS, SCHEDULES, PERFORMANCE CHARTS, INSTRUCTIONS, SPECIFICATIONS AND OTHER PROJECT DATA ILLUSTRATING PARTITIONS OF THE WORK AS REQUIRED BY THE SPECIFICATION SECTIONS. SUCH SUBMITTALS, WHETHER OR NOT REFERRED TO AS SHOP DRAWINGS, SHALL COMPLY WITH THE REQUIREMENTS FOR SHOP DRAWINGS HEREINAFTER PRESCRIBED. UNLESS OTHERWISE NOTED IN THE SPECIFICATIONS SECTIONS, SUBMIT SHOP DRAWINGS TO OWNER. NO DRAW WILL BE ACCEPTED UNTIL ALL SHOP DRAWINGS HAVE BEEN SUBMITTED.

   B) UNLESS THE PRECISE COLOR AND PATTERN IS SPECIFICALLY SPECIFIED IN THE SPECIFICATIONS SECTIONS, AND WHENEVER A CHOICE OF COLOR OR PATTERN IS AVAILABLE IN A SPECIFIED PRODUCT, SUBMIT ACCURATE COLOR AND PATTERN CHARTS AND SAMPLES FOR REVIEW AND SELECTIONS.

   C) REVIEW, STAMP WITH CONTRACTOR APPROVAL, SIGNATURE, AND SUBMIT WITHIN THIRTY (30) DAYS AFTER EXECUTION OF THE CONTACT OR THE DATE OF WRITTEN NOTICE TO COMMENCE THE WORK, WHICHEVER IS EARLIER, ALL SHOP DRAWINGS AND SAMPLES. SHOP DRAWINGS OR SAMPLES SUBMITTED WITHOUT CONTRACTOR'S APPROVAL STAMP WILL BE RETURNED WITHOUT REVIEW. SUBMIT SHOP DRAWINGS AND SAMPLES IN AN ORDERLY SEQUENCE SO AS TO CAUSE NO DELAY IN THE WORK OR IN THE WORK OF OTHER CONTRACTORS.

   D) SHOP DRAWINGS AND SAMPLES WILL BE REVIEWED AND APPROVED BY OWNER TO DETERMINE IN GENERAL IF THEY ARE IN COMPLIANCE WITH THE CONTRACT DOCUMENTS. SUCH APPROVAL SHALL NOT RELIEVE CONTRACTOR OF RESPONSIBILITY FOR ANY DEVIATIONS FROM THE REQUIREMENT OF THE CONTRACT DOCUMENTS NOR FROM THE RESPONSIBILITY FOR ERRORS OR OMISSIONS IN THE SHOP DRAWINGS OR SAMPLES.

   E) DO NOT COMMENCE ANY PORTION OF THE WORK UNTIL THE SUBMITTAL HAS BEEN APPROVED AS PRESCRIBED HEREIN. ALL SUCH PORTIONS OF THE WORK SHALL BE IN ACCORDANCE WITH APPROVED SHOP DRAWINGS OR SAMPLES.

6. SCHEDULE OF VALUES

   A) SUBMIT A SCHEDULE OF VALUES FOR VARIOUS PORTIONS OF THE WORK WITHIN TEN (10) DAYS AFTER EXECUTION OF THE CONTRACT OR THE DATE OF WRITTEN NOTICE TO COMMENCE THE WORK, WHICHEVER IS EARLIER. SHOW THE AMOUNTS OF THE CONTRACT SUM ALLOCATED TO EACH PORTION OF WORK, ON AIA G702.

7. CERTIFICATE OF COMPLIANCE

   A) SUBMIT IN DUPLICATE, CERTIFICATES OF COMPLIANCE FOR EACH PRODUCT SPECIFIED, PRIOR TO INSTALLATION OF THE APPLICABLE PRODUCT.

   B) CERTIFICATES OF COMPLIANCE SHALL INCLUDE CERTIFIED LABORATORY TEST REPORTS, MANUFACTURERS CERTIFICATES OR OTHER EVIDENCE SUFFICIENT TO VERIFY COMPLIANCE WITH THE PROJECTS SPECIFIED

SECTION 01400 – QUALITY CONTROL

1. PERFORM WORK IN THE MOST WORKMANLIKE MANNER AND ACCORDING TO BEST STANDARD PRACTICES. ALL WORK SHALL BE FREE FROM FAULTS AND DEFECTS IN WORKMANSHIP.

2. CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR QUALITY CONTROL OF THE WORK AND SHALL MAINTAIN QUALITY CONTROL OVER SUPPLIERS, MANUFACTURERS, PRODUCTS, SERVICES, SITE CONDITIONS AND WORKMANSHIP, TO PRODUCE WORK OF SPECIFIED QUALITY.

3. TESTING AND INSPECTION, WHERE REQUIRED BY THE SPECIFICATION SECTIONS, SHALL COMPLY WITH THE SPECIFIC REQUIREMENT OF THE APPLICABLE SPECIFICATION SECTIONS AND THE GENERAL REQUIREMENTS CONTAINED HEREIN.

4. ALL TESTING AND INSPECTION WHETHER REQUIRED BY THE SPECIFICATION SECTION OR BY LAWS, ORDINANCES, RULES, REGULATIONS, CODES OR ORDERS OF ANY PUBLIC AUTHORITY HAVING JURISDICTION OR WHETHER PERFORMED BY CONTRACTOR FOR QUALITY CONTROL SHALL BE AT CONTRACTOR'S EXPENSE UNLESS OTHERWISE INDICATED IN THE CONTRACT DOCUMENTS.

5. WHERE THE SPECIFICATIONS SECTIONS REQUIRE TESTING OR INSPECTIONS BY A TESTING LABORATORY, ENGAGE A REPUTABLE, INDEPENDENT TESTING LABORATORY SPECIALIZING IN THE REQUIRED SERVICES UNLESS THE TESTING OR INSPECTION IS INDICATED AS FURNISHED BY THE OWNER. TESTING LABORATORY SHALL BE APPROVED BY THE OWNER.

6. SECURE REQUIRED CERTIFICATES OF TESTING, INSPECTION OR APPROVAL AND PROMPTLY DELIVER TO OWNER.

7. PROMPTLY REPLACE OR CORRECT ALL WORK FOUND NOT TO BE IN COMPLIANCE WITH THE REQUIREMENTS OF THE CONTRACT DOCUMENTS AND THE REQUIREMENTS OF ANY PUBLIC AUTHORITY HAVING JURISDICTION SO AS NOT TO DELAY THE WORK OR THE WORK OF OTHER CONTRACTORS REGARDLESS OF HOW SUCH FAILURE TO COMPLY MAY BE REVEALED. REPLACEMENT AND CORRECTION SHALL BE EXPEDITED AS REQUIRED TO MAINTAIN INTERIM CONTRACT COMPLETION DATES AND THE FULL COMPLETION DATE

SECTION 01500 – CONSTRUCTION FACILITIES AND TEMPORARY CONTROLS

1. ALL TEMPORARY FACILITIES AND SERVICES SHALL BE FURNISHED IN STRICT ACCORDANCE WITH EXISTING GOVERNING REGULATIONS. INCLUDING ANY PERMITS (I.E. CONST. TRAILER PERMIT)

2. SANITARY FACILITIES: THE CONTRACTOR SHALL BE PROVIDED TEMPORARY SANITARY FACILITIES FOR THE WORKMEN.

3. WATER FACILITIES: THE CONTRACTOR SHALL FURNISH AND PAY FOR TEMPORARY WATER FOR THE PURPOSE OF CONSTRUCTION AS REQUIRED.

4. TEMPORARY HEAT: THE CONTRACTOR SHALL FURNISH, INSTALL AND MAINTAIN TEMPORARY HEAT AS WORK REQUIRES. THE TEMPORARY HEAT SHALL PROVIDE A TEMPERATURE DIFFERENTIAL OF APPROXIMATELY 40 DEGREES F USING PORTABLE SPACE HEATERS.

5. POWER AND LIGHT:

   A) THE CONTRACTOR SHALL ARRANGE FOR TEMPORARY POWER FOR TOOLS AND LIGHT AS REQUIRED, TO THE CONSTRUCTION SITE.

   B) COST OF THE ELECTRICAL POWER CONSUMED FOR THE TEMPORARY SERVICE FOR TOOLS AND LIGHTS, SHALL BE BORNE BY THE CONTRACTOR. COST OF DISTURBING POWER TO THE CONSTRUCTION SITE SHALL BE BORNE BY THE CONTRACTOR.

   C) THE CONTRACTOR SHALL REMOVE TEMPORARY POWER ONLY WHEN PERMANENT SERVICE IS ARRANGED AND APPROVED.

6. REMOVE ALL TEMPORARY FACILITIES UPON COMPLETION OF THE WORK OR WHEN NO LONGER REQUIRED.

7. PROVIDE PLUMBING, TEMPORARY DRAINAGE, WATER DIVERSION, WEATHER PROTECTION AND CONTROLS AS REQUIRED TO ENSURE NO DELAY IN THE WORK OR THE WORK OF OTHER CONTRACTORS.

FIELD OFFICE SHALL BE PROVIDED BY CONTRACTOR WITH (2) TELEPHONES, AND (1) PORTABLE, HEATING, AND COOLING. LOCATION SHALL BE AT THE OWNER'S DISCRETION. PERMITS ARE THE RESPONSIBILITY OF THE CONTRACTOR.

SECTION 01600 – MATERIALS AND EQUIPMENT

1. WHERE ACCEPTABLE MANUFACTURERS ARE LISTED IN THE SPECIFICATION SECTIONS, OBTAIN MATERIALS AND EQUIPMENT IN COMPLIANCE WITH THE REQUIREMENTS SPECIFIED FROM ONE OF THE MANUFACTURERS LISTED.

2. COMPONENTS REQUIRED TO BE SUPPLIED IN QUALITY WITHIN A SPECIFICATION SECTION SHALL BE THE SAME, SUPPLIED BY SAME MANUFACTURER AND SHALL BE INTERCHANGEABLE.

3. ALL MATERIALS AND EQUIPMENT SHALL BE NEW, UNLESS OTHERWISE SPECIFIED, AND OF FIRST CLASS QUALITY, FREE FROM ANY FAULTS OR DEFECTS INCLUDING BLEMISHES, DENTS, IMPERFECTIONS, RUST, AND STAIRS. DO NOT INCORPORATE FAULTY OR DEFECTIVE MATERIALS OR EQUIPMENT INTO THE WORK.

4. HANDLE AND STORE MATERIALS AND EQUIPMENT IN ACCORDANCE WITH MANUFACTURERS' AND SUPPLIERS' RECOMMENDATIONS AND STORE PACKED MATERIALS AND EQUIPMENT IN ORIGINAL UNDAMAGED CONDITION WITH MANUFACTURER'S LABEL AND SEALS INTACT.

NO SUBSTITUTIONS FOR THE MATERIALS AND EQUIPMENT SPECIFIED SHALL BE MADE UNLESS WRITTEN APPROVAL HAS BEEN GIVEN AS REQUIRED IN THE GENERAL CONDITIONS OR OWNER. SUBSTITUTIONS WILL BE CONSIDERED ONLY IF OWNER RECEIVES THE ADVANTAGE OF LESSER COST WITH NO DECREASE IN QUALITY, OR EARLIER COMPLETION OR BOTH. CONTRACTOR REQUIRED TO MANAGE "SEWER, WATER, GAS, ELECTRIC, PHONE, AND CABLE CONNECTIONS/PERMITS, ETC."

SECTION 01700 – CONTRACT CLOSEOUT

1. DURING THE PROGRESS OF THE WORK MAINTAIN A SET OF DRAWINGS OF THE PROJECT SITE FOR PREPARING RECORD DRAWINGS. NEATLY RECORD ALL CHANGES IN THE WORK AND RECORD SPECIFIC LOCATIONS OF WORK SHOWN SCHEMATICALLY ON THE DRAWINGS. IN ADDITION, RECORD THE FOLLOWING ON MECHANICAL AND ELECTRICAL DRAWINGS:

   A) LOCATION OF CONCEALED WATER AND ELECTRICAL SERVICES, WATER PIPING, SEWERS, WASTES, VENTS, DUCTS, CONDUITS AND OTHER PIPING BY INDICATION OF MEASURED DIMENSIONS TO SUCH LINE FROM READILY IDENTIFIABLE WALLS OR CORNERS OF BUILDINGS.

   B) INVERT ELEVATIONS OF SEWERS AND TOP OF WATER LINES.

2. SUBMIT THE RECORD DRAWINGS TO OWNER FOR APPROVAL WITH THE PUNCH LIST AND WRITTEN NOTICE THAT THE WORK IS READY FOR VERIFICATION OF SUBSTANTIAL COMPLETION IN THE GENERAL CONDITIONS. IF OWNER DETERMINES THAT THE DRAWING ARE INCOMPLETE OR INCORRECT IN ANY WAY, HE WILL ADVISE CONTRACTOR OF THE REQUIRED CORRECTIONS AND THE CONTRACTOR SHALL PROMPTLY SUBMIT CORRECTED DRAWINGS. RECORD DOCUMENTS SHALL BE DELIVERED TO OWNER PRIOR TO FINAL PAYMENTS FOR WORK.

3. PREPARE THREE (3) COMPLETE SETS OF MANUALS CONTAINING THE MANUFACTURE'S INSTRUCTIONS FOR OPERATION AND MAINTENANCE OF EACH ITEM OF EQUIPMENT, APPARATUS, AND OPERATIONS SYSTEM FURNISHED UNDER THE CONTRACT AND ANY ADDITIONAL DATA SPECIFICALLY REQUIRED IN THE SPECIFICATION SECTIONS.

   A) MANUALS SHALL BE BOUND WITH COVERS OF DURABLE MATERIAL, ARRANGED IN THE SEQUENCE OF THE SPECIFICATION SECTIONS AND SHALL INCLUDE THE FOLLOWING:

   1) NEATLY TYPEWRITTEN INDEX.

   2) COMPLETE INSTRUCTIONS REGARDING OPERATION, SERVICE AND MAINTENANCE INCLUDING LUBRICATION, DISASSEMBLY, AND REASSEMBLY.

   3) COMPLETE NOMENCLATURE OF ALL PARTS AND PART NUMBERS OF ALL REPLACEABLE PARTS.

   4) COMPLETE LIST OF SOURCES TO BE CONTACTED FOR SERVICE AND REPLACEMENT PARTS INCLUDING NAMES, ADDRESSES AND ALL OTHER PERTINENT DATA REGARDING PROCUREMENT PROCEDURE.

   5) COPY OF ALL REQUIRED GUARANTEES AND WARRANTIES.

   6) MANUFACTURER'S BULLETINS, CUTS, AND DESCRIPTION DATA CLEARLY INDICATING THE PRECISE ITEMS INCLUDED IN THIS INSTALLATION AND DELETING, OR OTHERWISE CLEARLY INDICATING, ALL MANUFACTURER'S DATA WITH WHICH THIS INSTALLATION IS NOT CONCERNED.

   7) ANY OTHER DATA REQUIRED IN THE SPECIFICATION SECTIONS.

   B) THE OPERATING AND MAINTENANCE MANUALS SHALL BE DELIVERED TO THE OWNER PRIOR TO FINAL PAYMENT FOR THE WORK.

   C) IF REQUESTED BY OWNER, GIVE PHYSICAL DEMONSTRATIONS AND ORAL INSTRUCTIONS FOR THE OPERATION OF EQUIPMENT, APPARATUS, AND OPERATIONAL SYSTEMS FURNISHED UNDER THE CONTRACT. SUCH DEMONSTRATIONS AND INSTRUCTIONS SHALL BE GIVEN TO OWNER AND/OR OTHERS AS OWNER MAY CHOOSE.

   D) IN ADDITION TO THE INFORMATION LISTED IN ITEM 3 ON SHEET SPC1, THE CONTRACTOR SHALL INCLUDE IN THE PROJECT MANUAL THE FOLLOWING:

   A. GENERAL CONTRACTOR'S 1-YEAR WRITTEN GUARANTEE.

   B. ALL FINAL LIEN WAIVERS.

   C. COPY OF CERTIFICATE OF OCCUPANCY.

   D. COPY OF SIGNED OFF PERMIT CARD.

   E. LIST OF SUBCONTRACTORS WITH NAMES OF CONTACT PERSON AND PHONE NUMBERS.

   F. ROOF WARRANTY.

   G. ALL TEST RESULTS (SOILS, CONCRETE, ETC.).

   H. AS-BUILT DRAWINGS.

5. ASSEMBLE ALL GUARANTEES, WARRANTIES AND ASSIGNMENTS THEREOF AS REQUIRED BY THE GENERAL CONDITIONS AND THE SPECIFICATIONS SECTIONS. THE GUARANTEES, WARRANTIES AND ASSIGNMENTS SHALL BE DELIVERED TO THE OWNER PRIOR TO FINAL PAYMENT FOR THE WORK.

SECTION 01710 – CLEANING

1. ALL CLEANING SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR UNLESS SPECIFICALLY NOTED OTHERWISE.

2. MAINTAIN PREMISES AND PUBLIC PROPERTIES FREE FROM ACCUMULATIONS OF WASTE, DEBRIS AND RUBBISH CAUSED BY OPERATIONS.

3. AT COMPLETION OF WORK, REMOVE WASTE MATERIALS, RUBBISH, TOOLS, EQUIPMENT, MACHINERY AND SURPLUS MATERIALS AND CLEAN ALL SIGHT VISIBLE SURFACES; LEAVE PROJECT CLEAN AND READY FOR OCCUPANCY.

4. MAINTAIN PROJECT IN ACCORD WITH OCCUPATIONAL SAFETY & HEALTH ACT OF 1970, AS AMENDED, IN TERMS OF CLEAN-UP.

5. CONDUCT CLEANING AND DISPOSAL OPERATIONS TO COMPLY WITH LOCAL ORDINANCES AND ANTI-POLLUTION LAWS.

   1) DO NOT BURN OR BURY RUBBISH AND WASTE MATERIALS ON PROJECT SITE.

   2) DO NOT DISPOSE OF OR STORE VOLATILE WASTES SUCH AS MINERAL SPIRITS, OIL OR PAINT THINNER IN STORM OR SANITARY DRAINS IN THE FACILITY.

6. DURING CONSTRUCTION

   A) EXECUTE CLEANING TO ENSURE THAT ROADWAY, WALKS, GROUND AND PUBLIC PROPERTIES ARE MAINTAINED FREE FROM ACCUMULATIONS OF WASTE MATERIALS AND RUBBISH.

   B) WET DOWN DRY MATERIALS AND RUBBISH TO LIMIT DUST AND PREVENT BLOWING DUST.

   C)PROVIDE ON-SITE CONTAINERS FOR COLLECTION OF WASTE MATERIALS, DEBRIS, AND RUBBISH.

   D) REMOVE WASTE MATERIALS, DEBRIS AND RUBBISH FROM THE SITE AND LEGALLY DISPOSE OF AT PUBLIC OR PRIVATE DUMPING AREA OFF OWNER'S PROPERTY.

   1) ACCUMULATION OF LOOSE MATERIAL, TRASH, RUBBISH, AND DEBRIS WILL NOT BE PERMITTED.

   2) EACH CONTRACTOR SHALL BE REQUIRED TO DISPOSE OF WASTE MATERIALS ON A REGULAR BASIS.

7. FINAL CLEANING

   A) IN PREPARATION FOR OCCUPANCY, CONDUCT FINAL INSPECTION OF ALL-EXPOSED INTERIOR AND EXTERIOR SURFACES AND OF CONCEALED SPACES.
   B) REMOVE GREASE, DUST, DIRT, STAINS, LABELS, FINGERPRINTS, AND OTHER FOREIGN MATERIAL FROM ALL-EXPOSED INTERIOR AND EXTERIOR FINISHED SURFACES; POLISH SURFACES SO DESIGNATED TO A SHINY FINISH.
   C)REPAIR, PATCH, AND TOUCH UP MARRED SURFACES TO SPECIFIED FINISH, TO MATCH ADJACENT SURFACES.

   D) REMOVE ALL FOREIGN MATERIALS FROM ROOF AND SITE AREA.

   E) PERFORM ALL FINAL CLEANING, INCLUDING THE FOLLOWING:

   1) EMPLOY EXPERIENCED WORKMEN OR PROFESSIONAL CLEANERS FOR FINAL CLEANING.

   2) WASH AND CLEAN ALL GLASS, REMOVING LABELS AND PAINT.

   3) BROOM CLEAN PAVED SURFACES; RAKE CLEAN OTHER SURFACES OF GROUNDS.

   4) CLEAN ALL FLOORS OF DIRT AND DUST.

   F) RESPECTIVE CONTRACTORS SHALL PERFORM CLEANING OF THEIR EQUIPMENT.

   G) ALL STRAINERS AND FLOOR DRAINS IN RESPECTIVE PIPE WORK SHALL BE CLEANED.

   H) REPLACE BURNED OUT OF INOPERATIVE LIGHTING LAMPS.

OWNER WILL ASSUME RESPONSIBILITY FOR CLEANING AS OF TIME DESIGNATED OF CERTIFICATE OF FINAL ACCEPTANCE, CONDITIONAL ACCEPTANCE OR PARTIAL OCCUPANCY, WHICHEVER IS FIRST, FOR OWNER'S ACCEPTANCE OF PROJECT OR PORTION THEREOF.

SECTION 01800 – CHANGE ORDERS

ALL DISCREPANCIES IN THE DRAWINGS OR CHANGES MADE TO THE PROJECT SHALL BE BROUGHT TO THE OWNER AND ARCHITECT'S ATTENTION PRIOR TO PROCEEDING WITH THE PROJECT. FAILURE TO BRING SUCH ITEMS TO THE OWNER AND ARCHITECT'S ATTENTION OR BRINGING THEM UP AFTER THE FACT WILL RESULT IN NO CHANGE ORDER BEING APPROVED AND NO ADDITIONAL COMPENSATION ALLOWED.

FOR ALL SPECIFICATIONS RELATED TO THE SITE, REFER TO THE CIVIL SHEETS.

SECTION 0231 – TERMITE CONTROL

PART 1 – GENERAL

1.01 SUMMARY

   A) THIS SECTION INCLUDES THE FOLLOWING:

   1) SOIL TREATMENT WITH TERMITICIDE.

1.02 SUBMITTALS

   A) PRODUCT CERTIFICATES.

   B) SOIL TREATMENT APPLICATION REPORT: INCLUDE THE FOLLOWING:

   1) DATE AND TIME OF APPLICATION.

   2) MOISTURE CONTENT OF SOIL BEFORE APPLICATION.

   3) BRAND NAME AND MANUFACTURER OF TERMITICIDE.

   4) QUANTITY OF UNDILUTED TERMITICIDE USED.

   5) DILUTIONS, METHODS, VOLUMES, AND RATES OF APPLICATION USED.

   6) AREAS OF APPLICATION.

   7) WATER SOURCE FOR APPLICATION.

1.03 QUALITY ASSURANCE

   A) INSTALLER QUALIFICATIONS: A SPECIALIST WHO IS LICENSED ACCORDING TO REGULATIONS OF AUTHORITIES HAVING JURISDICTION TO APPLY TERMITE CONTROL TREATMENT AND PRODUCTS IN JURISDICTION WHERE PROJECT IS LOCATED.

   B) REGULATORY REQUIREMENTS: FORMULATE AND APPLY TERMITICIDES ACCORDING TO THE EPA-REGISTERED LABEL.

1.04 WARRANTY

   A) SPECIAL WARRANTY: MANUFACTURER'S STANDARD FORM, SIGNED BY APPLICATOR AND CONTRACTOR CERTIFYING THAT TERMITE CONTROL WORK, CONSISTING OF APPLIED SOIL TERMITICIDE TREATMENT, WILL PREVENT INFESTATION OF SUBTERRANEAN TERMITES. IF SUBTERRANEAN TERMITE ACTIVITY OR DAMAGE IS DISCOVERED DURING WARRANTY PERIOD, RE-TREAT SOIL AND REPAIR OR REPLACE DAMAGE CAUSED BY TERMITE INFESTATION.

   1) WARRANTY PERIOD: FIVE YEARS FROM DATE OF SUBSTANTIAL COMPLETION.

1.05 MAINTENANCE SERVICE

   A) CONTINUING SERVICE: BEGINNING AT SUBSTANTIAL COMPLETION, PROVIDE 12 MONTHS' CONTINUING SERVICE INCLUDING MONITORING, INSPECTION, AND RE-TREATMENT FOR OCCURRENCES OF TERMITE ACTIVITY. PROVIDE A STANDARD CONTINUING SERVICE AGREEMENT. STATE SERVICES, OBLIGATIONS, CONDITIONS, AND TERMS FOR AGREEMENT PERIOD; AND TERMS FOR FUTURE RENEWAL OPTIONS.

PART 2 – PRODUCTS

2.01 MANUFACTURERS

   A) AVAILABLE MANUFACTURERS: SUBJECT TO COMPLIANCE WITH REQUIREMENTS, MANUFACTURERS OFFERING PRODUCTS THAT MAY BE INCORPORATED INTO THE WORK INCLUDE, BUT ARE NOT LIMITED TO, THE FOLLOWING:

   B) MANUFACTURERS: SUBJECT TO COMPLIANCE WITH REQUIREMENTS, PROVIDE PRODUCTS BY ONE OF THE FOLLOWING:

   1) TERMITICIDES:

   A) BASF TERMIDOR SC.

   B) BAYER ENVIRONMENTAL SCIENCE CORPORATION; PREMISE 75.

   C) SYNGENTA; ALTRISET

2.02 SOIL TREATMENT

   C) TERMITICIDE: PROVIDE AN EPA-REGISTERED TERMITICIDE COMPLYING WITH REQUIREMENTS OF AUTHORITIES HAVING JURISDICTION, IN AN AQUEOUS SOLUTION FORMULATED TO PREVENT TERMITE INFESTATION. PROVIDE QUANTITY REQUIRED FOR APPLICATION AT THE LABEL VOLUME AND RATE FOR THE MAXIMUM TERMITICIDE CONCENTRATION ALLOWED FOR EACH SPECIFIC USE, ACCORDING TO PRODUCT'S EPA-REGISTERED LABEL.

PART 3 – EXECUTION

3.01 PREPARATION

   A) GENERAL: REMOVE ALL EXTRANEOUS SOURCES OF WOOD CELLULOSE AND OTHER EDIBLE MATERIALS SUCH AS WOOD DEBRIS, TREE STUMPS AND ROOTS, STAKES, FORMWORK, AND CONSTRUCTION WASTE WOOD FROM SOIL WITHIN AND AROUND FOUNDATIONS.

   B) SOIL TREATMENT PREPARATION: LOOSEN, RAKE, AND LEVEL SOIL TO BE TREATED EXCEPT PREVIOUSLY COMPACTED AREAS UNDER SLABS AND FOOTINGS. TERMITICIDES MAY BE APPLIED BEFORE PLACING COMPACTED FILL UNDER SLABS IF RECOMMENDED IN WRITING BY TERMITICIDE MANUFACTURER.

3.02 APPLYING SOIL TREATMENT

   A) APPLICATION: MIX SOIL TREATMENT TERMITICIDE SOLUTION TO A UNIFORM CONSISTENCY. PROVIDE QUANTITY REQUIRED FOR APPLICATION AT THE LABEL VOLUME AND RATE FOR THE MAXIMUM SPECIFIED CONCENTRATION OF TERMITICIDE, ACCORDING TO MANUFACTURER'S EPA-REGISTERED LABEL, TO THE FOLLOWING SO THAT A CONTINUOUS HORIZONTAL AND VERTICAL TERMITICIDAL BARRIER OR TREATED ZONE IS ESTABLISHED AROUND AND UNDER BUILDING CONSTRUCTION. DISTRIBUTE TREATMENT EVENLY.

   1) SLABS-ON-GRADE: UNDER GROUND-SUPPORTED SLAB CONSTRUCTION, INCLUDING FOOTINGS, BUILDING SLABS, AND ATTACHED SLABS AS AN OVERALL TREATMENT. TREAT SOIL MATERIALS BEFORE CONCRETE FOOTINGS AND SLABS ARE PLACED.

   2) FOUNDATIONS: ADJACENT SOIL INCLUDING SOIL ALONG THE ENTIRE INSIDE PERIMETER OF FOUNDATION WALLS, ALONG BOTH SIDES OF INTERIOR PARTITION WALLS, AROUND PLUMBING PIPES AND ELECTRIC CONDUIT PENETRATING THE SLAB, AND AROUND INTERIOR COLUMN FOOTERS; ALSO ALONG THE ENTIRE OUTSIDE PERIMETER, FROM GRADE TO BOTTOM OF FOOTING. AVOID SOIL WASHOUT AROUND FOOTINGS.

   3) PENETRATIONS: AT EXPANSION JOINTS, CONTROL JOINTS, AND AREAS WHERE SLABS WILL BE PENETRATED.

   B) AVOID DISTURBANCE OF TREATED SOIL AFTER APPLICATION. KEEP OFF TREATED AREAS UNTIL COMPLETELY DRY.

   C) PROTECT TERMITICIDE SOLUTION, DISPERSED IN TREATED SOILS AND FILLS, FROM BEING DILUTED UNTIL GROUND-SUPPORTED SLABS ARE INSTALLED. USE WATERPROOF BARRIER ACCORDING TO EPA-REGISTERED LABEL INSTRUCTIONS.

   D) POST WARNING SIGNS IN AREAS OF APPLICATION.

   E) REAPPLY SOIL TREATMENT SOLUTION TO AREAS DISTURBED BY SUBSEQUENT EXCAVATION, GRADING, LANDSCAPING, OR OTHER CONSTRUCTION ACTIVITIES FOLLOWING APPLICATION.

DIVISION 3 – CONCRETE

SECTION 03300 – CAST IN PLACE CONCRETE (INCLUDED EXTERIOR CONCRETE)

1. CAST-IN-PLACE CONCRETE WORK INCLUDING ALL LABOR, TOOLS, MATERIAL, EQUIPMENT AND SERVICES NECESSARY TO PROPERLY PLACE AND COMPLETE ALL INTERIOR AND EXTERIOR CAST-IN-PLACE CONCRETE, FORMWORK, REINFORCEMENT, JOINTS AND EMBEDDED ITEMS, FINISHING, CURING AND CONCRETE TESTING.

2. UNLESS OTHERWISE SHOWN OR SPECIFIED, THE WORK SHALL CONFORM TO THE FOLLOWING STANDARDS OF THE AMERICAN CONCRETE INSTITUTE.

   ACI 214R, GUIDE TO EVALUATION OF STRENGTH TEST RESULTS OF CONCRETE.

   ACI 306R, COLD WEATHER CONCRETING.

   ACI 315, MANUAL OF STANDARD PRACTICE FOR DETAILING REINFORCED CONCRETE STRUCTURE.

   ACI 318, BUILDING CODE REQUIREMENT FOR REINFORCED CONCRETE.

   ACI 347R, GUIDE TO FORMWORK FOR CONCRETE.

   ACI 305R, HOT WEATHER CONCRETING.

   ACI 211.1, STANDARD PRACTICE FOR SELECTING PROPORTIONS FOR NORMAL, HEAVYWEIGHTS AND MASS CONCRETE.

   ACI 304R, GUIDE FOR MEASURING, MIXING, TRANSPORTING AND PLACING CONCRETE.

3. MATERIALS:

   A) PORTLAND CEMENT: ASTM C150, TYPE 1 GRAY STAIN

   B) AGGREGATES: ASTM C33

   C) WATER: CLEAN, FRESH, AND PORTABLE

   D) AIR CONTENT: 5% TO 8%

   E) AIR ENTRAINMENT ADMIXTURE: ASTM C260 & ASTM C494.

   F) REINFORCING-STEEL:

   1) BARS: ASTM A615 (GRADE 40 FOR STIRRUPS AND TIES).

   2) WELDED WIRE REINFORCEMENT: ASTM A1064

   G) CURING COMPOUND: ASTM C309, TYPE 1, CLASS A, SONNEBORN "KURE-N-SEAL" OR EQUAL; TWO COATS FOR EXPOSED CONCRETE FLOORS.

   H) CONTRACTION JOINTS FILLER: ASTM D1751, J & P "TEX-LITE FIBER" OR EQUAL, ½" THICK.

   I) FORMS: STEEL, WOOD OR OTHER SUITABLE MATERIAL OF SIZE AND STRENGTH TO RESIST MOVEMENT DURING CONCRETE PLACEMENT AND TO RETAIN HORIZONTAL AND VERTICAL ALIGNMENT UNTIL REMOVAL. USE STRAIGHT FORMS, FREE OF DISTORTION AND DEFECTS. USE FLEXIBLE SPRING STEEL FORMS OR LAMINATED BOARDS TO FORM RADIUS BENDS AS REQUIRED. COAT FORMS WITH A NON-STAINING FORM RELEASE AGENT THAT WILL NOT DISCOLOR OR DEFACE THE SURFACE OF THE CONCRETE.

   J) VAPOR BARRIER: POLYETHYLENE SHEET, ASTM D2103, 10 MIL. THICK.

   K) GROUT: "MASTERFLOW 928" BY MASTER BUILDERS OR EQUAL.

4. CONCRETE MIX:

   A) READY MIXED PER ASTM C94

   B) STRENGTH – PER CONSTRUCTION PLANS OR MINIMUM AS FOLLOWS:

   1) CONCRETE FOR FOOTINGS = 3,000 PSI @ 28 DAYS

   2) FOR ALL OTHER CONCRETE = 4,000 PSI @ 28 DAYS

   C) SLUMP:

   1) 5-INCH MAXIMUM FOR GENERAL USE.

   2) 4-INCH MAXIMUM FOR FLAT WORK.

   D) PROVIDE MIX DESIGN TO OWNER FOR REVIEW.

5. VERIFY LINES, LEVELS, AND MEASUREMENT BEFORE PROCEEDING WITH FORMWORK.

6. COORDINATE WORK OF OTHER SECTIONS IN FORMING AND SETTING OPENINGS, SLOTS, RECESSES, CHASES, SLEEVES, BOLTS, ANCHORS, AND OTHER INSERTS.

   A) EXPOSED CORNERS SHALL BE CHAMFERED 1/4" UNLESS SHOWN OTHERWISE.

7. PLACE, SUPPORT, AND SECURE REINFORCEMENT AGAINST DISPLACEMENT PER ACI 315.

8. INSTALL VAPOR BARRIER UNDER INTERIOR FLOOR SLABS ON FILL. LAP JOINTS MINIMUM 6-INCHES AND SEAL. DO NOT DISTURB VAPOR BARRIER WHILE PLACING REINFORCEMENT.

   A) COORDINATE THE INSTALLATION OF JOINT MATERIALS AND MOISTURE BARRIERS WITH PLACEMENT OF FORMS AND REINFORCING STEEL.

9. DEPOSIT CONCRETE CONTINUOUSLY OR IN LAYERS OF SUCH THICKNESS THAT NO CONCRETE WILL BE PLACED ON CONCRETE WHICH HAS HARDENED SUFFICIENTLY TO CAUSE THE FORMATION OF SEAMS OR PLANES OF WEAKNESS. IF A SECTION CANNOT BE PLACED CONTINUOUSLY, PROVIDE CONSTRUCTION JOINTS. DEPOSIT CONCRETE AS NEARLY AS PRACTICAL TO ITS FINAL LOCATION TO AVOID SEGREGATION.

10. CONSOLIDATE PLACED CONCRETE BY MECHANICAL VIBRATING EQUIPMENT SUPPLEMENTED BY HAND-SPACING, RODDING, OR TAMPING. USE EQUIPMENT AND PROCEDURES FOR CONSOLIDATION OF CONCRETE IN ACCORDANCE WITH ACI RECOMMENDED PRACTICES.

11. PLACING CONCRETE SLABS: DEPOSIT AND CONSOLIDATE CONCRETE SLABS IN A CONTINUOUS OPERATION, WITHIN LIMITS OF CONSTRUCTION JOINTS, UNTIL THE PLACING OF A PANEL OR SECTION IS COMPLETED.

    A) BRING SLAB SURFACES TO CORRECT LEVEL WITH STRAIGHTEDGE AND STRIKEOFF. USE BULL FLOATS OR DARBIES TO SMOOTH SURFACE, FREE OF HUMPS AND HOLLOWS. DO NOT DISTURB SLAB SURFACES PRIOR TO BEGINNING FINISHING OPERATIONS.

    B) MAINTAIN REINFORCING IN PROPER POSITION DURING CONCRETE PLACEMENT.

    C) FORMS MAY BE REMOVED AFTER CURING AT NOT LESS THAN 50 DEGREES F. FOR 24 HOURS PROVIDED CONCRETE IS HARD ENOUGH TO NOT BE DAMAGED BY FORM REMOVAL OPERATIONS, AND CONTINUED CURING AND PROTECTION IS MAINTAINED.

12. FINISHING INTERIOR SLABS: FLOAT FINISH PER ACI 301. POWER TROWEL TO PROVIDE A SMOOTH SURFACE, RELATIVELY FREE OF DEFECTS. PROVIDE A FINE, LIGHT BROOM FINISH.

    A) WHERE CERAMIC OR QUARRY TILE OCCURS, PROVIDE A FINE, LIGHT BROOM FINISH TO AID IN BONDING OF TILE TO SLAB.

13. FINISHING EXTERIOR SLABS: FINISH SLABS TO TRUE PLANES AND PROVIDE LIGHT BROOM FINISH AS ACCEPTABLE TO OWNER. ALL EXTERIOR EXPOSED CONCRETE SHALL RECEIVE AN ANTI-SPALL TREATMENT OF 50% (BY VOLUME) BOILED LINSEED OIL AND 50% (BY VOLUME) MINERAL SPIRITS, PER AASHTO M233. FIRST APPLICATION: 40 SQ. YDS. PER GALLON AND ALLOW TO COMPLETELY DRY. SECOND APPLICATION: 60 SQ. YDS. PER GALLON AND ALLOW TO COMPLETELY DRY.

14. TOLERANCE: FINISHED SLABS SHALL BE LEVEL WITH TOLERANCE OF 1/8" IN TEN FEET, WHEN TESTED WITH TEN FOOT STRAIGHT EDGE PLACED ON THE SURFACE AT NOT LESS THAN TWO DIFFERENT ANGLES. UNIFORMLY SLOPE SURFACE TO AREA DRAIN.

15. THE OWNER SHALL ENGAGE AND PAY FOR A TESTING LABORATORY FOR STRENGTH AND SLUMP TEST.

    A) TEST SPECIMENS FOR COMPRESSIVE STRENGTH IN ACCORDANCE WITH ASTM C31 AND C39.

    B) MAKE AT LEAST ONE STRENGTH TEST FOR EACH 50 CUBIC YARDS, OR FRACTION THEREOF, OF EACH MIX DESIGN OF CONCRETE PLACED IN ANY 1 DAY.

    C) PREPARE FIVE (5) TEST CYLINDERS FROM EACH OF THE ABOVE SAMPLE IN ACCORDANCE WITH ASTM C32 FOR LABORATORY CURED SPECIMENS. TEST TWO (2) CYLINDERS AT AGE 7 DAYS FOR PRELIMINARY INDICATION OF DESIGN STRENGTH. TEST TWO (2) CYLINDERS AT AGE 28 DAYS FOR THE BASIS OF QUALITY CONTROL AS SPECIFIED BY ACI 318. RETAIN ONE (1) CYLINDER FOR 45 DAY TESTING IF REQUIRED.

AVERAGE ANY THREE CONSECUTIVE 28 DAY STRENGTH TESTS SHALL BE EQUAL TO OR GREATER THAN SPECIFIED STRENGTH, AND NOT MORE THAN 10% OF TESTS SHALL HAVE VALUES LESS THAN SPECIFIED STRENGTH. IN NO CASE SHALL TEST HAVE A VALUE LESS THAN 90% OF SPECIFIED STRENGTH.

DIVISION 4 – MASONRY

SECTION 04200 – CONCRETE MASONRY UNIT

1. CONCRETE MASONRY UNITS:

   A) CONCRETE MASONRY UNITS SHALL BE FROM ONE MANUFACTURER, OF UNIFORM TEXTURE AND COLOR FOR EACH TYPE REQUIRED.

   B) CONCRETE MASONRY UNITS: NOMINAL FACE DIMENSIONS OF 12 INCH X 16 INCHES LONG, UNLESS OTHERWISE INDICATED; COMPLETE WITH CORNERS, BASES, BOND BEAMS, LINTELS AND FILLERS TO MATCH CONCRETE MASONRY UNITS; 1-1/4" MINIMUM FACE SHALL BE CURED IN A MOISTURE-CONTROLLED ATMOSPHERE OR IN A AUTOCLAVE AT NORMAL PRESSURE AND TEMPERATURE TO COMPLY WITH ASTM C90, GRADE N.

   C) WHEN CONCRETE UNIT MASONRY UNITS ARE REMOVED FROM THE MANUFACTURER'S STORAGE AREA, EACH CUBE OR BLOCK SHALL BE COVERED ON TOP AND ALL SIDES WITH A WATERPROOF PROTECTIVE MATERIAL. PROTECTIVE COVERING SHALL BE APPLIED PRIOR TO THE BLOCKS BEING EXPOSED TO THE WEATHER.

2. MORTAR: ASTM C270, TYPE S; 1800 PSI AT 28 DAYS.

   A) PORTLAND CEMENT: ASTM C150, TYPE 1

   B) AGGREGATE: ASTM C144, STANDARD MASONRY TYPE; CLEAN, DRY AND PROTECTED AGAINST DAMPNESS, FREEZING AND FOREIGN MATTER.

   C) HYDRATED LIME: ASTM C207, TYPE S.

   D) WATER: CLEAN AND FREE FROM INJURIOUS AMOUNTS OF OIL, ALKALI, ORGANIC MATTER OR OTHER DELETERIOUS MATERIAL.

   E) USE NO ADMIXTURES UNLESS WRITTEN APPROVAL IS OBTAINED FROM OWNER.

3. GROUT: CONSISTENCY WHICH WILL COMPLETELY FILL ALL SPACES INTENDED TO RECEIVE GROUT.

4. REINFORCING BARS: 60 PSI YIELD GRADE; DEFORMED BILLET STEEL BARS, ASTM A615.

5. HORIZONTAL REINFORCEMENT: TRUSS TYPE ASTM A82 HOT DIP GALVANIZED STEEL WIRE AFTER FABRICATION ASTM A153 CLASS B2 WITH NOT LESS THAN #9 SIDE RODS WITH #9 CROSS RODS.

   A) AA WIRE PRODUCTS, HECKMAN, OR EQUAL.

6. MAINTAIN MATERIALS AND SURROUNDING AIR TEMPERATURE TO MINIMUM 50 DEGREE F. PRIOR TO, DURING AND 48 HOURS AFTER COMPLETION OF MASONRY WORK OR UNTIL COMPLETE HYDRATION OF THE MORTAR IS ACHIEVED WHICHEVER IS GREATER.

7. DURING FREEZING OR NEAR FREEZING WEATHER, PROVIDE ADEQUATE EQUIPMENT OR COVER TO MAINTAIN A MINIMUM TEMPERATURE OF 50 DEGREE F. AND TO PROTECT MASONRY WORK COMPLETED OR IN PROGRESS.

8. ESTABLISH LINES, LEVELS, AND COURSING. PROTECT FROM DISTURBANCES.

9. THOROUGHLY MIX MORTAR INGREDIENTS, IN QUANTITIES NEEDED FOR IMMEDIATE USE.

   A) IF NECESSARY, RE-TEMPER MORTAR TO REPLACE WATER LOST BY EVAPORATION, BUT DO NOT RE-TEMPER OR USE MORTAR AFTER TWO (2) HOURS FROM THE INITIAL MIXING TIME.

10. PLACE MASONRY TRUE, LEVEL AND PLUMB IN ACCORDANCE WITH REQUIRED LINES AND LEVELS. DO NOT WET CONCRETE MASONRY UNITS. ALIGN ALL VERTICAL CELLS TO MAINTAIN A CLEAR, UNOBSTRUCTED SYSTEM FOR GROUTING.

11. FULL BOND EXTERNAL AND INTERNAL CORNERS AND INTERSECTIONS.

    A) BUTTERING CORNERS OF JOINTS AND DEEP OR EXCESSIVE FURROWING OF MORTAR JOINTS WILL NOT BE PERMITTED.

12. DO NOT SHIFT OR TAP MASONRY AFTER MORTAR HAS TAKEN INITIAL SET. WHERE ADJUSTMENT MUST BE MADE, REMOVE MORTAR AND REPLACE.

13. LAY OUT MASONRY SO NOT LESS THAT ONE-THIRD (1/3) OF THE FACE OF A UNIT IS EXPOSED ON THE FACE OF THE WALL AT OPENINGS, CORNER OR OFFSETS.

14. PERFORM JOB SITE CUTTING OF MASONRY WITH PROPER POWER TOOLS TO PROVIDE STRAIGHT AND TRUE, UNCHIPPED EDGES. MASONRY SHALL NOT BE CUT WITH WET SAW BLADE.

15. ENSURE MASONRY COURSES ARE OF UNIFORM HEIGHT. MAKE VERTICAL AND HORIZONTAL JOINTS EQUAL AND OF UNIFORM THICKNESS. LAY IN FULL BED OF MORTAR, PROPERLY JOINTED WITH OTHER WORK.

16. REMOVE EXCESS MORTAR AND PROJECTIONS. TAKE CARE TO PREVENT BREAKING MASONRY CORNERS.

17. LAY ALL MASONRY UNITS IN RUNNING BOND COURSE 1 BLOCK UNIT AND 1 MORTAR JOINT TO EQUAL 8 INCHES. FORM CONCAVE MORTAR JOINTS, WHERE EXPOSED; STRIKE FLUSH WHERE CONCEALED.

18. PROVIDE TEMPORARY BRACING DURING MASONRY ERECTION. MAINTAIN IN PLACE UNTIL BUILDING STRUCTURE PROVIDES PERMANENT BRACING.

19. PLACE MASONRY REINFORCING AND ANCHORAGES FOR CONCRETE UNIT MASONRY AS FOLLOWS:

    A) PROVIDE SINGLE WYTHE WALLS WITH HORIZONTAL MASONRY REINFORCING IN EVERY SECOND MORTAR JOINT.

    B) PLACE HORIZONTAL MASONRY REINFORCING IN FIRST AND SECOND JOINT ABOVE AND BELOW OPENINGS. PLACE CONTINUOUS IN FIRST AND SECOND JOINT BELOW TOP OF WALLS.

    C) FULLY REINFORCE CORNERS AND INTERSECTIONS, USING PREFABRICATED CORNER AND "T" REINFORCEMENT SECTIONS.

    D) LAP MASONRY REINFORCING SPLICES MINIMUM 6 INCHES.

    E) PLACE VERTICAL REINFORCING AT INDICATED CENTERS. GROUT CELLS SOLID IN 4'-0" MAXIMUM LIFTS.

20. AS WORK PROGRESSES, BUILD-IN ANCHOR BOLTS, AND OTHER ITEMS EMBEDDED IN MASONRY.

21. REMOVE EXCESS MORTAR AND SMEARS UPON COMPLETION OF MASONRY WORK.

    A) CLEAN SOILED SURFACES OF ALL MASONRY WORK EXPOSED TO VIEW USING SAND AND WATER, FIBER BRUSHES AND SOAP AS REQUIRED. REMOVE ALL DIRT, MORTAR, STAINS AND OTHER DEFACEMENTS.

22. CLEAN AND REMOVE ALL MORTAR DROPPINGS FROM FLOOR.

23. COVER TOPS OF WALLS WHEN WORK IS NOT IN PROGRESS.

24. INSTALL THRU WALL FLASHING AND WEEP HOLES AS INDICATED ON DRAWINGS.

SECTION 04210 – BRICK

1. EXTERIOR BRICK

   A) BRICK SHALL BE FROM ONE MANUFACTURER, OF UNIFORM TEXTURE AND COLOR FOR EACH TYPE REQUIRED.

2. MORTAR: ASTM C270 TYPE N, 900 PSI AT 28 DAYS

   A) MORTAR SELECTION: TYPE N PORTLAND-LIME MORTAR (PCL) BY PROPORTION SPECIFICATION REQUIREMENTS OF ASTM C270, OR TYPE N MORTAR CEMENT MORTAR ARE THE ONLY MORTARS RECOMMENDED,

   COLOR: WHITE (AT WHITE BRICK ONLY)
   COLOR: NATURAL GREY (AT RED BRICK ONLY)

   B) MORTAR JOINTS: ALL JOINTS TO BE RAKED, U.N.O.

   C) MORTAR SPREADING TECHNIQUES: STRONG IRA BRICK WILL PULL MOISTURE OUT OF FRESH MORTAR MORE RAPIDLY THAN LOW IRA BRICK. IN ORDER TO OBTAIN GOOD BONDING, MORTAR MUST BE WET AND "PLASTIC" DURING LAYING. IF MORTAR IF DRY AND STIFF, BONDING WILL SUFFER. THEREFORE, THE TIME BETWEEN SPREADING MORTAR AND LAYING THE NEXT BRICK INTO IT SHOULD BE KEPT TO A MINIMUM. TO DO THIS, MORTAR SHOULD BE SPREAD FOR ONLY ONE OR TWO BRICK AT A TIME.

   D) FILLING HEAD JOINTS: THE HEAD JOINTS MUST BE FILLED WITH ENOUGH MORTAR SUCH THAT EXCESS WILL BE SQUEEZED OUT OF THE TOP AND FACE OF THE HEAD JOINT WHEN THE BRICK IS LAID. THE HEAD JOINTS SHOULD BE "SHOVED", SLUSHED FROM THE TOP. THE SHOVING TECHNIQUE IS PROPER FOR ALL TYPES OF BRICK, BUT IS CRITICAL FOR MOLDED BRICK. HEAD JOINTS ARE THE TOUGHEST PLACE TO GET GOOD BONDING, SO, WITH HIGH SUCTION AND SANDED SURFACES, MOLDED BRICK HEAD JOINTS REQUIRE SPECIAL ATTENTION.

   E) ONE METHOD SUGGESTED TO REDUCE IRA IS TO WET BRICK WITH CLEAN WATER. THIS SATISFIES SOME OF THE "THIRST" SO THAT THE BRICK UNITS WILL NOT DRY OUT THE MORTAR AS FAST.

3. CONSTRUCTION PRACTICES

   A) COVER ALL WALL OPENINGS WHICH COULD PROVIDE ACCESS FOR PRECIPITATION TO ENTER THE WALL SYSTEM DURING CONSTRUCTION. WATER WHICH GETS INTO THE CAVITY, OR INTO CONCRETE BLOCK CELLS, WILL PROBABLY CAUSE EFFLORESCENCE, MAY LEAD TO PERMANENT STAINING, AND COULD TAKE YEARS TO DRY OUT.

   B) PROTECT THE BRICK MASONRY FROM EXCESSIVE MORTAR DRIPPINGS. FOR EXAMPLE, WATER TABLES AND SILLS SHOULD BE COVERED WITH PLASTIC UNTIL MASONRY WORK ABOVE IS COMPLETELY FINISHED.

   C) PROTECT THE BRICK MASONRY FROM MORTAR "SPLATTER" CAUSED BY RAIN FALLING ON MORTAR-COVERED SCAFFOLD BOARDS.

   D) STORE BRICK ON PALLETS OR BOARDS, OFF GROUND, AND AWAY FROM SAWS AND MIXERS, WHICH COULD ALLOW EFFLORESCING DUSTS TO SETTLE ONTO, AND ABSORB INTO, THE BRICK. DO NOT SET CUBES OF BRICK ON CONCRETE, BECAUSE WATER WILL DISSOLVE EFFLORESCING IMPURITIES IN THE CONCRETE, WHICH COULD BE ABSORBED INTO THE BRICK.

4. FLASHING AND WEEP HOLES

   A) ALL BRICK VENEER WALLS MUST BE DESIGNATED ON THE PREMISE THAT WATER WILL ENTER THE WALL SYSTEM. THIS MAY OCCUR THROUGH THE MASONRY JOINTS (TYPICALLY AT THE INTERFACE BETWEEN BRICK AND MORTAR) OR ANY NUMBER OF PLACED WHERE CRACKS, OPENINGS, OR DETERIORATED CAULKINGS OCCUR. THEREFORE, ALL BRICK VENEER WALLS MUST INCORPORATE A DRAINAGE CAVITY, FLASHING WHERE THE DRAINAGE WILL BE INTERRUPTED, AND WEEP HOLES TO DIRECT THE DRAINAGE BACK OUT OF THE WALL. IF THESE ELEMENTS ARE NOT PROPERLY DESIGNED INTO THE WALL SYSTEM, IT IS THE MASON'S RESPONSIBILITY TO BRING THIS TO THE ATTENTION OF THE G.C., ARCHITECT, OR OWNER.

5. WORKMANSHIP

   A) FULL HEAD JOINTS ARE ESPECIALLY IMPORTANT, AND MUST INCLUDE USING A SIGNIFICANT AMOUNT OF PRESSURE AGAINST BOTH BRICK HEADS BY THE MORTAR IN ORDER TO GET GOOD BONDING. WEAKLY PLACED AND UNFILLED HEAD JOINTS ARE NOTORIOUS FOR ALLOWING RAPID AND SEVERE WATER PENETRATION INTO WALLS.

   B) MOVING OR ADJUSTING BRICK UNITS BEING PLACED CAN DESTROY THE BOND WITH MORTAR. AFTER ONLY A FEW SECONDS, MORTAR CAN BECOME DRY WHERE IT CONTACTS THE BRICK, AND MOVEMENT WILL CREATE A BROKEN BOND, ALLOWING EASY ACCESS FOR RAIN TO PENETRATION. THESE PATHS CAN BE INVISIBLE TO THE EYE WHILE BEING SURPRISINGLY OPEN TO WATER.

   C) THE CAVITY BEHIND THE WYTHE OF BRICK MASONRY, AND THE WEEP HOLES, MUST BE KEPT OPEN TO ALLOW DRAINAGE TO OCCUR PROPERLY. BLOCKAGES BY MORTAR DROPPINGS OR DEBRIS CAN PREVENT WATER FROM REACHING THE FLASHINGS, WHICH COULD DIVERT WATER TO THE INSIDE OF THE BUILDING.AT BEST, SUCH BLOCKED WATER MAY KEEP WALL MATERIALS DAMP FOR LONG PERIODS OF TIME, LEADING, PERHAPS, TO MILDEW OR DETERIORATION OF WALL FINISHES.

   D) THROUGH WALL FLASHINGS SHOULD BE INSTALLED SO THAT:

   a) ALL FLASHING JOINTS ARE SEALED, NOT LAPPED
   b) THE ENDS OF LINTEL AND SILL FLASHINGS ARE TURNED UP INTO DAMS
   c) THE BACK OF THE FLASHING IS FIRMLY ATTACHED

DIVISION 5 – METALS

SECTION 05120 – STRUCTURAL STEEL

1. CODE AND STANDARDS: AISC "CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES"; AISC "SPECIFICATIONS FOR THE DESIGN FABRICATION, AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS" INCLUDING "COMMENTARY"; AWS "STRUCTURAL WELDING CODE"; COMPLY WITH APPLICABLE PROVISIONS EXCEPT AS OTHERWISE INDICATED.

2. SHOP DRAWINGS: SHOW COMPLETE DETAILS AND SCHEDULES (IF REQUIRED) FOR FABRICATION, ASSEMBLY AND ERECTION. FURNISH ANCHOR BOLTS REQUIRED FOR INSTALLATION IN OTHER WORK; FURNISH TEMPLATES FOR BOLT INSTALLATION.

3. STEEL PLATES, MISCELLANEOUS SHAPES, BARS; ASTM A36.

4. WIDE FLANGE SHAPES; ASTM A992

5. COLD-FORMED STEEL TUBING: ASTM A500, GRADE B.

6. STEEL PIPE: ASTM A53, TYPE E OR S, GRADE B, SCHEDULE 40 UNLESS OTHERWISE NOTED.

7. FASTENERS: HIGH-STRENGTH BOLTS AND NUTS, ASTM A325 OR A490; UNFINISHED BOLTS AND NUTS, ASTM A307, GRADE A; RIVETS, ASTM A502, GRADE 1.

8. SHOP PAINT: FS TT-P-86, TYPE II; OR SSPC-PAINT 14.

9. FABRICATION: COMPLY WITH AISC "SPECIFICATIONS" AND FINAL SHOP DRAWINGS. MARK AND MATCH-MARK UNITS FOR FIELD ASSEMBLY.

10. CONNECTIONS: AS SHOWN ON FINAL SHOP DRAWINGS. USE HIGH-STRENGTH BOLTS FOR FIELD CONNECTIONS, EXCEPT AS OTHERWISE INDICATED.

    A) COMPLY WITH AWS CODE FOR PROCEDURES, APPEARANCE AND QUALITY OF WELDS.

10. PROVISIONS FOR OTHER WORK: FABRICATE STRUCTURAL STEEL MEMBERS TO PROVIDE HOLES FOR SECURING OTHER WORK AND FOR PASSAGE OF OTHER WORK THROUGH STEEL FRAMING AS INDICATED.

11. SHOP PAINTING: PAINT STRUCTURAL STEEL WORK, EXCEPT MEMBERS OR PARTITIONS OF MEMBERS EMBEDDED IN CONCRETE OR MORTAR, AND CONTACT AREAS TO BE WELDED OR RIVETED. CLEAN STEEL FREE OF LOOSE MILL SCALE, RUST, OIL, AND GREASE. APPLY PRIME PAINT TO PROVIDE A MINIMUM DRY FILM THICKNESS OF 2.0 MILS.

12. ERECTION: COMPLY WITH AISC CODE AND SPECIFICATIONS AND MAINTAIN WORK IN SAFE AND STABLE CONDITION DURING ERECTION. PROVIDE TEMPORARY BRACING AND SHORING AS REQUIRED; REMOVE WHEN FINAL CONNECTIONS PLACED.

SET BASE PLATES ON CLEANED BEARING SURFACES, USING WEDGES OR OTHER ADJUSTMENTS AS REQUIRED. SOLIDLY PACK OPEN SPACES WITH COMMERCIAL NON-SHRINK GROUT.

SECTION 05210 – STEEL JOIST FRAMING

1. EXCEPT AS HEREIN SPECIFIED OR AS INDICATED ON THE DRAWINGS, THE WORK OF THIS SECTION SHALL COMPLY WITH THE FOLLOWING:

   A) AISC – AMERICAN INSTITUTE FOR STEEL CONSTRUCTION: SPECIFICATION FOR THE DESIGN, FABRICATION AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS.

   B) ASTM STANDARDS: A36 – CARBON STRUCTURAL STEEL.

   C) SJI – STEEL JOIST INSTITUTE: STANDARD SPECIFICATIONS, LOAD TABLES & WEIGHT TABLES FOR STEEL JOISTS & JOIST GIRDERS.

GreenbergFarrow
21 S. Evergreen Ave. Suite 200
Arlington Heights, Illinois 60005
t: 847 788 9200 f: 847 788 9536

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ISSUE/REVISION RECORD

DATE	DESCRIPTION
01/29/19	COORDINATION SET
02/20/19	HEALTH SUBMITTAL
04/24/19	HEALTH RESPONSE
05/03/19	PERMIT/BID SET

PROFESSIONAL SEAL

PROFESSIONAL IN CHARGE
S. KOUGIAS
PROJECT MANAGER
E. ARELLANO
QUALITY CONTROL
S. KOUGIAS
DRAWN BY
E. ARELLANO

PROJECT NAME
BUBBA'S 33

GASTONIA
NORTH CAROLINA

3287 E. FRANKLIN BLDVD.

PROJECT NUMBER
20181046.0

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SPECIFICATIONS

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SPC1

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