

prownsville texas 78526 (956) 546-0110 fax (956) 546-0196

GMS ARCHITECTS

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BROWNSVILLE

TEXAS

Joel Jessica Rose John Murith Mungla Cowen Tetr Galo nsky Gowen Mendez Pizana

City City Mayor Commissioner, Commissioner, Commissioner, Commissioner, Commissioner, Commissioner, District District District Larg Larg

Damaris Glone

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Neece

1/2" DIA. x 6" BOL AND NUTS (6 REQ'D.)———

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nez Mendez Saenz, Inc. Architects Planners

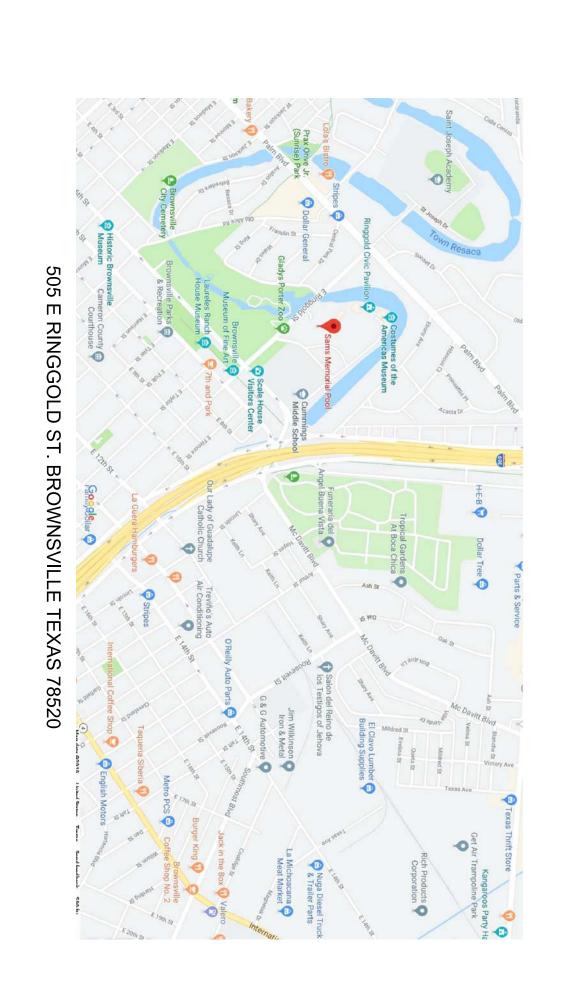
Joel Mungia issioner, District 3

Rubiano & Associates uctural Engineers

CITY OF BROWNSVILLE SAM'S MEMORIAL POOL RENOVATIONS PSP-67-1019

CITY COMISSION

Parks and Recreation Speci



MECHANICAL **ENGINEERS**

01 PROJECT SIGN

ETHOS ENGINEERING - M.E.P.

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(956) 230-3435 FAX: (956) 720-0830

AQUATIC DESIGN

AQUEOUS ENGINEERING
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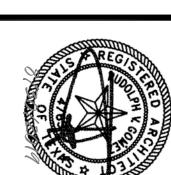
1150 PAREDES LINE RD. BROWNSVILLE, TX. 78521 GOMEZ MENDEZ SAENZ, INC. PH. (956) 546-0110 FAX. (956) 546-0196

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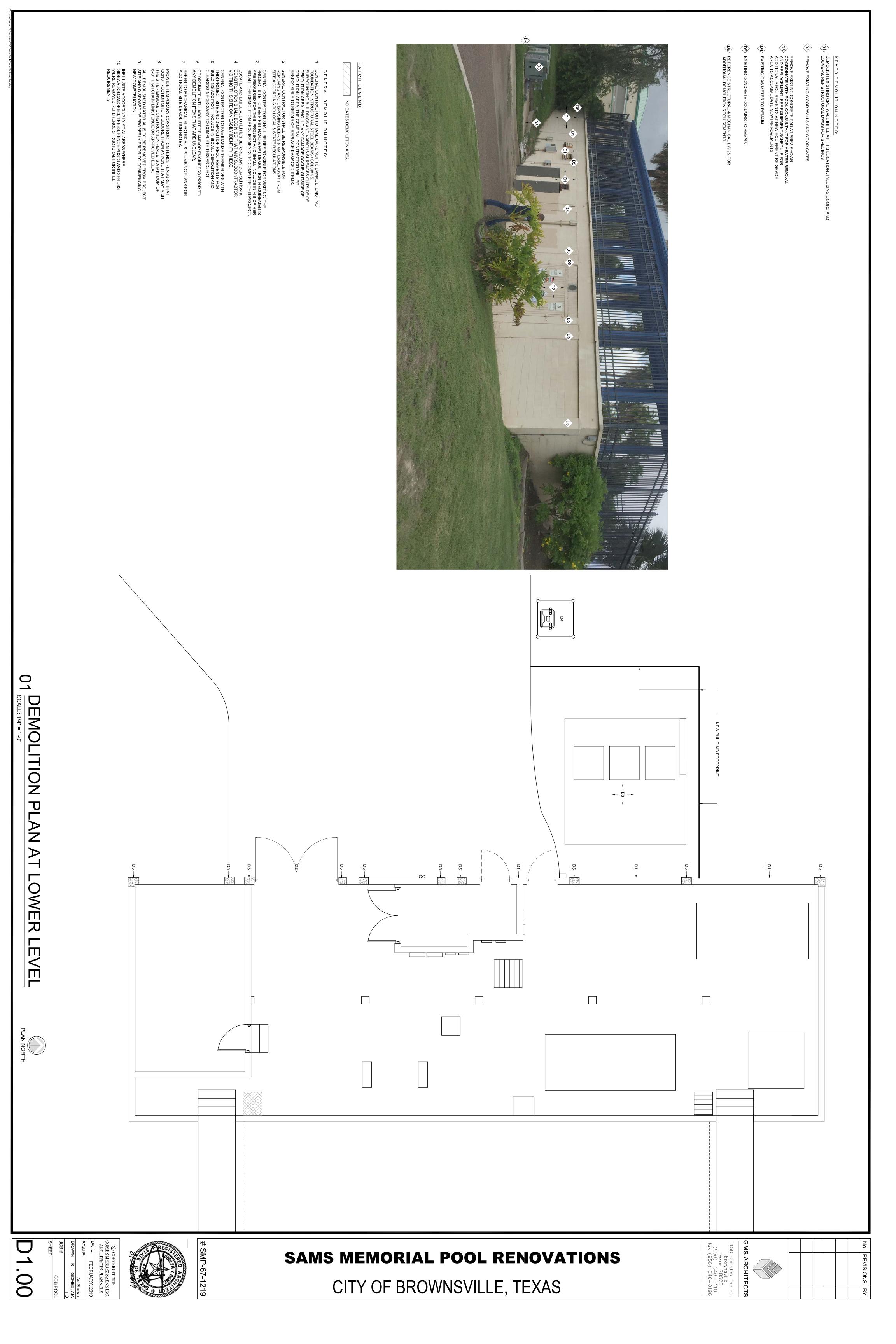
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GENERAL STRUCTURAL DETAILS POOL DECK REPAIR PLAN STRUCTURAL DETAILS PUMP ROOM REPAIR PLAN WALL SECTIONS STORAGE ROOM CONCRETE REPAIR DETAILS	STRUCTURAL NOTES	POOL HEATERS PLAN & DETAILS	WALL SECTIONS WALL SECTIONS EXTERIOR ELEVATIONS	FLOOR PLAN POOL DECK PLAN ENLARGEMENTS AND RAILING DETAILS	DEMOLITION PLAN AT POOL DECK FLOOR PLAN	DEMOLITION PLAN

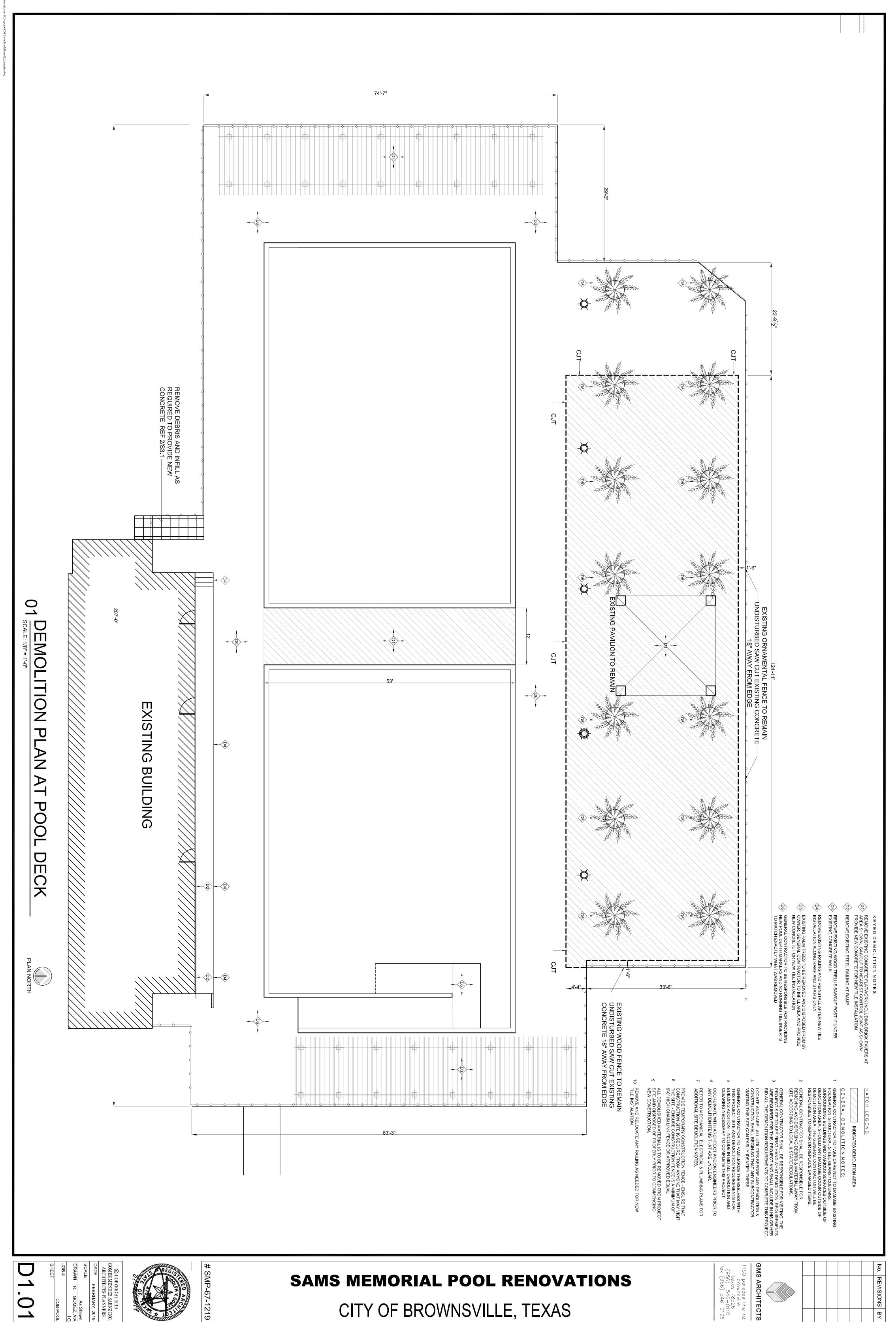
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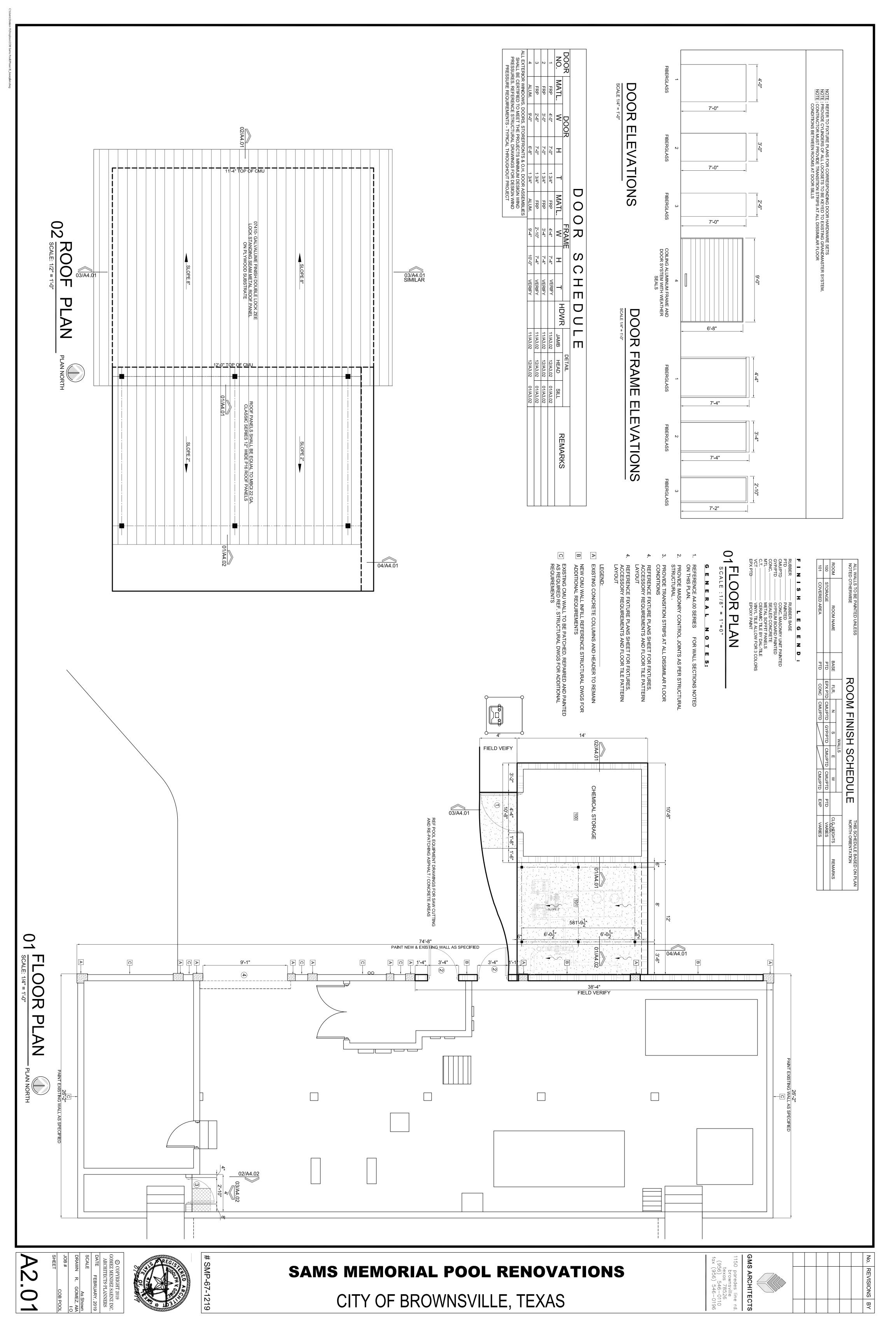


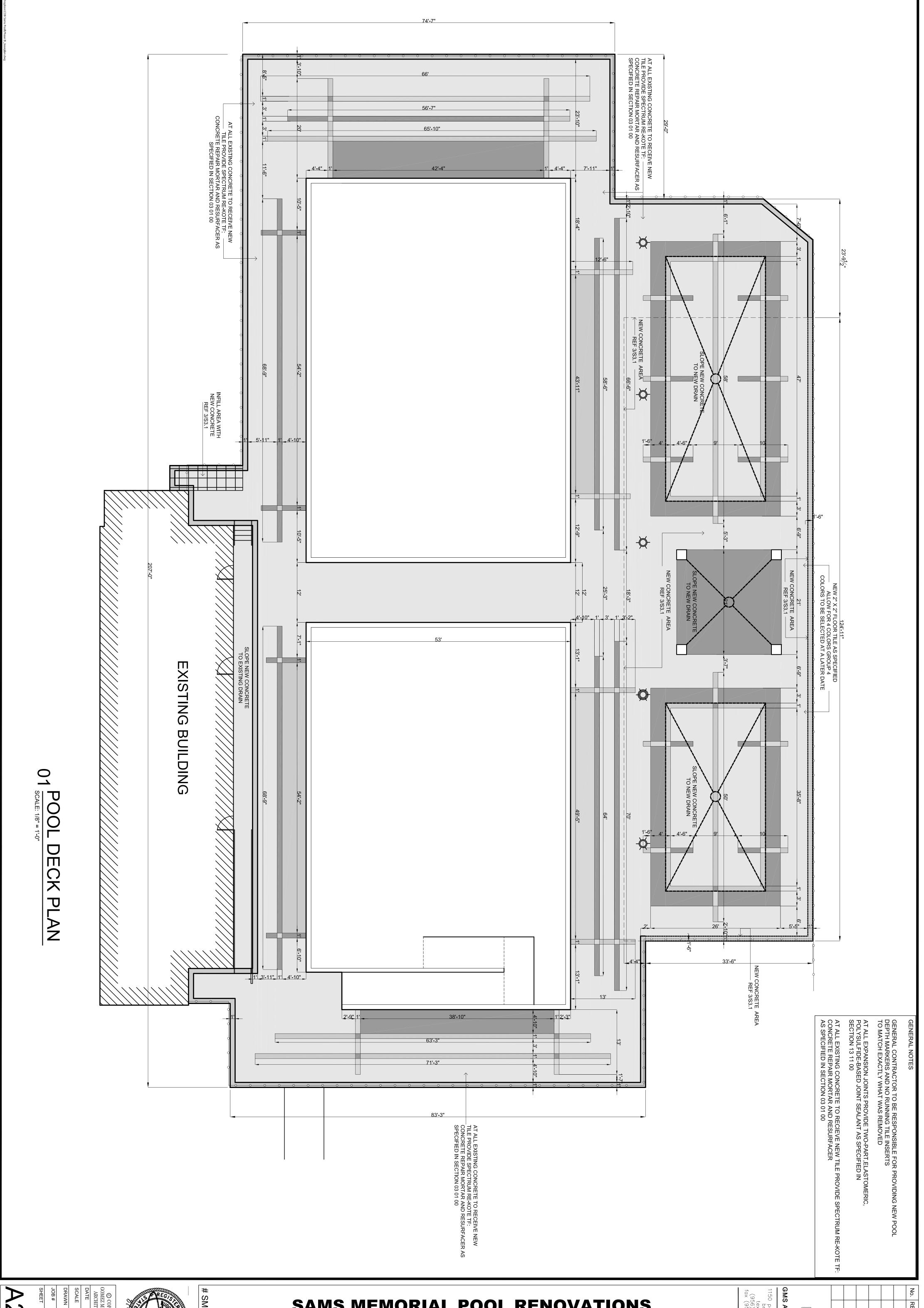
MEP NOTES
MECHANICAL DEMOLITION NOTES
MECHANICAL ELECTRICAL NOTES
POOL DECK MECHANICAL/ELECTRICAL PLAN
ELECTRICAL LEGENDS AND NOTES
MECHANICAL PLAN
GENERAL DETAILS

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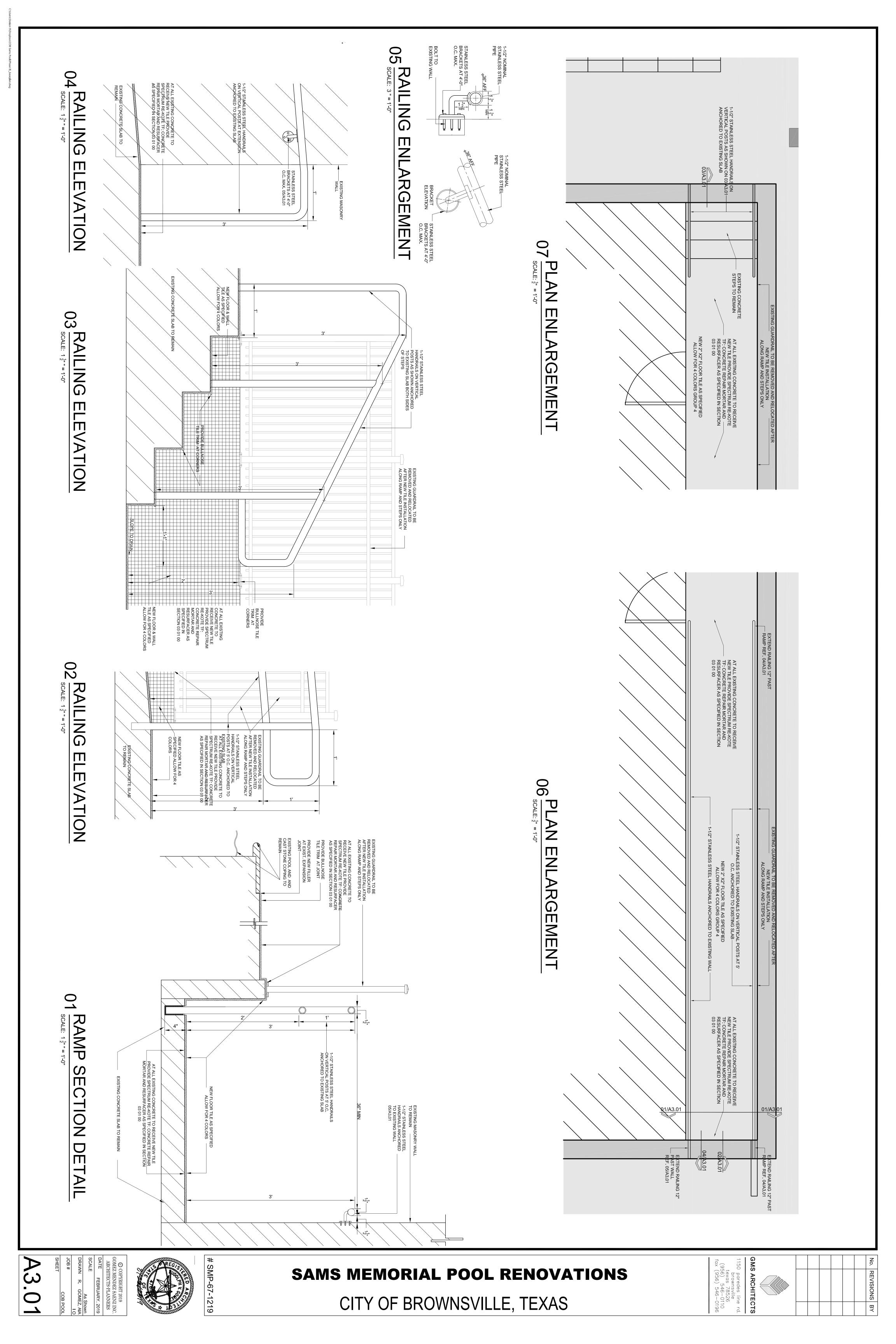


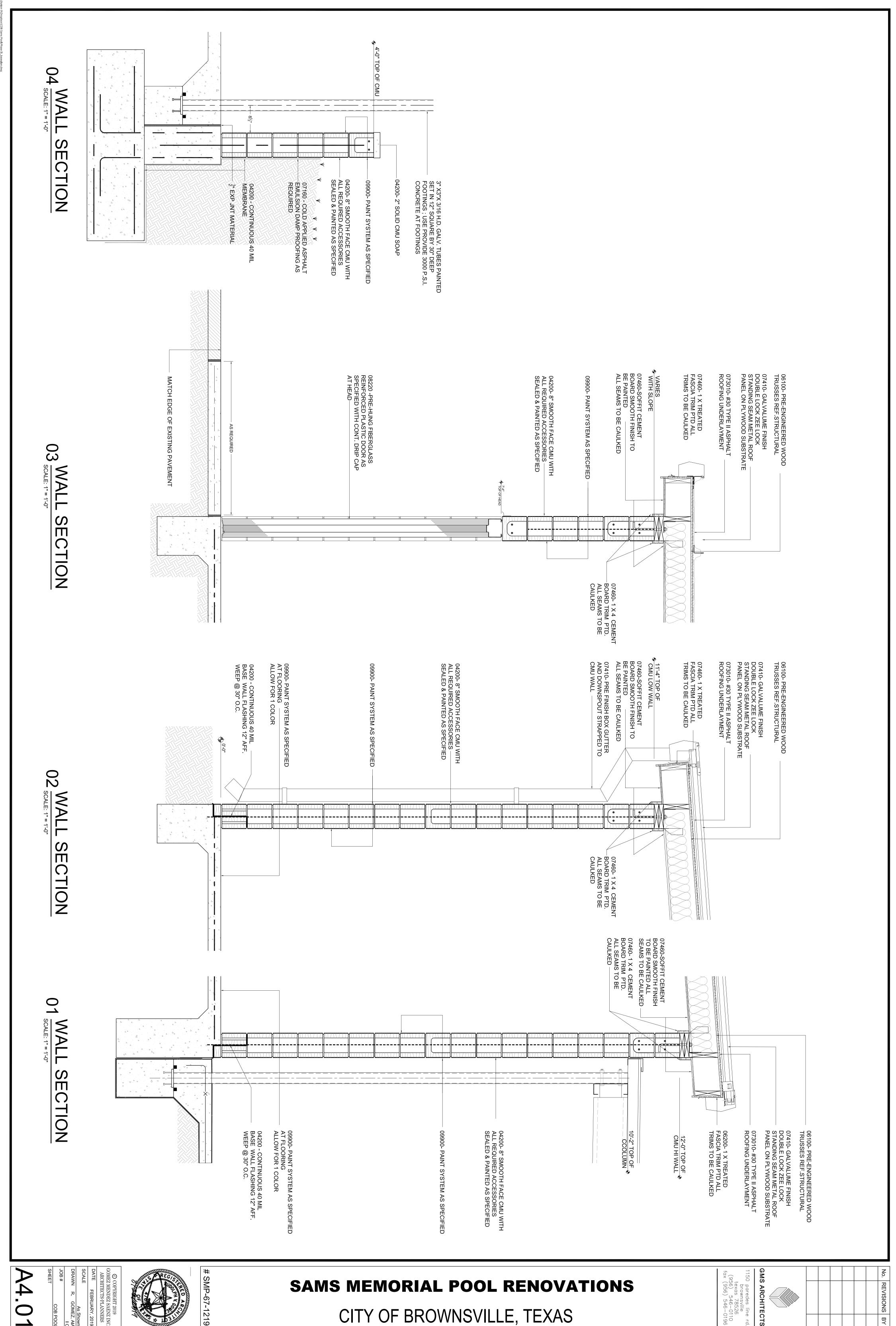
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DATE FEBRUARY, 2019
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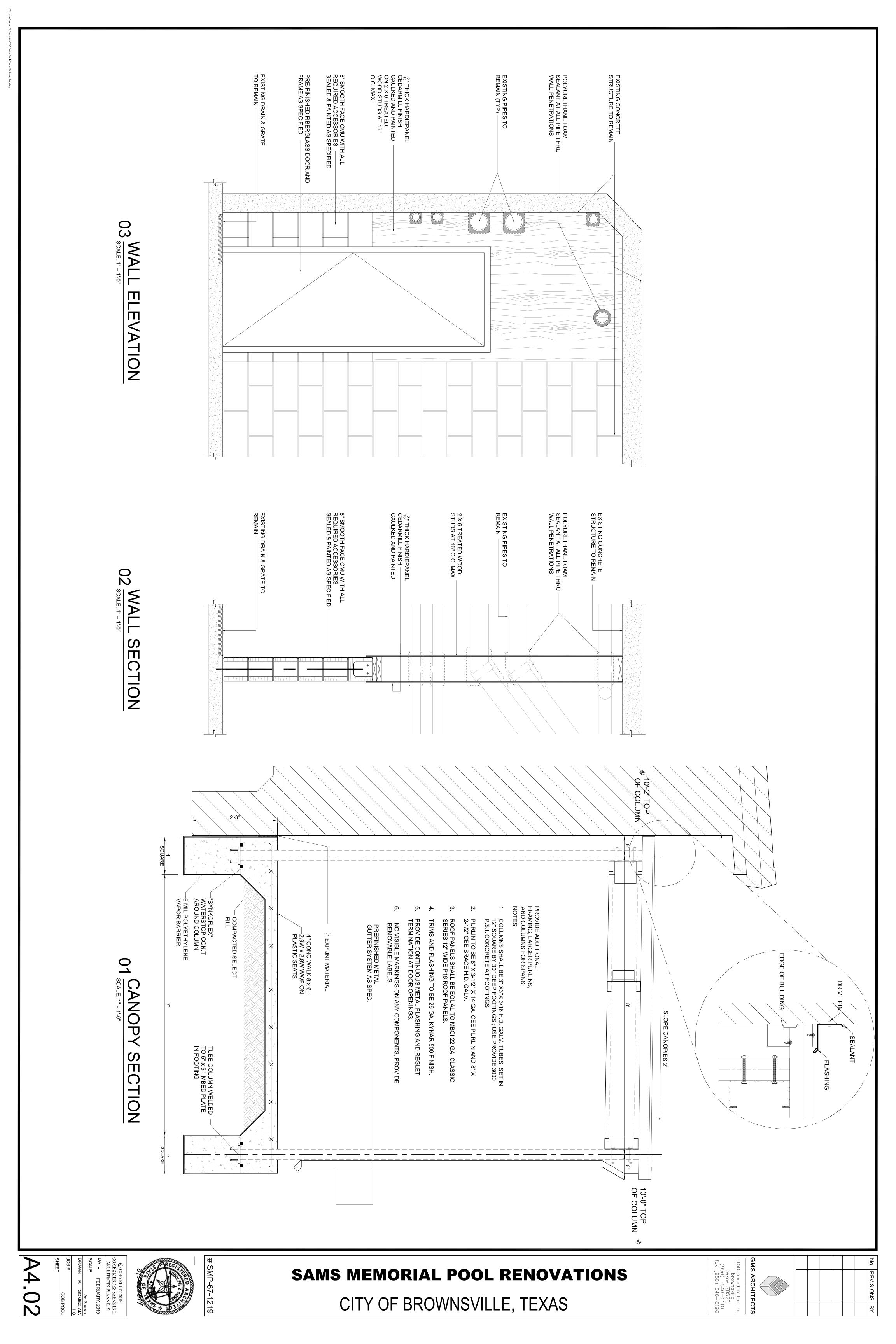


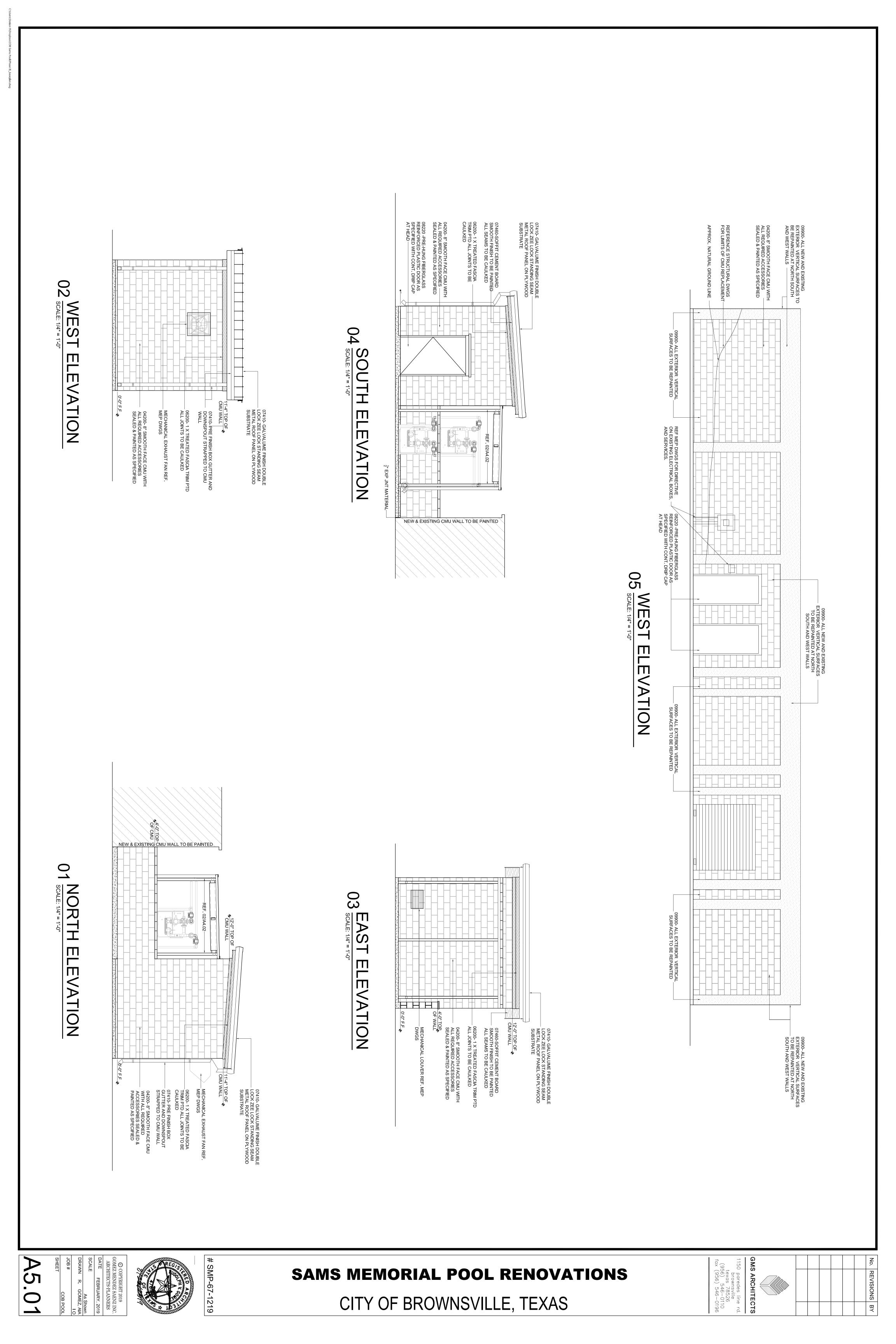


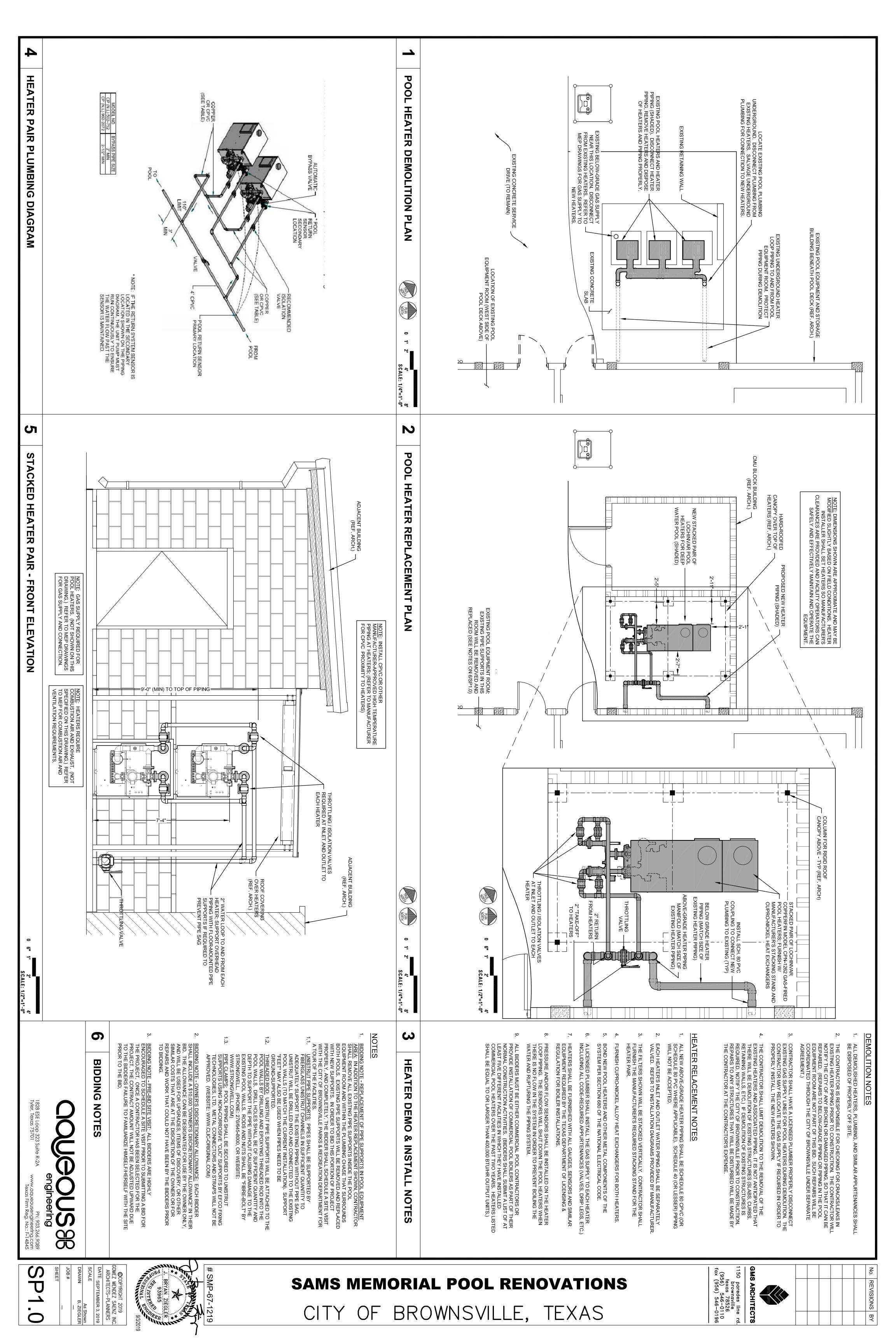


CITY OF BROWNSVILLE, TEXAS









TEMPORARY BRACING. FALSEWORK AND FORMWORK GENERAL STRUCTURAL

1. BASIS FOR DESIGN AND CODE COMPLIANCE WIND DESIGN BASED ON THE GREATER ULTIMATE DESIGN WIND SPEED......RISK CATEGORY......WIND EXPOSURE CATEGORY........INTERNAL PRESSURE COEFFICIENT (GCpi). A. ASCE 7-10 REQUIREMENTS A. GOVERNING BUILDING CODE. 7-05 REQUIREMENTS /-0.18

DESIGN WIND SPEED......WHORTANCE FACTOR.....WIND EXPOSURE CATEGORY.......INTERNAL PRESSURE COEFFICIENT (GCpi).

GRAVITY DESIGN ROOF:

DEAD LOAD....

THE GENERAL CONTRACTOR MUST SUBMIT COMPONENT AND CLADDING WIND PRESSURE & IMPACT RESISTANCE RATINGS AND REQUIRED ATTACHMENT PROCEDURES TO THE STRUCTURAL ENGINEER FOR REVIEW. SUBMITTAL INFORMATION SHALL INCLUDE A THIRD PARTY TESTING REPORT OF THE SUBMITTED ASSEMBLY; REFERENCE EXTERIOR COMPONENTS & CLADDINGS NOTES FOR ADDITIONAL REQUIREMENTS. THE GENERAL CONTRACTOR SHALL CONTACT THE STRUCTURAL ENGINEER TO COORDINATE AND SCHEDULE REQUIRED PERIODIC INSPECTION OF EXTERIOR COMPONENTS AND CLADDINGS. THESE BUILDINGS ARE DESIGNED TO MEET ASCE 7-05 & ASCE 7-10 WIND PRESSURES. ALL COMPONENTS AND CLADDINGS (E.G. WINDOWS, DOORS, ARCHITECTURAL SIDINGS AND ROOFING); MUST MEET MINIMUM WIND CODE REQUIREMENTS. IN ADDITION, GLAZED EXTERIOR OPENINGS IN THE LOWER 60 FEET OF THE BUILDING SHALL BE IMPACT RESISTANT MEETING ASTM E 1996 FOR LARGE MISSILES OR PROTECTED WITH AN IMPACT RESISTANT COVERING.

FOUNDATION DESIGN CRITERIA THE GENERAL CONTRACTOR IS RESPONSIBLE FOR PROVIDING CONSTRUCTION SERVICES AS NEEDED TO SATISFY THE REQUIREMENTS OF THE DRAWINGS, THE SPECIFICATIONS, THE REFERENCED BUILDING CODE AND THE TEXAS DEPARTMENT OF INSURANCE WINDSTORM INSPECTION PROGRAM. ALL CONSTRUCTION ADMINISTRATION COSTS ASSOCIATED WITH SUBMITTAL PREPARATION, SUBMITTAL REVIEW, INSPECTION COORDINATION, INCLUDING ALL GENERAL CONDITIONS, OVERHEAD AND PROFIT, SHALL BE INCLUDED IN THE GENERAL CONTRACTOR'S BID.

FOUNDATION DESIGN IS IN ACCORDANCE WITH THE INTERNATIONAL BUILDING CODE, AND IS BASED ON THE VALUES RECOMMENDED IN TABLE 1806.2—PRESUMPTIVE LOAD—BEARING VALUES, AS LISTED BELOW: LATERAL BEARING PRESSURE VERTICAL FOUNDATION PRESSURE / FT BELOW GRADE

A GEOTECHNICAL ENGINEER OF LISTED ABOVE. RECORD SHALL BE RETAINED TO .100 PSF VERIFY THE ASSUMED PROPERTIES

EXISTING CONDITIONS CONTRACTOR SHALL FIELD VERIFY ALL EXISTING DIMENSIONS AND CONDITIONS. DIMENSIONS SHOWN ON THE PLANS ARE APPROXIMATE. CONTRACTOR SHALL OBTAIN ALL FIELD MEASUREMENTS AS NECESSARY TO COORDINATE NEW CONSTRUCTION TO EXISTING CONDITIONS.

IF EXISTING CONDITIONS DIFFER FROM THE DRAWINGS, INFORM THE ENGINEER AND ADDITIONAL DETAILS OR INTERPRETATION WILL BE PROVIDED. DO NOT PROCEED WITHOUT VERIFICATION.

THE CONTRACTOR SHALL VISIT THE SITE OF THE PROPOSED WORK AND FULLY ACQUAINT THEMSELVES WITH THE EXISTING CONDITIONS.

GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF THE EXISTING STRUCTURE AND SURROUNDING BUILDINGS DURING CONSTRUCTION.

GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR TEMPORARY WATERTIGHTNESS OF THE BUILDING DURING DEMOLITION AND RECONSTRUCTION.

GENERAL CONTRACTOR SHALL COORDINATE WITH ENGINEER ITEMS THAT ARE UNCLEAR PRIOR TO ANY DEMOLITION.

GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR VISITING THE PROJECT SITE TO DETERMINE DEMOLITION REQUIREMENTS AT THIS PROJECT. CONTRACTOR SHALL INCLUDE IN THEIR BID ALL THE DEMOLITION REQUIREMENTS TO COMPLETE THIS PROJECT.

GENERAL CONTRACTOR SHALL LOCATE AND LABEL ALL UTILITIES BEFORE COMMENCEMENT OF DEMOLITION & CONSTRUCTION ACTIVITIES. UTILITIES SHALL BE CLEARLY MARKED SO THAT ANY SUBCONTRACTOR VISITING THIS SITE CAN EASILY IDENTIFY UTILITIES. ANY COSTS TO REPAIR DAMAGES IF UTILITIES ARE NOT PROPERLY IDENTIFIED, ARE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.

ANY AREA DAMAGED DURING CONSTRUCTION SHALL BE REPAIRED TO THE OWNER'S SATISFACTION AT THE CONTRACTOR'S EXPENSE. GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVING AND DISPOSING DEBRIS & MATERIAL AWAY FROM SITE ACCORDING TO GOVERNING LOCAL, STATE OR FEDERAL REGULATIONS.

PENETRATIONS

PENETRATIONS THROUGH EXISTING ELEMENTS SHALL COMPLY WITH THE SPECIFICATIONS. DRAWINGS

DO NOT CUT JOISTS, BEAMS OR COLUMNS WITHOUT PRIOR APPROVAL

PENETRATIONS THROUGH LOAD-BEARING ELEMENTS COLLAPSE, AS SPECIFIED BELOW.

CONTRACTOR SHALL PROVIDE ENGINEERED SHORING PLAN PRIOR TO START OF ROOF COLUMN DEMOLITION. SHORING PLAN SHALL BE SIGNED AND SEALED BY A STATE OF TEXAS PROFESSIONAL ENGINEER.

3. THE ENGINEER'S EFFORTS ARE AIMED AT DESFULL COMPLETION. THE ENGINEER HAS NO EFOR, CONSTRUCTION MEANS AND METHODS SAFETY IS EXCLUSIVELY THE CONTRACTOR'S APPROVING SUBMITTALS MADE BY CONTRACTO SHORING, CONSTRUCTION METHODS OR SWHERE SUCH ISSUES MIGHT BE DISCUSSED, ASSUMPTION BY ENGINEER OF ANY RESPONSE

HAZARDOUS MATERIALS ABATEMENT/MANAGEMENT

THE ENGINEER HAS NO RESPONSIBILITY OF ASBESTOS/LEAD, OR FOR ABATEMEN LEGAL DISPOSAL OF MATERIALS. CONTRACMATERIAL ABATEMENT/ MANAGEMENT IS THE BID. OR LIABILITY FOR DESIGN, REMOVAL OF, OR TESTING NT/MANAGERIAL TREATMENTS, MONITORING, AND CTOR SHALL DETERMINE IF ANY HAZARDOUS REQUIRED AND SHALL INCLUDE COSTS THEREOF IN

SAFETY

PERFORM ALL WORK IN A SAFE AND CONSCIENTIOUS MANNER TO PREVENT INJURIES.

SELF-WEIGHT OF STRUCTURE & ROOFING SYSTEM

REMOVE AT LEAST 12 INCHES. OF THE EXISTING SITE SOIL, VEGETATION, TREE ROOTS, DEBRIS, ETC., FROM THE PROPOSED BUILDING AREA TO A DISTANCE OF 5'-0" OUTSIDE THE BUILDING AREA (EXTERIOR OF THE FOUNDATION, INCLUDING ATTACHED IMPROVEMENTS SUCH AS SIDE WALKS AND CANOPIES). DEPTH OF REMOVAL SHALL BE VERIFIED BY THE GEOTECHNICAL ENGINEER AT THE TIME OF CONSTRUCTION.

AFTER TOP SOIL HAS BEEN REMOVED, THE SUBGRADE SHALL BE PROOF—ROLLED WITH APPROPRIATE CONSTRUCTION EQUIPMENT WEIGHING AT LEAST 20 TONS UNTIL THE GRADE OFFERS A RELATIVELY UNYIELDING SURFACE. SOFT SOIL AND YIELDING AREAS, AND AREAS WHERE TREE ROOTS HAVE BEEN REMOVED, SHALL BE OVER EXCAVATED AND REPLACED WITH COMPACTED SELECT FILL IN ACCORDANCE WITH THE REQUIREMENTS BELOW.

SELECT FILL SHALL BE FREE OF ORGANIC (LL) LESS THAN 40, A PLASTICITY INDEX THAN 2" DIAMETER.

FOUNDATION CONCRETE SHALL NOT BE PLA BY RAINFALL OR WATER SEEPAGE. IF BEARII DESICCATION, THE UNSUITABLE SOILS SHALL BE REPLACED WITH PROPERLY COMPACTED CONCRETE. ALL SOIL REMOVAL AND REPLAC AND REINSTALL REINFORCEMENT AND VAPOR RESPONSIBILITY OF THE GENERAL CONTRACT REQUIREMENTS SHALL BE COORDINATED WITH PLACED ON SELECT FILL SOILS THAT HAVE BEEN DISTURBED EARING SOILS ARE SOFTENED BY WATER INTRUSION, OR BY HALL BE REMOVED FROM THE FOUNDATION EXCAVATION AND TED SELECT FILL PRIOR TO PLACEMENT OF FOUNDATION PLACEMENT COSTS, INCLUDING ASSOCIATED COSTS TO REMOVE APOR BARRIER MATERIALS, SHALL BE THE SOLE APOR BARRIER MATERIALS APOR BARRIER BARRI

<u>1</u>0. SAMPLES OF PROPOSED SELECT FILL SHALL BE FURNISHED TO THE TESTING LABORATORY 7 DAYS PRIOR TO INSTALLATION TO PERMIT TIME FOR SPECIFICATION COMPLIANCE INSPECTION AND REVIEW BY THE GEOTECHNICAL ENGINEER.

SITE SHALL BE GRADED SO THAT WATER FOUNDATION BEAM DURING OR AFTER CO FROM THE STRUCTURE SHOULD BE A MIN TEN (10') FEET. ELEVATION OF GROUND SLEAST 6 INCHES BELOW FINISH FLOOR. DOES NOT POND WITHIN 10 FEET OF THE PERIMETER NSTRUCTION. THE SLOPE OF THE GROUND SURFACE AWAY SURFACE AFT LEAST SURFACE ADJACENT TO THE FOUNDATION SHOULD BE AT

CONTRACTOR SHALL MAINTAIN OSHA STANDARDS FOR JOB SAFETY AND WORKER PROTECTION, INCLUDING, BUT NOT LIMITED TO ADEQUATE PROTECTION, BARRICADES, SIGNS, ETC.

THE GENERAL CONTRACTOR IS SOLELY RESPONSIBLE FOR SAFETY. THE ENGINEER EXPRESSLY EXCLUDES ANY RESPONSIBILITY FOR CONTRACTOR SAFETY OR SAFETY OF JOBSITE.

FOUNDATION NOTES

PROOFROLLING OPERATIONS AND EXCAVATION/BACKFILL ACTIVITIES SHOULD BE PERFORMED DURING A PERIOD OF DRY WEATHER AND OBSERVED BY THE GEOTECHNICAL ENGINEER OR HIS REPRESENTATIVE TO DOCUMENT SUBGRADE CONDITIONS AND PREPARATION. IF SUBGRADE SOILS ARE ALLOWED TO BECOME WET OR SATURATED, REMOVAL AND REPLACEMENT OF SOFT SOILS OR LIME STABILIZATION PROCEDURES SHALL BE PERFORMED AT THE CONTRACTOR'S EXPENSE. THE GEOTECHNICAL ENGINEER SHALL BE CONTACTED FOR ADDITIONAL RECOMMENDATIONS, IF REQUIRED.

SCARIFY, MOISTURE CONDITION, AND COMPACT THE TOP 8" OF THE EXPOSED SUBGRADE TO 98% OF STANDARD PROCTOR MAXIMUM DRY DENSITY AT -3% TO +3% ABOVE THE OPTIMUM MOISTURE CONTENT, IN ACCORDANCE WITH TEST METHOD ASTM D-698. MOISTURE CONTENT SHALL BE AS NOTED IMMEDIATELY PRIOR TO PLACING SELECT FILL.

RESTORE GRADE USING SELECT FILL AS REQUIRED TO PROVIDE THE SPECIFIED **FINISH FLOOR ELEVATION** AND PROPER SITE DRAINAGE, COMPACTED IN ACCORDANCE WITH THE REQUIREMENTS BELOW. FINISH FLOOR ELEVATIONS SHALL BE VERIFIED WITH ARCHITECT AND CIVIL ENGINEER.

SELECT FILL SHALL BE COMPACTED IN THE FIELD IN LIFTS NOT TO EXCEED 8" LOOSE MEASURE (6" COMPACTED LIFT) TO A MINIMUM OF 98% OF STANDARD PROCTOR MAXIMUM DRY DENSITY AT -3% TO +3% OF THE OPTIMUM MOISTURE CONTENT, AS EVALUATED BY ASTM D-698.

OR OTHER DELETERIOUS MATERIALS, HAVE A LIQUID LIMIT (PI) BETWEEN $7\!-\!17$, AND A MAXIMUM PARTICLE SIZE LESS

LABORATORY MOISTURE—DENSITY CURVES CURVES AND FIELD DENSITY TESTS SHALL OF ONE (1) IN PLACE DENSITY TEST PER EACH LIFT DURING PLACEMENT OF SELECT ENGINEER WITHIN 3 DAYS AFTER TESTS AI SHALL BE DEVELOPED FOR SUBGRADE AND FILL. PROCTOR L BE SUBMITTED TO THE ENGINEER FOR REVIEW. A MINIMUM 2,000 SQUARE FEET OF SLAB AREA SHALL BE TAKEN ON THE TILL. DENSITY REPORTS SHALL BE TRANSMITTED TO ARE MADE.

GRAIN SIZE ANALYSIS AND ATTERBERG LIMITS TESTS SHALL BE PERFORMED DURING FILL PLACEMENT AT A RATE OF ONE TEST PER 2,000 CUBIC YARDS OF FILL BROUGHT TO THE SITE. SAMPLES FOR TEST SHALL BE TAKEN FROM JOBSITE MATERIALS.

3. FINAL DRAINAGE IS VERY IMPORTANT TO THE PLUMBING, AND DOWNSPOUT DRAINAGE ARE DRAINAGE BE TRANSPORTED AWAY FROM BUBUILDINGS, WHICH CAN RESULT IN SOIL VOLSHOULD BE REPAIRED AS SOON AS POSSIBLED CHANGE UNDER THE SLAB. LARGE TREES A VICINITY OF THE STRUCTURE, SINCE THE RESOIL VOLUME IN THE VICINITY OF THE TREE PLANTED A REASONABLE DISTANCE AWAY FUNE" DOES NOT EXTEND BEYOND THE PERIL SHOULD BE PERFORMED IN A TIMELY AND AVOIDED.

ALL DETAILING, FABRICATION AND ERECTION OF REINFORCING BARS, UNLESS OTHERWISE NOTED, MUST FOLLOW THE A.C.I. "MANUAL OF STANDARD PRACTICE FOR DETAILING REINFORCED CONCRETE", A.C.I. #315, LATEST EDITION.

A MAXIMUM OF 25% FLYASH MAY BE USED AS A CEMENT SUBSTITUTE AND SHALL CONFORM TO ASTM C618, CLASS C. THE WATER/CEMENT RATIO SHALL NOT EXCEED 0.6 AND SLUMPS SHALL BE 5 INCHES (±1 INCH). AGGREGATE SHALL BE WELL-GRADED, 1" MAXIMUM FOR THE SLAB ON GRADE. COARSE AGGREGATE SHALL MEET ASTM C33, GRADATION #57. A QUALIFIED TESTING LABORATORY SHALL BE RETAINED TO FURNISH MIX DESIGNS FOR ALL CLASSES OF CONCRETE. A SAMPLE OF FOUR CYLINDERS SHALL BE TAKEN NOT LESS THAN ONCE A DAY, NOR LESS THAN ONCE FOR EACH 100 YD3 OF CONCRETE. ONE CYLINDER SHALL BE TESTED AT 7 DAYS AND TWO AT 28 DAYS. THE FOURTH CYLINDER MAY BE DISPOSED OF AFTER 45 DAYS IF NOT USED.

ADMIXTURES CONTAINING WATER SOLUBLE CHLORIDE IONS GREATER THAN 0.06% BY WEIGHT OF CEMENT SHALL NOT BE USED.

STANDARD PROTECTIVE COVER OF REINFORCING BARS UNLESS OTHERWISE NOTED SHALL BE:

SLAB MAT TO BE SUPPORTED BY MASONRY BRICK BATTS (MIN OF 1/2 BRICK) SPACED AT 4 FEET ON CENTER EACH WAY (MAX). BEAM CAGES SUPPORTED BY BATTS AT 4 FEET ON CENTER.

VERTICAL CONSTRUCTION JOINTS IN FLOOR SHALL BE COORDINATED WITH STRUCTURAL ENGINEER PRIOR TO FORMING SLAB. CRACK CONTROL JOINTS SHALL BE PROVIDED AT LOCATIONS SHOWN ON THE PLANS. CONTROL JOINTS SHALL BE SAWCUT (IMMEDIATELY SUBSEQUENT TO FINISHING SLAB) WITH "SOFF—CUT" SYSTEM. JOINTS SHALL BE CLEANED AND FILLED WITH "SONOLASTIC SL1" WITHIN TWO (2) DAYS AFTER SAWCUTTING. NO HORIZONTAL JOINTS WILL BE PERMITTED IN SLABS OR BEAMS UNLESS APPROVED BY THE ENGINEER.

PROVIDE 2 TOP & BOTTOM CORNER BARS AT ALL DISCONTINUOUS GRADE BEAMS AND FOUNDATION CORNERS. CORNER BARS SHALL BE 4'-0" IN LENGTH (2'-0" LEGS). SIZE OF THE CORNER BARS SHALL MATCH THE SIZE OF THE GRADE BEAM REINFORCING AS SHOWN BY STRUCTURAL DRAWINGS.

BARS SCHEDULED OR DETAILED "CONT" SHALL BE LAPPED 40 BAR DIAMETERS (24 INCHES MINIMUM) UNLESS OTHERWISE NOTED.

WHERE CONCRETE IS TO HAVE UNEXPOSED SURFACES, THE FORMS MAY BE CONSTRUCTED OF #2 LUMBER OR BETTER. WHERE SURFACES ARE EXPOSED, SUCH AS FOR FINISH PAINTING OR STUCCO DASH, THE FORMS SHALL BE COMMERCIAL STANDARD DOUGLAS FIR, MOISTURE—RESISTANT CONCRETE FORM PLYWOOD; MINIMUM 5—PLY AND AT LEAST 9/16" THICK, OR FORMS LINED WITH COMMERCIAL STANDARD DOUGLAS FIR, CONCRETE FORM EXTERIOR, 3—PLY, NOT LESS THAN 1/4" THICK. WHERE CONCRETE IS EXPOSED, A SMOOTH SURFACE IS REQUIRED, FREE FROM FINS, HONEYCOMB, FORM MARKS OR OTHER DEFECTS.

A. COARSE AGGREGATE SHALL BE GRADED FROM A MAXIMUM OF 1" DOWN

MAXIMUM ALLOWABLE INCREASE IN CEMENT FACTOR SHALL BE 1/2 SACK PER CUBIC YARD OVER NORMAL MIX DESIGN.

MAXIMUM WATER CEMENT RATIO SHALL BE 7-1/2 GALLONS PER SACK OF CEMENT. IF MORE WORKABILITY IS REQUIRED, AN ADMIXTURE MAY BE USED.

MAXIMUM WEIGHT RATIO OF FINE AGGREGATES TO COARSE AGGREGATES SHALL NOT EXCEED REFER TO A.C.I. #301, LATEST EDITION, SECTION 800, FOR OTHER PUMPING REQUIREMENTS.

IN NO CASE SHALL CONCRETE BE PUMPED THROUGH AN ALUMINUM TUBE.

C. SCRATCH FINISH 1/2" IN 10'

CONCRETE TO BE CURED IN ACCORDANCE WITH ACI RECOMMENDATIONS. PROPOSED METHOD OF CURING TO BE COORDINATED WITH ENGINEER PRIOR TO CONCRETE PLACEMENT.

THE CONTRACTOR SHALL REVIEW AND ANNOTATE SHOP DRAWINGS BEFORE SUBMITTING THEM TO THE ARCHITECT/ENGINEER FOR REVIEW. THE CONTRACTOR SHALL ALLOW ARCHITECT/ENGINEER 10 WORKING DAYS FOR REVIEW OF SHOP DRAWINGS.

ALL CONCRETE WORK SHALL CONFORM TO THE AMERICAN CONCRETE INSTITUTE SPECIFICATION, A.C.I. #301 AND BUILDING CODE REQUIREMENTS, A.C.I. #318, LATEST EDITION.

CONCRETE SHALL HAVE A MINIMUM COMPRESSION STRENGTH OF 3,000 PSI AT 28 DAYS.

REINFORCING BARS SHALL BE NEW BILLET STEEL CONFORMING TO ASTM A-615, GRADE 60.~#3 BARS MAY BE GRADE 40.

ALL ACCESSORIES SHALL BE IN ACCORDANCE WITH THE A.C.I. "MANUAL OF STANDARD PRACTICE FOR DETAILING REINFORCED CONCRETE", A.C.I. #315, LATEST EDITION.

10.

MAINTAIN A MINIMUM OF ONE AND ONE-HALF (1-1/2) TIMES THE MAXIMUM COARSE AGGREGATE SIZE BETWEEN ALL REINFORCING BARS (EXCEPT AT LAPS).

EXPOSED SURFACES OF CONCRETE AT THE PERIMETER OF THE FOUNDATION SHALL BE FORMED WITH 2X10 #2 LUMBER OR BETTER. A SMOOTH SURFACE IS REQUIRED, FREE FROM FINS, HONEYCOMB, FORM MARKS OR OTHER DEFECTS.

CONSTRUCT FORMS SO THAT JOINTS ARE LEAKPROOF. MAINTAIN FORMS SUFFICIENTLY RIGID PREVENT DEFORMATION UNDER LOAD.

CONCRETE MAY BE PLACED WITH CHUTES UP TO 25' MAXIMUM. SLUMP SHALL NOT EXCEED TRUCK DISCHARGE POINT.

CONCRETE PLACED BY PUMPING SHALL MEET THE FOLLOWING REQUIREMENTS:

FLOOR FINISH (TOLERANCES) G. SLUMP SHALL NOT EXCEED 6" AT TRUCK DISCHARGE POINT.

B. FLOAT FINISH 1/4" IN 10'

20.

SHOP DRAWINGS SHALL BE PREPARED FOR ALL REINFORCING STEEL AND SUBMITTED FOR REVIEW BY ENGINEER. SUBMITTALS SHALL INCLUDE ELECTRONIC (PDF) COPIES OF EACH DRAWING. ENGINEERING DRAWINGS SHALL NOT BE REPRODUCED AND USED AS SHOP DRAWINGS.

ENGINEER TO BE NOTIFIED 48 HOURS PRIOR TO PLACEMENT OF FOUNDATION AND OF STRUCTURAL CONCRETE TO SCHEDULE REQUIRED OBSERVATIONS.

24. INCLUDE IN BID AN ALLOWANCE FOR 1.0 TONS OF REINFORCING BARS TO BE USED AS DIRECTED FIELD FOR SPECIAL CONDITIONS AT A COST OF \$2.000.00 PER TON (LABOR FOR PLACING SAME BE INCLUDED). ANY UNUSED ALLOWANCE WILL BE CREDITED TO THE OWNER AT THE END OF THE PROJECT.

AN INDEPENDENT TESTING LAB SHALL VERIFY PLACEMENT OF VERTICAL REINFORCING IN WALLS AND HORIZONTAL REINFORCING IN BOND BEAMS AND LINTELS PRIOR TO PLACEMENT OF GROUT. INDEPENDENT TESTING LAB SHALL PROVIDE CONTINUOUS VISUAL OBSERVATIONS OF GROUTING PROCEDURES, REBAR PLACEMENT, SITE MIXING OF MORTAR, INSTALLATION OF EMBEDED STEEL CONNECTORS, AND GENERAL PLACEMENT OF MASONRY UNITS AND MORTAR JOINTS. INSPECTION REPORTS ARE TO BE GENERATED DAILY BY THE TESTING LAB. INSPECTION SUMMARY REPORTS SHALL BE EMAILED TO THE STRUCTURAL ENGINEER IN ELECTRONIC (PDF) FORMAT. THE GENERAL CONTRACTOR, PROJECT SUPERINTENDENT, TESTING LABORATORY AND THE MASONRY FOREMAN SHALL MEET WITH THE STRUCTURAL ENGINEER PRIOR TO THE START OF MASONRY WORK TO REVIEW PROJECT REQUIREMENTS AND PROCEDURES.

HOT AND COLD WEATHER CONSTRUCTION PROCEDURES SHALL BE UTILIZED AS SPECIFICATIONS AND ACI 530.1. ALL CONCRETE MASONRY SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE LOCAL BUILDING CODES AND THE AMERICAN CONCRETE INSTITUTE (ACI 530-02/ ASCE 5-02/ TMS 402-02). DESIGN IS BASED ON MASONRY COMPRESSIVE STRENGTH (f'm) OF 1,900 PSI.

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3MS ARCHITECTS

REVISIONS

HOLLOW CONCRETE MASONRY UNITS SHALL BE DOMESTIC LIGHTWEIGHT MOISTURE CONTROLLED TYPE I UNITS, CONFORMING TO ASTM C-90-97.

MASONRY UNITS SHALL HAVE A MINIMUM AVERAGE COMPRESSIVE STRENGTH OF 1,900 PSI (NET AREA) WHEN TESTED IN ACCORDANCE WITH ASTM C-140, "METHODS OF SAMPLING AND TESTING CONCRETE MASONRY UNITS".

WORTAR PROPORTIONS FOR REINFORCED MASONRY SHALL BE ESTABLISHED PER ASTM C270 PROPORTION SPECIFICATIONS, TYPE S USING MASONRY CEMENT. FIELD TESTS OF MORTAR SHALL PERFORMED BY A QUALIFIED TESTING LABORATORY IN ACCORDANCE WITH ASTM C780 AT A LATE OF ONE TEST PER 2,000 SF OF WALL SURFACE TO DETERMINE BATCH—TO—BATCH NIFORMITY OF MORTAR. REFERENCE SPECIFICATIONS FOR NON REINFORCED MASONRY.

GROUT FOR ALL REINFORCED HOLLOW MASONRY UNIT WALLS SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 3,000 PSI WITH A MAXIMUM 3/8" AGGREGATE. A MID RANGE WATER REDUCING AGENT SUCH AS "POLYHEED" (MASTER BUILDERS) SHALL BE USED. SLUMP TO BE BETWEEN 8 AND 11 INCHES. ALL GROUT SHALL BE PUMPED. PLACING OF GROUT TO FOLLOW AMERICAN CONCRETE INSTITUTE (ACI) RECOMMENDATIONS REGARDING LOW & HIGH LIFT GROUTING. MAXIMUM LIFT OF GROUT SHALL NOT EXCEED 5'-0" UNLESS APPROVED BY THE ENGINEER PRIOR TO START OF GROUTING. GROUT TO BE TESTED BY A QUALIFIED TESTING LABORATORY AT A RATE OF ONE TEST PER 25 CY OF GROUT IN ACCORDANCE WITH ASTM C1019.

REINFORCING STEEL SHALL CONFORM TO ASTM A-615, GRADE 60. ALL BAR REINFORCING SHALL BE LAPPED 48 BAR DIAMETERS (MIN). BARS SHALL BE PLACED WITHIN 1/2" (CENTERLINE OF BAR TO FACE OF MASONRY) OF LOCATION SHOWN IN STRUCTURAL PLANS. BARS SHALL BE HELD IN POSITION DURING GROUTING WITH BAR POSITIONERS. POSITIONERS SHALL BE LOCATED AT THE BOTTOM AND TOP OF THE WALL AND AT 8 TO 10 FOOT INTERVALS. BARS SPLICED BY NON-CONTACT LAP SPLICES SHALL NOT BE SPACED TRANSVERSELY FARTHER APART THAN ONE-FIFTH THE REQUIRED LENGTH OF LAP NOR MORE THAN 8 INCHES.

VERTICAL BARS SHALL EXTEND TO THE TOP OF THE PARAPET WALL OR BOND BEAM WHEN A 16" DEEP BEAM IS SPECIFIED. HOOKED DOWELS SHALL BE PROVIDED AT ROOF BOND BEAMS (W/O PARAPETS) LESS THAN 16" DEEP. DOWELS SHALL BE 30" LONG WITH 12" HOOKS.

ALL EXTERIOR MASONRY WALLS SHALL BE REINFORCED WITH 9 GA. HOT DIPPED GALVANIZED HORIZONTAL WIRE REINFORCEMENT (LADDER TYPE) EMBEDDED IN MORTAR JOINTS AT 16" O.C. NOMINAL WIDTH OF JOINT REINFORCING SHALL EQUAL WALL THICKNESS. (INTERIOR WALLS MAY BE MILL GALVANIZED). WIRE REINFORCEMENT SHALL CONFORM TO ASTM DESIGNATION A-82, AND SHALL BE LAPPED AT LEAST 8" WITH AT LEAST ONE CROSS WIRE WITHIN THE LAP. JOINT REINFORCING SHALL BE INSTALLED IN THE FIRST AND SECOND MORTAR BED JOINTS IMMEDIATELY ABOVE AND BELOW ALL OPENINGS. WIRE REINFORCING SHALL BE DISCONTINUOUS AT CONTROL

ONE GROUTED #5 BAR SHALL BE PROVIDED AROUND THE PERIMETER OF ALL WALL OPENINGS AND AT BUILDING CORNERS UNLESS NOTED OTHERWISE ON THE STRUCTURAL PLANS. EXTERIOR WALLS INTERIOR AND EXTERIOR JOINTS IN MASONRY TO FORM A SLIGHTLY CONCAVE MORTAR IS THUMBPRINT HARD UNLESS SHOWN OTHERWISE. ALL MORTAR JOINTS LED THE ENTIRE HEIGHT OF WALL. SHALL BE BONDED WITH CONCRETE MASONRY UNITS AT BUILDING CORNERS.

CONTROL JOINTS SHALL BE CONSTRUCTED WITH SLOTTED MASONRY UNITS AND FACTORY MOLDED JOINT FILLER. JOINTS SHALL BE CAULKED WITH AN APPROVED MATERIAL. JOINTS SHALL BE PROVIDED AT MAXIMUM SPACING OF 22 FT. AND AT ALL LOCATIONS WHERE COLUMNS ARE PLACED IN CMU CELLS. (EXTERIOR AND INTERIOR WALLS). JOINT LOCATIONS, IF NOT SHOWN ON PLANS, SHALL BE COORDINATED WITH ARCHITECT.

CONTROL JOINTS $\underline{\mathbf{SHALL}}$ $\underline{\mathbf{NOT}}$ extend through bond beams unless indicated on the structural plans. CONTROL JOINTS IN CMU WALLS SHALL NOT BE LOCATED CLOSER OPENING WITHOUT REVIEW OF STRUCTURAL ENGINEER. THAN 2'-0" FROM AN EDGE

LINTELS OVER ALL OPENINGS IN INTERIOR MASONRY PARTITIONS, NOT OTHERWISE COVERED, ARE TO BE OF STANDARD CMU LINTEL BLOCK WITH THICKNESS EQUAL TO WALL THICKNESS. DEPTH SHALL BE 8" FOR OPENINGS UP TO 6'-0", REINFORCED WITH TWO #5's, LOCATED 2-1/2" ABOVE THE BOTTOM EXTERIOR FACE OF THE UNIT.

REEN, RUBIANO & ASSOCIATES

AV, CW, IG



SAMS MEMORIAL POOL RENOVATIONS

CITY OF BROWNSVILLE, TEXAS

GENERAL STRUCTURAL

EXTERIOR COMPONENTS & CLADDINGS CONTINUED:

INSPECTIONS CONTINUED:

ASSEMBLY SUBMITTALS

FASTENERS

- CAST-IN-PLACE AND POST-INSTALLED ANCHORS SHALL BE PER ANCHOR DIAMETER AND EMBEDMENT DEPTH NOTED ON THE DRAWINGS. POST-INSTALLED ANCHORS SHALL BE UTILIZED ONLY WHERE SPECIFIED. ALL ANCHORS SHALL BE HOT-DIPPED GALVANIZED PER ASTM A153
- ALL ANCHORS NOTED BELOW SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS. CONTRACTOR SHALL CONTACT MANUFACTURER'S REPRESENTATIVE FOR THE INITIAL TRAINING AND INSTALLATION OF ANCHORS, AND FOR PRODUCT RELATED QUESTIONS AND AVAILABILITY.
- SPECIAL INSPECTIONS SHALL BE PROVIDED FOR ALL MECHANICAL AND ADHESIVE ANCHORS PER THE APPLICABLE EVALUATION REPORT NOTED BELOW. SPECIAL INSPECTIONS SHALL BE PERFORMED BY INDEPENDENT TESTING LABORATORY PERFORMING QA/QC SERVICES ON PROJECT.
- EXPANSION BOLTS (EB) IN CONCRETE/CMU SHALL BE TESTED AND QUALIFIED FOR USE IN ACCORDANCE WITH ACI 355.2 AND ICC-ES AC193. ACCEPTABLE PRODUCTS: KWIK BOLT III (ICC-ES ESR-2302) BY HILTI (CONCRETE)
- B. KWIK BOLT III (ICC-ES-ESR-1385) BY HILTI (MASONRY)
- C. STRONG-BOLT 2 (ICC-ES ESR-3037) BY SIMPSON STRONG-TIE (CONCRETE) WEDGE-ALL ANCHOR (ICC-ES ESR-1396) BY SIMPSON STRONG-TIE (MASONRY)
- HEAVY DUTY SLEEVE ANCHORS IN CONCRETE/CMU SHALL BE TESTED AND QUALIFIED OR USE IN ACCORDANCE WITH ACI 355.2 AND ICC-ES AC193. EXPANSION BOLTS (EB) SHALL NOT BE SUBSTITUTED FOR SLEEVE ANCHORS WITHOUT PRIOR WRITTEN APPROVAL BY STRUCTURAL ENGINEER. ACCEPTABLE PRODUCTS:
- A. HSL-3 (ICC-ES ESR-1545) BY HILTI (CONCRETE)
- SCREW ANCHORS IN CONCRETE SHALL BE TESTED AND QUALIFIED FOR USE IN ACCORDANCE ACI 355.2 AND ICC-ES AC193. ACCEPTABLE PRODUCTS:
- A. KWIK HUS-EZ (ICC-ES ESR-3027) BY HILTI (CONCRETE)
- B. KWIK HUS-EZ (ICC-ES ESR-3056) BY HILTI (MASONRY)
- C. TITEN HD (ICC-ES ESR-2713) BY SIMPSON STRONG-TIE (CONCRETE)
- D. TAPCON ANCHORS (ICC-ES ESR-1671) (MASONRY)
- E. POWERS WEDGE BOLT (ICC-ES ESR-1678) (MASONRY)
- UNDERCUT ANCHORS IN CONCRETE SHALL BE TESTED AND QUALIFIED FOR USE IN ACCORDANCE WITH ACI 355.2 AND ICC-ES AC193. ACCEPTABLE PRODUCTS:
- A. HDA (ICC-ES ESR-1546) BY HILTI (CONCRETE) TORQ-CUT (ICC-ES ESR-2705) BY SIMPSON STRONG-TIE (CONCRETE)
- B. POWDER ACTUATED FASTENERS (ICC-ES ESR-2138) BY SIMPSON STRONG TIE (CONCRETE/MASONRY) A. X-U (ICC-ES ESR-2269) BY HILTI (CONCRETE/MASONRY/STEEL)

POWDER ACTUATED FASTENERS IN CONCRETE/CMU SHALL BE TESTED AND QUALIFIED FOR USE IN ACCORDANCE WITH ACI 355.2 AND ICC-ES AC193. ACCEPTABLE PRODUCTS:

- ADHESIVE ANCHORS IN CONCRETE/CMU SHALL BE TESTED AND QUALIFIED FOR USE IN ACCORDANCE WITH ACI 355.4 AND ICC-ES AC308. ACCEPTABLE PRODUCTS:
- A. HIT-RE 500-V3 (ICC-ES ESR-3814) BY HILTI (CONCRETE)
- B. HIT-HY 270 (ICC-ES ESR-4143) BY HILTI (MASONRY) SET-XP (ICC-ES ESR-2508) BY SIMPSON STRONG-TIE (CONCRETE)
- D. SET (ICC-ES ESR-1772) BY SIMPSON STRONG-TIE (MASONRY)
- J-BOLTS SHALL BE FABRICATED FROM ASTM A36/A307 ROD. BOLTS, NUTS AND WASHERS SHALL BE GALVANIZED. EXPANSION BOLTS/SLEEVE ANCHORS SHALL NOT BE SUBSTITUTED FOR J-BOLTS WITHOUT PRIOR WRITTEN APPROVAL BY STRUCTURAL ENGINEER.
- HEADED ANCHOR RODS SHALL BE FABRICATED FROM ASTM F1554 MATERIAL, FY=36 KSI
- SUBSTITUTION REQUESTS FOR PRODUCTS LISTED ABOVE SHALL BE SUBMITTED BY THE CONTRACTOR TO THE STRUCTURAL ENGINEER ALONG WITH CALCULATIONS THAT ARE PREPARED & SEALED BY A REGISTERED PROFESSIONAL ENGINEER. THE CALCULATIONS SHALL DEMONSTRATE THAT THE SUBSTITUTED PRODUCT IS CAPABLE OF ACHIEVING THE PERTINENT EQUIVALENT PERFORMANCE VALUES OF THE SPECIFIED PRODUCT USING THE APPROPRIATE DESIGN PROCEDURE AND/OR STANDARDS.
 SUBSTITUTED ANCHORS SHALL HAVE A VALID CURRENT EVALUATION (ICC—ES OR IAPMO—ES) REPORT.
- ROUGH CARPENTRY NOTES ROUGH CARPENTRY SHALL COMPLY WITH THE PROVISIONS OF THE 2012 EDITION OF THE INTERNATIONAL BUILDING CODE AND THE NATIONAL DESIGN STANDARD, SPECIAL DESIGN PROVISIONS FOR WIND AND SEISMIC (SDPWS).
- ALL LUMBER USED FOR LOAD SUPPORTING PURPOSES SHALL BE IDENTIFIED BY THE GRADE MARK OF AN APPROVED LUMBER GRADING OR INSPECTION BUREAU OR AGENCY.
- ALL LUMBER AND PLYWOOD REQUIRED TO BE PRESERVATIVELY TREATED SHALL BEAR AN APPROVED AWPB QUALITY MARK.
- FRAMING LUMBER MOISTURE CONTENT SHALL NOT EXCEED 19 PERCENT AT TIME OF INSTALLATION.
- MATERIALS

TOP PLATES RAFTERS * MEMBERS IN CONTACT WITH MASONRY SOUTHERN PINE SOUTHERN PINE OR CONCRETE

- PLYWOOD USE-ITEM
 ROOF SHEATHING EXPOSURE SHALL BE PRESSURE TREATED. APA SPAN RATING 32/16

ROUGH CARPENTRY NOTES CONTINUED:

FASTENERS COMMON NAIL SHANK DIAMETER

2. NAILS EXPOSED TO MOISTURE SHALL BE GALVANIZED STEEL OR APPROVED NON-FERROUS METAL.

VERTICAL FRAMING MEMBERS SHALL BE OF HORIZONTAL MEMBERS SHALL OCCUR ON PLATES TO PROVIDE FULL BEARING FOR

STRUCTURAL MEMBERS WHOSE STRENGTH IS IMPAIRED BY IMPROPER CUTTING, DRILLING, OR EXCESSIVE DEFECTS SHALL BE REPLACED OR REINFORCED IN A MANNER ACCEPTABLE TO THE ENGINEER.

RAFTERS SHALL NOT BE NOTCHED AT THE END SUPPORTS OR THE MIDDLE 1/3 OF THE RAFTER SPAN.

RAFTERS ARE PERMITTED TO BE NOTCHED IN THE TOP OR BOTTOM OF THE RAFTERS AT THE OUTER 1/3 OF THE SPAN. NOTCHES SHALL NOT EXCEED IN DEPTH 1/6 THE ACTUAL RAFTER DEPTH AND SHALL NOT EXCEED IN LENGTH 1/3 THE ACTUAL FASTER DEPTH.

:

TOP PLATES FOR BEARING WALLS AND PAINDICATED ON PLAN). MEMBERS SHALL BE PLATES FOR NON-BEARING PARTITION MAY FRAMING, INSTALL CROSS BLOCKING NOT N ARTITIONS SHALL CONSIST OF 2 – 2x6 OR 2x8's (AS E LAPPED AT CORNERS AND INTERSECTING PARTITION. TOP AY BE SINGLE. WHEN TOP PLATE IS PARALLEL TO CEILING MORE THAN FOUR (4') FEET O.C.

SHEATHING SHALL BE INSTALLED CONTINI PERPENDICULAR TO SUPPORTS AND JOIN PANEL EDGES AND END JOINTS UNLESS JUOUS OVER TWO OR MORE SPANS WITH FACE GRAIN ATS STAGGERED. A 1/8" SPACE SHALL BE PROVIDED AT RECOMMENDED OTHERWISE BY THE MANUFACTURER.

15. ALL METAL ANCHORS, HOLD DOWNS AND OR APPROVED EQUIVALENT. ETC., SHALL BE MANUFACTURED BY "SIMPSON STRONG TIE"

ALL EXTERIOR COMPONENT AND CLADDING SYST DOORS, ARCHITECTURAL SIDINGS, METAL WALL / MEET MINIMUM WIND CODE REQUIREMENTS. CONTASSEMBLY WIND PRESSURE AND IMPACT RESIST PROCEDURES TO STRUCTURAL ENGINEER FOR RISUPPORT COMPONENTS, AND ANCHORING OF THE SUPPORT COMPONENTS, AND ANCHORING OF THE DESIGN TO BE PERFORMED BY THE EQUIPMENT'S CALCULATED PER ASCE 7-10 SECTION 29.5.1 A GREATER WIND LOADS BY USING THE WIND DESIGN CRITERIA.

- TESTED ASSEMBLIES
 A. THE CONTRACTOR SHALL INSTALL PROJECT SPECIFIC ASSEMBLIES THAT HAVE BEEN TESTED AND
 MEET THE APPLICABLE PERFORMANCE REQUIREMENTS LISTED BELOW. PROJECT ASSEMBLIES SHALL
 BE INSTALLED IN SAME MANNER AS TESTED ASSEMBLIES INCLUDING SYSTEM COMPONENTS,
 REINFORCEMENT, GLAZING, HARDWARE, ANCHORS AND FASTENING LOCATIONS, SEALANTS & ALL
 ACCESSORIES, AS APPLICABLE.
- 2. ASSEMBLY PERFORMANCE REQUIREMENTS
- A. STRUCTURAL PERFORMANCE: TESTED AS REQUIREMENTS WHEN TESTED IN ACCORDING THE PERFORMANCE ON THE STRUCTURAL DRAWIN AND LENGTH THAN ASSEMBLY INDICATED ASSEMBLY INCLUDING ALL COMPONENTS ASSEMBLY THAT PASSES STRUCTURAL PERFORMANCE
 DRDANCE WITH THE APPLICABLE PERFORMANCE STANDARD(S)
 POSITIVE AND NEGATIVE DESIGN WIND-LOAD PRESSURES
 WINGS. TESTED ASSEMBLY SHALL BE NO SMALLER IN WIDTH
 TED FOR USE ON THE PROJECT AND SHALL MATCH PROJECT
 TS AND SUBSTRATE(S).
- ASSEMBLY PERFORMANCE STANDARDS
- ASTM E 1592 STANDARD TEST METHOD FOR STRUCTURAL PERFORMANCE OF SHEET METAL ROOF AND SIDING SYSTEMS BY UNIFORM STATIC AIR PRESSURE DIFFERENCE

- ASTM E 1996 STANDARD SPECIFICATION FOR PERFORMANCE OF EXTERIOR WINDOWS, CURTAIN WALLS, DOORS AND IMPACT PROTECTIVE SYSTEMS IMPACTED BY WINDBORNE DEBRIS IN HURRICANES
- FM 4450 APPROVAL STANDARD FOR CLASS 1 INSULATED STEEL DECK ROOFS
- FM 4470 APPROVAL STANDARD FOR ROOF (BUR) AND LIQUID APPLIED ROOF ROOF DECK CONSTRUCTION
- FM 4474 AMERICAN NATIONAL STAN RESISTANCE OF ROOF ASSEMBLIES USI PRESSURES NDARD FOR EVALUATING THE SIMULATED WIND UPLIFT
- H. UL 580 STANDARD FOR TESTS FOR

THE NUMBER AND SIZE OF NAII AS SHOWN ON PLAN BUT NOT S CONNECTING WOOD MEMBERS SHALL BE LESS THAN SPECIFIED IN THE IBC 2012 TABLE 2304.9.1.

CONTINUOUS LENGTH WITHOUT SPLICING. SPLICES IN ILY OVER BEARING POINTS. LAP MEMBERS WHICH BEAR ON EACH MEMBER.

RAFTERS ARE PERMITTED TO BE BORED TO A DIAMETER NOT GREATER THAN 1/3 THE ACTUAL RAFTER DEPTH AND NOT BE CLOSER THAN 2 INCHES FROM THE TOP OR BOTTOM EDGE OF THE RAFTER.

CONTRACTOR SHALL ENSURE NAILS ARE PROPERLY DRIVEN. NAILS SHALL BE DRIVEN FLUSH WITH THE EXTERIOR SURFACE OF PLYWOOD. OVERDRIVEN NAILS SHALL BE REPLACED OR NAILS SHALL BE PLACED BETWEEN THE OVERDRIVEN NAILS.

14. SHEATHING SHALL BE ATTACHED TO STRUCTURE AS SPECIFIED ON SHEATHING NAILING SCHEDULES.

16. ENGINEER SHALL BE CONTACTED FOR FRAMING INSPECTIONS PRIOR TO INSTALLING OF CEILINGS, WALL SHEATHING, WALL FINISHES, AND/OR ROOF COVERINGS (INCLUDING BUILDING PAPER).

EXTERIOR COMPONENTS & CLADDINGS

WALL AND ROOF PANELS, ROOFING SYSTEMS, SKYLIGHTS) MUST S. CONTRACTOR MUST SUBMIT COMPONENT AND CLADDING RESISTANCE TESTING RATINGS AND REQUIRED ATTACHMENT FOR REVIEW. ROOF TOP MECHANICAL EQUIPMENT AND THEIR OF THESE ITEMS TO THE STRUCTURE, SHALL BE DELEGATED PMENT'S MANUFACTURER, TO MEET THE WIND PRESSURES 29.5.1 AND ASCE 7-05 SECTION 6.5.15.1, WHICHEVER PRODUCES ND DESIGN PARAMETERS LISTED ON THE GENERAL STRUCTURAL

WINDBORNE-DEBRIS-IMPACT RESISTANCE: TESTED ASSEMBLY THAT PASSES LARGE-MISSILE IMPACT PROTECTION TESTING REQUIREMENTS ACCORDING TO ASTM E 1996 WHEN TESTED ACCORDING TO ASTM E 1886. TESTED ASSEMBLY SHALL BE NO SMALLER IN WIDTH AND LENGTH THAN ASSEMBLY INDICATED FOR USE ON THE PROJECT AND SHALL MATCH PROJECT ASSEMBLY INCLUDING ALL COMPONENTS AND SUBSTRATE(S).

ASTM E 330 - STANDARD TEST METH DOORS, SKYLIGHTS AND CURTAIN WALL HOD FOR STRUCTURAL PERFORMANCE OF EXTERIOR WINDOWS,

AS APPLICABLE, THE INSPECTION PROGRAM SHALL VERIFY THE ANCHOR TYPE, EMBEDMENT, TIGHTENING TORQUE, DIMENSIONS, HOLE DEPTH & DIAMETER AND CLEANOUT, EPOXY MIXING AND PLACEMENT PROCEDURES IN ACCORDANCE WITH THE CONTRACT DOCUMENTS AND THE CURRENT ICC-ES EVALUATION REPORT

FREQUENCY OF
INSPECTION SHALL BE IN
ACCORDANCE WITH THE
CURRENT ICC-ES
EVALUATION REPORT, OR
PER THE SPECIAL
INSPECTION
REQUIREMENTS OF THE
ANCHOR SUBSTRATE,
WHICHEVER IS MORE
STRINGENT

REQUIRED VERIFICATION AND INSPECTION
VERIFICATION AND INSPECTION

SINGLE-PLY, POLYMER-MODIFIED BITUMEN SHEET, BUILT-UP ASSEMBLIES FOR USE IN CLASS 1 AND NONCOMBUSTIBLE

J. UL 1897 — STANDARD FOR UPLIFT TESTS

B. SHOP DRAWINGS SHALL INCLUDE THE FOLLOWING ITEMS: SUBMITTALS SHALL CONSIST OF PROJECT SPECIFIC SHOP DRAWINGS AND ASSEMBLY TEST REPOR AS DESCRIBED BELOW. SUBMITTALS SHALL BE COMPLETE, CLEAR AND LEGIBLE; INCOMPLETE SUBMITTALS WILL BE REJECTED.

1) SYSTEM DESCRIPTION INCLUDING MANUFACTURER'S NAME AND SPECIFIC PRODUCT NUMBER, NAME OR DESIGNATION. 2) MANUFACTURER'S PRODUCT DATA/TECHNICAL INFORMATION AND DETAILS.

ERIFY USE OF REQUIRED DESIGN MIX

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1150 paredes line rd. brownsville texas 78526 (956) 546-0110 fax (956) 546-0196

GMS ARCHITECTS

PECT BOLTS TO BE INSTALLED IN CONCRETE PRIOF AND DURING PLACEMENT OF CONCRETE

ISPECTION OF REINFORCING STEEL, INCLUDING

REQUIRED VERIFICATION AND INSPECTION
VERIFICATION AND INSPECTION

CONTINUOUS

PERIODIC

REVISIONS

ERFORM SLUMP AND AIR CONTENT TEST, AND ETERMINE THE TEMPERATURE OF THE CONCRETE AT HE TIME OF SAMPLING FRESH CONCRETE FOR MAKING PECIMENS FOR STRENGTH TESTS PER ACI 318

3) SYSTEM LAYOUT PLANS, ELEVATIONS, CROSS-SECTIONS AND DETAILS AS PROJECT.

DESCRIPTION OF SYSTEM'S ASSEMBLY COMPONENTS (E.G. ROOF LAYERS, FRAME MEMBERS, REINFORCEMENT, DOOR TYPE, GLAZING, HARDWARE, ANCHORS AND FASTENING LOCATIONS, SEALANTS, ACCESSORIES). ALL COMPONENTS SHALL MATCH THOSE SPECIFIED ON ASSEMBLY TEST REPORTS.

SHOP DRAWINGS SHALL INDICATE THE SYSTEM ATTACHMENT METHOD INCLUDING ANCHOR TYPE AND FASTENER LOCATIONS FOR EACH DIFFERENT TYPE OF SUBSTRATE. SYSTEM ATTACHMENT SHALL BE PER ASSEMBLY TEST REPORTS.

SPECTION FOR MAINTENANCE OF MPERATURE AND TECHNIQUES

SPECIFIED CURING

ECTION OF CONCRETE AND SHOTCRETE PROPER APPLICATION TECHNIQUES

PECTION OF PRESTRESSED CONCRETE APPLICATION PRESTRESSING FORCES

RIFICATION OF IN-SITU CONCRETE STRENGTH, PRIOR STRESSING OF TENDONS IN POST-TENSIONED NCRETE AND PRIOR TO REMOVAL OF SHORES AND RING FROM BEAMS AND STRUCTURAL SLABS

ECT FORMWORK FOR SHAPE, LOCATION AND NISIONS OF THE CONCRETE MEMBER BEING FORMED

SPECIAL INSPECTION OF MASONRY CONSTRUCTION (OCCUPANCY CATEGORY I, II, III)

5)

4

ASSEMBLY TEST REPORTS OFTEN PROVIDE OPTIONS FOR MATERIALS AND FASTENING METHODS. SHOP DRAWINGS SHALL BE SPECIFIC TO THE MATERIAL OR METHOD THAT THE CONTRACTOR IS PROPOSING TO INSTALL ON THE PROJECT.

ASSEMBLY TEST REPORTS SHALL INCLUDE THE FOLLOWING ITEMS: CROSS—REFERENCING BETWEEN THE SHOP DRAWINGS AND THE ASSEMBLY TEST REPORTS IS ENCOURAGED, BUT THE SHOP DRAWINGS SHALL BE DETAILED ENOUGH TO STAND INDEPENDENT OF THE TEST REPORTS.

Z

1) PERFORMANCE RATINGS BASED ON EVALUATION OF COMPREHENSIVE TESTING IN WITH THE APPLICABLE PERFORMANCE STANDARD(S) LISTED ABOVE.

2) TESTING AND DEVELOPMENT OF REPORTS SHALL BE PERFORMED BY A QUALIFIED THIRD-PARTY TESTING AGENCY.

TEST REPORTS SHALL BE RECENT TO INCLUDE THE MOST CURRENT SYSTEM MANUFACTURER COMPONENTS AND AVAILABLE FASTENERS AND ACCESSORIES. EXPIRED TEST REPORTS SHAL REJECTED. TEST REPORTS SHALL BE SEALED BY THE QUALIFIED PROFESSIONAL ENGINEER RESPONSIBLE THEIR PREPARATION.

5) TEST REPORTS SHALL BE SUBMITTED FOR EACH DIFFERENT TYPE OF ASSEMBLY ON THE PROJECT INCLUDING VARIATIONS OF SYSTEM COMPONENTS AND SUBSTRATES.

SPECIAL INSPECTIONS

SPECIAL INSPECTIONS INDEPENDENT OF THE CONTRACTOR, THE ARCHITECT, OR THE ENGINEER, SHALL BE PROVIDED BY A SPECIAL INSPECTOR EMPLOYED BY THE OWNER ACCORDING TO CHAPTER 17 OF THE IBC 2012. THE SPECIAL INSPECTOR SHALL OBSERVE THE WORK FOR CONFORMANCE WITH THE CONTRACT DOCUMENTS. THE SPECIAL INSPECTOR SHALL SEND WRITTEN REPORTS TO THE OWNER, THE ARCHITECT, THE ENGINEER AND THE CONTRACTOR. THE REPORTS SHALL INDICATE IF WORK INSPECTED WAS DONE IN CONFORMANCE WITH THE CONTRACT DOCUMENTS. ALL DISCREPANCIES SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE CONTRACTOR FOR CORRECTION. IF THE DISCREPANCIES ARE NOT CORRECTED, THE SPECIAL INSPECTOR SHALL BRING THE DISCREPANCIES TO THE ATTENTION OF THAT PHASE OF THE WORK. THE SPECIAL INSPECTOR SHALL SUBMIT A FINAL SIGNED REPORT STATING THAT THE SPECIAL INSPECTION WORK WAS, TO THE BEST OF THEIR KNOWLEDGE, IN OR NOT IN CONFORMANCE WITH THE DRAWINGS, SPECIFICATIONS AND APPLICABLE WORKMANSHIP PROVISIONS OF THE IBC 2012.

REQUIRED VERIFICATION AND INSPECTION OF SOLLS	OIL OIL SOLITO	
VERIFICATION AND INSPECTION TASK	CONTINUOUS DURING TASK LISTED	PERIODICALLY DURING TASK LISTED
-Y EXCAVATIONS ARE EXTENDED TO PROPER DEPTH HAVE REACHED PROPER MATERIAL		×
ORM CLASSIFICATION AND TESTING OF SELECT MATERIALS		×
TY USE OF PROPER MATERIALS, DENSITIES AND LIFT KNESSES DURING PLACEMENT AND COMPACTION OF CT FILL	×	
R TO PLACEMENT OF SELECT FILL, OBSERVE		×

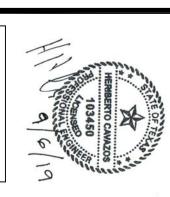
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VERIFICATION AND INSPECTION TASK	CONTINUOUS DURING TASK LISTED	PERIODICALLY DURING TASK LISTED
Y EXCAVATIONS ARE EXTENDED TO PROPER DEPTH HAVE REACHED PROPER MATERIAL		×
DRM CLASSIFICATION AND TESTING OF SELECT		×
Y USE OF PROPER MATERIALS, DENSITIES AND LIFT NESSES DURING PLACEMENT AND COMPACTION OF T FILL	×	
TO PLACEMENT OF SELECT FILL, OBSERVE RADE AND VERIFY THAT SITE HAS BEEN PREPARED		×

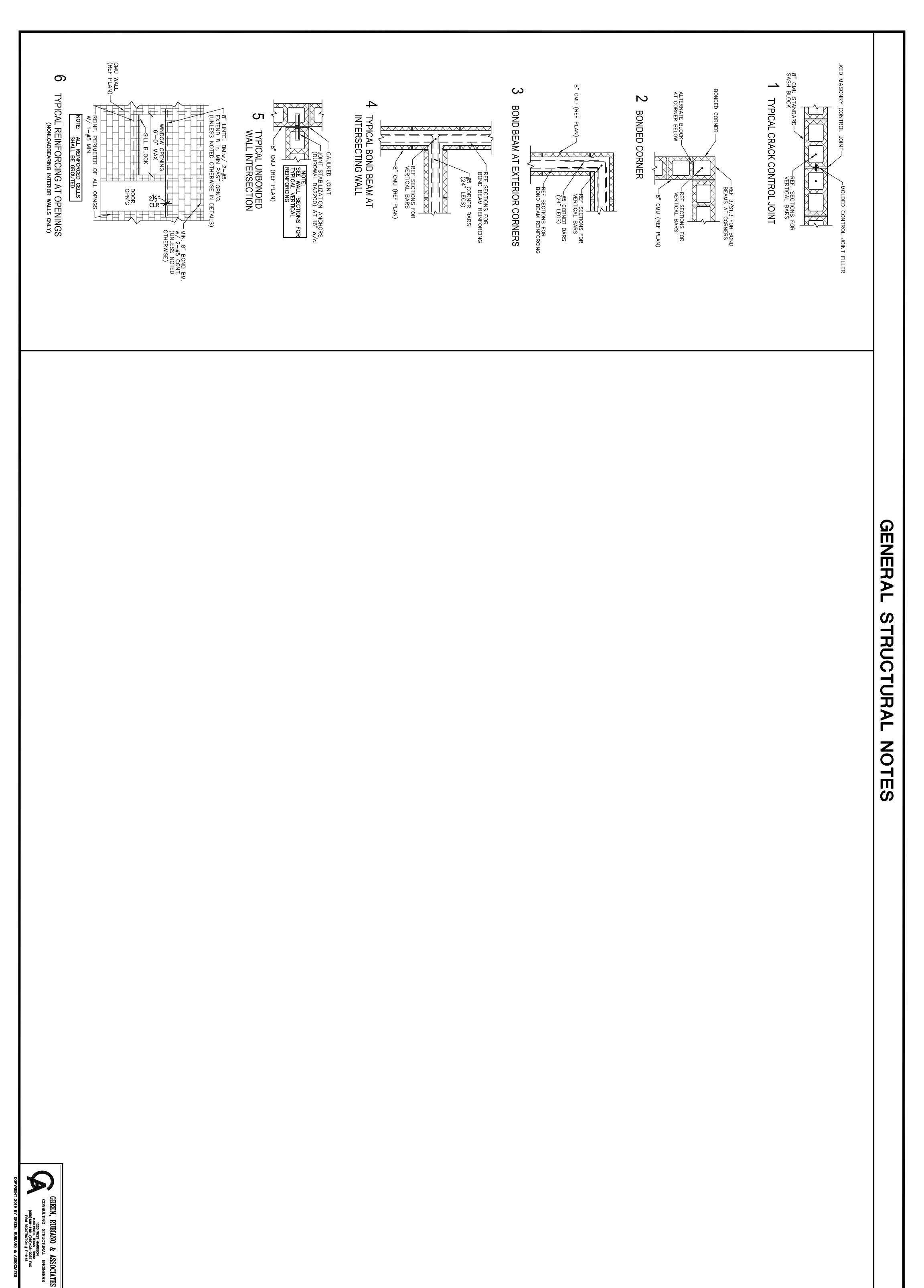
E FOR	LL BE															
INSPECTION TASK	AS MASONRY CONSTRUCTION BEGINS, THE FOLLOWING SHALL BE VERIFIED TO ENSURE COMPLIANCE:	PROPORTIONS OF SITE-PREPARED MORTAR	PLACEMENT OF MASONRY UNITS AND CONSTRUCTION OF MORTAR JOINTS	LOCATION OF REINFORCEMENT, CONNECTORS AND ANCHORAGES	THE INSPECTION PROGRAM SHALL VERIFY:	SIZE AND LOCATION OF STRUCTURAL ELEMENTS	TYPE, SIZE AND LOCATION OF ANCHORS, INCLUDING OTHER DETAILS OF ANCHORAGE OF MASONRY TO STRUCTURAL MEMBERS, FRAMES OR OTHER CONSTRUCTION	SPECIFIED SIZE, GRADE AND TYPE OF REINFORCEMENT	PROTECTION OF MASONRY DURING COLD WEATHER (TEMPERATURE BELOW 40°F) OR HOT WEATHER (TEMPERATURE ABOVE 90°F)	PRIOR TO GROUTING, THE FOLLOWING SHALL BE VERIFIED TO ENSURE COMPLIANCE:	GROUT SPACE IS CLEAN	PLACEMENT OF REINFORCEMENT, CONNECTORS AND ANCHORAGES	CONSTRUCTION OF MORTAR JOINTS	GROUT PLACEMENT SHALL BE VERIFIED TO ENSURE COMPLIANCE WITH CODE AND CONSTRUCTION DOCUMENT PROVISIONS	PREPARATION OF ANY REQUIRED GROUT SPECIMENS, MORTAR SPECIMENS AND/OR PRISMS SHALL BE OBSERVED	COMPLIANCE WITH REQUIRED INSPECTION PROVISIONS OF THE CONSTRUCTION DOCUMENTS AND THE APPROVED
DURING TASK LISTED														×	×	
DURING TASK LISTED		×	×	×		×	×	×	×		×	×	×			×

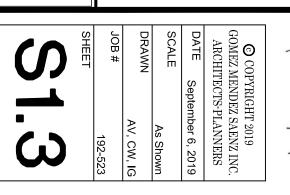
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×		TRUSS LAYOUT / PLACEMENT
×		ROOF AND FLOOR TRUSS INSTALLATION
×		BUILT-UP WOOD STUD PACKS & HEADERS
×		HURRICANE STRAPS & TIES
	×	HOLD DOWN ANCHORS (2nd FLR & FOUNDATION)
×		FLOOR SHEATHING NAIL FASTENING
×		WALL SHEATHING NAIL FASTENING
×		ROOF SHEATHING NAIL FASTENING
×		LUMBER SPECIES & GRADE
PERIODICALLY DURING TASK LISTED	CONTINUOUS DURING TASK LISTED	VERIFICATION AND INSPECTION TASK
CTION	WOOD CONSTRUC	REQUIRED VERIFICATION AND INSPECTION OF WOOD CONSTRUC



AV, CW, IG



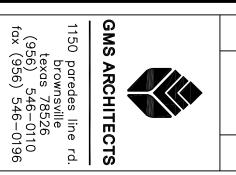


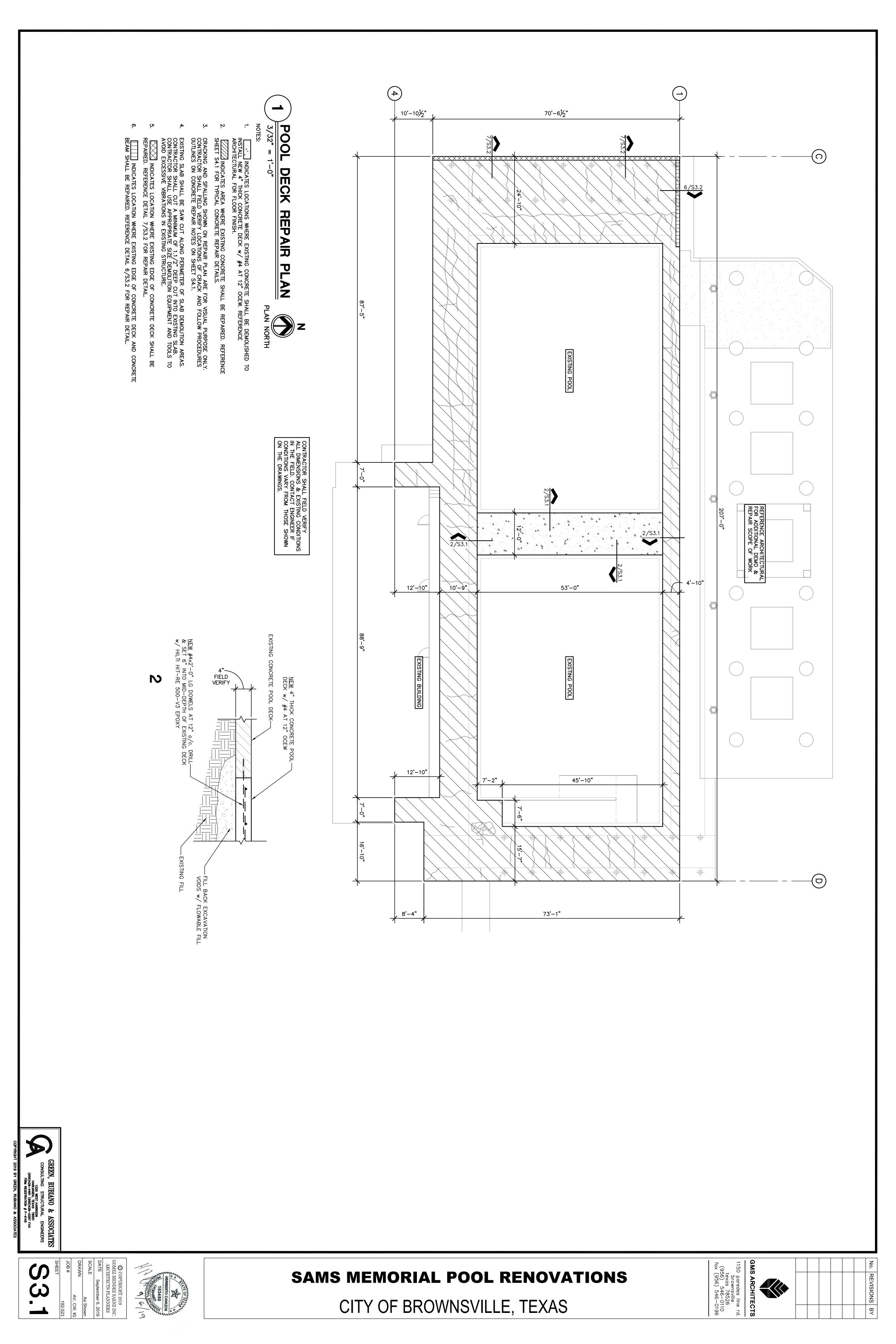


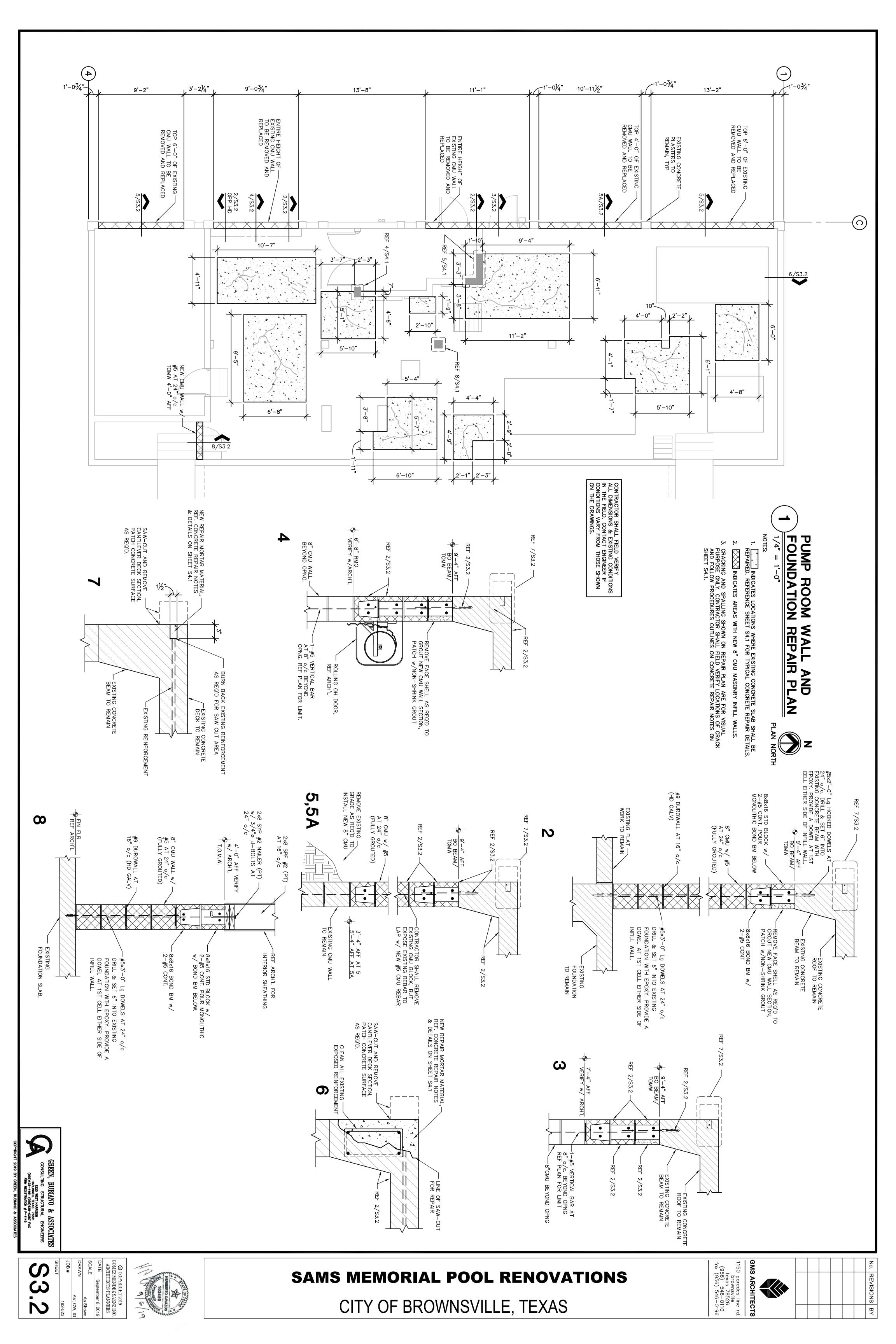


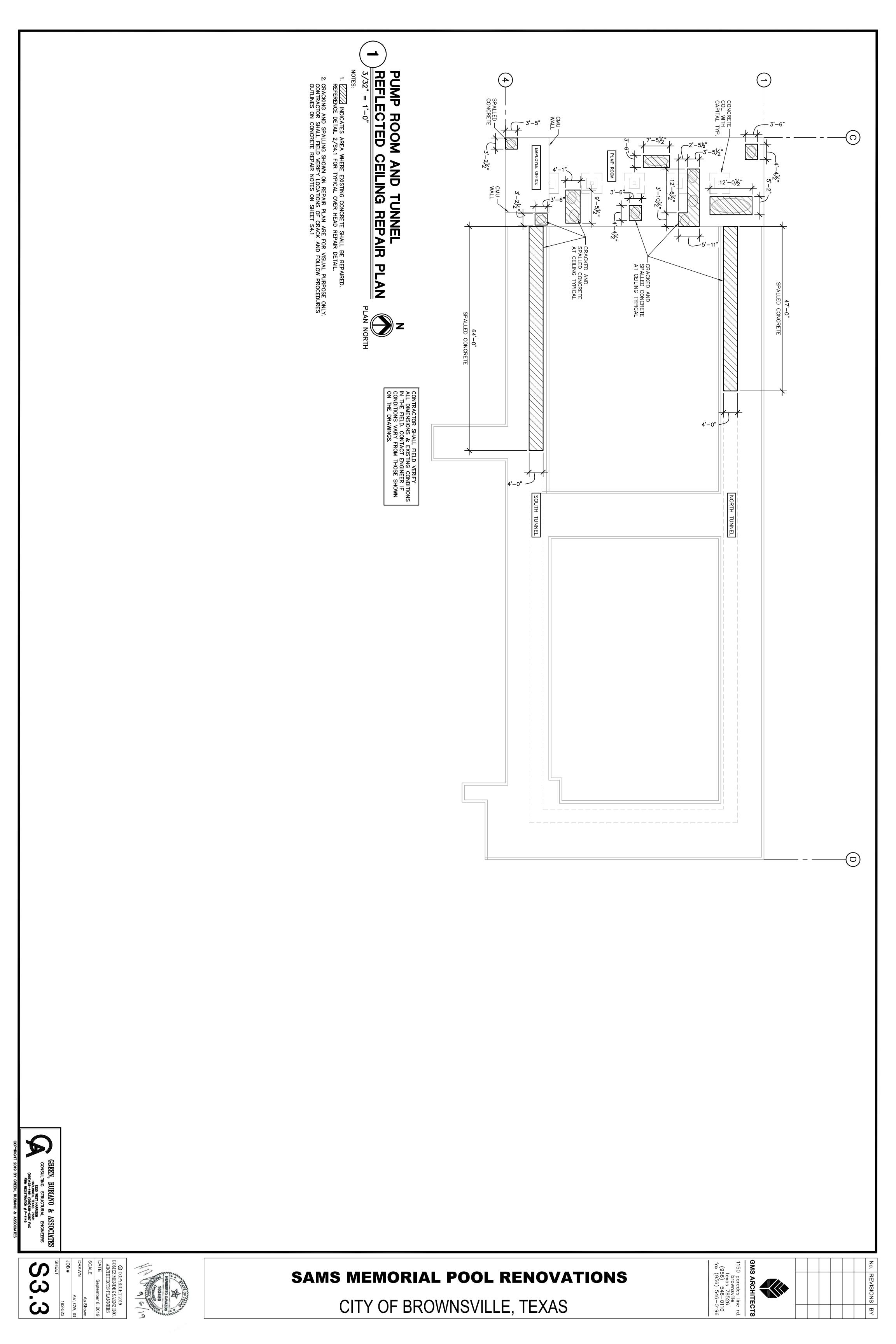


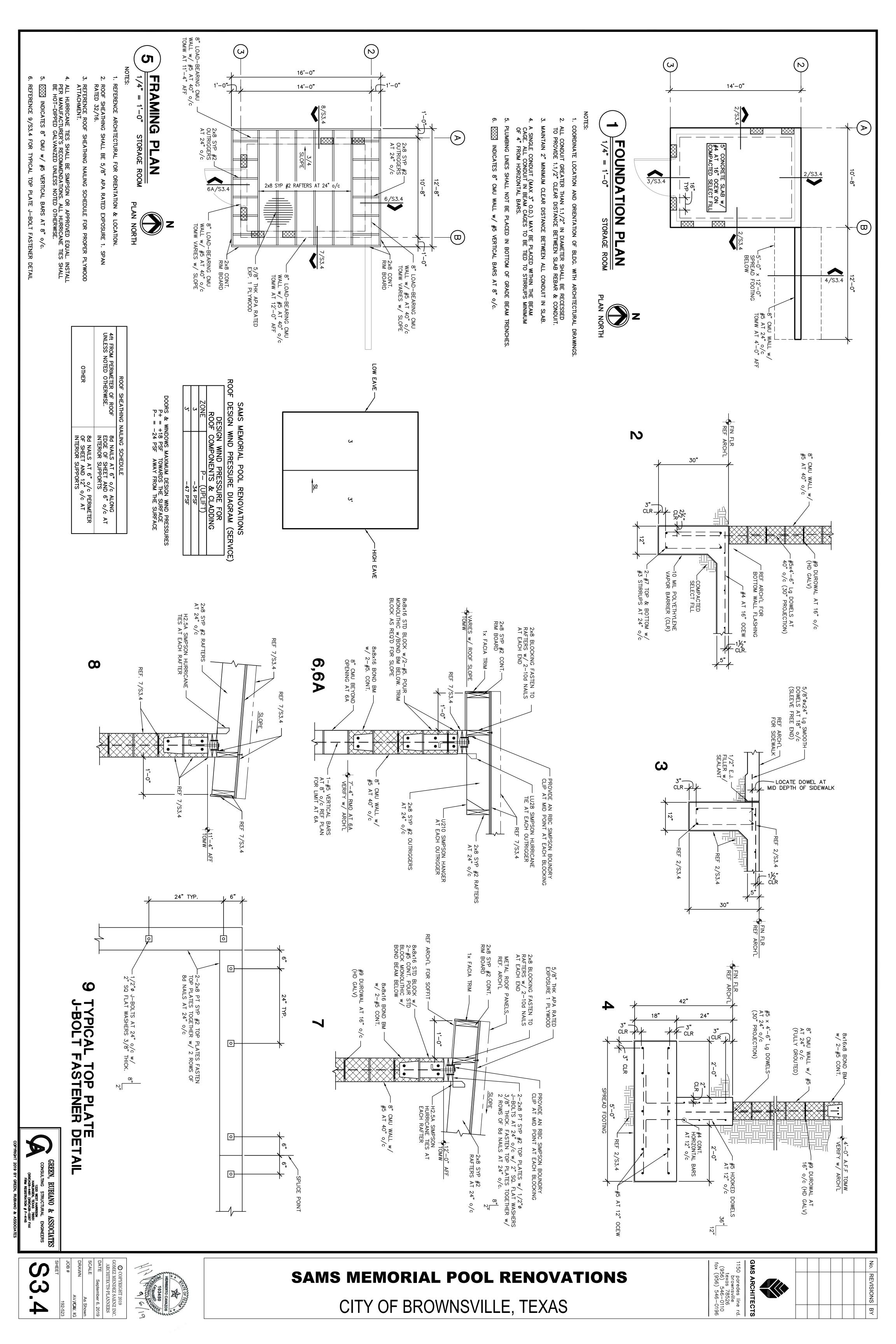


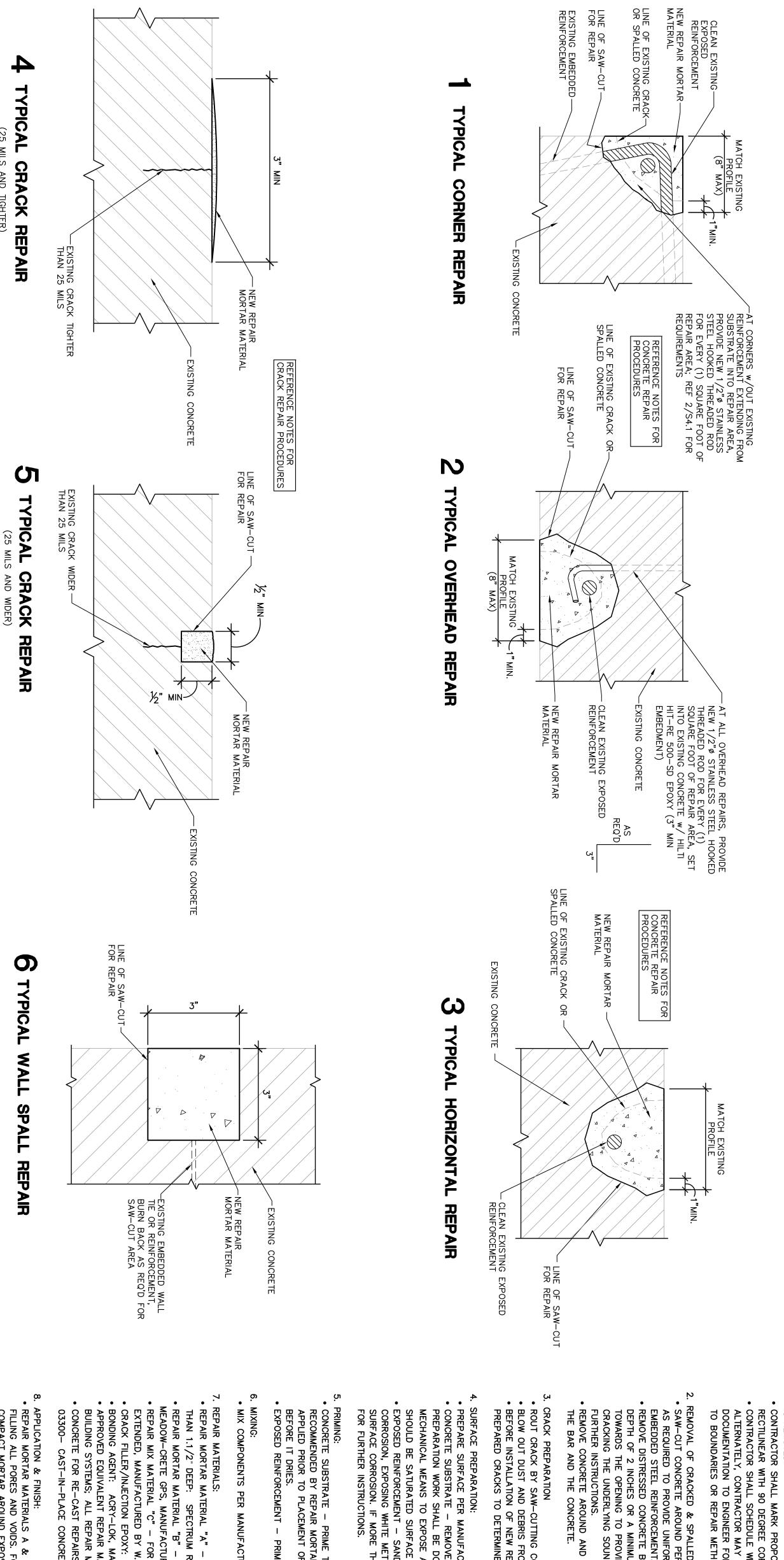












CONCRETE REPAIR NOTES

 IDENTIFICATION
 CONTRACTOR S
 IS REMOVED. OF REPAIR AREAS:

CONCRETE AREAS BY MECHANICAL SOUNDING TO ENSURE ΑL DISTRESSED

REVISIONS

ВΥ

CONTRACTOR SHALL MARK PROPOSED REPAIR AREA ON SURFACE(S) TO RECEIVE REPAIR. PROPOSED AREA SHALL BE RECTILINEAR WITH 90 DEGREE CORNERS.

CONTRACTOR SHALL SCHEDULE WEEKLY SITE VISITS WITH ENGINEER TO REVIEW PROPOSED REPAIR AREAS.

ALTERNATELY, CONTRACTOR MAY PHOTO DOCUMENT SIZE AND LOCATION OF PROPOSED REPAIR AREAS AND PROVIDE DOCUMENTATION TO ENGINEER FOR REVIEW. ENGINEER WILL EXAMINE PROPOSED AREAS FOR POSSIBLE MODIFICATIONS TO BOUNDARIES OR REPAIR METHODS, AND APPROVAL. SHALL BE

CRACKED & SPALLED CONCRETE: NCRETE AROUND PERIMETER OF

SAW-CUT CONCRETE AROUND PERIMETER OF REPAIR AREA; UNDERCUT TO PROVIDE KEYED SHAPE. GRIND CONCRETE AS REQUIRED TO PROVIDE UNIFORM, STRAIGHT EDGE. CONTRACTOR SHALL EXERCISE CAUTION TO NOT SAW-CUT EMBEDDED STEEL REINFORCEMENT.

REMOVE DISTRESSED CONCRETE BY MECHANICAL CHIPPING TO SOUND CONCRETE. REMOVE CONCRETE TO A MINIMUM DEPTH OF 2 INCHES OR A MINIMUM DEPTH OF 1 INCH BEYOND EXPOSED REINFORCEMENT. SLOPE THE REMOVAL ARE TOWARDS THE OPENING TO PROVIDE A KEY INTO THE SOUND CONCRETE. CONTRACTOR SHALL EXERCISE CARE TO AN CRACKING THE UNDERLYING SOUND CONCRETE. IF FULL-SECTION REMOVAL IS REQUIRED, CONTACT ENGINEER FOR FURTHER INSTRUCTIONS.

REMOVE CONCRETE AROUND AND UNDER EXPOSED REINFORCEMENT TO PROVIDE A MINIMUM 1" CLEARANCE BETWEEN THE BAR AND THE CONCRETE.

1150 paredes line rd. brownsville texas 78526 (956) 546-0110 fax (956) 546-0196

GMS ARCHITECTS

3. CRACK PREPARATION
• ROUT CRACK BY SAW—CUTTING CONCRETE AT CRACK LOCATION TO A WIDTH AND DEPTH OF 1/2 INCIDENCES.
• BLOW OUT DUST AND DEBRIS FROM ROUTED CRACK BY USING COMPRESSED AIR OR VACUUM.
• BEFORE INSTALLATION OF NEW REPAIR FILLER MATERIAL, CONTRACTOR SHALL CONTACT ENGINEER FOR EXAMINATION PREPARED CRACKS TO DETERMINE IF EPOXY INJECTION REPAIR IS REQUIRED.

 4. SURFACE PREPARATION:
 PREPARE SURFACE PER MANUFACTURER'S RECOMMENDATIONS. FOLLOW APPLICABLE ACI/ICRI APPROPRIATE GUIDELINES
 CONCRETE SUBSTRATE - REMOVE ALL DIRT, OIL, GREASE, AND ALL BOND-INHIBITING MATERIALS FROM SURFACE.
PREPARATION WORK SHALL BE DONE BY SANDBLAST, HIGH PRESSURE WATER BLAST OR OTHER APPROPRIATE
MECHANICAL MEANS TO EXPOSE AGGREGATE AND OBTAIN CONCRETE SURFACE PROFILE (CSP) REQUIRED. SUBSTRATE
SHOULD BE SATURATED SURFACE DRY (SSD) WITH NO STANDING WATER DURING APPLICATION.
 EXPOSED REINFORCEMENT - SANDBLAST OR MECHANICALLY CLEAN REINFORCEMENT TO REMOVE ALL TRACES OF
CORROSION, EXPOSING WHITE METAL. STEEL SHALL BE PRIMED IMMEDIATELY THEREAFTER TO PREVENT FORMATION OF
SURFACE CORROSION. IF MORE THAN 10% SECTION LOSS IS OBSERVED FOLLOWING SANDBLASTING, CONTACT ENGINEER
FOR FURTHER INSTRUCTIONS. PRIMING:

CONCRETE SUBSTRATE — PRIME THE PREPARED SUBSTRATE WITH A BRUSH OR SPRAYED APPLIED COAT C RECOMMENDED BY REPAIR MORTAR MANUFACTURER. ALTERNATELY, A SCRUB COAT OF REPAIR MORTAR CA APPLIED PRIOR TO PLACEMENT OF THE MORTAR. THE REPAIR MORTAR SHALL BE APPLIED INTO THE WET SEFORE IT DRIES.

EXPOSED REINFORCEMENT — PRIMER RECOMMENDED BY REPAIR MORTAR MANUFACTURER. SCRUB COAT

VENTS PER MANUFACTURER'S RECOMMENDATIONS.

7. REPAIR MATERIALS:

• REPAIR MORTAR MATERIAL "A" – FOR SHALLOW HORIZONTAL, VERTICAL AND OVERHEAD REPAIRS, LESS
THAN 1.1/2" DEEP: SPECTRUM RE-KOTE TF, MANUFACTURED BY W. R. MEADOWS

• REPAIR MORTAR MATERIAL "B" – FOR INTERMEDIATE VERTICAL AND OVERHEAD REPAIRS, FROM 1.1/2" TO 3.0" DEEP:
MEADOW-CRETE GPS, MANUFACTURED BY W. R. MEADOWS

• REPAIR MIX MATERIAL "C" – FOR LARGE, FORMED REPAIRS FROM 3.0" TO 8.0" DEEP: MEADOW-CRETE FNP
EXTENDED, MANUFACTURED BY W. R. MEADOWS.

• CRACK FILLER/INJECTION EPOXY: REZI-WELD LV, MANUFACTURED BY W. R. MEADOWS

• BONDING AGENT: ACRY-LOK, MANUFACTURED BY W. R. MEADOWS

• APPROVED EQUIVALENT REPAIR MATERIAL MANUFACTURERS: SIKA CORPORATION, EUCLID CHEMICAL COMPANY & BASF
BUILDING SYSTEMS; ALL REPAIR MATERIALS TO BE FROM SINGLE MANUFACTURER.

• CONCRETE FOR RE-CAST REPAIRS (IF REQUIRED): PORTLAND CEMENT CONCRETE IN ACCORDANCE WITH "SECTION

03300- CAST-IN-PLACE CONCRETE."

APPLICATION & FINISH:

• REPAIR MORTAR MATERIALS A & B - MATERIAL SHALL BE SCRUBBED AND WORKED INTO THE PRIMED SUBSTRATE, FILLING ALL PORES AND VOIDS. FORCE MATERIAL AGAINST EDGE OF REPAIR, WORKING TOWARDS CENTER. THOROUGHLY COMPACT MORTAR AROUND EXPOSED REINFORCEMENT. MATERIAL MAY NEED TO BE APPLIED IN MULTIPLE LIFTS; FOLLOW MINIMUM AND MAXIMUM LIFT REQUIREMENTS. WHERE MULTIPLE LIFTS ARE REQUIRED, SCORE TOP SURFACE OF EACH LIFT TO PRODUCE A ROUGHENED SUBSTRATE FOR NEXT LIFT. ALLOW PRECEDING LIFT TO HARDEN, 30 MINUTES MINIMUM, BEFORE APPLYING FRESH MATERIAL. SATURATE SURFACE OF THE LIFT WITH CLEAN WATER. SCRUB FRESH MORTAR INTO PRECEDING LIFT. AFTER FILLING REPAIR, CONSOLIDATE, THEN SCREED. ALLOW MORTAR TO SET TO DESIRED STIFFNESS, AND THEN FINISH WITH STEEL, WOOD OR SPONGE FLOAT FOR A SMOOTH SURFACE.

• REPAIR MIX MATERIAL C - PRE-WET SURFACE TO SSD (SATURATED SURFACE DRY). MATERIAL SHALL BE POURED OR PUMPED INTO FORMED AREA. VIBRATE FORM WHILE POURING OR PUMPING. PUMP WITH A VARIABLE PRESSURE PUMP. CONTINUE PUMPING UNTIL A 3 TO 5 PSI INCREASE IN NORMAL LINE PRESSURE IS EVIDENT THEN STOP PUMPING. FORM SHOULD NOT DEFLECT. VENT TO BE CAPPED WHEN STEADY FLOW IS EVIDENT, AND FORMS STRIPPED WHEN APPROPRIATE.

EXISTING CONCRETE COLUMN

AND

REMOVE EXISTING EXPOSED REINFORCEMENT

NEW REPAIR MORTAR MATERIAL

CURING:
 MOIST CURE WITH WET BURLAP AND POLYETHYLENE, OR MANUFACTURER'S RECOMMENDED CURING COMPOUND. MOIST
CURING SHOULD COMMENCE IMMEDIATELY AFTER FINISHING.
 PROTECT NEWLY APPLIED MATERIAL FROM DIRECT SUNLIGHT, WIND, RAIN AND FROST.

GREEN, RUBIANO & ASSOCIATES

AV, CW, IG

TYPICAL SLAB REPAIR

LINE OF SAW-CUT

EXISTING CONCRETE

REPAIR NOTES FOR REPAIR PROCEDURES

CLEAN ALL EXISTING ----

REMOVE ALL CRACKED CONCRETE UNTIL SOUND CONCRETE IS EXPOSED.

LINE OF SAW-CUT FOR REPAIR

NEW REPAIR MORTAR MATERIAL

ORIGINAL PROFILE OF COLUMN

MINIMUM 1" CLEARANCE BETWEEN REINF. BAR & CONCRETE SUBSTRATE

TYPICAL COLUMN REPAIR

FOR REPAIR PROCEDURES,
REFER TO CONCRETE REPAIR NOTES

LINE OF SAW-CUT

SAMS MEMORIAL POOL RENOVATIONS

CODES & ORDINANCES

COORDINATION:

EQUIPMENT:

GENERAL:

d. CONTRACTOR SHALL REVIEW COMPLETE DOCUMENTS PROPOSAL TO GAIN COMPLETE UNDERSTANDING OF OTHERS, AND MECHANICAL WORK ASSOCIATED WITH

S PRIOR TO SUBMITTAL OF PROJECT SCOPE, WORK BY OTHER DISCIPLINES.

TIME OR MONEY ALLOWANCES WILL NOT BE MADE TO ACCOMMODATE UTILITY CONFLICTS THAT CAN BE REASONABLY RESOLVED BY COORDINATION DURING SHOP DRAWING STAGE.

EQUIPMENT ACCESS:

- GENERAL:

 d. UNLESS DRAWINGS OR SPECIFICATIONS HAVE MORE STRINGENT REQUIREMENTS,
 PERFORM ALL WORK PER APPLICABLE VERSION OF INTERNATIONAL BUILDING CODES,
 AND LOCAL CODES AND ORDINANCES.
- PRIOR TO SUBMITTING PROPOSAL, NOTIFY ENGINEER OF ANY ASPECTS OF DESIGN WHICH ARE THOUGHT TO BE IN NONCOMPLIANCE WITH APPLICABLE CODES.
- PROVIDE COORDINATION DRAWINGS OF REFLECTED CEILING PLAN AND SECTION ABOVE CEILING SHOWING WORK OF ALL AFFECTED TRADES. DO NOT PROCEED WITH FABRICATION WORK UNTIL COORDINATION DRAWINGS HAVE BEEN APPROVED BY A/E.
- TIME OR MONEY ALLOWANCES WILL NOT BE MADE TO ACCOMMODATE UTILITY CONFLICTS THAT CAN BE REASONABLY RESOLVED BY COORDINATION DURING SHOP DRAWING STAGE.
- A/C ROOMS AND WALL LOUVER ECS. PROVIDE ESCUTCHEON PLATES E AND OUTSIDE, TO PROVIDE
- SEE ELECTRICAL PLANS FOR EXACT LOCATION OF ELECTRICAL PANELS TO AVOID DUCTWORK AND PIPING RUNNING OVER THESE AREAS. COORDINATE WITH ELECTRICAL CONTRACTOR. IN GENERAL ROUTE DUCTS/PIPES IN MOST EFFICIENT MANNER POSSIBLE, AND IN ACCORDANCE WITH INDUSTRY STANDARDS. IN GENERAL, REROUTE SMALLER DUCTS/PIPES THROUGH JOISTS TO RESOLVE CONFLICTS WITH LARGER. PERFORM REROUTING IN MOST EFFICIENT MANNER POSSIBLE, AND IN ACCORDANCE WITH INDUSTRY STANDARDS. ALL COORDINATION:

 COORDINATE ALL WORK WITH OTHER TRADES; COORDINATE SCHEDULE OF WORK WITH SUB-CONTRACTORS TO ACHIEVE SMOOTH FLOW OF CONSTRUCTION.
- INSULATION:
- FIBERGLASS INSULATION MAY NOT BE USED ON ANY COLD PIPING SURFACES; ONLY CLOSED CELL INSULATION IS ACCEPTABLE. PROVIDE INSULATION ON ALL SURFACES CAPABLE OF CREATING CONDENSATION.

- CONTRACT RELATED:

 d. COORDINATE WORK AMONG ALL DISCIPLINES. IT IS NOT THE INTENT OF THESE DOCUMENTS TO DICTATE WHO MUST DO THE WORK. ALL WORK SHOWN IS THE RESPONSIBILITY OF THE (PRIME) CONTRACTOR.
- WORK TO BE DONE UNDER ALLOWANCES BECOMES AN INTEGRAL PART OF THE PROJECT AND RESPONSIBILITY OF CONTRACTOR ONCE ALLOWANCE IS APPROVED

GENERAL NOTES:

- COORDINATE PRESSURE TESTS, INSPECTIONS AND APPROVAL FOR ALL SYSTEMS WITH PERMITTING OFFICER, OWNER AND ENGINEER.
- APPROVALS AND INSPECTIONS:

 d. OBTAIN APPROVAL FROM CITY FIRE DEPARTMENT AND BUILDING AND SAFETY DEPARTMENT PRIOR TO INSTALLATION OF ANY FIRE RELATED ITEMS. CONTRACTOR WHO WILL ACTUALLY PERFORM WORK MUST APPLY FOR ALL REQUIRED PERMITS.
- PERMITS:

 a. CONTRACTOR IS RESPONSIBLE FOR ALL PERMITS AND FEES ASSOCIATED WITH PROJECT, INCLUDING FEES FOR INSPECTIONS, APPLICATIONS, AND PROVISION OF NEW SERVICES.

- SLEEVE ALL EXTERIOR WALL AND GRADE BEAM PENETRATIONS. GRADE BEAM PENETRATIONS SHALL BE MADE WITHIN MIDDLE 1/3 OF VERTICAL SPAN OF BEAM. SEAL AROUND DUCTS AND PIPING AT ALL WALLS, A PENETRATIONS WITH FIREPROOF CAULKING. RE: SPE AND FLASHING AROUND PENETRATION, BOTH INSIDE FINISHED LOOK. ITECTURAL AND STRUCTURAL: REFER TO ARCHITECTURAL AND STRUCTURAL PLANS FOR DETAILS OF CONSTRUCTION, NCLUDING BEAMS, FLOOR AND WALL PENETRATIONS, CHASES, AND REFLECTED CEILING PLANS. VERIFY OPENING SIZES WITH EQUIPMENT FURNISHED.
- EQUIPMENT INSTALLATION: AFFIX ID TAGS TO ALL MECHANICAL EQUIPMENT PER SPECIFICATIONS PMENT INSULATION:
 INSULATE ALL SURFACES THAT ARE CAPABLE OF BECOMING COLD AND COLLECTING CONDENSATE. THIS INCLUDES SUPPLY DIFFUSERS AND CONNECTING DUCTWORK / TRANSITION PIECES.
- PLUMBING:

 a. PROVIDE CODE RECOMMENDED CLEARANCE OR MINIMUM 10' BETWEEN EXHAUST FANS DISCHARGES, PLUMBING VENTS AND AIR INTAKES. COORDINATE LOCATIONS WITH PLUMBING CONTRACTOR. ELECTRICAL:
 G. CONTRACTOR IS RESPONSIBLE FOR COORDINATION WITH ELECTRICAL CONTRACTOR REGARDING EQUIPMENT SIZES AND TYPES OF ELECTRICAL INTERFACE EQUIPMENT REQUIRED.
- DUE TO VARIATIONS IN EQUIPMENT CHARACTERISTICS BY DIFFERENT EQUIPMENT SUPPLIERS, MECHANICAL EQUIPMENT ULTIMATELY PROVIDED MAY DIFFER IN HORSEPOWER OR AMPERAGE REQUIREMENTS FROM THAT SPECIFIED IN THESE DRAWINGS. COORDINATE WITH GENERAL CONTRACTOR PRIOR TO BIDDING, AND PRIOR TO SUBMITTALS AND ORDERING EQUIPMENT, TO ENSURE THAT EQUIPMENT ELECTRICAL REQUIREMENTS ARE CONVEYED TO ELECTRICAL CONTRACTOR. IT IS SOLELY CONTRACTOR'S RESPONSIBILITY TO ENSURE COMPATIBILITY ISSUES ARE COORDINATED.



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SAMS MEMORIAL POOL RENOVATIONS

ABBREVIATIONS

AIR COOLED CONDENSING UNIT

EXTERNAL OR EXTERIOR

COND.

COOLING TOWER

NC NZ NS

NORMALLY CLOSED

AFR

AUTO-FLOW REGULATOR

SIDE TAP WITH DAMPER

BACKDRAFT DAMPER

CHECK VALVE

PRESSURE GAUGE & COCK

AUTOMATIC VALVE

CONCEALED RACEWAY

UNDERGROUND RACEWAY

ELECTRICAL PANELBOARD

DISCONNECT SWITCH - FUSED

SUPPLY AIR DIFFUSER

BALL VALVE

THERMOMETER WELL

TEMPERATURE SENSOR

DRAIN VALVE

MOTOR STARTER
MOTOR STARTER

CITY WATER

ENERGY MANAGEMENT SYSTEM

EXHAUST AIR GRILLE

CONC.

CONCRETE

MECH

MECHANICAL

LEAVING

G

UNLESS OTHERWISE NOTED

TEMPERATURE SENSOR
THERMOSTAT

RG/TG-X

RETURN AIR/TRANSFER AIR GRILLE

崇

BUTTERFLY VALVE

8

CONDENSATE PIPING

CHILLED WATER SUPPLY

Q

DISCONNECT SWITCH - NON FUSED

AS REQUIRED

as required

AS REQUIRED

THERMAL SWITCH, SQUARE D CLASS 2510 W RED PILO LIGHT AND HANDLE GUARD / LOCK-OUT

as required

48" AFF

SINGLE POLE TOGGLE SWITCH WITH WEATHER PROOF COVER — HUBBELL MODEL #HBL7420

SINGLE POLE TOGGLE SWITCH — HUBBELL MODEL #1221X

48" AFF

CHILLED WATER RETURN

DUCT CARBON DIOXIDE SENSOR

=

MANUAL VALVE

EXHAUST AIR GRILLE

CEILING OR COOLING

CHW

CHILLED WATER

CHILLED WATER RETURN

GALV.

GALLONS PER MINUTE

GALVANIZED

RD RM. RM. SA SS SS

SUPPLY AIR

REDUCED PRESSURE ZONE

SUPPLY AIR DIFFUSER

GA.

CONDUIT OR COMMON

않 공

CONDENSER WATER RETURN

HUMIDITY SENSOR

T.O.L.

TOP OF LOUVER

TESTING & BALANCING

CHILLED WATER PUMP

꽃 | 품 | ස

HOSE BIBB

SINGLE ZONE

8.70

ВОП

BUILDING AUTOMATION SYSTEM

AIR HANDLING UNIT

G. FPI FO FOU

FLOW METER

RETURN AIR

MECHA

NICAL SYMBOLS LEGEND

OUTSIDE AIR

NOT TO SCALE

NORMALLY OPEN

FLOW SWITCH

FINS PER INCH

ROOF DRAIN

(12x12)

DIRECTION OF FLOW-RETURN

DIRECTION OF FLOW-SUPPLY

BELOW DUCT SIZE: FIRST FIGURE IS SIDE SHOWN

SPACE CARBON DIOXIDE SENSOR

DUCT HUMIDITY SENSOR

S

⊕ GFCI WICP

DUPLEX RECEPTACLE W/ GROUND FAULT INTERRUPTING
TYPE — HUBBELL MODEL #GFTWRST20X AND WHILE IN USE
WEATHERPROOF COVER — HUBBELL MODEL #WP26EH

18" AFF

ELECTRICAL LEGEND

SPACE HUMIDITY SENSOR

THERMOSTAT

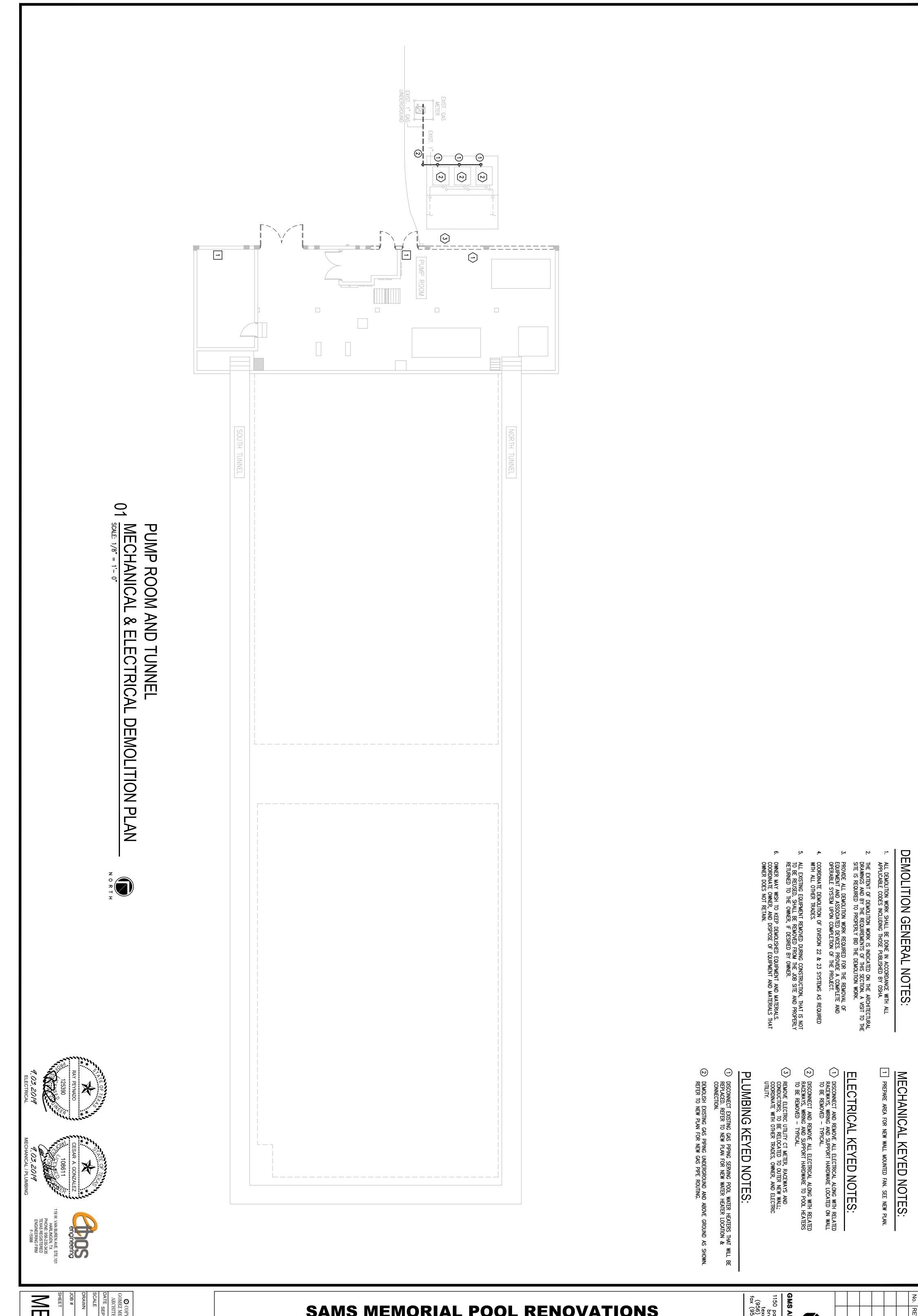
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DUCT SIZE: FIRST FIGURE

RETURN AIR GRILLE

GMS ARCHITECT	IIDMENT INCTALLATION:
4	INSTALL ALL VALVES, CONTROLS, DAMPERS, FANS, ETC. IN ACCESSIBLE LOCATIONS. PROVIDE ADEQUATELY SIZED ACCESS DOORS WHERE REQUIRED.
	JIPMENT ACCESS:
	EQUIPMENT FOUND DEFECTIVE PRIOR TO FINAL ACCEPTANCE SHALL BE REPLACED AT NO COST TO OWNER.
	EQUIPMENT DAMAGED DURING MOVING AND INSTALLATION.
	ALL EQUIPMENT SHALL BE FACTORY TESTED, AND CONTRACTOR SHALL VERIFY EQUIPMENT CONDITION PRIOR TO INSTALLATION. CONTRACTOR IS RESPONSIBLE FOR
	O ORDERING EQUIPMENT AND/OR PROCEEDING WITH INSTALLATION.
	FIELD VERIFY ALL CONDITIONS AND MEASURE DIMENSIONS WITHIN THE BUILDING PRIOR
	IIDMENT INCRECTION:
	IPMENT:



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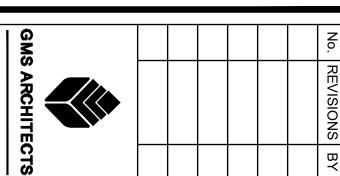
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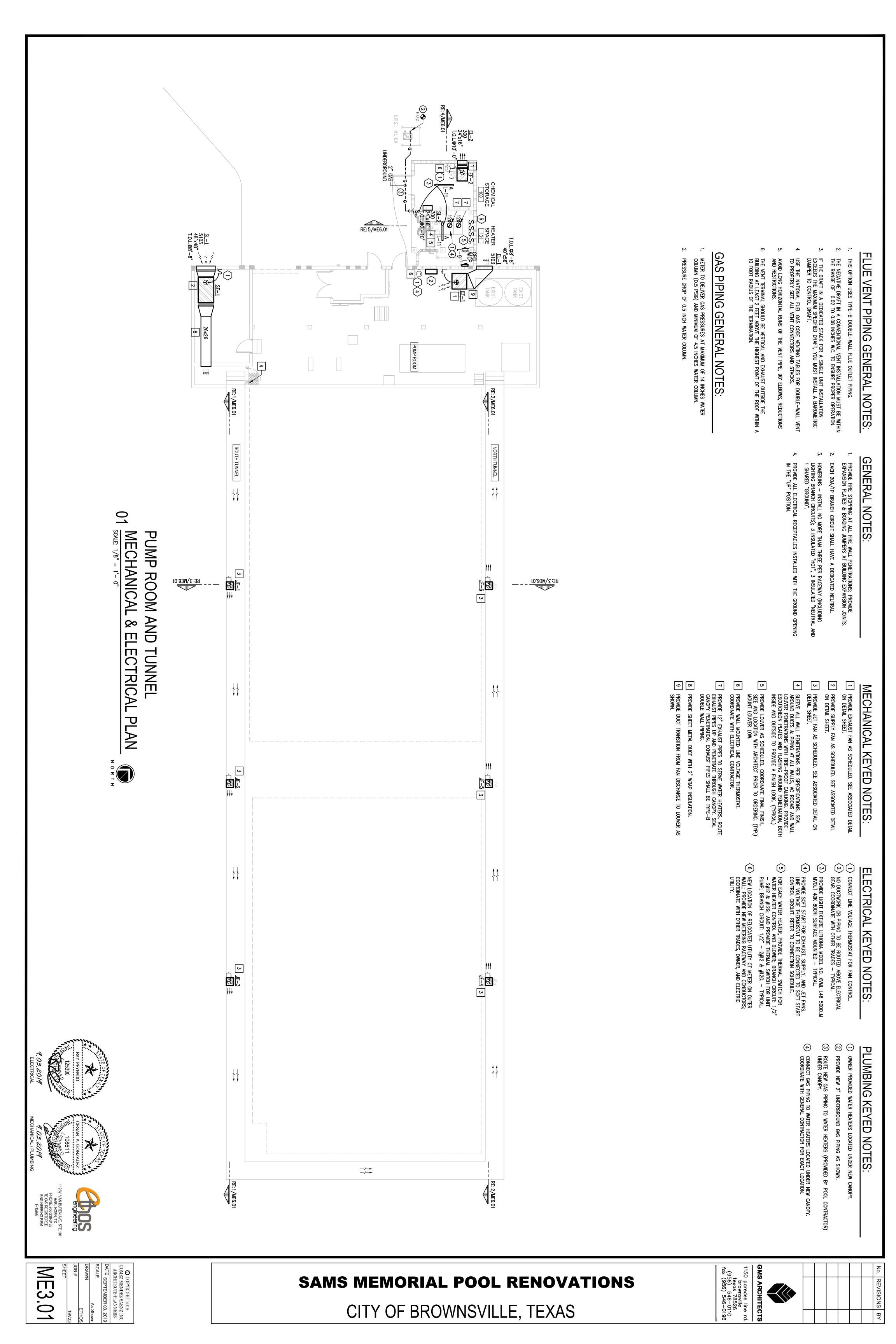
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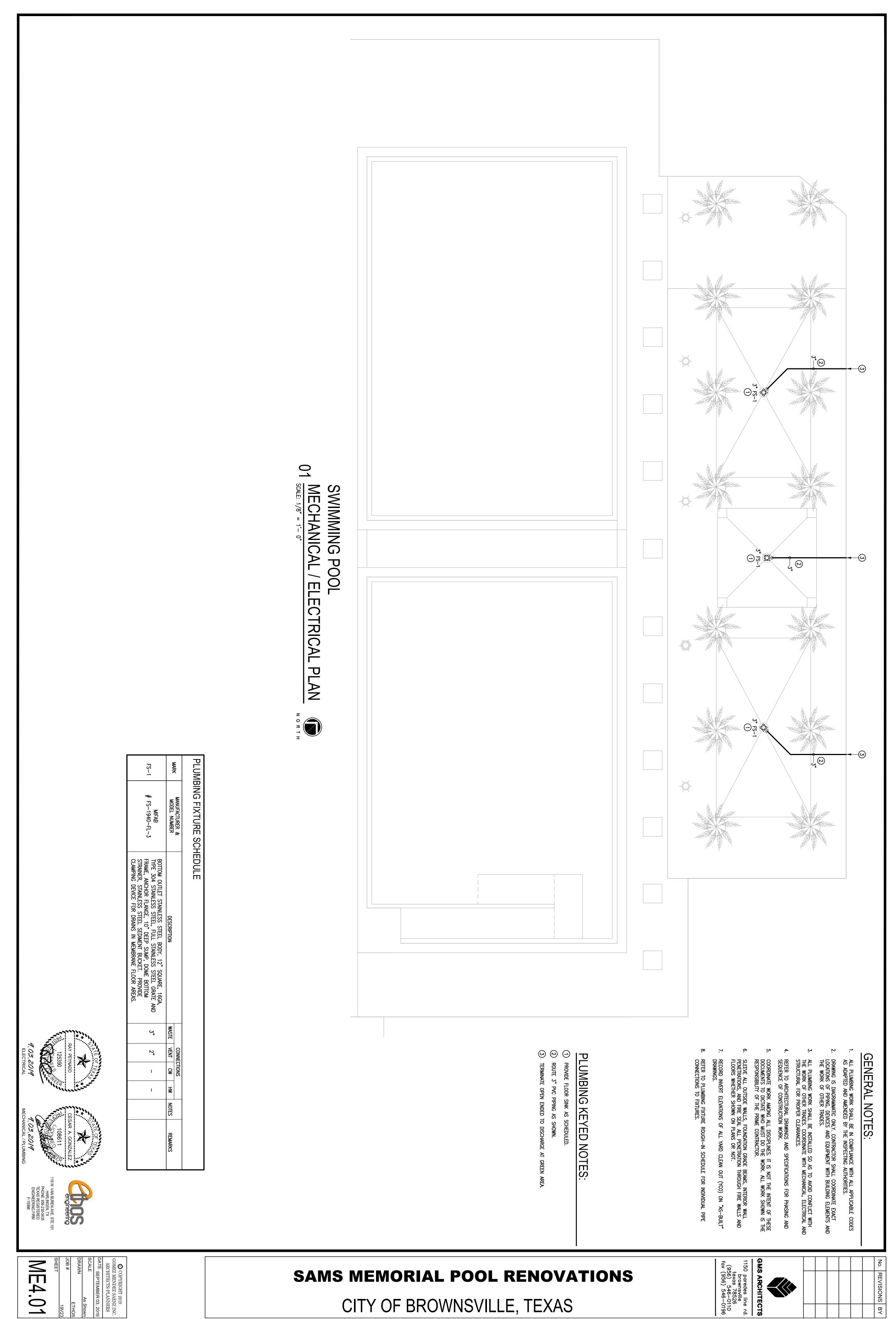
CITY OF BROWNSVILLE, TEXAS

GMS ARCHITECTS

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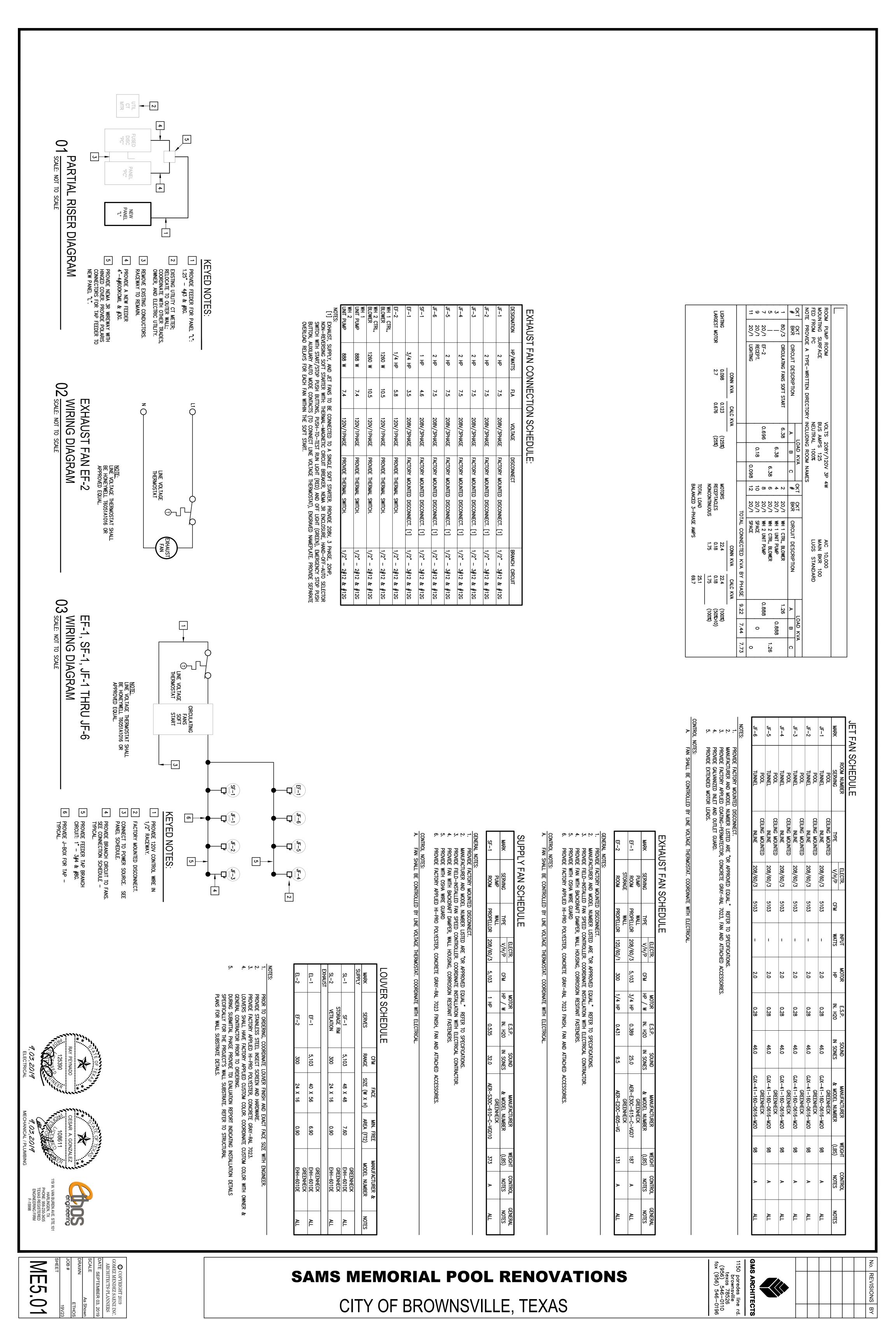




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