NEW ELEVATOR WORK



REMODELING OF THE ASCARATE ANNEX FOR THE EL PASO COUNTY EL PASO, TEXAS 79905 301 MANNY MARTINEZ DR.



CODE COMPLIANCE:

IBC 2009 EDITION WITH ALL LATEST LOCAL AMENDMENTS BY THE CITY OF EL PASO, INCLUDING THE TEXAS ASBESTOS HEALTH PROTECTION ACT.

ZONING ORDINANCE, CITY OF EL PASO

TEXAS ACCESSIBILITY STANDARDS (TAS)

AMERICAN WITH DISABILITIES ACT (ADA) ACCESSIBILITY GUIDELINES

NATIONAL FIRE PREVENTION ASSOCIATION (NFPA)

2009 EDITION OF THE INTERNATIONAL MECHANICAL CODE

2009 EDITION OF THE INTERNATIONAL PLUMBING CODE 2009 EDITION OF THE NATIONAL ELECTRICAL CODE

2009 EDITION OF THE INTERNATIONAL ENERGY CONSERVATION CODE

LEGAL DESCRIPTION A PORTION OF U.S. GOVERNMENT PARCEL No.3 CITY OF EL PASO, EL PASO COUNTY, TEXAS.

ABBREVIATIONS:

ACOUST. A.D.A. ALUM. LAM. GYP.BD. EXIST. F.E.C. F.D. GL. H.C. HDW.	ACOUSTICAL AMERICANS WITH ALUMINUM LAMINATE GYPSUM BOARD EXISTING FIRE EXTINGUISH FLOOR DRAIN GLASS/ GLAZING HOLLOW CORE HARDWARE

H DISABILITIES ACT HER CABINET

ST.

H.M. HOLLOW METAL V.W.C. VINYL WALL COVERING S.C.W. SOLID CORE WOOD SGL. SAFETY GLASS STAIN TEMP. TEMPERED U.N.O. UNLESS NOTED OTHERWISE V.C.T. VINYL COMPOSITION TILE V.I.F. VERIFY IN FIELD

PROJECT GENERAL NOTES

PROJECT GENERAL NOTES PROVIDE INFORMATION CONCERNING THE WORK OF THE ENTIRE PROJECT AND ARE NOT LIMITED TO ANY INDIVIDUAL DRAWING OR SHEET

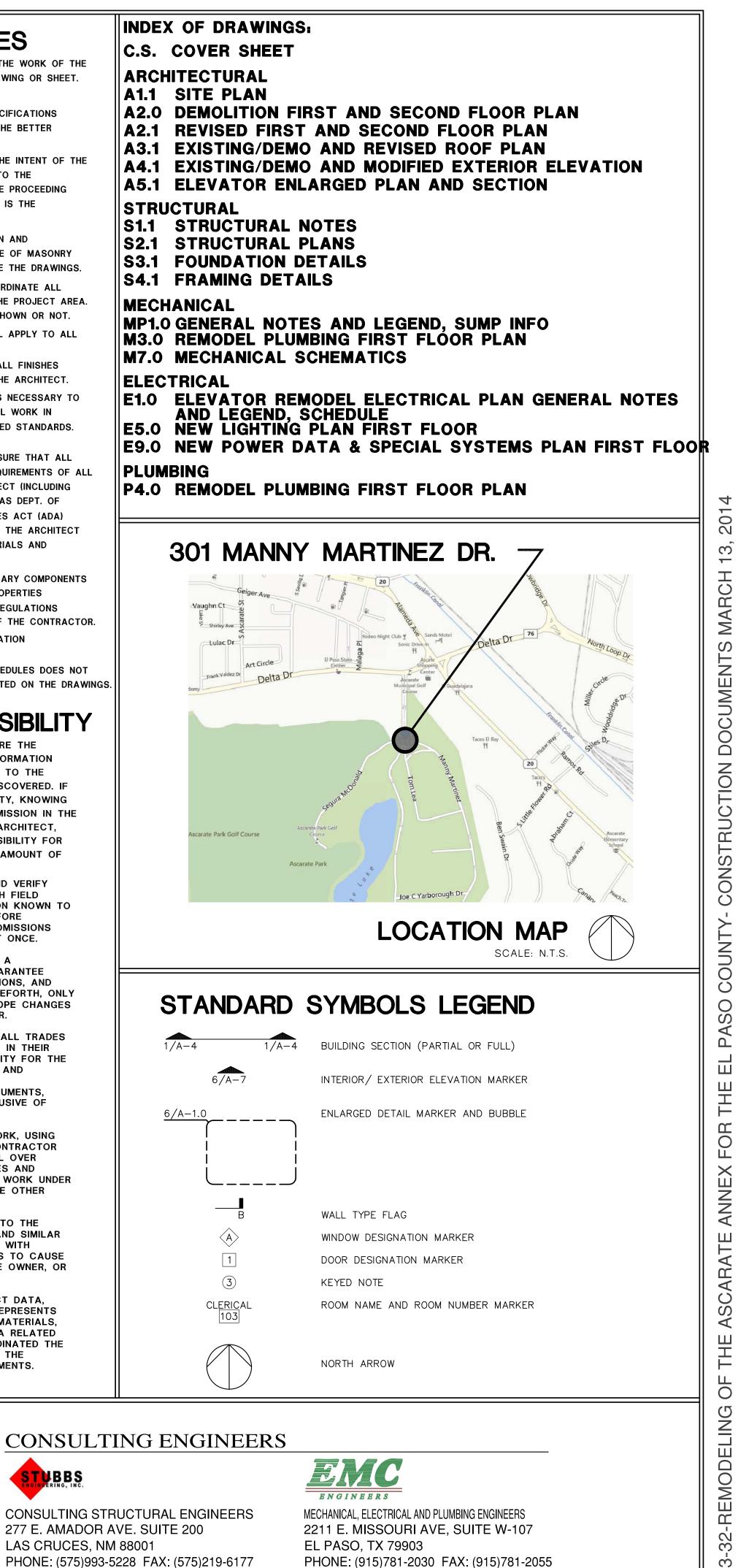
- 1. THE DRAWINGS AND THE SPECIFICATIONS ARE COOPERATIVE. WHERE DRAWINGS AND SPECIFICATIONS, OR DRAWINGS, OR SPECIFICATIONS THEMSELVES ARE IN CONFLICT, CONTRACTOR SHALL PROVIDE THE BETTER QUALITY / GREATER QUANTITY
- 2. ACTUAL FIELD CONDITIONS FOUND TO BE AT VARIANCE WITH THE INTENT OF THE CONSTRUCTION DOCUMENTS SHALL IMMEDIATELY BE BROUGHT TO THE ATTENTION OF THE ARCHITECT FOR HIS CONSIDERATION BEFORE PROCEEDING WITH THE WORK. FIELD VERIFICATION OF ALL JOB CONDITIONS IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR
- 3. ALL DIMENSIONS ARE NOMINAL AND REQUIRE FIELD VERIFICATION AND COORDINATION. DIMENSIONS ARE TO FACE OF CONCRETE. FACE OF MASONRY OR FACE OF STUD, UNLESS NOTED OTHERWISE. DO NOT SCALE THE DRAWINGS.
- 4. LOCATE EXISTING UTILITIES PRIOR TO CONSTRUCTION AND COORDINATE ALL WORK WITH RESPECTIVE UTILITY OWNERS, IF THEY OCCUR IN THE PROJECT AREA. & INTERFERE W/ THE SCOPE OF WORK - WHETHER THEY ARE SHOWN OR NOT.
- 5. GENERAL DATA SHOWN ON ONE PART OF THE DRAWINGS SHALL APPLY TO ALL SIMILAR CONDITIONS.
- 6. FINISH ALL WORK, UNLESS SPECIFICALLY NOTED OTHERWISE. ALL FINISHES TEXTURES, ETC. NOT INDICATED, SHALL BE AS SELECTED BY THE ARCHITECT
- 7. PROVIDE PROPER MATERIALS, INSTALLATIONS AND PROTECTIONS NECESSARY TO MEET FIRE RATED CONSTRUCTION REQUIREMENTS. PERFORM ALL WORK IN COMPLIANCE WITH ALL APPLICABLE CODES AND THE REFERENCED STANDARDS 8. ACCESSIBILITY REQUIREMENTS:
- IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO ENSURE THAT ALL ITEMS AND INSTALLATIONS COMPLY W/ THE ACCESSIBILITY REQUIREMENTS OF ALL GOVERNING AUTHORITIES HAVING JURISDICTION OVER THE PROJECT (INCLUDING ARTICLE 9102, TEXAS CIVIL STATUTE, STANDARDS OF THE TEXAS DEPT. OF LICENSING & REGULATION. AND THE AMERICANS W/ DISABILITIES ACT (ADA) OF 1990. VERIFY COMPLIANCE AND REPORT DISCREPANCIES TO THE ARCHITECT PRIOR TO ORDERING ITEMS AND MATERIALS. ALL ITEMS, MATERIALS AND INSTALLATIONS SHALL BE IN COMPLIANCE
- 9. THE CONSTRUCTION DOCUMENTS DO NOT CONTAIN THE NECESSARY COMPONENTS FOR CONSTRUCTION SAFETY. SAFETY, CARE OF ADJACENT PROPERTIES DURING CONSTRUCTION AND COMPLIANCE W/ ALL GOVERNING REGULATIONS CONCERNING SAFETY, IS AND SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. 10. REPORT ALL DISCREPANCIES TO THE ARCHITECT FOR CLARIFICATION
- BEFORE PROCEEDING WITH THE WORK. 11. ERRORS AND/OR OMISSIONS IN THE ROOM FINISH OR DOOR SCHEDULES DOES NOT RELIEVE THE CONTRACTOR FROM EXECUTING ALL WORK INDICATED ON THE DRAWINGS.

CONTRACTOR'S RESPONSIBILITY

- 1. THE CONTRACTOR SHALL CAREFULLY STUDY AND COMPARE THE CONTRACT DOCUMENTS WITH EACH OTHER AND WITH INFORMATION FURNISHED BY THE OWNER, AND SHALL AT ONCE REPORT TO THE ARCHITECT, ERRORS, INCONSISTENCIES, OR OMISSIONS DISCOVERED. THE CONTRACTOR PERFORMS ANY CONSTRUCTION ACTIVITY. KNOWIN IT INVOKES A RECOGNIZED ERROR, INCONSISTENCY OR OMISSION IN THE CONTRACT DOCUMENTS WITHOUT SUCH NOTICE TO THE ARCHITECT, THE CONTRACTOR SHALL ASSUME APPROPRIATE RESPONSIBILITY FOR SUCH PERFORMANCE AND SHALL BEAR AN APPROPRIATE AMOUNT OF THE ATTRIBUTABLE COST FOR CORRECTION.
- 2. THE CONTRACTOR SHALL TAKE FIELD MEASUREMENTS AND VERIFY FIELD CONDITIONS AND SHALL CAREFULLY COMPARE SUCH FIELD MEASUREMENTS AND CONDITIONS AND OTHER INFORMATION KNOWN TO THE CONTRACTOR WITH THE CONTRACT DOCUMENTS, BEFORE COMMENCING ACTIVITIES. ERRORS. INCONSISTENCIES OR OMISSIONS DISCOVERED, SHALL BE REPORTED TO THE ARCHITECT AT ONCE.
- 3. THE SUBMISSION OF A BID AND SUBSEQUENT SIGNING OF A CONSTRUCTION CONTRACT, WILL BE REGARDED AS A GUARANTEE THAT THE CONTRACTOR HAS VERIFIED ALL FIELD CONDITIONS, AND FULLY UNDERSTANDS THE SCOPE OF THE PROJECT. HENCEFORTH, ONLY CONCEALED OR UNKNOWN EXISTING CONDITIONS AND SCOPE CHANGES WILL BE CONSIDERED AS A BASIS FOR A CHANGE ORDER.
- 4. THE ASSUMPTION IS MADE THAT SUBCONTRACTORS FOR ALL TRADES POSSESS AT LEAST A MINIMUM STANDARD OF EXPERTISE IN THEIR TRADE, AND THEREFORE WILL BEAR PARTIAL RESPONSIBILITY FOR THE PROPER EXECUTION OF THEIR WORK. THE IDENTIFICATION AND NOTIFICATION OF THE ARCHITECT REGARDING ERRORS, INCONSISTENCIES AND OMISSIONS IN THE CONTRACT DOCUMENTS. PRIOR TO THE IMPLEMENTATION OF ANY WORK, ARE INCLUSIVE OF SUCH RESPONSIBILITY.
- THE CONTRACTOR SHALL SUPERVISE AND DIRECT THE WORK, USING THE CONTRACTOR'S BEST SKILL AND ATTENTION. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR, AND HAVE CONTROL OVER CONSTRUCTION MEANS, METHODS TECHNIQUES, SEQUENCES AND PROCEDURES, AND FOR COORDINATING ALL PORTIONS OF WORK UNDER THE CONTRACT, UNLESS THE CONTRACT DOCUMENTS GIVE OTHER SPECIFIC INSTRUCTIONS CONCERNING THESE MATTERS....
- THE CONTRACTOR SHALL REVIEW, APPROVE AND SUBMIT TO THE ARCHITECT, SHOP DRAWINGS PRODUCT DATA, SAMPLES AND SIMILAR SUBMITTALS REQUIRED BY THE CONTRACTOR DOCUMENTS WITH REASONABLE PROMPTNESS, AND IN SUCH A SEQUENCE AS TO CAUSE NO DELAY IN THE PROJECT OR IN THE ACTIVITIES OF THE OWNER, OR OF SEPARATE CONTRACTORS.
- BY APPROVING AND SUBMITTING SHOP DRAWINGS, PROJECT DATA, SAMPLES AND SIMILAR SUBMITTALS, THE CONTRACTOR REPRESENTS THAT THE CONTRACTOR HAS DETERMINED AND VERIFIED MATERIALS. FIELD MEASUREMENTS AND FIELD CONSTRUCTION CRITERIA RELATED THERETO OR WILL DO SO AND HAS CHECKED AND COORDINATED THE INFORMATION CONTAINED WITHIN SUCH SUBMITTALS WITH THE REQUIREMENTS OF THE WORK AND THE CONTRACT DOCUMENTS.



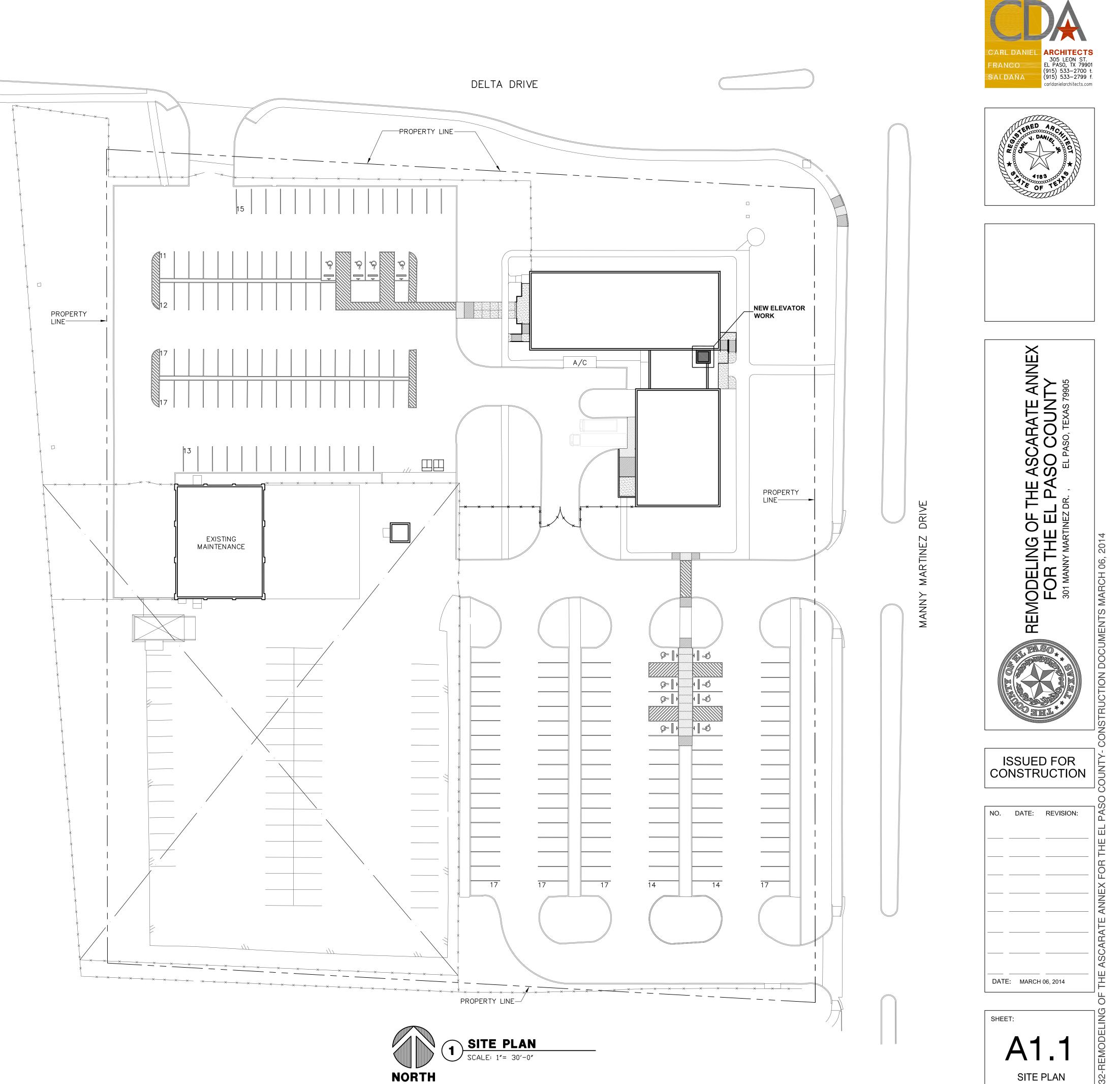




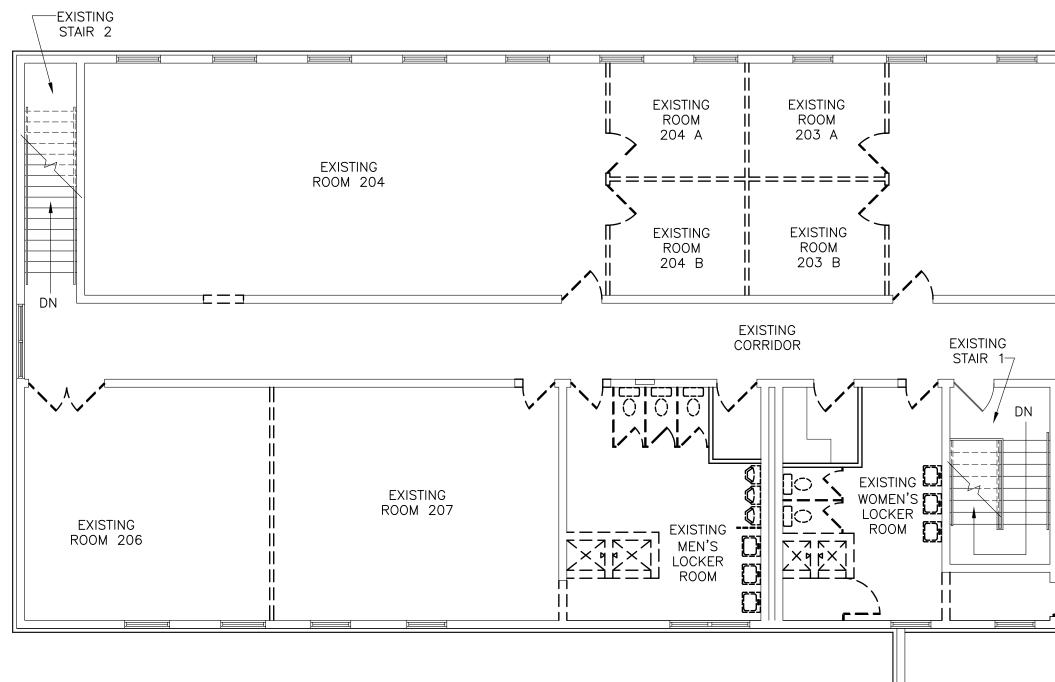
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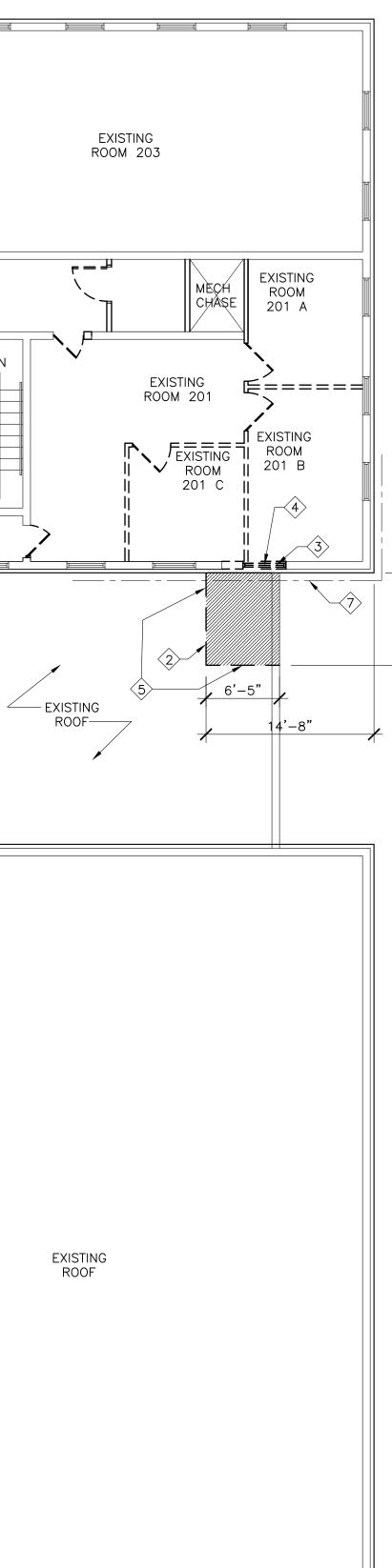
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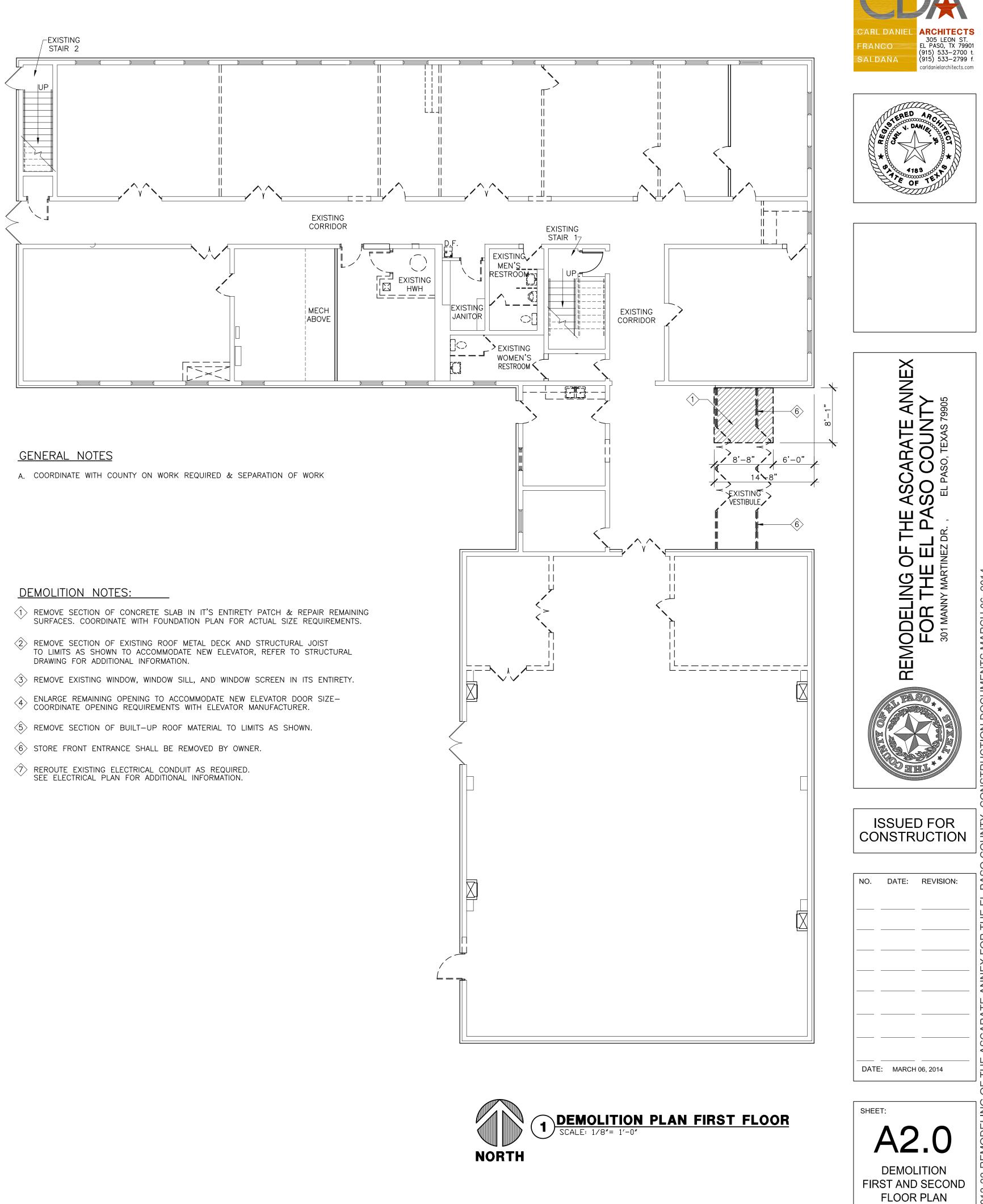




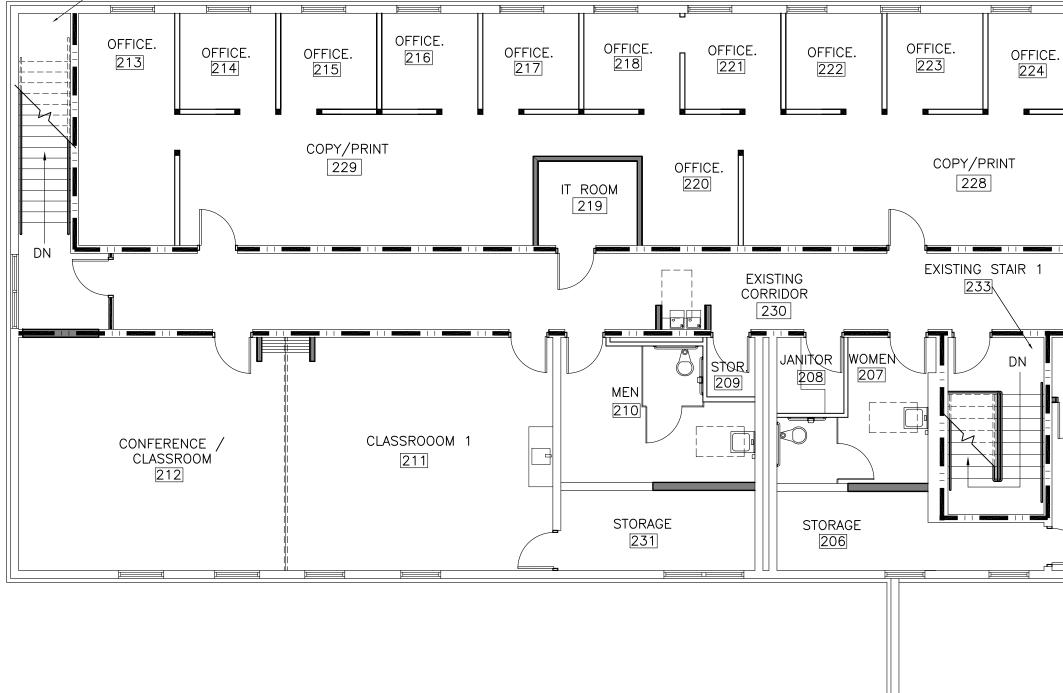




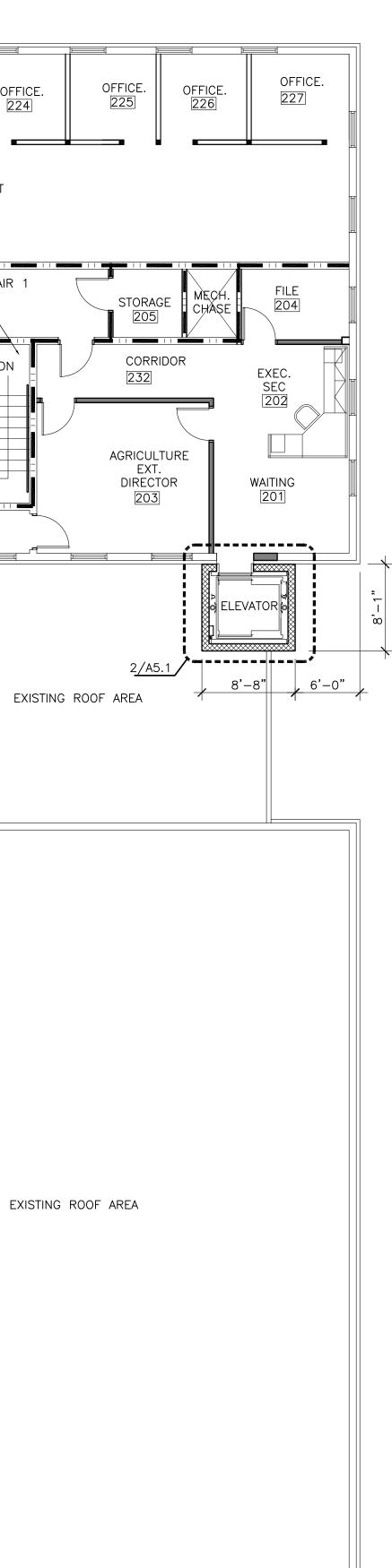


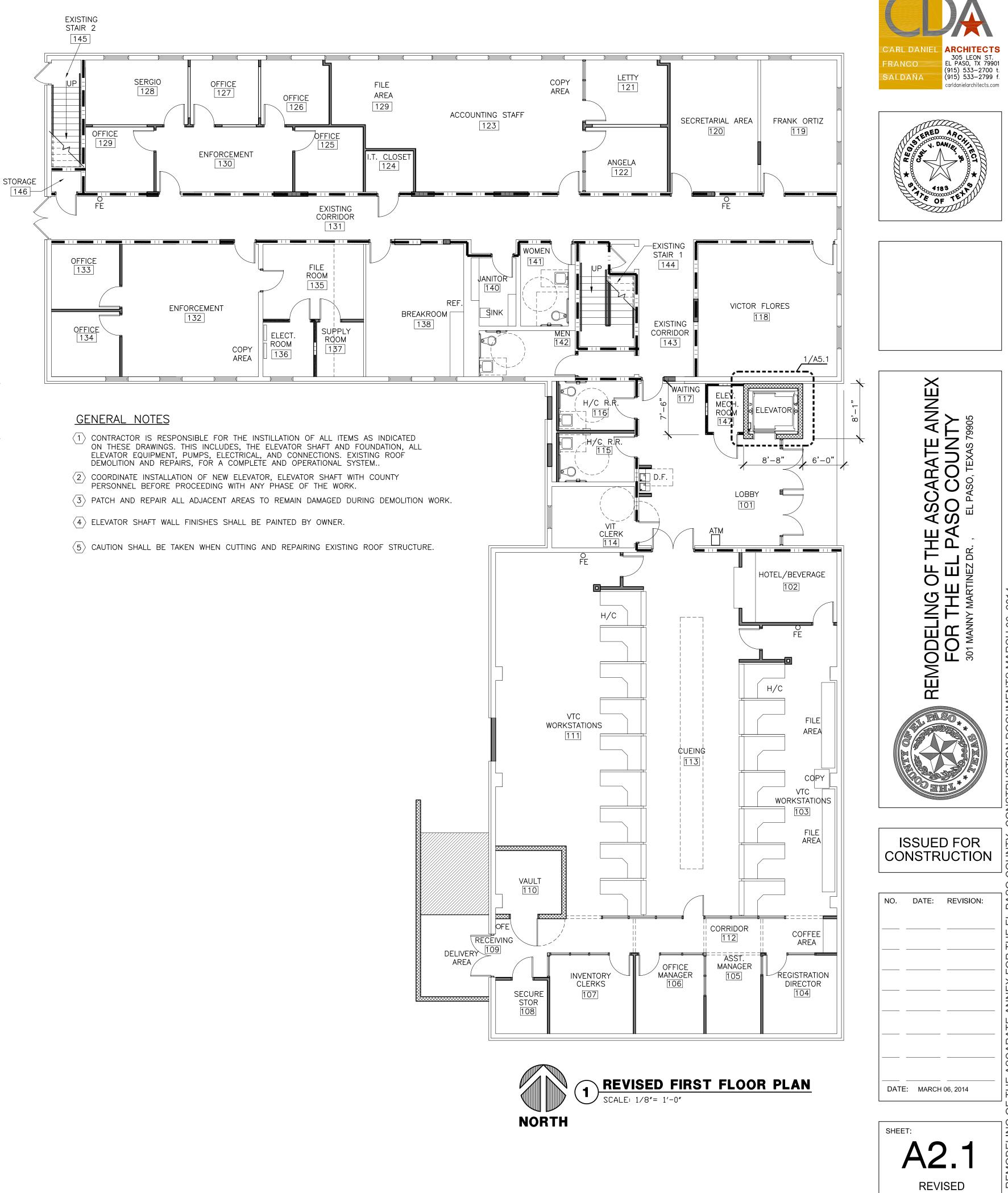








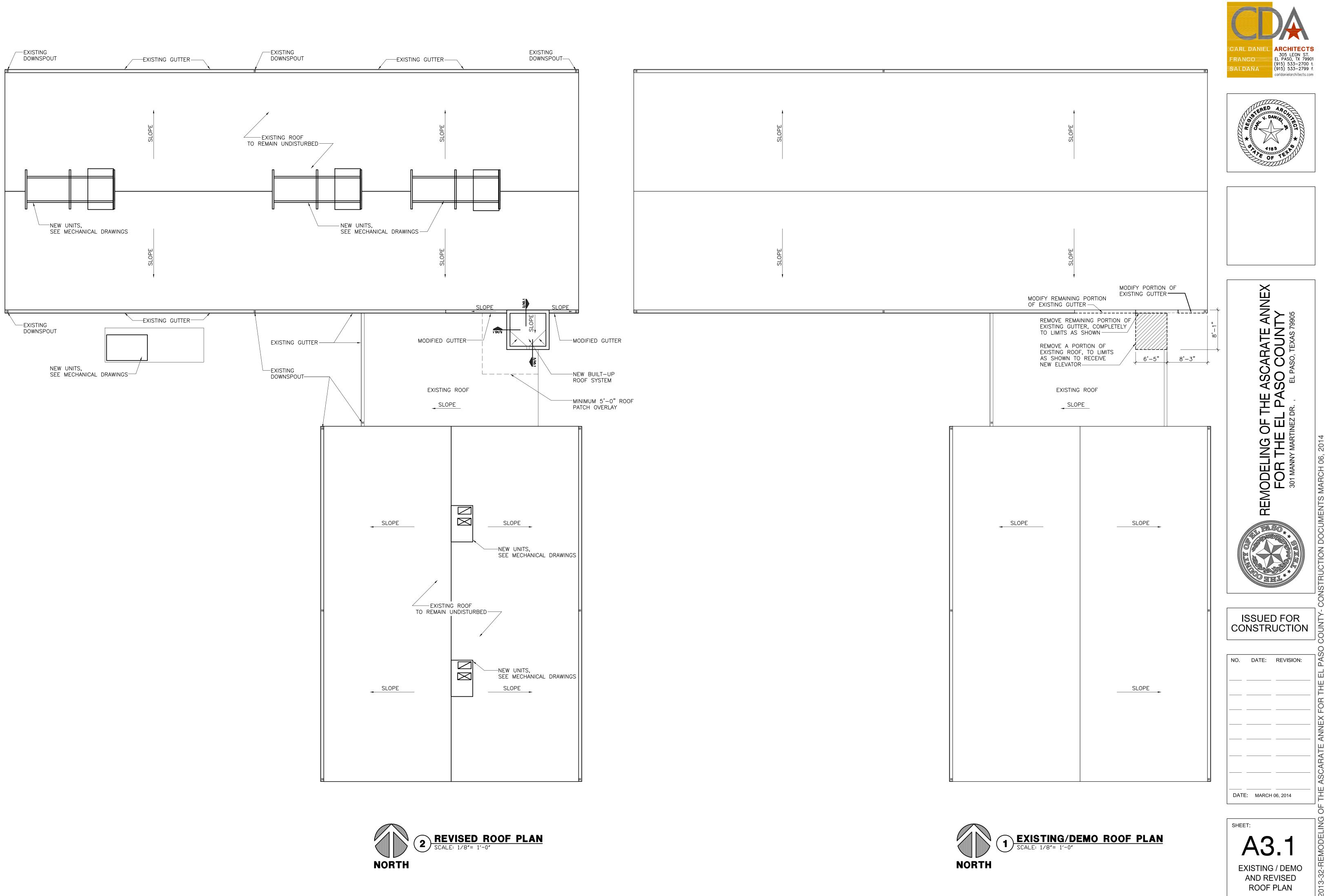




REVISED SECOND FLOOR PLAN SCALE: 1/8"= 1'-0"

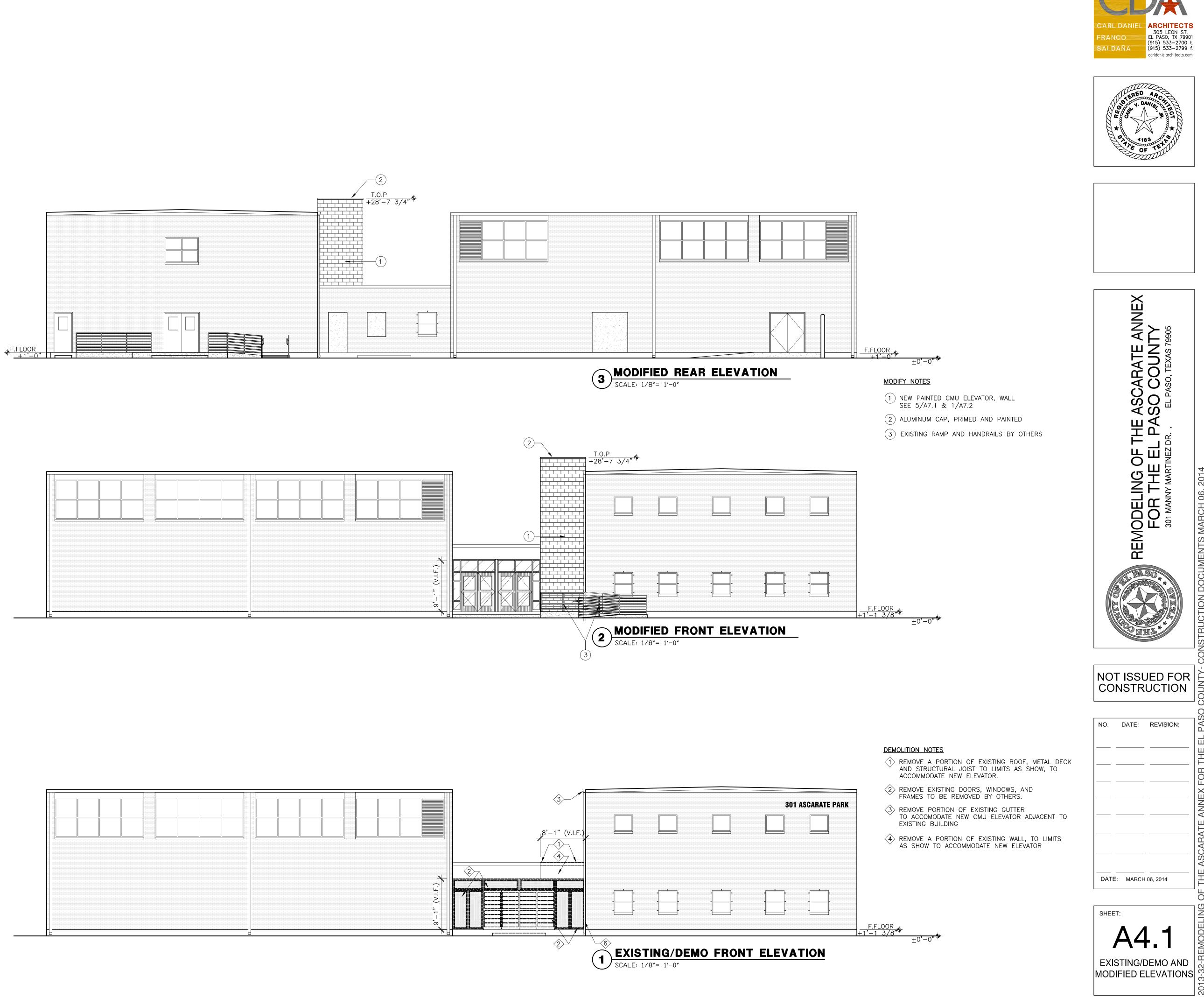
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FIRST AND SECOND FLOOR PLAN



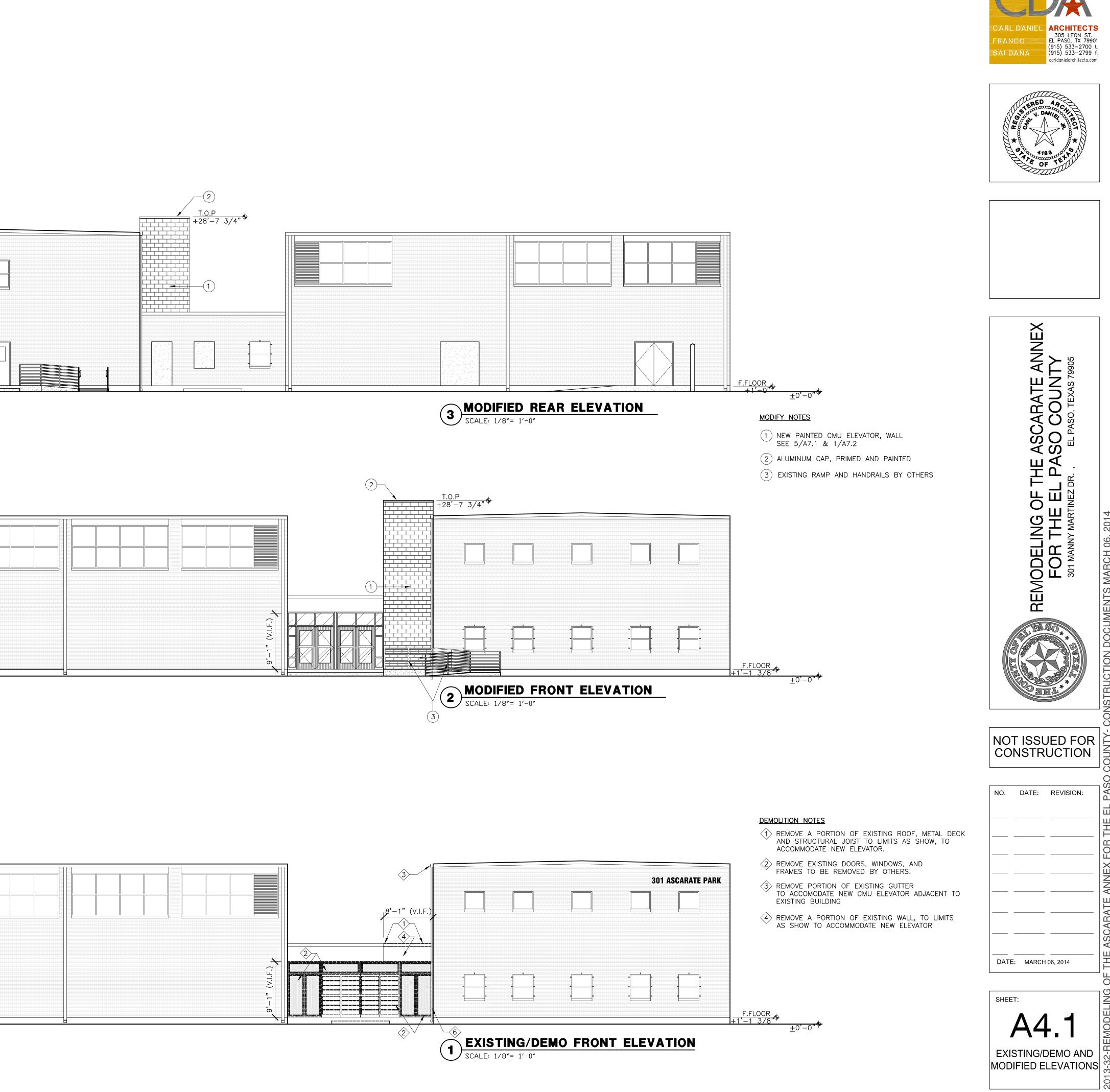


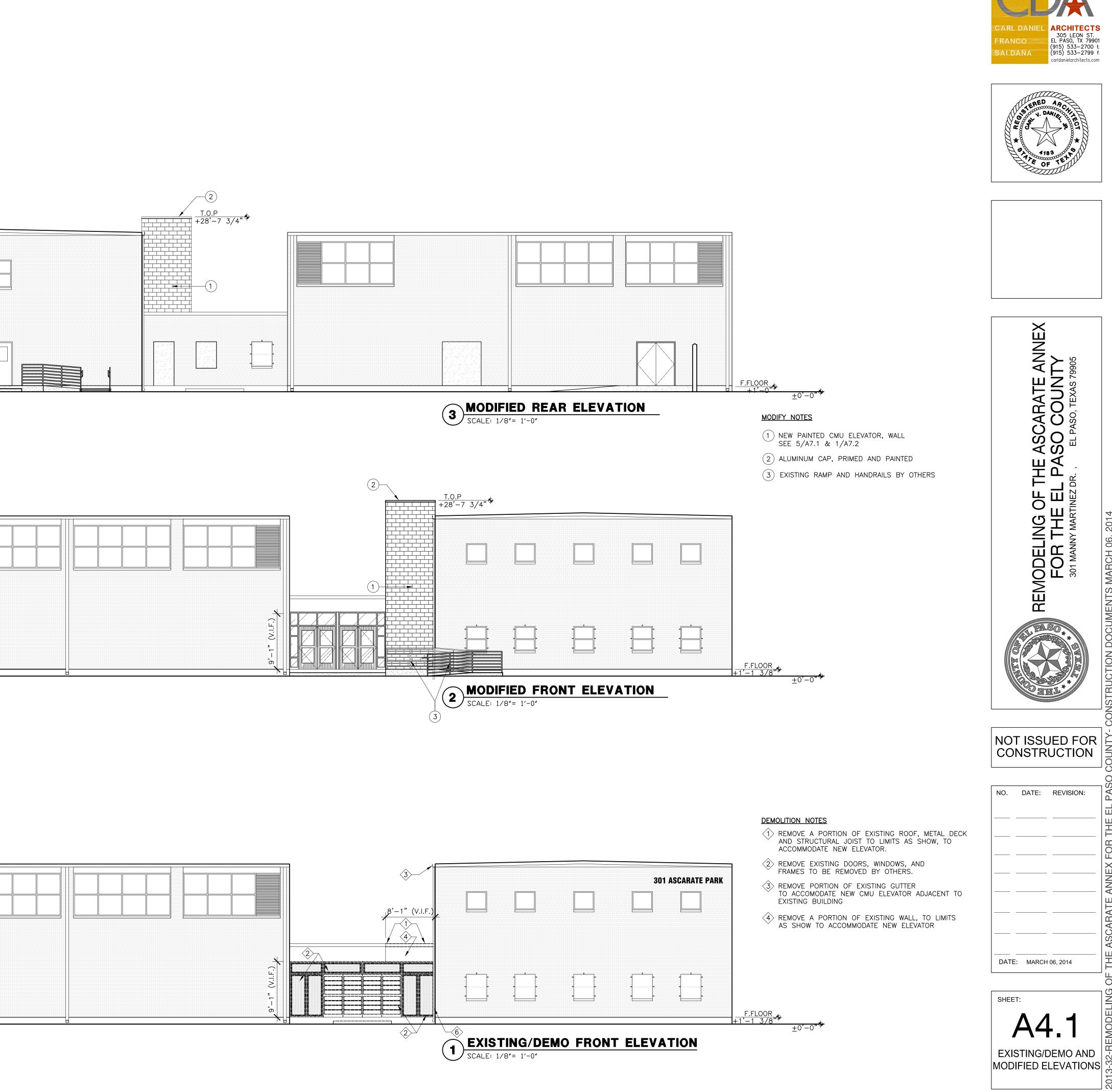
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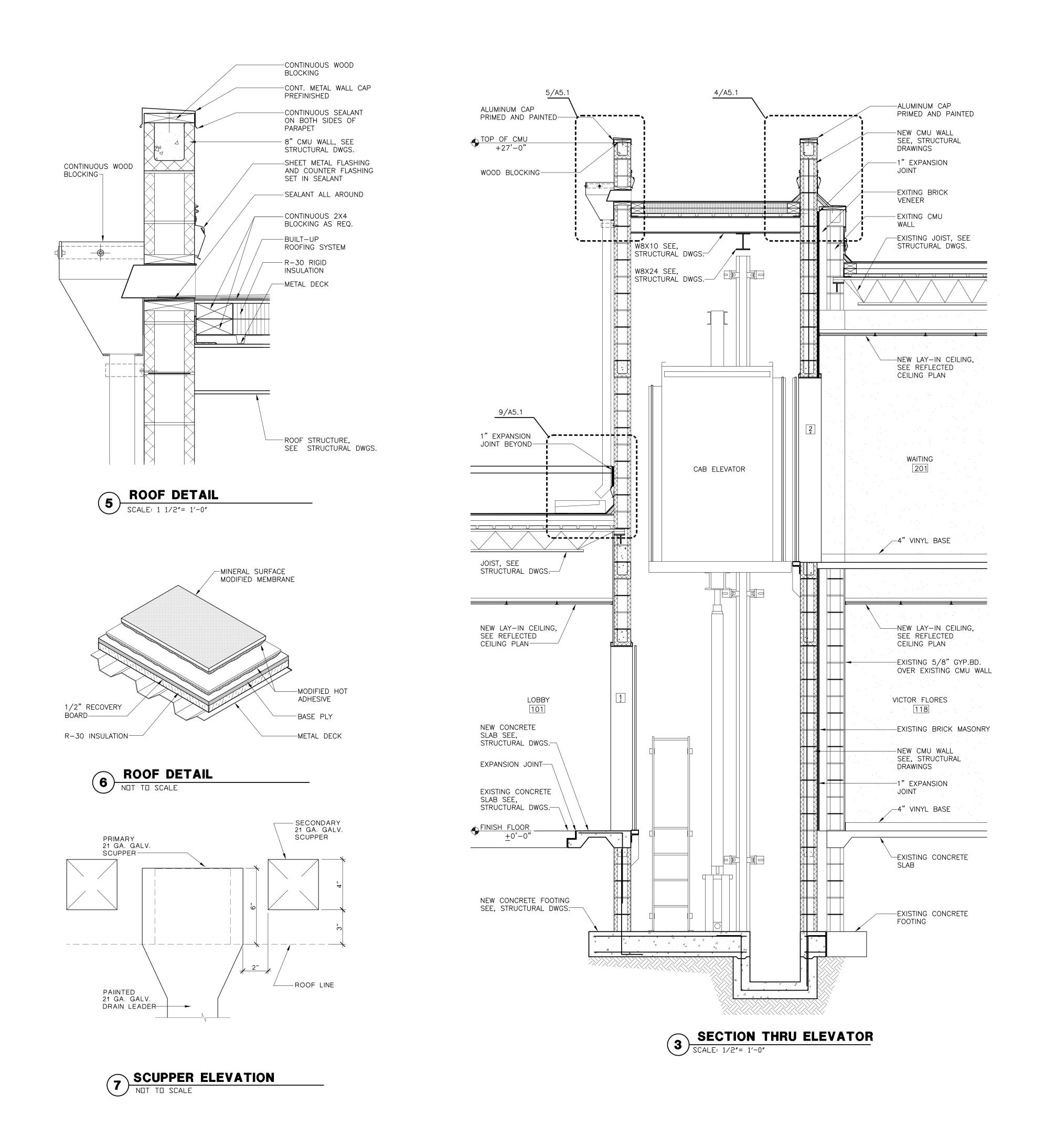


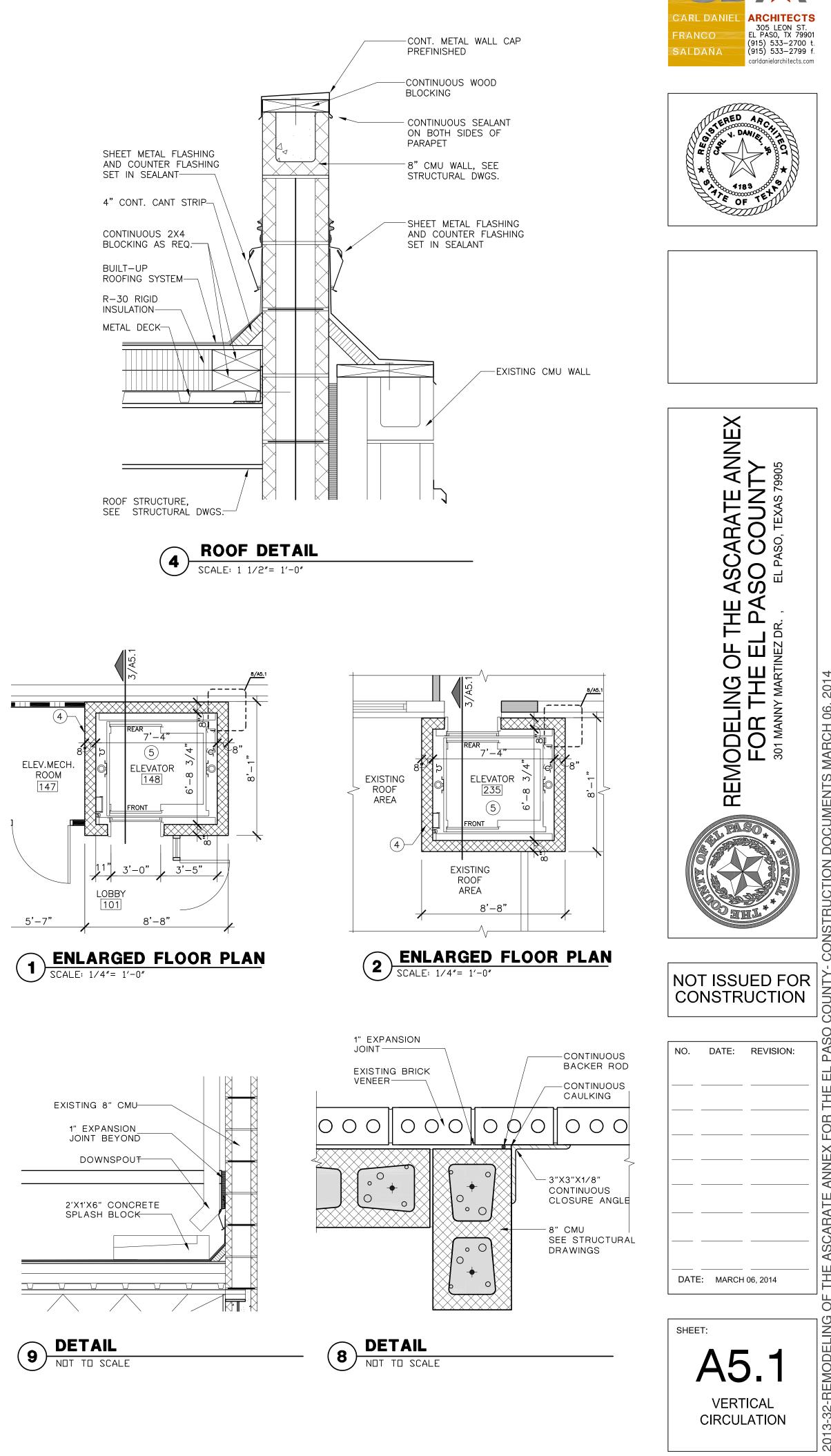
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GENERAL

- 1. ALL DETAILS ARE TYPICAL AND SHALL APPLY TO SIMILAR CONDITIONS UNLESS NOTED OTHERWISE.
- 2. THE CONTRACTOR SHALL COORDINATED THE SIZE AND LOCATIONS OF ALL HOLES AND SLEEVE THROUGH WALLS AND SLABS with Architectural, Mechanical, Plumbing, Electrical and civil drawings. All Plumbing and Mechanical PENETRATIONS THROUGH WALLS AND SLABS SHALL BE PROPERLY SLEEVED. PENETRATING FOOTINGS, BEAMS, JOISTS, OR COLUMNS IS PROHIBITED. PLUMBING AND CONDUITS SHALL NOT BE INSTALLED BELOW FOOTINGS WITHOUT PRIOR WRITTEN APPROVAL FROM STUBBS ENGINEERING, INC.
- 3. THE STRUCTURE AS SHOWN IN THESE DRAWINGS IS STABLE UNDER THE FINAL CONDITION. THE STRUCTURE IS DESIGNED FOR THE IN-SERVICE LOADS ONLY. IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO ENSURE THE STRUCTURAL STABILITY DURING CONSTRUCTION. SEQUENCE OF CONSTRUCTION, SHORING, AND MEANS AND METHODS SHALL BE DETERMINED BY THE CONTRACTOR.
- 4. NON-LOAD BEARING ELEMENTS SHALL BE CONNECTED TO THE STRUCTURE BY METHODS THAT ALLOW VERTICAL DEFLECTION OF THE STRUCTURE. ALLOWABLE DEFLECTIONS OF THE STRUCTURE SHALL BE THE MAXIMUM OF EITHER A HALF INCH OR THE STRUCTURAL SPAN DIVIDED BY 360.
- 5. NOTCHING, CUTTING OR MODIFYING STRUCTURAL ELEMENTS IN THE FIELD IS PROHIBITED.
- 6. THE CONTRACTOR SHALL VERIFY FIELD CONDITIONS AND REPORT ANY DISCREPANCIES TO THE ENGINEER.

DESIGN CRITERIA

- 1. THE STRUCTURAL DESIGN WAS COMPLETED IN ACCORDANCE WITH THE FOLLOWING CODES: IBC 2009 ASCE 7-05
- ACI 318-05 ACI 530/ASCE 5/TMS 402
- AISC 360 MANUAL OF STEEL CONSTRUCTION 13TH EDITION ANSI NORTH AMERICAN SPECIFICATION FOR THE DESIGN OF COLD-FORMED
- STEEL STRUCTURAL MEMBERS, 2001 EDITION 2. DEAD LOAD ARE CALCULATED IN ACCORDANCE WITH CHAPTER 3 OF THE ASCE 7-05.
- 3. LIVE LOADS ARE CALCULATED IN ACCORDANCE WITH CHAPTER 4 OF THE ASCE 7-05 AS FOLLOWS:

	ROOF	20 PSF
4. WIND	PRESSURES SHALL BE CALCULATED IN ACCORDANCE WITH CHAPTER 6 OF TH	e asce 7–05 as follows:
	STRUCTURAL OCCUPANCY CATEGORY	Π
	WIND VELOCITY	90 MPH
	DIRECTIONAL FACTORS (Kd)	0.85 MFRS

	DIRECTIONAL FACTORS (Kd)	0.85 MFRS
		0.85 COMPONENTS
	WIND EXPOSURE	В
	INTERNAL PRESSURE COEFFICIENT	±0.18
	IMPORTANCE FACTOR	1.00
5. SNO	W LOADS SHALL BE CALCULATED IN ACCORDANCE WITH CHAPTER 7 OF THE AS	SCE 7-05 AS FOLLOWS:
	STRUCTURAL OCCUPANCY CATEGORY	I
	GROUND SNOW (pg)	5 PSF
	EXPOSURE FACTOR (Ce)	0.90
	THERMAL FACTOR (Ct)	1.0
	IMPORTANCE FACTOR	1.00

6. SEISMIC LOADS SHALL BE CALCULATED IN ACCORDANCE WITH CHAPTER 11 AND 12 OF THE ASCE 7-05 AS FOLLOWS: STRUCTURAL OCCUPANCY CATEGORY

MAPPED MCE	Ss=0.333
	S1=0.107
SPECTRAL RESPONSE COEFFICIENT	SDs=0.341
	SD1=0.170
SITE CLASSIFICATION	D
IMPORTANCE FACTOR	1.00

SHOP DRAWINGS

SEISMIC DESIGN CATEGORY

1. THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS TO THE ARCHITECT/ENGINEER PRIOR TO FABRICATION AS REQUIRED BY The specifications and shall include at a minimum the following submittals: STRUCTURAL FILL AND EARTHWORK

STRUCTURAL STEEL
REINFORCING STEEL
CONCRETE MIX DESIGNS
MASONRY GROUT MIX DESIGN
CONCRETE MASONRY UNIT PRODUCT DATA
MASONRY TRUSS TYPE JOINT REINFORCING PRODUCT DATA
METAL DECK
Welding procedures and welding certifications
LIGHT GAGE FRAMING PRODUCT DATA
PRODUCT DATA FOR CONCRETE INSERTS
PRODUCT DATA FOR POWER ACTUATED FASTENERS
PRODUCT DATA FOR CONCRETE EXPANSION ANCHORS

2. REVIEWS BY THE ARCHITECT/ENGINEER SHALL BE FOR GENERAL CONFORMANCE TO THE PLANS AND SPECIFICATIONS ONLY. MODIFICATIONS, COMMENTS AND INFORMATION PROVIDED BY THE ARCHITECT/ENGINEER ON THE SHOP DRAWINGS DOES NOT RELIEVE THE CONTRACTOR FROM THE REQUIREMENTS OF THE PLANS AND SPECIFICATIONS

- 3. THE CONTRACTOR IS RESPONSIBLE FOR FIELD VERIFYING DIMENSIONS AT THE JOB SITE AND COORDINATING THEM WITH THE PLANS AND SPECIFICATIONS. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT / FNGINFFR
- 4. THE FABRICATION AND CONSTRUCTION PROCESS, MEANS AND METHODS OF CONSTRUCTION, AND COORDINATING ALL TRADES FOR PERFORMING THE WORK IN A SAFE AND SATISFACTORY METHOD SHALL REMAIN THE RESPONSIBILITY OF THE CONTRACTOR.
- 5. REPRODUCTION OF CONSTRUCTION DOCUMENTS AS PART OF THE SHOP DRAWINGS IS PROHIBITED. THE SHOP DRAWINGS SHALL BE INDEPENDENTLY PRODUCED DRAWINGS BASED ON THE CONSTRUCTION DOCUMENTS. USE OF ELECTRONIC FILES PRODUCED BY STUBBS ENGINEERING, INC. TO GENERATE SHOP DRAWINGS IS PROHIBITED WITHOUT PRIOR WRITTEN APPROVAL FROM STUBBS ENGINEERING, INC. IF ELECTRONIC DRAWINGS PRODUCED BY THE STUBBS ENGINEERING, INC. ARE USED IN THE PRODUCTION OF THE SHOP DRAWINGS, ANY COMPANY LOGOS, TITLE BLOCKS AND SEALS SHALL BE REMOVED FROM THE SUBMITTAL.
- 6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DELAYS DUE TO REJECTION OF INADEQUATE OR INCORRECT SHOP DRAWINGS.
- 7. SHOP DRAWINGS SUBMITTED WITHOUT PRIOR REVIEW BY THE GENERAL CONTRACTOR SHALL NOT BE REVIEWED BY THE

8. REQUESTS FOR SUBSTITUTION SHALL BE CLEARLY SHOWN ON SHOP DRAWINGS. SUBSTITUTIONS SHALL NOT BE IMPLEMENTED UNLESS SPECIFICALLY APPROVED IN WRITING BY THE ARCHITECT/ENGINEER. FOUNDATION

- 1. THE CONTRACTOR SHALL REVIEW AND BECOME FAMILIAR WITH THE SOIL, WATER AND SITE CONDITIONS DESCRIBED IN THE SOILS REPORT PRIOR TO BIDDING THE PROJECT. SOIL BORINGS AND CONDITIONS DESCRIBED IN THE SOILS REPORT ARE FOR GENERAL INFORMATION PURPOSES ONLY. THE ACTUAL CONDITIONS MAY VARY AT THE SITE.
- 2. ALL EARTHWORK AND SITE PREPARATION SHALL BE IN COMPLIANCE WITH THE GEOTECHNICAL REPORT PREPARED BY CQG TESTING & ENGINEERING LLC, DATED 12/30/13. THE GEOTECHNICAL ENGINEER'S PROJECT NUMBER IS AGCQC13-052. ADDITIONAL INFORMATION IS CONTAINED IN THE GEOTECHNICAL REPORT.
- 3. THE SITE SHALL BE PREPARED IN ACCORDANCE WITH THE GEOTECHNICAL REPORTED PROVIDE A MINIMUM ALLOWABLE BEARING PRESSURE OF 1,800 PSF. ALL EARTHWORK SHALL BE INSPECTED BY A SOILS ENGINEER TO ENSURE THE ALLOWABLE BEARING PRESSURE IS MET, THERE IS A LOW SETTLEMENT POTENTIAL AND THE ABSENCE OF EXPANSIVE
- 4. THE SITE SHALL BE OVEREXCAVATED TO ALLOW FOR A MINIMUM OF 1 FOOT OF ENGINEERED FILL BELOW ALL FOOTINGS AND A MINIMUM OF 1 FOOT OF ENGINEERED FILL BELOW ALL SLABS ON GRADE. OVEREXCAVATION SHALL EXTEND A MINIMUM OF 12 INCHES BEYOND THE EXTENT OF ALL FOOTINGS & MAT FOUNDATION SLABS.
- 5. STRUCTURAL SELECT FILL SHALL BE FREE OF ROCKS, ROOTS, VEGETABLE MATTER, CLAY CLUMPS OR ROCKS GREATER THAN 2½ INCHES IN ANY DIMENSION. STRUCTURAL SELECT FILL SHALL MEET THE FOLLOWING REQUIREMENTS: NO EXPANSIVE MATERIAL

MAXIMUM PLATICITY INDEX (ASTM	D4318):	12
GRADATION (ASTM D422):		
SIEVE SIZE	PERCENT	PASSING
21⁄2−INCH	1()0%
1¾-INCH	90-	100%
NO. 4	25-	-55%
NO. 40	15–5	50%

- 6. REMOVE ALL BRUSH, RUBBISH, AND VEGETATION MATERIAL FROM THE BUILDING PAD PRIOR TO EXCAVATION
- 7. NATIVE SOILS BELOW ENGINEERED FILL SHALL BE SCARIFIED TO A DEPTH OF 8 INCHES. THE NATIVE SOILS SHALL BE COMPACTED TO A MINIMUM DRY DENSITY OF 95% PER THE MODIFIED PROCTOR (ASTM D1557) AT A MOISTURE CONTENT of +/-3% optimum. Weak or compressible native soils identified during earthwork shall be removed and REPLACED WITH STRUCTURAL FILL PER THE REQUIREMENTS FOR STRUCTURAL FILL.
- 8. PLACE ALL STRUCTURAL FILL IN 4 INCH LOOSE LIFTS. MOISTEN TO A MOISTURE CONTENT OF +/-3% OPTIMUM MOISTURE CONTENT AND COMPACT TO A MINIMUM DENSITY OF 95% MODIFIED PROCTOR (ASTM D1557) MAXIMUM DRY DENSITY.
- 9. A VAPOR BARRIER SHALL BE PLACED BELOW ALL SLABS ON GRADE. THE MINIMUM THICKNESS SHALL BE 10 MILS. ANY HOLES IN THE VAPOR BARRIER SHALL BE PATCHED PRIOR TO PLACING CONCRETE. CONCRETE
- 1. ALL CONCRETE SHALL BE PROPORTIONED, CONSTRUCTED AND CONFORM TO THE SPECIFICATION OF ACI 301-05. CONCRETE DESIGN SHALL CONFORM TO ACL 318-05.
- 2. PORTLAND CEMENT SHALL CONFORM TO ASTM C-150, TYPE I OR II. CONCRETE IN CONTACT WITH SOIL SHALL BE TYPE II
- 3. FLY ASH SHALL NOT BE USED IN ARCHITECTURALLY EXPOSED CONCRETE, TILTWALLS OR SLABS ON GRADE. FLY ASH IS ALLOWED IN ALL OTHER NON-ARCHITECTURALLY EXPOSED CONCRETE. UP TO A MAXIMUM OF 20% OF THE CEMENT CONTENT. THE MIX DESIGN SHALL INDICATED THAT THE FLY ASH SHALL NOT ADVERSELY EFFECT THE PERFORMANCE OF OTHER PRODUCTS AND MATERIALS THAT WILL BE IN CONTACT WIT THE CONCRETE.

STRUCTURAL NOTES

CONCRETE CONTINUED 4. CONCRETE SHALL BE PROPORTIONED TO THE FOLLOWING REQUIREMENTS:

	LOCATION	f'c AT 28 DAYS	MAX SIZE AGGREGATE	SLUMP	AIR Content
	FOOTINGS	3000 PSI	1 - INCH	3 – 5 INCH	0 - 5%
[SLAB ON GRADE	4000 PSI	³ / ₄ − INCH	4 – 6 INCH	NONE

CONCRETE SHALL BE PROPORTIONED TO EXCEED 75% OF THE 28-DAY STRENGTH IN 7 DAYS.

ТҮРЕ	ASTM	yield Strength	NOTES
REBAR	A615	60 KSI	NOT WELDABLE
DEFORMED BAR ANCHORS	A496	60 KSI	WELDABLE
headed anchor studs	A108, B	70 KSI	

6. UNLESS OTHERWISE SHOWN THE CLEAR DISTANCE FOR THE FACE OF CONCRETE FORMS TO THE REINFORCING STEEL SHALL

CONDITION	CLEAR DISTANCE	NOTES
CONCRETE CAST AGAINST EARTH OR WATER	3 — INCH	excludes slabs on grade
CONCRETE CAST TO FORMS EXPOSED TO	2 - INCH	NO. 6 BAR AND LARGER
EARTH, WATER OR WEATHER	1 <u>1</u> — INCH	NO. 5 BAR AND SMALLER
CONCRETE CAST TO FORMS NOT EXPOSED TO EARTH, WATER OR WEATHER	1 - INCH	slabs and joists
	1 <mark>1</mark> - INCH	BEAMS, COLUMNS, & WALLS
	2 - INCH	FROM BOTTOM SURFACE
SLABS ON GRADE	1 <u>1</u> — INCH	FROM TROWLED SURFACE
	₹ – INCH	FROM SCREED SURFACE

7. REINFORCING DETAILING AND PLACEMENT SHALL BE IN COMPLIANCE WITH ACI 315-05.

8. UNLESS OTHERWISE NOTED SPLICING OF REINFORCING SHALL BE IN COMPLIANCE WITH THE REQUIREMENTS OF ACI 318-05 SECTIONS 12.15, 12.16 AND 12.17. ALL SPLICES SHALL BE TYPE B TENSION LAP SPLICES UNLESS NOTED OTHERWISE.

9. ALL REINFORCING STEEL IN SLABS ON GRADE SHALL BE CHAIRED AS REQUIRED TO PROVIDE REQUIRED COVER. CHAIRS SHALL BE DESIGNED TO SUPPORT REINFORCING ON SOIL. SLAB REINFORCING SHALL BE SUPPORTED ADEQUATELY TO PREVENT ACCIDENTAL DISPLACEMENT IN ACCORDANCE WITH 2009 UBC SECTION 1907.5. CHAIRS USED FOR WELDED WIRE FABRIC SHALL BE SPECIFICALLY DESIGNED FOR APPLICATION WITH WELDED WIRE FABRIC.

- 10. SIZE AND LOCATION OF EQUIPMENT SUPPORTS AND EMBEDS SHALL BE COORDINATED WITH THE EQUIPMENT SUPPLIER AND SHALL BE IN ACCORDANCE WITH APPROVED SHOP DRAWINGS.
- 11. ALL CONCRETE SHALL BE CONSOLIDATED BY VIBRATORY MEANS. CONSOLIDATIONS SHALL BE OBSERVED BY INSPECTION
- 12. CONCRETE DIMENSIONS SHOWN ON DRAWINGS ARE ACTUAL DIMENSIONS NOT NOMINAL DIMENSIONS.
- 13. ALL CONTINUOUS REINFORCING IN FOOTINGS AND WALLS SHALL EITHER BE CONTINUOUS AROUND CORNERS OR HAVE BENT CORNER BARS OF THE SAME SIZE AND SPACING AS THE HORIZONTAL BARS.
- 14. FORM TIES SHALL BE EITHER OF THE THREADED OR SNAP OFF TYPE. NO EXPOSED METAL SHALL BE ALLOWED WITHIN ONE INCH OF THE SURFACE. ALL RECESSES SHALL BE POINTED WITH MORTAR. 15. ALL DOWELS, EMBEDS AND REINFORCING BARS SHALL BE SECURELY TIED PRIOR TO PLACING CONCRETE. INSTALLATION OF
- ITEMS INTO WET CONCRETE WILL NOT BE ALLOWED. 16. All exposed concrete corners shall have a $\frac{3}{4}$ " chamfer.
- MASONRY
- 1. ALL MASONRY CONSTRUCTION SHALL CONFORM TO ACI 530/ASCE 5/TMS 402 "BUILDING CODE REQUIREMENTS FOR MASONRY STRUCTURES" AND ACI 530.1/ASCE 6/TMS 602 "SPECIFICATION FOR MASONRY STRUCTURES", LATEST EDITION.
- 2. MASONRY UNITS SHALL MEET ASTM C-90 FOR HOLLOW LOAD BEARING TYPE MASONRY WITH A UNIT STRENGTH OF 1,900 PSI ON A NET AREA (f'm = 1,500 PSI) MORTAR SHALL BE TYPE "M" OR "S" AND MEET ASTM C-270. 3. GROUT SHALL BE 2,000 PSI MINIMUM COMPRESSIVE STRENGTH AND MEET ASTM C-476 AND HAVE A SLUMP BETWEEN 8
- and 11 inches. The maximum size aggregate shall be ∦ inch.
- 4. CELLS CONTAINING REBAR SHALL BE GROUTED SOLID FROM THE BOTTOM TO THE TOP OF THE WALL IN ACCORDANCE WITH THE LOW LIFT GROUT METHOD. USE OF METHODS OTHER THAN THE LOW LIFT GROUT METHOD SHALL ONLY BE USED WITH PRIOR WRITTEN APPROVAL FROM THE ENGINEER.

NOTES

5. MASONRY REINFORCING SHALL BE AS FOLLOWS: ASTM VIELD STRENGTH

LUCATION	ASIM	HELD SIKENGIN	NUIES
Bond Beam and Vertical Reinforcing	A615-09	60 KSI	
Truss type joint reinforcing	A82-07	70 KSI	PROVIDE W1.7 WIRE IN TRUSS Configuration

TRUSS TYPE JOINT REINFORCING SHALL HAVE PREFABRICATED CORNERS OR TEES AT WALL INTERSECTIONS. 6. All horizontal reinforcing in bond beams shall be continuous at corners and intersection or use corner

- BARS. VERTICAL REINFORCING SHALL BE CONTINUOUS THROUGH BOND BEAMS. 7. CELLS TO BE GROUTED SOLID SHALL HAVE VERTICAL ALIGNMENT SUFFICIENT TO MAINTAIN A CLEAR, UNOBSTRUCTED,
- CONTINUOUSLY GROUT SPACE.
- 8. LAP REBAR 48 BAR DIAMETERS, 12 INCHES MINIMUM UNLESS NOTED OTHERWISE. LAP JOINT REINFORCING A MINIMUM
- 9. ALL MASONRY WALL CONFIGURATIONS INCLUDING OPENS SHALL BE COORDINATED WITH ARCHITECTURAL, CIVIL, MECHANICAL, PLUMBING AND ELECTRICAL DRAWINGS ALONG WITH OTHER TRADES.
- 10. ALL MASONRY BELOW GRADE AND/OR IN CONTACT WITH SOIL SHALL HAVE CELLS, VOIDS AND CAVITIES GROUTED SOLID. STRUCTURAL STEEL
- 1. THE DESIGN, FABRICATION AND ERECTION OF STRUCTURAL STEEL SHALL BE IN ACCORDANCE WITH "AISC SPECIFICATIONS FOR STRUCTURAL STEEL BUILDINGS" AND "STEEL CONSTRUCTION MANUAL" 13TH EDITION. 2. ALL STRUCTURAL STEEL SHALL CONFORM TO THE FOLLOWING SPECIFICATIONS:

	ASTM	YIELD STRENGTH
WIDE FLANGE AND WT SECTIONS	A992	50 KSI
CHANNELS AND ANGLES	A36	36 KSI
STRUCTURAL PLATE AND BARS	A36	36 KSI

3. All high strength bolts, washers and nuts shall meet the "specifications for structural joints using astm A325 OR A490 BOLTS" AND THE FOLLOWINGS:

as shown on plans	TENSION	NOTES
A325N	snug tight	THREADS INCLUDED IN PLANE
A325X	snug tight	THREADS EXCLUDED IN PLANE
ANCHOR BOLT	snug tight	ASTM F1554 GR 36

4. ALL WELDING SHALL BE PERFORMED IN ACCORDANCE WITH AMERICAN WELDING SOCIETY CODE AWS D1.1, LATEST EDITION. 5. WELDING SHALL BE PERFORMED WITH E70XX LOW HYDROGEN ELECTRODES USING SHIELDED METAL ARC WELDING (SMAW) PROCESS

- 6. ANCHOR BOLTS, ANCHOR BOLT HOLES AND PLATE WASHERS SHALL BE PROVIDED IN ACCORDANCE WITH TABLE 14-2 OF
- THE AISC MANUAL OF STEEL CONSTRUCTION, 13TH EDITION.

7. All welds not specified shall be a minimum ${\not\!\!\!\!/}_4$ " fillet welds. METAL DECK

- 1. METAL DECK SHALL BE DETAILED AND FABRICATED BY A MEMBER OF SDI AND IN ACCORDANCE WITH SDI SPECIFICATIONS.
- 2. ALL METAL DECK SHALL BE CONTINUOUS OVER A MINIMUM OF THREE SPANS UNLESS APPROVED BY ENGINEER OR SPECIFICALLY SHOWN ON THE DRAWINGS.
- 3. METAL DECK AS DESIGNATED ON THE PLANS SHALL MEET THE FOLLOWING PROPERTIES:

PAINTED SUPPORTS PERPENDICULAR T RIBS, NO 12 TEK SCREWS @ 6*0.C. TO SUPPORTS PARALL	designation on plans	Thickness In. & Finish	lx IN. ⁴	FY KSI	ATTACHMENTS
	1½" 22 ga b deck		0.192	33	NO. 12 TEK SCREWS @ 36/5 TC SUPPORTS PERPENDICULAR TO RIBS, NO 12 TEK SCREWS @ 6"O.C. TO SUPPORTS PARALLEL TO RIBS & NO. 10 TEK SCREWS @ 6"O.C. AT SIDELAPS

5. PROVIDE A MINIMUM OF $1\frac{1}{2}$ " BEARING FOR ALL STEEL DECK.

6. DECK SHALL BE SPLICED WITH A MINIMUM OF 2" LAP. SPLICES SHALL BE LOCATED AT SUPPORTS.

LIGHT GAGE FRAMING (18 GA AND HEAVIER) 1. STRUCTURAL LIGHT GAGE FRAMING SHA

Designed and constructed in accordance with the AISI "Specifications ers", 7th edition

UN PLANS S4x18GA S6x18GA S6x18GA S8x16GA T4x18GA T6x18GA S DESIGNATES STUD OR JOIS T DESIGNATES TRACK SECTION XTERIOR AND LOAD BEARING LI BRIDGING SHALL BE PER MANU ECURE ALL STUDS TO TOP AND LL WELDING OF MATERIAL LES WELDERS AND WELDING PROCED PLICING STRUCTURAL LIGHT GAGE S DESIGNATION CONCRETE EXPANSION ANCH ST INSTALLED AN L CONCRETE EXPANSION ANCH STALLED PER THE ICC-ES RE CARBON STEEL. CONCRETE EXPODUCT NSTALLED PER THE ICC-ES RE CARBON STEEL. 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1.157øx1PAF	ARE PROVIDED FOR NORMAL WEIGHT	1" 1	1" 170 LBS 225 LBS	OTHERWISE. POWER ACTUATED FASTENERS IN CONCRETE DESIGNATION MINIMUM DIAMETER MINIMUM EMBEDMENT ALLOWABLE TENSILE ALLOWABLE SHEAR LOAD	OF ICC-ES ESR-2269. FASTENERS SHALL BE APPROVED FOR SEISMIC LOADS. PRODUCT DATA SHALL BE SUBMITTE THE ENGINEER FOR APPROVAL. FASTENERS SHALL BE INSTALLED PER THE ICC-ES REPORT AND MANUFACTURES VECCOMMENDATIONS. POWER ACTUATED FASTENERS SHALL MEET THE FOLLOWING MINIMUM REQUIREMENTS UNLESS NO DTHERWISE. POWER ACTUATED FASTENERS IN CONCRETE DESIGNATION	LL MASONRY EXPANSION ANCHORS TO BE USED, SHALL HAVE AN ICC-ES REPORT IN ACCORDANCE WITH THE PRO OF ICC-ES ESR-3342. ANCHORS SHALL BE APPROVED FOR SLISMIC LOADS FOR FULLY GUITED CELLS ONLY. DATA SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL. ANCHORS SHALL BE INSTALLED PER THE ICC-ES AND MANUFACTURES RECOMMENDATIONS. MASONRY ANCHORS SHALL BE GALVANEZD. MASONRY ANCHORS SHALL APPROVED FOR HOLLOW UNREINFORCED MASONRY. MASONRY EXPANSION ANCHORS SHALL MEET THE FOLLOWING REQUIREMENTS UNLESS NOTED OTHERWISE. DESIGNATION IN MINIMUM EMBEDMENT ALLOWABLE TENSILE ALLOWABLE SHEAR LOAD "ØMEA 4½" 2,030 LBS 1495 LBS LL ADHESIVE (EPOXY) ANCHORS INTO CONCRETE SHALL HAVE AN ICC-ES REPORT, AND MEET THE REQUIREMENTS 318 APPENDIX D FOR CRACKED & UNCRACKED CONCRETE. PRODUCT DATA SHALL BE SUBMITTED TO THE ENGINE APPROVAL. ANCHORS SHALL BE INSTALLED PER THE ICC-ES REPORT AND MANUFACTURES RECOMMENDATIONS. / ANCHORS SHALL MEET THE FOLLOWING MINIMUM REQUIREMENTS UNLESS NOTED OTHERWISE. <u>2POXY EMBEDDED REBAR</u> DESIGNATION ON PLANS REBAR SIZE MINIMUM EMBEDMENT ULTIMATE TENSILE LOAD 10.4EA #5 10.5EA LL UNIMATE LOADS ARE PROVIDED FOR NORMAL WEIGHT CONCRETE AND fy = 60ksi REBAR WITH f'C = 4000psi. ALL POWER ACTUATED FASTENERS SHALL BE APPROVED FOR SESMIC LOADS. PRODUCT DATA SHALL BE SUBMIT HE ENGINEER FOR APPROVAL. FASTENERS SHALL BE APPROVED FOR SESMIC LOADS. PRODUCT DATA SHALL BE SUBMIT LL ULTIMATE LOADS ARE PROVIDED FOR NORMAL WEIGHT CONCRETE AND f'y = 60ksi REBAR WITH f'C = 4000psi. ALL POWER ACTUATED FASTENERS SHALL BE APPROVED FOR SESMIC LOADS. PRODUCT DATA SHALL BE SUBMIT HE ENGINEER FOR APPROVAL. FASTENERS SHALL BE APPROVED FOR SESMIC LOADS. PRODUCT DATA SHALL BE SUBMIT HE ENGINEER FOR APPROVAL. FASTENERS SHALL BE APPROVED FOR SESMIC LOADS. PRODUCT DATA SHALL BE SUBMIT HE ENGINEER FOR APPROVAL. FASTENERS SHALL BE APPROVED FOR SESMIC LOADS. PRODUCT DATA SHALL BE SUBMIT HE ENGINEER FOR APPROVAL. FASTENERS SHALL BE APPROVED FOR SESMIC LOADS. PRODUCT DATA SHALL BE SUBMIT HE ENGINEER FOR APPROVAL. FASTENER
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ALL ALLOWABLE LOADS ARE PRO	0.157" GREATER 0.157" MATER THICKN	GREATER THAN MATERIAL 7 THICKNESS CK ASTM A36 STEEL.	MINIMUM LENGTH ALLOWABLE TENSILE LOAD ALLOWABLE SHEL LOAD GREATER THAN MATERIAL THICKNESS 775 LBS 720 LBS * THICK ASTM A36 STEEL. THICK ASTM A36 STEEL. SCHI LINTEL BOTTOM MIDDLE	Designation on plans minimum diameter inimum diameter inimum embedment Allowable tensile load allowable shear load 1157#x1PAF 0.157" 1" 170 LBS 225 LBS 1157#x1PAF 0.157" 12" 325 LBS 420 LBS LL ALLOWABLE LOADS ARE PROVIDED FOR NORMAL WEIGHT CONCRETE WITH f'c = 4000psi. POWER ACTUATED FASTENERS IN STEEL DESIGNATION on plans MINIMUM DIAMETER MINIMUM LENGTH Allowable tensile LOAD Allowable shear LOAD 1.157#paf 0.157" GREATER THAN MATERIAL THICKNESS 775 LBS 720 LBS 1.157#paf 0.157" THICK ASTM A36 STEEL THICKNESS LI ALLOWABLE LOADS ARE PROVIDED FOR \$\frac{1}{2}\$" THICK ASTM A36 STEEL. SCHEEN	OF ICC-ES ESR-2269. FASTENERS SHALL BE APPROVED FOR SEISMIC LOADS. PRODUCT DATA SHALL BE SUBMITTE DESIGNET FOR APPROVAL. FASTENERS SHALL BE INSTALLED PER THE ICC-ES REPORT AND MANUFACTURES RECOMMENDATIONS. POWER ACTUATED FASTENERS SHALL MEET THE FOLLOWING MINIMUM REQUIREMENTS UNLESS NO OTHERWISE. OWER ACTUATED FASTENERS IN CONCRETE DESIGNATION ON PLANS MINIMUM DIAMETER MINIMUM EMBEDMENT ALLOWABLE TENSILE LOAD ALLOWABLE SHEAR LOAD 157%x1PAF 0.157" 1" 170 LBS 225 LBS 157%x12 PAF 0.157" 1½" 325 LBS 420 LBS L ALLOWABLE LOADS ARE PROVIDED FOR NORMAL WEIGHT CONCRETE WITH f'c = 4000psi. 200 WER ACTUATED FASTENERS IN STEEL ALLOWABLE SHEAR LOAD DESIGNATION ON PLANS MINIMUM DIAMETER MINIMUM LENGTH ALLOWABLE SHEAR LOAD 157%x12 PAF 0.157" 1½" 325 LBS 420 LBS 1 ALLOWABLE LOADS ARE PROVIDED FOR NORMAL WEIGHT CONCRETE WITH f'c = 4000psi. 200 WER ACTUATED FASTENERS IN STEEL ALLOWABLE SHEAR LOAD 157@PAF 0.157" GREATER THAN MATERIAL THICKNESS 720 LBS 720 LBS 1 ALLOWABLE LOADS ARE PROVIDED FOR ½" THICK ASTM A36 STEEL. SCHEEL ALLOWABLE LOADS ARE PROVIDED FOR ½" THICK ASTM A36 STEEL MARK LINTEL BOTTOM MIDDLE	LI MASONRY EXPANSION ANCHORS TO BE USED, SHALL HAVE AN ICC-ES REPORT IN ACCORDANCE WITH THE PRO OF C-ES ES-324. ANCHORS SHALL BE APPROVED FOR SEMIC LOADS FOR FULLY GROUTED CELLS ONLY. DATA SHALL BE SUBMITED TO THE ENGINEER FOR APPROVED ANCHORS SHALL BE INSTALLED PER THE ICC-ES AND MUNIFACTURES RECOMMENDATIONS. MASONRY ANCHORS SHALL BE INSTALLED PER THE ICC-ES REQUIREMENTS UNLESS NOTED OTHERWISE. DESIGNATION MINIMUM EMBEDMENT ALLOWABLE TENSILE DESIGNATION MINIMUM EMBEDMENT ALLOWABLE TENSILE IL ADHESINE (EPOXY) ANCHORS INTO CONCRETE SHALL HAVE AN ICC-ES REPORT, AND MEET THE ROUTEMENTS 11 ADHESINE (EPOXY) ANCHORS INTO CONCRETE SHALL HAVE AN ICC-ES REPORT, AND MEET THE ROUTEMENTS 31 APPENDIX DOS CRACED & MURRACKE DOROGENE. PROJUCT AND SHALL BE SUBILITED TO THE ENDINE APPROVAL ANCHORS SINTO CONCRETE SHALL HAVE AN ICC-ES REPORT, AND MEET THE ROUTEMENTS 31 APPENDIX DOS CRACED & MURRACKE DOROGENE. PROJUCT AND SHALL BE SUBILITED TO THE ENDINE APPROVAL. ANCHORS SINTO CONCRETE SHALL HAVE AN ICC-ES REPORT, AND MEET THE ROUTEMENTS. J 2POXY EMBEDDEDD REBAR DESIGNATION ON PLANS IL ADHESING SHALL BE INSTALLED PER THE ICC-ES REPORT AND MANUFACTURES RECOMMENDATIONS. J 2POXY EMBEDDEDD REBAR DESIGNATION DESIGNATION ON PLANS ILL ULIMATE LOADS ARE PROVIDED FOR NORMAL WEIGHT CONCRETE AND TA SHALL BE SUBILED ON THE ONIONE ANCHORS SHALL BE APPROVED FOR NORMAL WEIGHT CONCRETE AND TA SHALL BE SHORED WITH IF C = 4000psi. LL ULIMATE LOADS ARE PROVIDED FOR NORMAL WEIGHT CONCRETE AND TA SHALL BE SHORED WITH IF C = 4000psi. LL ULIMATE LOADS ARE PROVIDED FOR NORMAL WEIGHT CONCRETE AND THE FORSILE DESIGNATION MINIMUM DAMETER INNOVAL MEEDEMENT ALLOWABLE TENSILE ALLOWABLE SHEAR HITH ICC-ES REPORT AND MANUFACTURES RECOMMENDATIONS. POWER ACTUATED FASTENERS SHALL BE INSTALLED PER THE ICC-ES REPORT AND MANUFACTURES POWER ACTUATED FASTENERS IN CONCRETE WITH ICC-ES REPORT AND MANUFACTURES POWER ACTUATED FASTENERS SHALL BE MATALLED PER THE ICO-ES REPORT AND MANUFACTURES ALL DUMABLE LOADS ARE PROVIDED FOR NORMAL WEIGHT CONC
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all allowable loads are pro	O.157" GREATER O.157" MATER THICKN ARE PROVIDED FOR ¹ / ₄ " THICK ASTM MARK LINTEL	GREATER THAN MATERIAL 7 THICKNESS CK ASTM A36 STEEL. NTEL BC EPTH R	MINIMUM LENGTH ALLOWABLE TENSILE LOAD ALLOWABLE SHEL LOAD GREATER THAN MATERIAL THICKNESS 775 LBS 720 LBS * THICK ASTM A36 STEEL THICKNESS STEEL LINTEL DEPTH BOTTOM REINF. MIDDLE REINF.	Designation on plans minimum diameter inimum diameter inimum embedment Allowable tensile load allowable shear load 1157\$ 1" 170 LBS 225 LBS 1157\$ 1" 170 LBS 225 LBS 1157\$ 1" 170 LBS 225 LBS 1157\$ 12" 325 LBS 420 LBS 11 Allowable loads are provided for normal weight concrete with t'c = 4000psi. POWER ACTUATED FASTENERS IN STEEL DESIGNATION on Plans MINIMUM DIAMETER MINIMUM LENGTH Allowable tensile LOAD Allowable shear LOAD 1.157\$ GREATER THAN MATERIAL THICKNESS 775 LBS 720 LBS 1.157\$ GREATER THAN MATERIAL THICKNESS 775 LBS 720 LBS 1.157\$ MARK LINTEL BOTTOM MIDDLE REINF.	DESIGNATION ON PLANS MINIMUM DIAMETER MINIMUM LENGTH ALLOWABLE TENSILE ALLOWABLE SHEAL BE INSTALLED FASTENERS DESIGNATION ON PLANS MINIMUM DIAMETER MINIMUM EMBEDMENT ALLOWABLE TENSILE LOAD ALLOWABLE SHEAR LOAD 1570x1PAF 0.157" 1" 170 LBS 225 LBS 1570x1PAF 0.157" 12" 325 LBS 420 LBS L ALLOWABLE LOADS ARE PROVIDED FOR NORMAL WEIGHT CONCRETE WITH f'c = 4000psi. 200 WER ACTUATED FASTENERS IN STEEL ALLOWABLE SHEAR LOAD DESIGNATION ON PLANS MINIMUM DIAMETER MINIMUM LENGTH ALLOWABLE SHEAR LOAD 1570x1PAF 0.157" 12" 325 LBS 420 LBS L ALLOWABLE LOADS ARE PROVIDED FOR NORMAL WEIGHT CONCRETE WITH f'c = 4000psi. 200 LBS 200 LBS 1570pAF 0.157" MINIMUM LENGTH ALLOWABLE SHEAR LOAD 1570pAF 0.157" MINIMUM LENGTH ALLOWABLE SHEAR LOAD 1570pAF 0.157" GREATER THAN MATERIAL THICKNESS 775 LBS 720 LBS 1 ALLOWABLE LOADS ARE PROVIDED FOR 1" THICK ASTM A36 STEEL MARK LINTEL BOTTOM REINF. MINIDLE REINF.	LI MASONRY EXPANSION ANCHORS TO BE USED, SHALL HAVE AN ICC-ES REPORT IN ACCORDANCE WITH THE PRO OF CO-ES ESC-332- ANCHORS SHALL BE APPROVED FOR SEMIC LOADS FOR FULLY GROUTED CELLS ONLY. DATA SHALL BE SUBATTED TO THE ENGINEER FOR APPROVED ANCHORS SHALL BE INSTALLED PER THE ICC-ES AND MUNIFACTIVES RECOMMENDATIONS. MASONRY ANCHORS SHALL BE INSTALLED PER THE TOLOWING REQUIREMENTS UNLESS NOTED OTHERWISE. DESIGNATION MINIMUM EMBEDMENT ALLOWAGE TENSILE ALLOWAGE TENSILE DESIGNATION MINIMUM EMBEDMENT ALLOWAGE TENSILE IL ADHESNE (EPOXY) ANCHORS INTO CONCRETE SHALL HAVE AN ICC-ES REPORT, AND MEET THE ROUTEMENTS 11 ADHESNE (EPOXY) ANCHORS INTO CONCRETE SHALL HAVE AN ICC-ES REPORT, AND MEET THE ROUTEMENTS 13 APPROX DO FOR CRACED & MURRACKE DOCONCELE PRODUCT DATA SHALL BE SUBILTED TO THE ENDINE APPROVAL ANCHORS SINTO CONCRETE SHALL HAVE AN ICC-ES REPORT, AND MEET THE ROUTEMENTS 13 APPRONX DO FOR CRACED & MURRACKE DOCONCELE PRODUCT DATA SHALL BE SUBTED TO THE FORM APPROVAL ANCHORS SHALL BE INSTALLED PER THE ICC-ES REPORT AND MANUFACTURES RECOMMENDATIONS. J ADCHORS SHALL MEET THE FOLLOWING MINIMUM REQUREMENTS UNLESS NOTED OTHERWISE. SPOXY EMBEDDEDD REBAR DESIGNATION ON PLANS IL ULIMATE LOADS ARE PROVIDED FOR NORMAL WEIGHT CONCRETE AND IS 14, ABLE SUBMITED TO THE PROVIDE ANCHORS SHALL BE ASTENEDES SHALL BE APPROVED FOR SEISME LOADS. PRODUCT DATA SHALL BE SUBMIT IL ULIMATE LOADS ARE PROVIDED FOR NORMAL WEIGHT CONCRETE AND IS 7, 27,900 LBS ILL ULIMATE LOADS ARE PROVIDED FOR NORMAL WEIGHT CONCRETE AND IS 7, 40000, TATA SHALL BE SUBMIT ILL OWNER ACTUATED FASTENERS SHALL BE APPROVED FOR SEISME LOADS. PRODUCT DATA SHALL BE SUBMIT ILL ADMARE LOADS ARE PROVIDED FOR NORMAL WEIGHT CONCRETE WITH IS CASES AND MANUFACTURES POWER ACTUATED FASTENERS IN CONCRETE WITH IS ALL BEADEN ILL ALLOWAGE LOADS ARE PROVIDED FOR NORMAL WEIGHT CONCRETE WITH IS CASES AND AND MANUFACTURES POWER ACTUATED FASTENERS IN STEEL DESIGNATION ON PLANS ILLADWARE LOADS ARE PROVIDED FOR NORMAL WEIGHT CONCRETE WITH IS CASES AND AND MANUFACTURE
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ON PLANS MINIMU "#CEA	MINIMUM EMBEDMENT 31" DN ANCHORS TO BE USED, SHALL HARLING ANCHORS SHALL BE APPROVED F ITTED TO THE ENGINEER FOR APPROVE RECOMMENDATIONS. MASONRY ANCHOW WUNREINFORCED MASONRY. MASON S NOTED OTHERWISE. MINIMUM EMBEDMENT 4½" ANCHORS INTO CONCRETE SHALL HARLING CRACKED & UNCRACKED CONCRETE SHALL BE INSTALLED PER THE ICC- THE FOLLOWING MINIMUM REQUIREM DDED REBAR #4 #5 REBAR SIZE #44 #5 REBAR SIZE #4 #5 RE PROVIDED FOR NORMAL WEIGHT OF FASTENERS TO BE USED, SHALL BE INS POWER ACTUATED FASTENERS SHALL BE INS POWER ACTUATED FASTENERS IN MINIMUM DIAMETER MINIMUM EI 0.157" 1 ¹ / ₂ 0.157" 1 ¹ / ₂ ARE PROVIDED FOR NORMAL WEIGHT	TENSILE LOAD	TENSILE LOAD SHEAR LOAD 3,239 LBS 3,685 LBS ED, SHALL HAVE AN ICC-ES REPORT IN ACCORDANCE WITH THE PR APPROVED FOR SEISMIC LOADS FOR FULLY GROUTED CELLS ONLY. POR APPROVAL. ANCHORS SHALL BE INSTALLED PER THE ICC-ES SONRY ANCHORS SHALL BE GALVANIZED. MASONRY ANCHORS SHALL DIRY. MASONRY EXPANSION ANCHORS SHALL MEET THE FOLLOWING ALLOWABLE TENSILE LOAD ALLOWABLE SHEAR LOAD 2,030 LBS 1495 LBS ETE SHALL HAVE AN ICC-ES REPORT, AND MEET THE REQUIREMENTS ED CONCRETE. PRODUCT DATA SHALL BE SUBMITTED TO THE ENGIN PER THE ICC-ES REPORT AND MANUFACTURES RECOMMENDATIONS. UM REQUIREMENTS UNLESS NOTED OTHERWISE. E MINIMUM EMBEDMENT ULTIMATE TENSILE LOAD 6" 18,000 LBS 72" 27,900 LBS MAL WEIGHT CONCRETE AND f'Y = 60ksi REBAR WITH f'C = 4000ps SHALL HAVE AN ICC-ES REPORT IN ACCORDANCE WITH THE PR MAL WEIGHT CONCRETE AND f'Y = 60ksi REBAR WITH f'C = 4000ps ED, SHALL HAVE AN ICC-ES REPORT IN ACCORDANCE WITH THE PR MAL WEIGHT CONCRETE AND f'Y = 60ksi REBAR WITH f'C = 4000ps SHALL HAVE AN ICC-ES REPORT IN ACCORDANCE WITH THE PR MAL WEIGHT CONCRETE AND f'Y = 60ksi REBAR WITH f'C = 4000ps EXAMPROVED FOR SEISMIC LOADS. PRODUCT DATA SHALL BE SUBM SHALL BE INSTALLED PER THE ICC-ES REPORT AND MANUFACTURES NERS SHALL MEET THE FOLLOWING MINIMUM REQUIREMENTS UNLESS ERS IN CONCRETE ALLOWABLE TENSILE ALLOWABLE SHEAR	ON PLANS MINIMUM EMBEDMENT TENSILE LOAD SHEAR LOAD "WCEA 31" 3,239 LBS 3,685 LBS LL MASONRY EXPANSION ANCHORS TO BE USED, SHALL HAVE AN ICC-ES REPORT IN ACCORDANCE WITH THE PROVIS OF ICC-ES ESR-3342. ANCHORS SHALL BE APPROVED FOR SEISMIC LOADS FOR FULLY GROUTED CELLS ONLY. PP DATA SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL. ANCHORS SHALL BE INSTALLED PER THE ICC-ES REI AND MANUFACTURES RECOMMENDATIONS. MASONRY ANCHORS SHALL BE GALVANIZED. MASONRY ANCHORS SHALL BE APPROVED FOR HOLLOW UNREINFORCED MASONRY. MASONRY EXPANSION ANCHORS SHALL BE THE FOLLOWING MIN REQUIREMENTS UNLESS NOTED OTHERWISE. DESIGNATION ON PLANS MINIMUM EMBEDMENT ALLOWABLE TENSILE LOAD ALLOWABLE SHEAR LOAD "ØMEA 4½" 2,030 LBS 1495 LBS LL ADHESIVE (EPOXY) ANCHORS INTO CONCRETE SHALL HAVE AN ICC-ES REPORT, AND MEET THE REQUIREMENTS OF 318 APPENDIX D FOR CRACKED & UNCRACKED CONCRETE. PRODUCT DATA SHALL BE SUBMITTED TO THE ENGINEER APPROVAL. ANCHORS SHALL BE INSTALLED PER THE ICC-ES REPORT AND MANUFACTURES RECOMMENDATIONS. ADH ANCHORS SHALL MEET THE FOLLOWING MINIMUM REQUIREMENTS UNLESS NOTED OTHERWISE. ZPOXY EMBEDDED REBAR MINIMUM EMBEDMENT ULTIMATE TENSILE LOAD DESIGNATION ON PLANS REBAR SIZE MINIMUM EMBEDMENT ULTIMATE TENSILE LOAD 10.4EA #4 6" 18,000 LBS 18,000 LBS	ON PLANS MINIMUM EMBEDMENT TENSILE LOAD SHEAR LOAD ØCEA 34" 3,239 LBS 3,685 LBS L MASONRY EXPANSION ANCHORS TO BE USED, SHALL HAVE AN ICC-ES REPORT IN ACCORDANCE WITH THE PROVIS DF ICC-ES ESR-3342. ANCHORS SHALL BE APPROVED FOR SEISMIC LOADS FOR FULLY GROUTED CELLS ONLY. PR DATA SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL. ANCHORS SHALL BE INSTALLED PER THE ICC-ES REPORT HOLLOW UNREINFORCED MASONRY ANCHORS SHALL BE GALVANIZED. MASONRY ANCHORS SHALL BE PAPPROVED FOR HOLLOW UNREINFORCED MASONRY. MASONRY EXPANSION ANCHORS SHALL MEET THE FOLLOWING MIN REQUIREMENTS UNLESS NOTED OTHERWISE. DESIGNATION ON PLANS MINIMUM EMBEDMENT ALLOWABLE TENSILE LOAD ALLOWABLE SHEAR LOAD ØMEA 4½" 2,030 LBS 1495 LBS L ADHESIVE (EPOXY) ANCHORS INTO CONCRETE SHALL HAVE AN ICC-ES REPORT, AND MEET THE REQUIREMENTS OF S18 APPENDIX D FOR CRACKED & UNCRACKED CONCRETE. PRODUCT DATA SHALL BE SUBMITTED TO THE ENGINEER APPROVAL. ANCHORS SHALL BE INSTALLED PER THE ICC-ES REPORT AND MANUFACTURES RECOMMENDATIONS. ADH INCHORS SHALL MEET THE FOLLOWING MINIMUM REQUIREMENTS UNLESS NOTED OTHERWISE. 2POXY EMBEDDED REBAR MINIMUM EMBEDMENT ULTIMATE TENSILE LOAD DATA REBAR SIZE MINIMUM EMBEDMENT ULTIMATE TENSILE LOAD D.4EA #4 6" 18,000 LBS	CARBON STEEL. CONCRETE EXPANSION ANCHORS SHALL MEET THE FOLLOWING MINIMUM REQUIREMENTS UNLESS NO OTHERWISE.

2-VERT. BARS @ 8" O.C. TO -MATCH TYP. VERT. WALL REINF.

TRUSS	TYPE	JOINT	REINF.
@ 16"	0.C.		

WITH THE FOLLOWING SCHEDULE:

ALLOWABLE TENSILE ALLOWABLE SHEAR LOAD LOAD 2.030 LBS 1495 LBS SHALL HAVE AN ICC-ES REPORT, AND MEET THE REQUIREMENTS OF ACI CONCRETE. PRODUCT DATA SHALL BE SUBMITTED TO THE ENGINEER FOR R THE ICC-ES REPORT AND MANUFACTURES RECOMMENDATIONS. ADHESIVE REQUIREMENTS UNLESS NOTED OTHERWISE. MINIMUM EMBEDMENT ultimate tensile load 6" 18,000 LBS 7<mark>1</mark>" 27,900 LBS . WEIGHT CONCRETE AND f'y = 60ksi REBAR WITH f'c = 4000psi. , SHALL HAVE AN ICC-ES REPORT IN ACCORDANCE WITH THE PROVISIONS APPROVED FOR SEISMIC LOADS. PRODUCT DATA SHALL BE SUBMITTED TO HALL BE INSTALLED PER THE ICC-ES REPORT AND MANUFACTURES ers shall meet the following minimum requirements unless noted ERS IN CONCRETE VINIMUM EMBEDMENT ALLOWABLE TENSILE ALLOWABLE SHEAR LO. LOAD | X | WEATHER CONCRETING AND FIELD CURE. 170 LBS 225 LBS 325 LBS 420 LBS RMAL WEIGHT CONCRETE WITH f'c = 4000psi. ERS IN STEEL ALLOWABLE TENSILE | ALLOWABLE SHEAR MINIMUM LENGTH LOAD LOAD GREATER THAN 775 LBS MATERIAL 720 LBS THICKNESS EXTEND LINTEL A MIN. OF 24"-BEYOND OPENING EACH SIDE THICK ASTM A36 STEEL LINTEL SCHEDULE LINTEL BOTTOM MIDDLE TOP SHEAR REINF. REINF. REINF. REINF. DEPTH 2-#5 ------

SCALE: 1 1/2"=1'-0

FICATIO	N OF SC	ILS
continuous during task listed	Periodically During Task Listed	ibc Reference
	Х	1704.7
	Х	1704.7
	х	1704.7
х		1704.7
	Х	1704.7
	Continuous During task Listed	DURING TASK LISTED X X X X X

STRUCTURAL INSPECTION AND TESTING

4. Duties and responsibilities of the special inspector:

OFFICIAL IN A TIMELY MANNER.

IS IN ACCORDANCE WITH THE APPROVED PLANS AND SPECIFICATIONS.

ENGINEER. ARCHITECT AND BUILDING OFFICIAL SHALL BE NOTIFIED.

TESTING REQUIREMENTS.

1. STRUCTURAL INSPECTIONS SHALL BE PROVIDED IN ACCORDANCE WITH CHAPTER 17 OF THE 2009 IBC.

ACCORDANCE WITH THE SPECIFICATIONS, BUILDING CODE AND THE SPECIAL INSPECTION SCHEDULES.

2. IT IS THE GENERAL CONTRACTORS RESPONSIBILITY TO SCHEDULE AND COORDINATE THE PERFORMANCE OF INSPECTIONS AND TESTING IN

3. SPECIAL INSPECTION AND TESTING SHALL BE PERFORMED BY A QUALIFIED PERSON OR AGENCY THAT IS APPROVED BY THE BUILDING

OFFICIAL. INSPECTIONS PROVIDED BY LOCAL BUILDING OFFICIALS SHALL NOT BE CONSIDERED A SUBSTITUTION FOR SPECIAL INSPECTIONS OR

A. THE SPECIAL INSPECTOR SHALL INSPECT THE WORK AS REQUIRED BY THE SPECIAL INSPECTION SCHEDULES TO ENSURE THAT THE WORK

SHALL IMPLEMENT A TIMELY PLAN TO CORRECT ANY DISCREPANCIES. IN THE EVENT THE DISCREPANCIES ARE NOT CORRECTED, THE

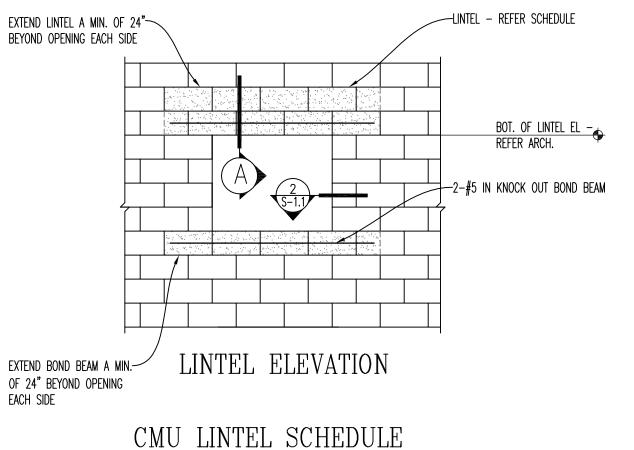
C. THE SPECIAL INSPECTOR SHALL PROVIDE INSPECTION REPORTS TO THE GENERAL CONTRACTOR, ARCHITECT, ENGINEER AND THE BUILDING

B. ALL DISCREPANCIES SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE GENERAL CONTRACTOR. THE GENERAL CONTRACTOR

SPECIAL IN OF C	ISPECTI ONCRET	ON AND E CONS) VERIFICA TRUCTION	TION
	FREQUI OF INSP		REFERENC	e for criteria
VERIFICATION AND INSPECTION TASK	Continuous During Task Listed	Periodically During Task Listed	IBC Section	REFERENCED Standard
1. INSPECTION OF REINFORCING STEEL AND PLACEMENT.		x		ACI 318: 3.5, 7.1–7.7
2. INSPECTION OF REINFORCING STEEL WELDING IN ACCORDANCE WITH TABLE 1704.3, ITEM 5b.				AWS D1.4 ACI 318: 3.5.2
3. INSPECTION OF BOLTS TO BE INSTALLED IN CONCRETE PRIOR TO AND DURING PLACEMENT OF CONCRETE WHERE ALLOWABLE LOADS HAVE BEEN INCREASED OR WHERE STRENGTH DESIGN IS USED.	x		1911.5, 1912.1	ACI 318: 8.1.3, 21.2.8
4. INSPECTION OF ANCHORS INSTALLED IN HARDENED CONCRETE.		x	1912.1	ACI 318: 3.8.6, 8.1.3, 21.2.8
5. VERIFYING USE OF REQUIRED DESIGN MIX.		x	1904.3, 1913.2, 1913.3	ACI 318: CH. 4, 5.2, 5.4
6. CONCRETE SHALL BE SAMPLED BY MAKING ONE (1) SET OF FOUR (4) CYLINDERS FOR EVERY 75 CUBIC YARDS OR LESS OF ANY CLASS OF CONCRETE PLACED OR FOR EVERY 5,000sf OF SLAB PLACED EACH DAY, FOR STRENGTH ZESTS. PERFORM SLUMP AND AIR CONTENT TESTS AND DETERMINE THE TEMPERATURE OF THE CONCRETE.	x		1913.10	ASTM C172 ASTM C31 ASTM C143 ASTM C173 ASTM C1064 ACI 318: 5.6, 5.8
7. INSPECTION OF CONCRETE AND SHOTCRETE PLACEMENT FOR PROPER APPLICATION TECHNIQUES.	х		1913.6, 1913.7, 1913.8	ACI 318: 5.9, 5.10
8. INSPECTION FOR MAINTENANCE OF SPECIFIED CURING TEMPERATURE AND TECHNIQUES.		x	1913.9	ACI 318: 5.11-5.13
9. INSPECT FORMWORK FOR SHAPE, LOCATION AND DIMENSIONS OF THE CONCRETE MEMBER BEING FORMED.		x		ACI 318: 6.1.1
10. MAKE ONE ADDITIONAL CYLINDER DURING COLD WEATHER CONCRETING AND FIELD CURE.	x			ASTM C31

		· · · -	VERIFICA TRUCTION	TION	
	FREQU OF INSP		REFERENC	e for criteria	
TASK	Continuous During Task Listed	Periodically During Task Listed	IBC Section	REFERENCED STANDARD	
AND		х		ACI 318: 3.5, 7.1–7.7	6.
WELDING IN 56.				AWS D1.4 ACI 318: 3.5.2	 V

Verification and inspection task		UENCY PECTION	
VERIFICATION AND INSPECTION LASK	Continuous During Task Listed	Periodically During Task Listed	SE
1. COMPLIANCE WITH REQUIRED INSPECTION PROVISIONS OF THE CONSTRUCTION DOCUMENTS AND THE APPROVED SUBMITTALS SHALL BE VERIFIED.		x	
2. VERIFICATION OF <i>f1</i> AND <i>f1</i> CRIOR TO CONSTRUCTION EXCEPT WHERE SPECIFICALLY EXEMPTED BY THIS CODE.		x	
3. Verification of slump flow and vsi as delivered to the site for self-consolidating grout.	X		
4. As masonry construction begins, the following shall be verified to ensure compliance:			
a. PROPORTIONS OF SITE-PREPARED MORTAR.		x	
b. Construction of mortar joints.		х	
c. Location of reinforcement, connectors, and anchorages.		Х	
5. DURING CONSTRUCTION THE INSPECTION PROGRAM SHALL VERIFY:			
a. SIZE AND LOCATION OF STRUCTURAL ELEMENTS.		х	
b. TYPE, SIZE AND LOCATION OF ANCHORS, INCLUDING OTHER DETAILS OF ANCHORAGE OF MASONRY TO STRUCTURAL MEMBERS, FRAMES OR OTHER CONSTRUCTION.		x	
c. SPECIFIED SIZE, GRADE AND TYPE OF REINFORCEMENT, ANCHOR BOLTS, AND ANCHORAGES.		x	
d. WELDING OF REINFORCING BARS.	x		
e. PREPARATION, CONSTRUCTION AND PROTECTION OF MASONRY DURING COLD WEATHER (TEMPERATURE BELOW 40'F) OR HOT WEATHER (TEMPERATURE ABOVE 90'F).		x	SEC. 2
6. PRIOR TO GROUTING, THE FOLLOWING SHALL BE VERIFIED TO ENSURE COMPLIANCE:			
a. GROUT SPACE IS CLEAN.		x	
b. PLACEMENT OF REINFORCEMENT, CONNECTORS AND ANCHORAGES.		Х	
c. PROPORTIONS OF SITE-PREPARED GROUT		х	
d. Construction of mortar joints.		х	
7. GROUT PLACEMENT SHALL BE VERIFIED TO ENSURE COMPLIANCE:	х		
8. PREPARATION OF ANY REQUIRED GROUT SPECIMENS, MORTAR SPECIMENS AND/OR PRISMS SHALL BE		x	SEC. 2

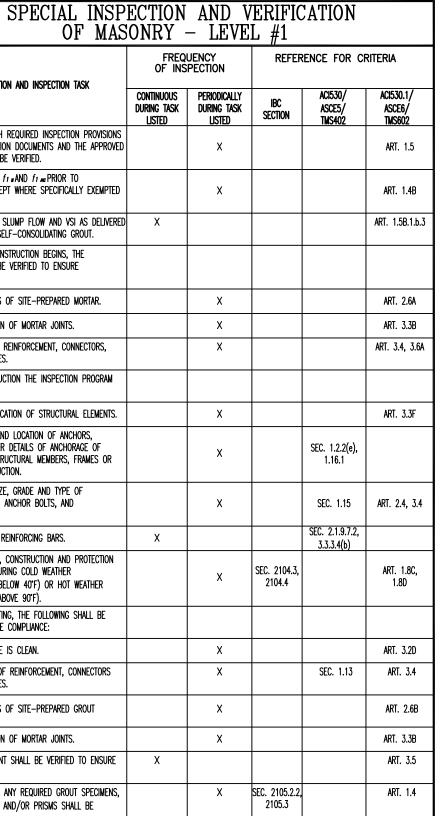


OBSERVED.

2-VERT. BARS @ 8" O.C. TO MATCH-3-VERT. BARS TO -PREFORMED RUBBER JOINT FILLER -GROUT ALL REINF. CELLS SOLID. TYP. VERT. WALL REINF. EACH SIDE MATCH TYP. VERT. OF CONTROL JOINT WALL REINF. TRUSS TYPE JOINT TRUSS TYPE JOINT REINF. @ 16" O.C. -GROUT ALL REINF. CELLS SOLID. REINF. @ 16" O.C. PROVIDE PREFORMED CORNER PIECES TYPICAL MASONRY CONTROL JOINT TYPICAL WALL JAMB

QUALITY ASSURANCE PLAN

SCALE: 1 1/2"=1'-0"



	FREQUE		REFERENCE FOR CRITERIA		
VERIFICATION AND INSPECTION TASK	OF INSPE Continuous During Task Listed	CTION PERIODICALLY DURING TASK LISTED	IBC Section	REFERENCED STANDARD	
i. Material verification of high- strength bolts, nuts and washers:					
 d. Identification markings to conform to astm standards specified in the approved construction documents. 		x		APPLICABLE ASTM MATERIAL SPECIFICATIONS; AISC 360 SECTION A3.3	
b. MANUFACTURER'S CERTIFICATE OF COMPLIANCE REQUIRED.		x			
2. Inspection of High-strength Bolting:					
a. SNUG-TIGHT JOINTS		X	1704.3.3	AISC 360 SECTION M2.5	
3. MATERIAL VERIFICATION OF STRUCTURAL STEEL					
a. FOR STRUCTURAL STEEL, IDENTIFICATION MARKINGS TO CONFORM TO AISC 360.		x		AISC 360 SECTION M2.5	
b. FOR OTHER STEEL, IDENTIFICATION MARKINGS TO CONFORM TO ASTM STANDARDS SPECIFIED IN THE APPROVED CONSTRUCTION DOCUMENTS.		x		APPLICABLE ASTM MATERIAL SPECIFICATIONS	
c. MANUFACTURER'S CERTIFIED TEST REPORTS.		х			
4. MATERIAL VERIFICATION OF WELD FILLER MATERIALS:					
 Dentification markings to conform to aws specification in the approved construction documents. 		x		AISC 360 SECTION A3.5 AND APPLICABLE AWS A5 DOCUMENTS	
b. MANUFACTURER'S CERTIFICATE OF COMPLIANCE REQUIRED.		x			
5. Inspection of Welding:					
a. STRUCTURAL STEEL					
1) SINGLE-PASS FILLET WELDS \leq 5/16"		х	1704.3.1	AWS D1.1	
b. REINFORCING STEEL:					
1) verification of weldability of Reinforcing steel other than astm a 706.		x		AWS D1.4	
2) SHEAR REINFORCEMENT.	х			ACI 318 3.5.2	
3) OTHER REINFORCING STEEL.		х			
5. INSPECTION OF STEEL FRAME JOINT DETAIL FOR COMPLIANCE WITH APPROVED CONSTRUCTION DOCUMENTS:					
a. Details such as bracing and stiffening.		Х			
b. MEMBER LOCATIONS.		X	1704.3.2		
c. APPLICATION OF JOINT DETAILS AT EACH CONNECTION.		X			



ARCHITECT

915) 533–2700

915) 533-2799

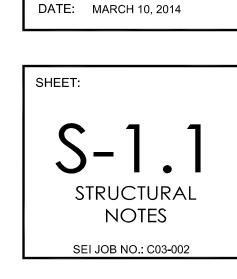
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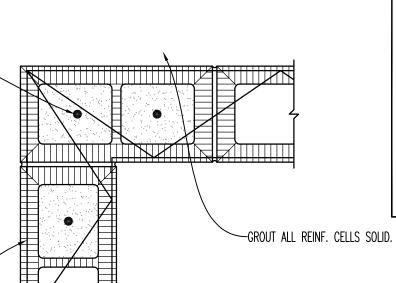
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SALDAÑA



-TOP LINTEL REINF. REFER SCH. 'SHEAR REINF. W/ STD. 180' HOOKS - REFER SCH. -MIDDLE LINTEL REINF. REFER SCH. -Bottom Lintel Reinf. REFER SCH. DETAIL A SCALE:N.T.S.

읤딩



ABBREVIATIONS ARCHITECTURAL BUILDING BOTTOM BEARING Control Joint CENTERLINE CONCRETE EXPANSION ANCHOR CONCRETE CONTINUOU: COORDINATE DOUBLE EXPOXY ANCHOR ELEVATION FINISH HEADED ANCHOR STUD FOOTING HORIZONTA MASONRY CONTROL JOINT MANUFACTURE NOT TO SCALE PLATE REFERENCE REINFORCE, REINFORCEMENT schedu STANDARD STRUCTURAL TYPICAL BOTTOM OF FOOTING

SI

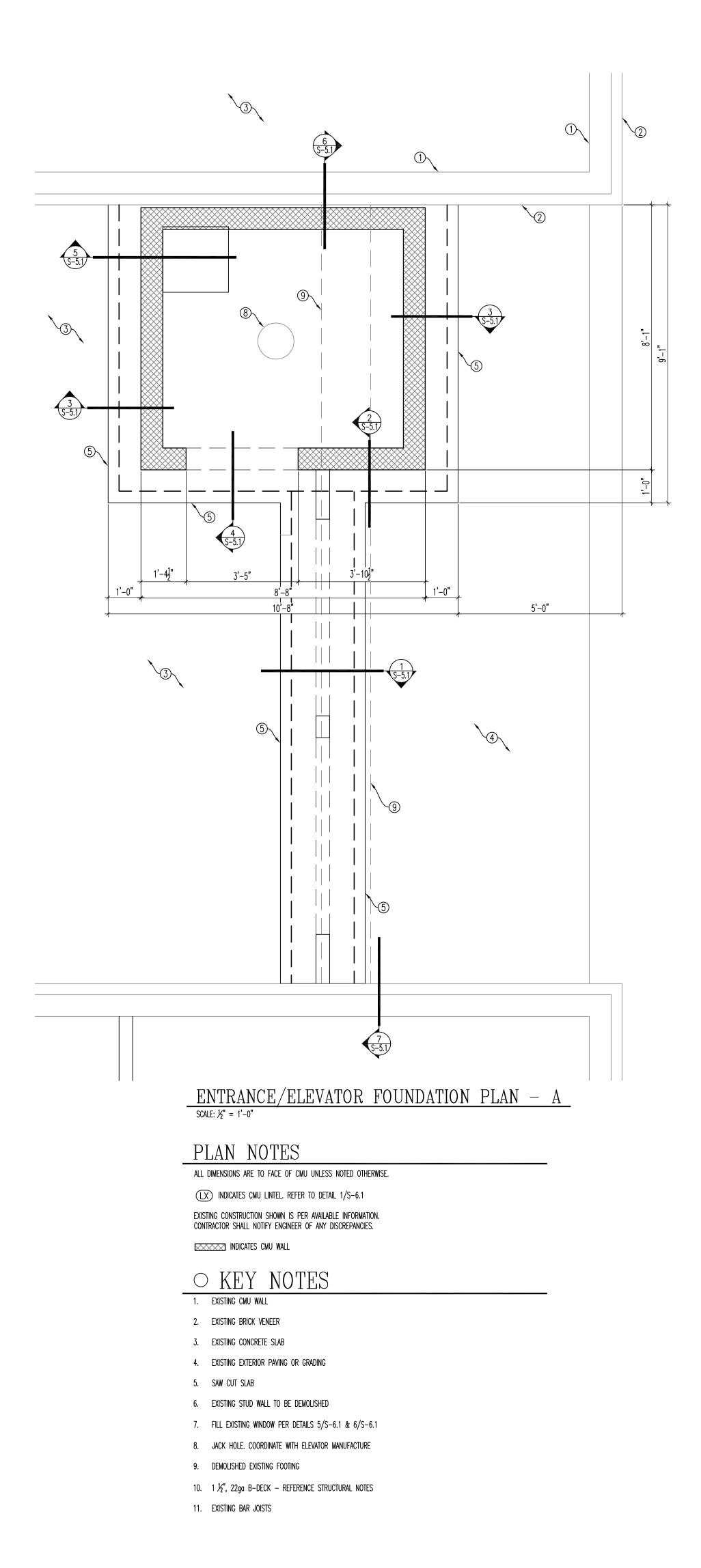
TYPICAL WALL CORNER

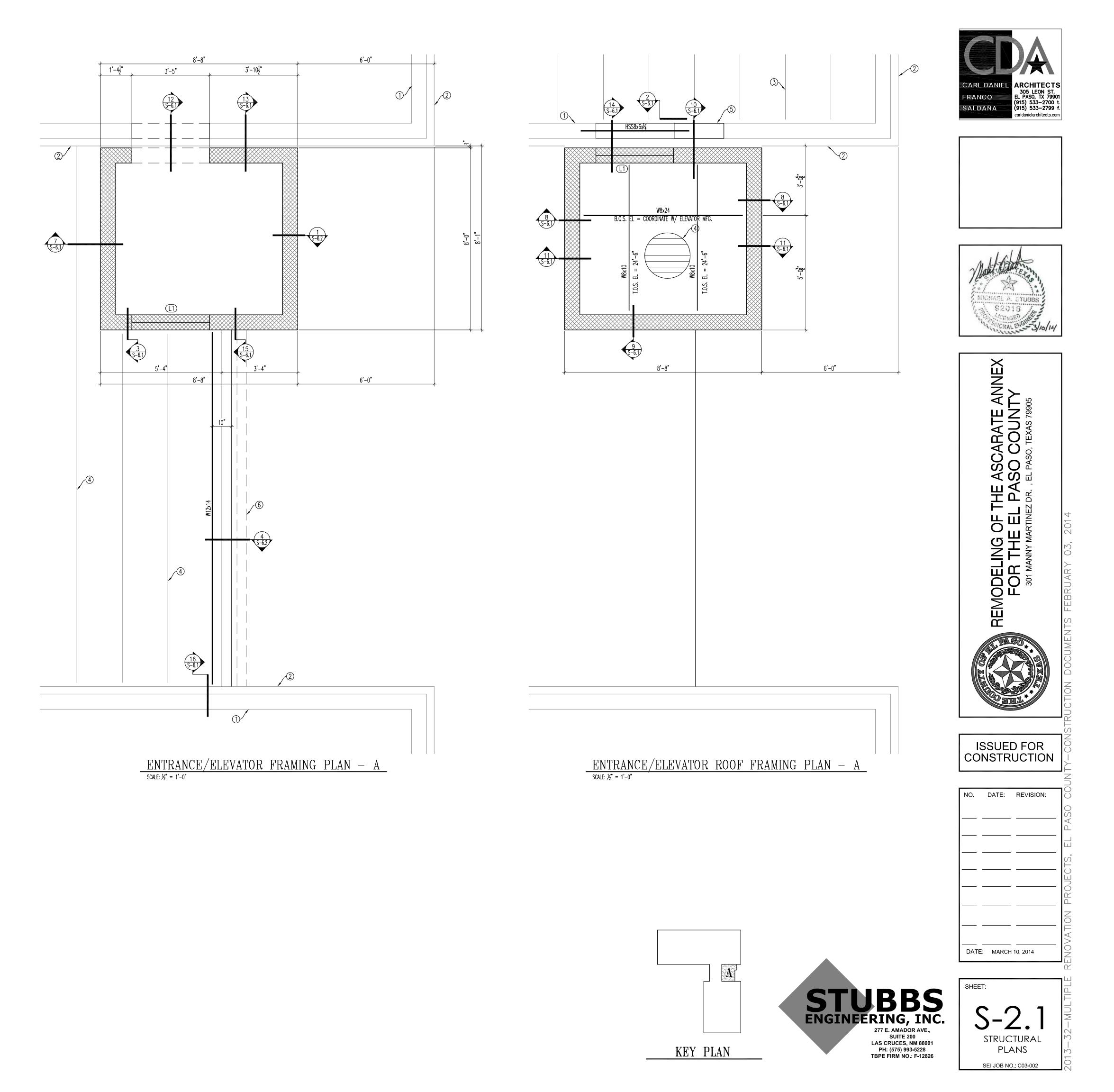
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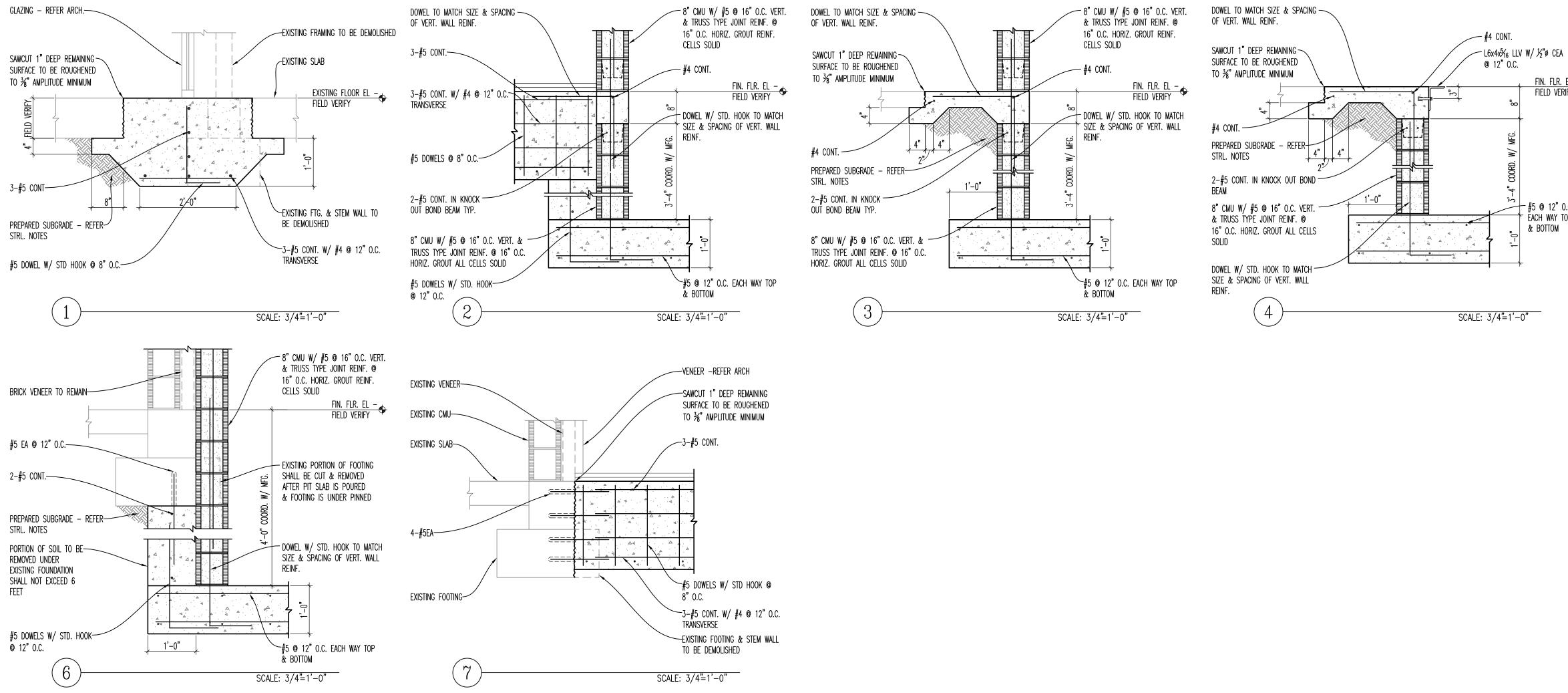
IUBBS ENGINEERING, INC 277 E. AMADOR AVE., SUITE 200 LAS CRUCES, NM 88001 PH: (575) 993-5228 TBPE FIRM NO.: F-12826

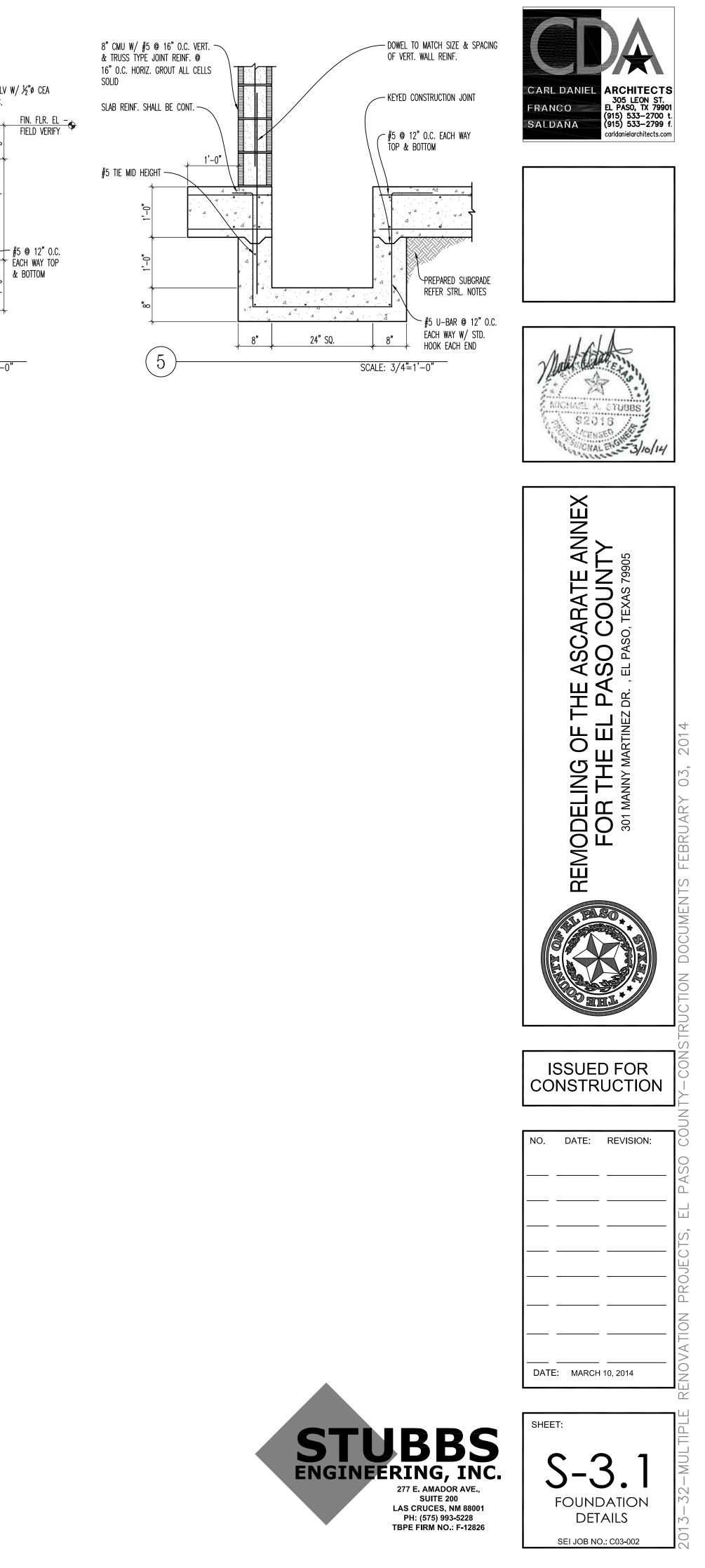
ARCH. BLDG.

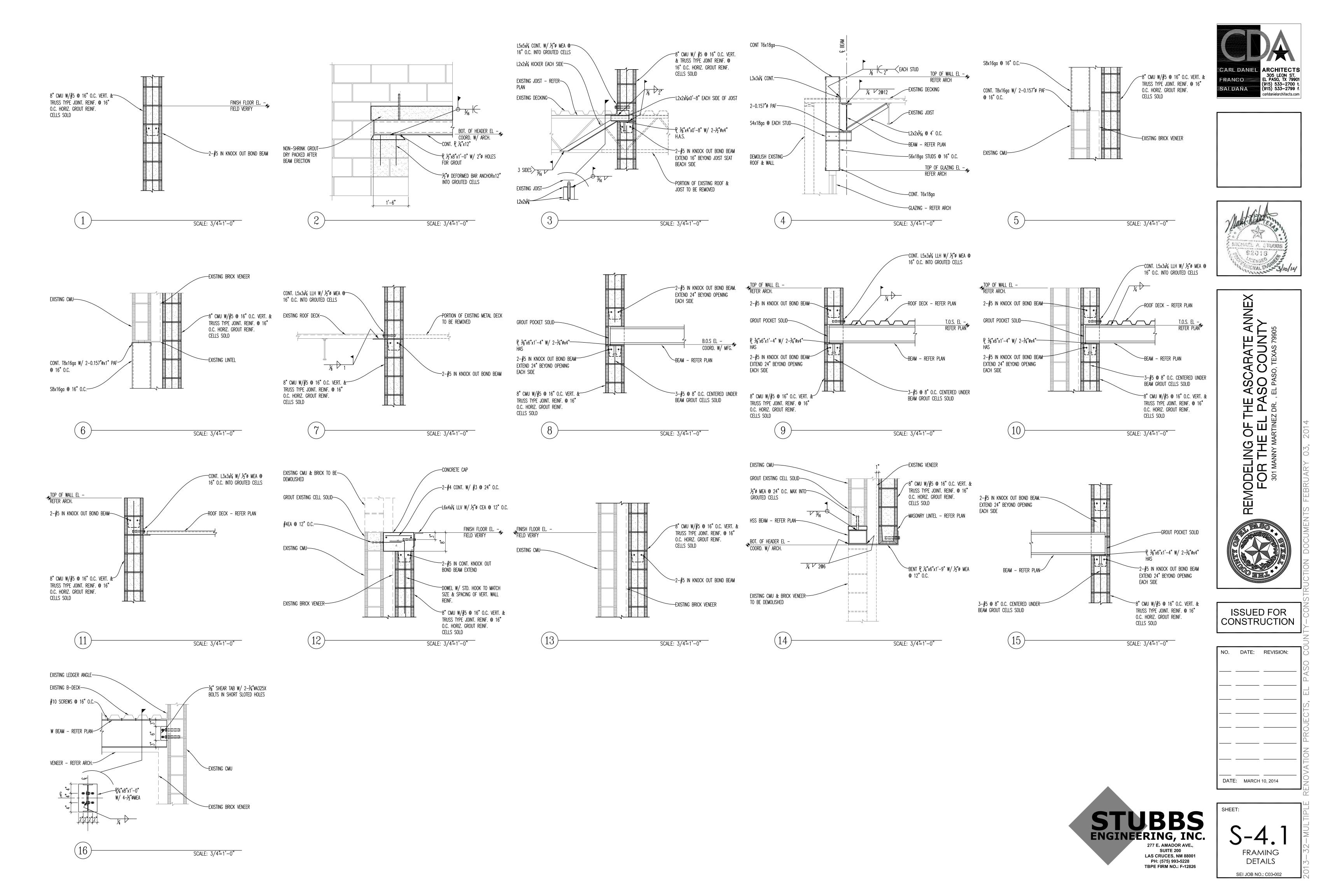
COOR







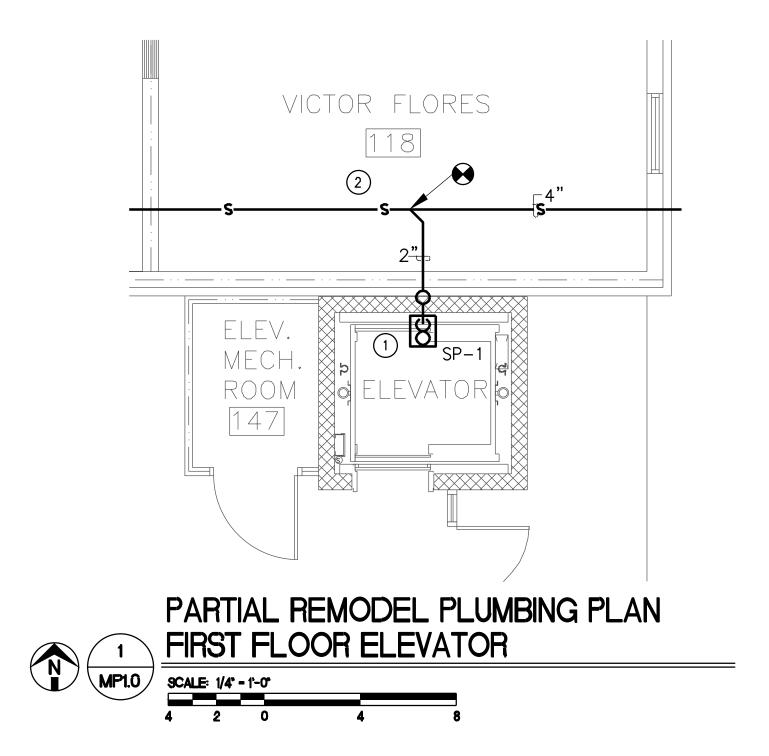




ABBRV	SYMBOL	DESCRIPTION
GENERAL		
		North Direction
		- DETAIL NUMBER
	A-5 A-7	-Sheet Number of Drawing where detail is Shown
		- Sheet Number of Drawing where detail is Referenced
		DIRECTION OF SITE OF ELEV. ON PLAN
		SHEET NUMBER OF DRAWING WHERE ELEV. IS SHOWN
	A-3	- DRAWING NUMBER - SHEET REFERENCE
	xx-##	FIXTURE LD SEE FIXTURE SCHEDULES
	(XX-XX)	NEW EQUIPMENT ABBREVIATION AND NO.
		INDICATES PIPING CONTINUATION
		FLOW DIRECTION
		Point of connection
FLR		FLOOR
CLG AFF		Ceiling Above Finished Floor
BLE		BELOW FINISHED FLOOR
		FINISHED FLOOR
AFG		ABOVE FINISHED GRADE
BFG		BELOW FINISHED GRADE
EXIST		ExiSTING
NC		NOT IN CONSTRUCTION
(Synbol) e	-(SYMBOL) E	INDICATES EXISTING SERVICE
SAN	s	SANITARY WASTE/SEWER
		VENT
		typical pluwbing rough—in description
	 ک	ELBOW. TURNED DOWN
	۰	ELBOW. TURNED UP
	; ≎;	TEE, OUTLET DOWN
		CAP OR PLUG
WCO		WALL CLEANOUT. FLUSH WITH FINISHED WALL
со	جے ج	IN-LINE CLEANOUT, EXPOSED OR ACCESSIBLE
0, COG, FCO	$- \Phi - $	CLEAN-OUT. (TO GRADE=COG. FLUSH W/FLR=FCO)
CD, 2-WAY CD	⋛ФФ<u>⊰</u>⅏⊱ФФ⊰	2-WAY (DUAL) CLEANDUT PITCH OF PIPE (DOWN)

PLUMBING GENERAL NOTES:

- 1. PLUMBING GENERAL NOTES ARE APPLICABLE TO ALL PLUMBING SHEETS IN THIS PROJECT SET. PLUMBING WORK ON THESE DRAWINGS ARE COING TO BE DONE BY THE OWNER'S PERSONNEL AND THE CONTRACTOR, REFER TO THE DRAWINGS FOR FURTHER INFORMATION.
- THE PLUMBING WORK SHALL BE PERFORMED IN STRICT ACCORDANCE WITH THE APPLICABLE AND ADOPTED PROVISIONS OF THE FOLLOWING CODES: 2009 INTERNATIONAL BUILDING CODE 2009 INTERNATIONAL PLUMBING CODE 2009 INTERNATIONAL MECHANICAL CODE
- 2009 INTERNATIONAL MECHANICAL CODE 2009 INTERNATIONAL FIRE CODE 2009 INTERNATIONAL FUEL CODE 2009 INTERNATIONAL FUEL CODE 2009 INTERNATIONAL ENERGY CONSERVATION CODE AS ADOPTED AND INTERRETED BY THE STATE OF TEXAS, CITY OF EL PASO, AND THE NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) REGULATIONS, CURRENT ADOPTED EDITION REGARDING MECHANICAL /PLUMBING SYSTEMS, FIRE PROTECTION AND ALARM SYSTEMS AND ELECTRICAL SYSTEMS. ALL LABOR AND MATERIALS NECESSARY TO COMPLY WITH RULES, REGULATIONS AND ORDINANCES SHALL BE PROVIDED. WHERE THE DRAWINGS INDICATE MATERIALS OR CONSTRUCTION IN EXCESS OF CODE REQUIREMENTS, THE DRAWINGS SHALL GOVERN. DRAWINGS SHALL GOVERN. THE CONTRACTOR SHALL HOLD AND SAVE THE OWNER, ARCHITECT AND ENGINEER FREE AND HARMLESS FROM LIABILITY OF ANY NATURE OR KIND ARISING FROM HIS FAILURE TO COMPLY WITH ALL APPLICABLE CODES AND ORDINANCES.
- 3. THE CONTRACTOR SHALL COORDINATE WITH OWNER, ARCHITECT, ENGINEER ANY WORK THAT HAS THE POTENTIAL TO HINDER MECHANICAL AND PLUMBING SERVICES TO AREA OUTSIDE OF THIS CONTRACT. ALL SHUT-DOWNS OR TIE-INS RELATING TO THESE SYSTEMS SHALL BE SCHEDULED AND SUBMITTED IN WRITING TO BE APPROVED BY THE OWNER, ARCHITECT, AND THIS ENGINEER OFFICE, CONTRACTOR SHALL SUBMIT IN WRITING A SCHEDULE FOR PHASING OF CONSTRUCTION THAT INDICATES AREAS OF FIRST PRIORITY DURING EACH PHASE AND ANTICIPATED COMPLETION TIMES. SCHEDULES SHALL BE SUBMITTED A MINIMUM OF ONE WEEK PRIOR TO COMMENCING WORK. OWNER, ARCHITECT AND ENGINEER SHALL REVIEW THESE SCHEDULES AND NOTIFY CONTRACTOR OF ACCEPTANCE PRIOR TO COMMENCEMENT OF WORK.
- 4. ALL MATERIALS AND LABOR NECESSARY TO COMPLY WITH CODES AND RULES, REGULATIONS AND ORDINANCES SHALL BE PROVIDED. WHERE THE DRAWINGS AND/DR SPECIFICATIONS INDICATE MATERIALS OR CONSTRUCTION IN EXCESS OF CODE REDUIREMENTS, THE DRAWINGS AND/DR SPECIFICATIONS SHALL GOVERN. THE CONTRACTOR SHALL HOLD AND SAVE THE OWNER, ARCHITECT AND ENGINEERS FREE AND HARMLESS FROM LIABILITY OF ANY NATURE OR KIND ARISING FORM HIS FAILURE TO COMPLY WITH ALL APPLICABLE CODES AND ORDINANCES.
- 5. BIDDERS SHALL VISIT THE SITE AND SHALL BE RESPONSIBLE FOR HAVING ASCERTAINED PERTINENT LOCAL CONDITIONS SUCH AS LOCATION, ACCESSIBILITY AND CENERAL CHARACTER OF THE SITE, THE CHARACTER AND EXTENT OF THE WORK WITHIN THE BUILDING AND TO BECOME FAMILIAR WITH ALL OTHER WORK TO BE PERFORMED AT THIS TIME. NO ADDITIONAL COMPENSATION WILL BE ALLOWED DUE TO CONTRACTOR'S FAILURE TO DETERMINE ALL CONDITIONS UNDER WHICH THE WORK IS TO BE PERFORMED.
- 6. BEFORE YOU DIG ALL EXISTING UTILITIES I.E. WATER, SEWER, GAS, FIRE LINE, ELECTRICITY, TELEPHONE, CABLE, IRRIGATION LINES, SHALL BE LOCATED AND CLEARLY MARKED IN ORDER TO AVOID UNNECESSARY SHUT DOWNS AND EMERGENCY, CONTRACTOR SHALL COORDINATE INSTALLATION OF NEW WATER TAP AND WATER MAIN, NEW SEWER TAP AND SEWER MAIN, AND ANY REQUIRED FIRE PROTECTION TAP AND WATER MAIN WITH EL PASO WATER UTILITY AND NATURAL GAS TAP AND GAS MAIN PIPING FOR FACILITY WITH TEXAS GAS. IF ROADWAY IS DESIGNATED A TXDDT ROADWAY THE CONTRACTOR SHALL COORDINATE AND OBTAIN ALL TXDOT APPROVALS FOR THE INSTALLATION OF UTILITY MAINS IN THE TXDOT ROADWAY
- 7. EACH CONTRACTOR SHALL GIVE ALL REQUISITE NOTICES, OBTAIN AND PAY FOR ALL PERMITS, DEPOSITS AND FEES (INCLUDING UTILITY CONNECTIONS FEES, ANY UTILITY EXTENSION FEES, TAP FEES, DEVELOPMENT FEES, AND IMPACT FEES) NECESSARY FOR THE INSTALLATION OF WORK UNDER THESE NOTES. TWO (2) COPIES OF CERTIFICATES OF APPROVAL SHALL BE OBTAINED FROM ALL AUTHORITIES ISSUING SAME AND SHALL BE TURNED OVER TO OWNER, ARCHITECT, ENGINEER PRIOR TO FINAL ACCEPTANCE OF THE WORK.
- 8. REQUIRED INSURANCE SHALL BE PROVIDED BY THIS CONTRACTOR FOR PROTECTION AGAINST PUBLIC LIABILITY AND PROPERTY DAMAGE FOR THE DURATION OF WORK, CONTRACTOR SHALL SECURE AND PAY ALL PERMITS, FEES, INSPECTIONS, AND TESTS UNLESS OTHERWISE INDICATED. COORDINATE WITH ARCHITECT, ENGINEER, AND OWNER, SUBSTITUTIONS REQUESTED BY THE CONTRACTOR SHALL BE PAID FOR BY THE CONTRACTOR.
- 9. ALL WORK SHALL CONFIRM WITH FEDERAL, STATE, AND LOCAL CODES, RULES, AND REGULATIONS. ALL WORK SHALL BE PERFORMED BY A LICENSED CONTRACTOR IN A FIRST CLASS WORKMANLIKE MANNER. THE SYSTEMS SHALL BE INSTALLED COMPLETE AND FULLY OPERATIVE UNLESS OTHERWISE INDICATED
- 10. CONTRACTOR SHALL FIELD VERIFY EXISTING CONDITIONS AND PROVIDE A WRITTEN REPORT TO THE ARCHITECT AND THE ENGINEERING OFFICES. THIS REPORT SHALL DESCRIBE EXISTING DAMAGE OR OTHER CONDITIONS THAT MAY INTERFERE WITH THIS PROPOSED NEW WORK. THIS SITE SURVEY SHALL ALSO INCLUDE VERIFICATION OF SIZES, LOCATIONS, AND CONDITIONS OF EXISTING UTILITIES. QUESTIONS REGARDING THESE DRAWINGS SHALL BE ADDRESSED TO THE ENGINEER PRIOR TO THE AWARDING OF THE CONTRACT. OTHERWISE THE ENGINEER'S INTERPRETATION OF THE MEANING AND INTENT OF THE DRAWINGS SHALL BE FINAL.
- 11. WHERE STRUCTURE IS ALTERED OR DAMAGES DURING CONSTRUCTION, INSTALLATION AND REMOVAL OF EQUIPMENT OR FIXTURES, THE CONTRACTOR SHALL REPAIR THE AREA TO MATCH SURROUNDING AREA PER ARCHITECTURAL SPECIFICATIONS CUTTING, TRENCHING AND PENETRATIONS THROUGH FIRE WALL, CONCRETE AND OTHER STRUCTURES ARE A PART OF THIS PROJECT SCOPE AND SHALL BE INCLUDED IN THE CONTRACTOR'S BID. ALL EXCAVATION AND BACKFILLING REQUIRED FOR PLUMBING WORK IS ALSO INCLUDED AS PART OF THIS CONTRACT AND SHALL BE INCLUDED IN CONTRACTOR'S BID.
- 12. ALL SYSTEMS AND COMPONENTS SHALL BE APPROVED FOR THE PURPOSE FOR WHICH INSTALLED. ALL EQUIPMENT AND MATERIALS SHALL BE NEW AND FROM ESTABLISHED AMERICAN SUPPLIERS UNLESS OTHERWISE
- 13. ALL EQUIPMENT PARAMETERS SHOWN ARE FOR PERFORMANCE AT SITE ALTITUDE. SUPPLIERS SHALL SELECT AND DEMONSTRATE THAT THEIR EQUIPMENT MEETS THE DESIGN CONDITIONS AT SITE ALTITUDE.
- 14. PLUMBING CONTRACTOR SHALL COORDINATE WITH ELECTRICAL CONTRACTOR THE ELECTRICAL REQUIREMENTS. INCLUDING POWER, CONTROL, COMMUNICATION, AND MONITORING, OF EACH DEVICE PROVIDED AND/OR INSTALLED BY PLUMBING CONTRACTOR.
- 15. SUPPORT SYSTEM FOR PIPING MATERIALS AND EQUIPMENT SUPPORTED BY THE BUILDING STRUCTURE SHALL BE SUBMITTED TO THE STRUCTURAL ENGINEER AND ARCHITECT FOR APPROVAL PRIOR TO PURCHASE AND INSTALLATION. NO WIRE OR PERFORATED STRAP WILL BE PERMITTED FOR ANY HANGER OR SUPPORT
- 16. CONTRACTOR SHALL NOT CUT, DRILL, OR ALTER ANY ELEMENT OF A WALLS, FLOORS CEILINGS, ROOFS, AND SLABS WITHOUT FIRST RECEIVING INSTRUCTIONS FROM ARCHITECT, ENGINEER, ALL CUTS SHALL BE MADE WITH A CUTTING TOOL.
- 17. PATCHING OR SEALING OF CUTS AND PENETRATIONS SHALL BE DONE BY CONTRACTOR PER INSTRUCTIONS FROM AND TO FINAL APPROVAL OF ARCHITECT AND ENGINEER. COORDINATE WITH GENERAL CONTRACTOR. 18. CONTRACTOR SHALL FIELD VERIFY CONDITION OF EXISTING EQUIPMENT AND PROVIDE NECESSARY COMPONENTS
- TO ASSEMBLE AND TO START-UP COMPLETE AND FULLY OPERATIONAL SYSTEMS. 19. BEFORE INSTALLATION, EQUIPMENT AND DEVICES INCLUDING, BUT NOT LIMITED TO. ANY DEVICE WITH ELECTRICAL CONNECTIONS, DUCTWORK, INSULATION, PIPING, VALVES, AND AIR DEVICES SHALL NOT BE STORED DIRECTLY ON GRADE OR ON A SLAB OR FLOOR. BEFORE AND AFTER INSTALLATION, SUCH EQUIPMENT AND DEVICES SHALL BE
- PROTECTED FROM ENTRY OF DIRT, TRASH WATER (EXCEPT AS REQUIRED), VERMIN. 20. CONTRACTOR SHALL COORDINATE ACTUAL LOCATIONS OF PIPING RUNS AND VALVE LOCATIONS WITH AIR DEVICES, DUCTWORK, LIGHTS, CEILING PANELS, JOIST SPACING AND ARCHITECTURAL FLOOR PLANS AND REFLECTED CEILING PLAN (REF. ELECTRICAL PLANS AND ARCHITECTURAL PLANS).
- 21. ELEVATOR SUMP PIT, THE CONTRACTOR SHALL COORDINATE LOCATION WITH STRUCTURAL DRAWINGS AND FILED LOCATIONS. CONTRACTOR TO COORDINATE SIZE WITH STRUCTURAL DRAWINGS AND THE GENERAL CONTRACTOR, SUMP SHALL BE A MINIMUM OF 2 FEET(L) BY 2 FEET (W) BY 2 FEET (D), COORDINATE ACTUAL SIZE WITH
- 22. PROVIDE THE OWNER WITH THREE (3) COPIES OF ALL INSTALLATIONS INSTRUCTIONS, PRODUCT DATA SUBMITTAL INFORMATION, WARRANTIES, CONTACT INFORMATION DURING WARRANTY PERIOD AND BALANCING REPORTS IN 3-RING BINDERS.
- 23. OPERATING TESTS AND CLEANING PROCEDURES SHALL BE PERFORMED AND REPORTS SHALL BE ISSUED PER CODE REQUIREMENTS, MANUFACTURER'S RECOMMENDATIONS.
- 24. PIPING ROUTED ON THE ROOF SHALL BE SUPPORTED BY FACTORY MADE PIPE SUPPORTS PER MANUFACTURER'S RECOMMENDATIONS.
- 25. CONTRACTOR SHALL PROVIDE AND INSTALL IDENTIFICATION TAGS FOR EQUIPMENT AND PIPING PER ASME 13.1 SCHEME OF IDENTIFICATION FOR PIPING.
- 26. LOCATIONS OF UNDERFLOOR, ROOF, CEILING, AND ATTIC PLUMBING AND MECHANICAL EQUIPMENT ARE APPROXIMATE AS SHOWN. PLUMBING CONTRACTOR SHALL FIELD ADJUST AS REQUIRED.
- 27. CONTRACTOR SHALL REFER TO ARCHITECTURAL DRAWINGS AND SPECIFICATIONS FOR ALTERNATES AND ALLOWANCES FOR THIS PROJECT. WORK ON THIS PROJECT WILL BE DONE BY THE OWNER'S PERSONNEL
- AND THE CONTRACTORS, REFER TO THE DRAWINGS FOR FURTHER INFORMATION. 28. THE PLUMBING CONTRACTOR SHALL COORDINATE ALL UNDERGROUND PIPING WITH THE LANDSCAPE, IRRIGATION,
- AND ARCHITECTURAL SITE DRAWINGS. 29. ALL PIPING, PLUMBING AND DUCTWORK OPENINGS SHALL BE CAPPED DURING DEMOLITION AND CONSTRUCTION.
- 30. SITE VISIT REPORTS DURING THE COURSE OF THE JOB. THE ENGINEER WILL MAKE SITE VISITS TO DESERVE WORK IN PROGRESS AND WILL SUBSEQUENTLY PREPARE A WRITTEN SITE VISIT REPORT, WHICH WILL BE SENT TO THE CONTRACTOR AND TO WHOMEVER ELSE THE ENGINEER DESIRES. THE CONTRACTOR SHALL PREPARE A WRITTEN AND TYPED RESPONSE WITHIN SEVEN (7) CALENDAR DAYS OF HIS RECEIVING THE SITE VISIT REPORT. THE CONTRACTORS SHALL ACCOMPANY THE ENGINEER DURING THIS FINAL PUNCHLIST VISIT UPON THE REQUEST OF THE ENGINEER THE GENERAL CONTRACTOR SHALL INCLUDE IN HIS RESPONSE THE FOLLOWING INFORMATION.
- DATE OF SITE VISIT BY THE ENGINEER DATE OF RECEIPT OF THE SITE VISIT REPORT, NAME AND TITLE OF THE PREPARER OF THE RESPONSE,
- AN ITEM NUMBER REFERENCED TO THE SITE REPORT. A BRIEF THREE OR FOUR WORD DESCRIPTION OF THE ITEM
- THE CONTRACTOR OR SUBCONTRACTOR AFFECTED, G. THE PROPOSED COURSE OF ACTION, AND H. AN EXPECTED TIME OF COMPLETION OF THE ACTION.
- 31. FINAL PUNCH REPORTS AT THE COMPLETION OF THE JOB. THE ENGINEER WILL MAKE PUNCHLIST SITE VISITS TO OBSERVE COMPLETED WORK AND WILL SUBSEQUENTLY PREPARE A WRITTEN SITE VISIT PUNCHLIST REPORT, WHICH WILL BE SENT TO THE CONTRACTOR AND TO WHOMEVER ELSE THE ENGINEER DESIRES. THE CONTRACTOR UPON COMPLETION OF THE LISTED PUNCHLIST ITEMS SHALL PREPARE A TYPE WRITTEN RESPONSE TO THE LIST INDICATING COMPLETION OF EACH ITEM. THE CONTRACTOR SHALL INCLUDE IN HIS RESPONSE THE RESOLUTION OF EACH ITEM. THE CONTRACTORS SHALL ACCOMPANY THE ENGINEER DURING THIS FINAL PUNCHLIST VISIT UPON THE REQUEST OF
- 32. THE CONTRACTOR SHALL CLEAN OUT ALL UNDERGROUND SEWER LINES WITH EITHER HIGH-PRESSURE WATER OR WITH SEWER SNAKE. THE CONTRACTOR SHALL VERIFY THAT ALL UNDERGROUND SEWER LINES ARE CLEAN AND CLEAR OF FOREIGN MATERIAL AND SHALL PROVIDE DOCUMENTATION THAT THIS SEWER LINE CLEANING HAS BEEN ACCOMPLISHED AND SHALL INCLUDE SUCH INFORMATION IN THE OWNER AND ARCHITECT.
- 33. SUBMITTAL REQUIREMENTS
- A. THE INTENT OF THIS SECTION IS TO GIVE GENERAL SUBMITTAL INFORMATION, REFER TO SPECIFIC SUBMITTAL INFORMATION IN THE SUBSEQUENT MECHANICAL SECTIONS, B. WITHIN 10 DAYS AFTER AWARD OF THE CONTRACT, AND BEFORE ORDERS ARE PLACED, CONTRACTOR SHALL SUBMIT SPECIFIC INFORMATION ON LIST OF EQUIPMENT AND PRINCIPAL MATERIALS SPECIFIED IN PDF FORMAT TO THE CONSTRUCTION MANAGER (CM). CONTRACTOR SHALL INDICATE AND/OR PROVIDE NAMES OF MANUFACTURERS, CATALOG AND MODEL NUMBERS, CUT SHEETS, AND SUCH OTHER SUPPLEMENTARY INFORMATION AS NECESSARY FOR EVALUATION.
- 34. REQUIRED SHOP DRAWING SUBMITTALS
- ELEVATOR SUMP PIPING MATERIALS, FITTINGS, AND SOLDER PIPING INSULATION INCLUDING JACKETING PIPING SUPPORTS AND HANGERS
- 35. SEE PLUMBING FIXTURE SCHEDULE FOR SIZES OF CONNECTIONS TO INDIVIDUAL FIXTURES.
- 36. ALL PVC OR CAST IRON PLUMBING TRAPS LOCATED BELOW SLAB OR IN CONCEALED PLACES SHALL BE THE DEEP SEAL TYPE.
- 37. SEWER AND VENT PIPING BELOW GRADE SHALL BE HUB AND SPIGOT PVC. ABOVE GRADE SEWER AND VENT PIPING SHALL BE NO-HUB PVC.



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AND IT'S FREE - CALL BEFORE YOU DIG							
ALL TWO WORKING DAYS BEFORE YOU DIG IN TEXAS 1-800-344-8377 (1-800-DIG-TESS)							
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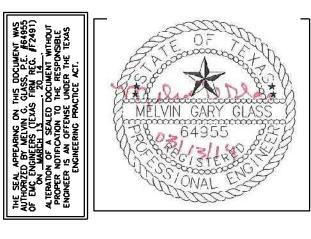
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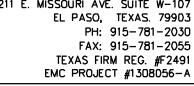
MINIMUM PIPE MATERIAL REQUIREMENTS								
UNLESS SPECIFIED OTHERWISE, THE FOLLOWING SCHEDULE SHALL BE USED TO DETERMINE THE MINIMUM ACCEPTABLE MATERIAL TYPES								
NS FROM THIS FROJECT THEREBT WAIVE EMC ENGINEERS FROM AI	IT LIABILITT ARISING FROM BUILDING							
CODE VIOLATIONS. UMBING SERVICE LOCATION MATERIALS REQUIRED								
	PVC, ASTM 1785 HUB & SPIGOT SEE NOTE 1							
	PVC, ASTM 1785 HUB & SPIGOT SEE NOTE 2							
	PVC, ASTM 1785 NO-HUB (HUBLESS), SEE NOTE 3							
BELOW GRADE	COPPER TYPE "K" TUBING (SEAMLESS)							
ABOVE GRADE	COPPER TYPE "L"							
BELOW GRADE, WITHIN OF 5'-0" OF BUILDING	BLACK IRON WITH DOUBLE LAYER, HALF- LAPPED 10							
	MIL POLYETHYLENE TAPE							
	BLACK IRON SCHEDULE 40							
DENSATE DRAIN WITHIN OF 5'-O" OF BUILDING COPPER TYPE "M"								
NOTES:								
PIPING SHALL BE HUG & SPIGOT PVC SCHEDULE 40 PER ASTM 1785 PIPE & FITTINGS AND INSTALLED IN ACCORDANCE WITH ASTM STD								
D2321-89. JOINTS TO BE PER ASTM F477, ELASTOMERIC GASKETS.								
PIPING SHALL BE SOLVENT CEMENT HUG & SPIGOT PVC SCHEDULE PER 40 ASTM 1785 PIPE & FITTINGS AND INSTALLED IN ACCORDANCE WITH ASTM STD D2321-89. JOINTS TO BE PER ASTM D2665 SOLVENT WELD WITH ASTM D2564 SOLVENT CEMENT.								
WITH ASTM STO D2321-89. JOINTS TO BE PER ASTM D2665 SOLVENT WELD WITH ASTM D2564 SOLVENT CEMENT. PIPING SHALL BE NO-HUB OR PVC PER ASTM 1785 HUB & SPIGOT AND SHALL BE WRAPPED WITH 1-HOUR FIRE INSULATING BLANKET								
	HE FOLLOWING SCHEDULE SHALL BE USED TO DETERMINE THE MIL ICATION LISTED. DEVIATIONS FROM THIS SCHEDULE UNLESS ALLOW THIS PROJECT, ARE AT THE CONTRACTORS RISK. SELECTING PIPE TO LOCAL, STATE, AND FEDERAL BUILDING STANDARDS INCLUDING IS FROM THIS PROJECT THEREBY WAIVE EMC ENGINEERS FROM AL LOCATION BELOW GRADE, OUTSIDE OF 5'-0" OF BUILDING BELOW GRADE, WITHIN OF 5'-0" OF BUILDING ABOVE GRADE, WITHIN BUILDING BELOW GRADE ABOVE GRADE BELOW GRADE, WITHIN OF 5'-0" OF BUILDING ABOVE GRADE BELOW GRADE, WITHIN OF 5'-0" OF BUILDING PVC SCHEDULE 40 PER ASTM 1785 PIPE & FITTINGS AND INSTA STM F477, ELASTOMERIC GASKETS. NT HUG & SPIGOT PVC SCHEDULE PER 40 ASTM 1785 PIPE & F IS TO BE PER ASTM D2665 SOLVENT WELD WITH ASTM D2564 SO							

PIPING SHALL BE INSULATED AND JACKETED PER ENERGY CODE - DOMESTIC SERVICE WATER PIPING INSULATION CRITERIA SCHEDULE.





ENGINEERS 2211 E. MISSOURI AVE. SUITE W-107



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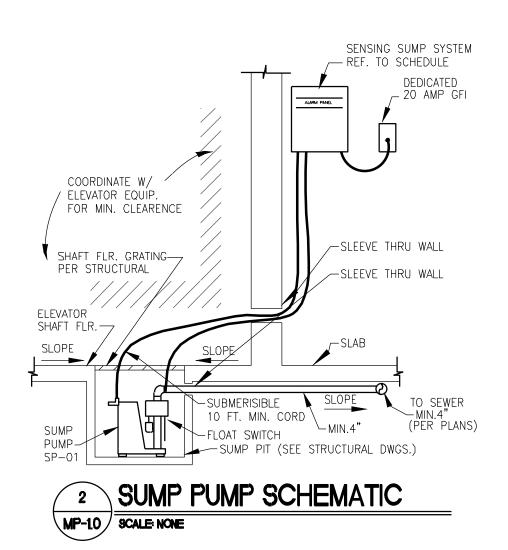
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PLUMBING GENERAL NOTES

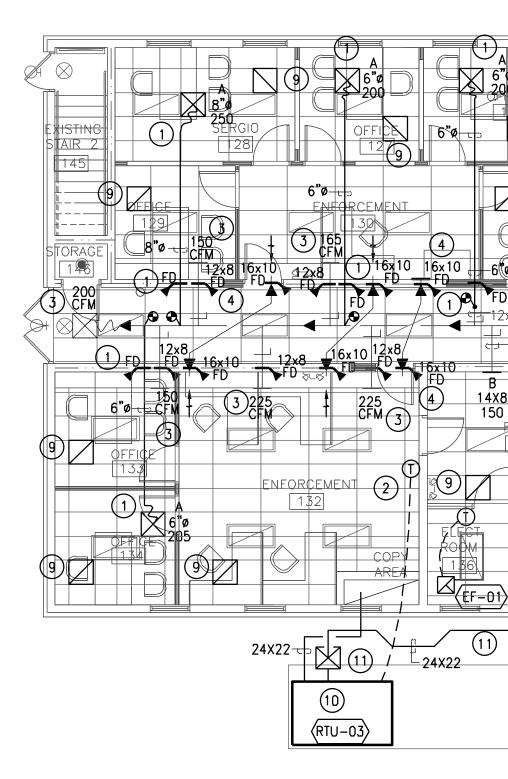
1. THE ELEVATOR IS BEING BID AS A SEPARATE PROJECT TO THE BUILDING RENOVATION, THE CONTRACTOR IS TO INSTALL THE ELEVATOR SUMP SYSTEM AS INDICATED AND PREPARE IT FOR CONNECTION TO NEW SEWER MAIN BEING INSTALLED UNDER THE BUILDING RENOVATION PROJECT. THIS CONTRACTOR TO COORDINATE INSTALLATION WITH COUNTY PERSONNEL.

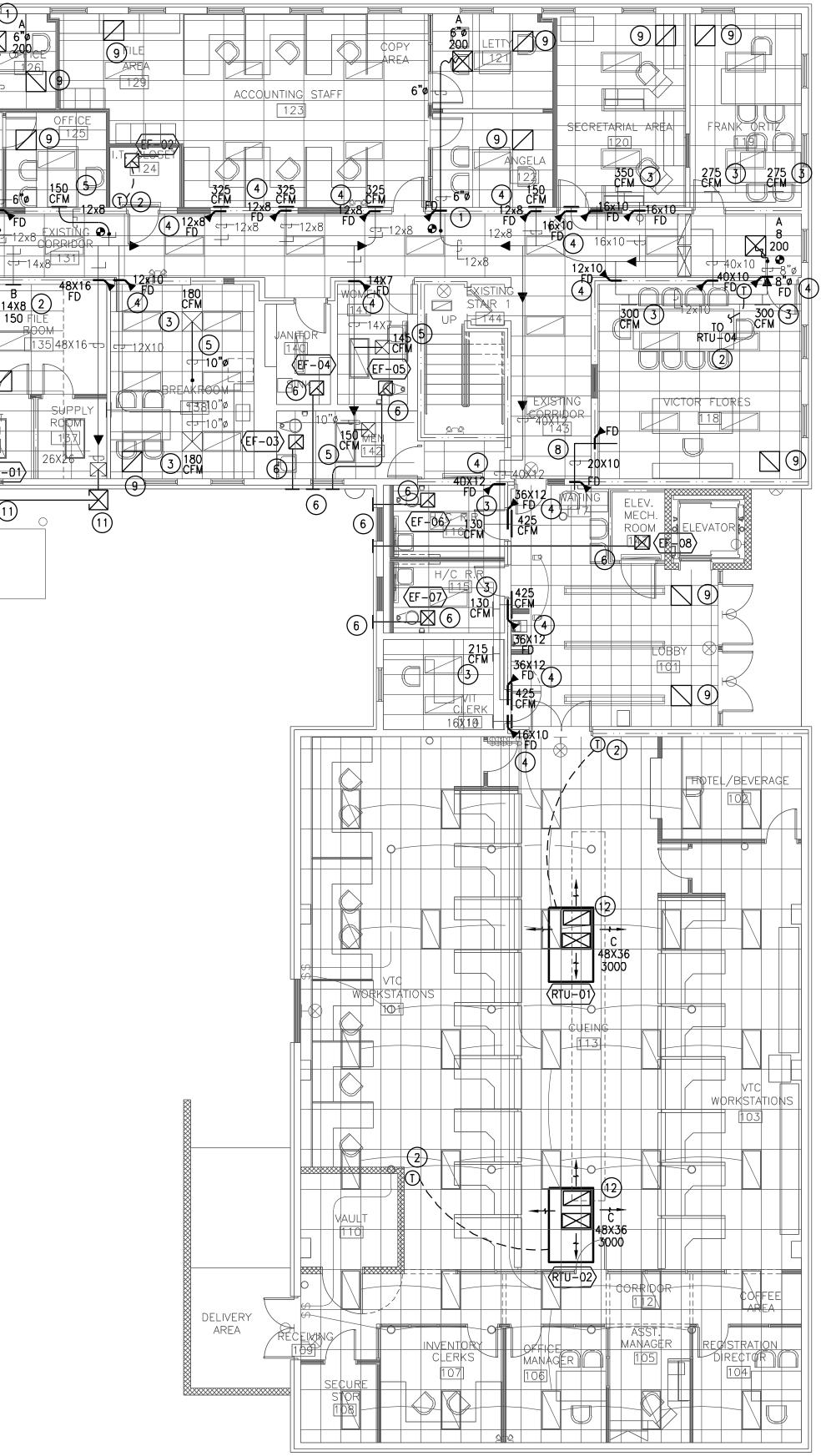
PLUMBING KEYED NOTES (#)

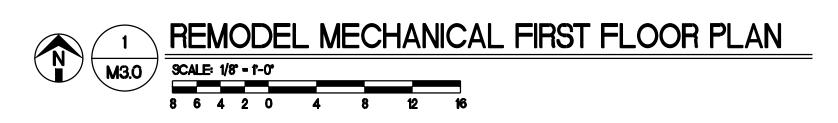
- (1) INSTALL NEW ELEVATOR SUMP PUMP (SP-1) PER SCHEMATIC 2/MP1.0. COORDINATE LOCATION OF SUMP WITH ELEVATOR SUMP LOCATION PER STRUCTURAL DRAWINGS.
- (2) MAIN 4" SEWER BEING INSTALLED UNDER THE BUILDING RENOVATION PROJECT, THIS CONTRACTOR IS TO COORDINATE CONNECTION TO NEW 4" SEWER MAIN BEING INSTALLED UNDER THE BUILDING RENOVATION PROJECT. THIS CONTRACTOR TO COORDINATE INSTALLATION WITH COUNTY PERSONNEL.



ELEVATOR SUMP PUMP SCHEDULE SYMBOL SP-01 SERVES COEP TAX/AGRALIFE BUILDING TYPE OF PUMP UNIT SUMP NUMBER OF PUMP DESIGN FLOW (GPM) 50 PRIMARY PUMP DESIGN HEAD (FT) 18 VERTICAL LIFT HEAD (FT) 10 MINIMUM SHUTOFF HEAD (FT) 44 MINIMUM SOLID HANDLING SIZE N/A MOTOR POWER 900 WATTS MOTOR SPEED (RPM) 3450 ELECTRICAL: 120V / 1P VOLTAGE/PHASE 120V / 1P FULL LOAD AMPS (FLA) 8.6 SUMP (REFER TO KEYED NOTE 4) 0S3-10E-1 WITH 10E-CIM PUMP MINIMUM DIAMETER (IN) 24 MINIMUM DIAMETER (IN) 0S3-10E-1 WITH 10E-CIM PUMP NOTES 0S3-10E-1 WITH 10E-CIM PUMP 1. UNITS ARE SCHEDULED TO BE MANUFACTURED BY LITTLE GIANT. MYERS IS CONSIDERED TO BE EQUIVALENT MANUFACTURER. ALL OTHER MANUFACTURERS REQUIRE PROVAL 2. COORDINATE LOCATION WITH GENERAL CONTRACTOR. SHEET: MINES SIDICATED ON THE DRAWINGS. SHEER TO SUMP DETAIL ON STRUCTURAL AND ARCHITECTURAL SHEET: DRAWINGS FOR LAYOUT. SUMP ASSEMBLY TO COMPLY WITH ASME-A17.1 <					3/12/2014	CITY COMMENTS
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MINIMUM SOLID HANDLING SIZE N/A MOTOR POWER 900 WATTS MOTOR SPEED (RPM) 3450 ELECTRICAL: 120V / 1P VOLTAGE/PHASE 120V / 1P FULL LOAD AMPS (FLA) 8.6 SUMP (REFER TO KEYED NOTE 4) 0 MINIMUM DIAMETER (IN) 24 MINIMUM DEPTH (IN) AS REQUIRED LITTLE GIANT MODEL NUMBER: 0S3-10E-1 WITH 10E-CIM PUMP NOTES 0S3-10E-1 WITH 10E-CIM PUMP NOTES 0S3-10E ADRES 1. UNITS ARE SCHEDULED TO BE MANUFACTURED BY LITTLE GIANT. MYERS IS CONSIDERED TO BE EQUIVALENT MANUFACTURER. ALL SHEET: OTHER MANUFACTURERS REQUIRE PRIOR APPROVAL SHEET: 2. COORDINATE LOCATION WITH GENERAL CONTRACTOR. 3. CONTRACTOR TO COORDINATE DISCHARGE OUTLET WITH SANITARY SEWER AS INDICATED ON THE DRAWINGS. 4. 4. REFER TO SUMP DETAIL ON STRUCTURAL AND ARCHITECTURAL DRAWINGS FOR LAYOUT. DOTES 5. MID CONCERDING MITH, ADDED MITH, ADDE MITH		VERTICAL LIFT HEAD (FT)	10			
MOTOR POWER 900 WATTS MOTOR SPEED (RPM) 3450 ELECTRICAL: 120V / 1P VOLTAGE/PHASE 120V / 1P FULL LOAD AMPS (FLA) 8.6 SUMP (REFER TO KEYED NOTE 4) 0 MINIMUM DIAMETER (IN) 24 MINIMUM DEPTH (IN) AS REQUIRED LITTLE GIANT MODEL NUMBER: OS3-10E-1 WITH 10E-CIM PUMP NOTES 1. 1. UNITS ARE SCHEDULED TO BE MANUFACTURED BY LITTLE GIANT. MYERS IS CONSIDERED TO BE EQUIVALENT MANUFACTURER. ALL OTHER MANUFACTURERS REQUIRE PRIOR APPROVAL 2. COORDINATE LOCATION WITH GENERAL CONTRACTOR. 3. CONTRACTOR TO COORDINATE DISCHARGE OUTLET WITH SANITARY SEWER AS INDICATED ON THE DRAWINGS. 4. 4. REFER TO SUMP DETAIL ON STRUCTURAL AND ARCHITECTURAL DRAWINGS FOR LAYOUT. CONDEND MUEDING MUED MOTE MATCH		MINIMUM SHUTOFF HEAD (FT)	44			
MOTOR SPEED (RPM) 3450 ELECTRICAL: 120V / 1P FULL LOAD AMPS (FLA) 8.6 SUMP (REFER TO KEYED NOTE 4) 0 MINIMUM DIAMETER (IN) 24 MINIMUM DEPTH (IN) AS REQUIRED LITTLE GIANT MODEL NUMBER: 0S3-10E-1 WITH 10E-CIM PUMP NOTES 0S3-10E-1 WITH 10E-CIM PUMP NOTES 0S3-10E ALL OTHER MANUFACTURERS REQUIRE PRIOR APPROVAL SHEET: OTHER MANUFACTURERS REQUIRE PRIOR APPROVAL SHEET: OTHER MANUFACTURERS REQUIRE PRIOR APPROVAL SHEET: OCORDINATE LOCATION WITH GENERAL CONTRACTOR. SUMP DETAIL ON STRUCTURAL AND ARCHITECTURAL DRAWINGS FOR LAYOUT. A. REFER TO SUMP DETAIL ON STRUCTURAL AND ARCHITECTURAL DRAWINGS FOR LAYOUT. ADATE: MILL		MINIMUM SOLID HANDLING SIZE	N/A			
ELECTRICAL: VOLTAGE/PHASE 120V / 1P FULL LOAD AMPS (FLA) 8.6 SUMP (REFER TO KEYED NOTE 4) 8.6 MINIMUM DIAMETER (IN) 24 MINIMUM DEPTH (IN) AS REQUIRED LITTLE GIANT MODEL NUMBER: 0S3-10E-1 WITH 10E-CIM PUMP NOTES 0S3-00E-1 WITH 10E-CIM PUMP NOTES 0S3-00E-1 WITH SANITARY SEWER AS INDICATED ON THE DRAWINGS. 0MP 100 4. REFER TO SUMP DETAIL ON STRUCTURAL AND ARCHITECTURAL DRAWINGS FOR LAYOUT. 5. 0MP 100		MOTOR POWER	900 WATTS			
VOLTAGE/PHASE 120V / 1P FULL LOAD AMPS (FLA) 8.6 SUMP (REFER TO KEYED NOTE 4) 0 MINIMUM DIAMETER (IN) 24 MINIMUM DEPTH (IN) AS REQUIRED LITTLE GIANT MODEL NUMBER: 0S3-10E-1 WITH 10E-CIM PUMP NOTES 1. 1. UNITS ARE SCHEDULED TO BE MANUFACTURED BY LITTLE GIANT. MYERS IS CONSIDERED TO BE EQUIVALENT MANUFACTURER. ALL 0THER MANUFACTURERS REQUIRE PRIOR APPROVAL 2. COORDINATE LOCATION WITH GENERAL CONTRACTOR. 3. CONTRACTOR TO COORDINATE DISCHARGE OUTLET WITH SANITARY SEWER AS INDICATED ON THE DRAWINGS. 4. 4. REFER TO SUMP DETAIL ON STRUCTURAL AND ARCHITECTURAL DRAWINGS FOR LAYOUT. DRAWINGS FOR LAYOUT.		MOTOR SPEED (RPM)	3450			
FULL LOAD AMPS (FLA) 8.6 SUMP (REFER TO KEYED NOTE 4)	ELECT	RICAL:				
SUMP (REFER TO KEYED NOTE 4) MINIMUM DIAMETER (IN) MINIMUM DEPTH (IN) LITTLE GIANT MODEL NUMBER: OS3-10E-1 WITH 10E-CIM PUMP NOTES 1. UNITS ARE SCHEDULED TO BE MANUFACTURED BY LITTLE GIANT. MYERS IS CONSIDERED TO BE EQUIVALENT MANUFACTURER. ALL OTHER MANUFACTURERS REQUIRE PRIOR APPROVAL 2. COORDINATE LOCATION WITH GENERAL CONTRACTOR. 3. CONTRACTOR TO COORDINATE DISCHARGE OUTLET WITH SANITARY SEWER AS INDICATED ON THE DRAWINGS. 4. REFER TO SUMP DETAIL ON STRUCTURAL AND ARCHITECTURAL DRAWINGS FOR LAYOUT.		VOLTAGE/PHASE	120V / 1P			
MINIMUM DIAMETER (IN) 24 MINIMUM DEPTH (IN) AS REQUIRED LITTLE GIANT MODEL NUMBER: OS3-10E-1 WITH 10E-CIM PUMP NOTES 1. UNITS ARE SCHEDULED TO BE MANUFACTURED BY LITTLE GIANT. MYERS IS CONSIDERED TO BE EQUIVALENT MANUFACTURER. ALL OTHER MANUFACTURERS REQUIRE PRIOR APPROVAL 2. COORDINATE LOCATION WITH GENERAL CONTRACTOR. SHEET: 3. CONTRACTOR TO COORDINATE DISCHARGE OUTLET WITH SANITARY SEWER AS INDICATED ON THE DRAWINGS. 4. 4. REFER TO SUMP DETAIL ON STRUCTURAL AND ARCHITECTURAL DRAWINGS FOR LAYOUT. ON THE DRAWINGS.		FULL LOAD AMPS (FLA)	8.6			
MINIMUM DEPTH (IN) AS REQUIRED LITTLE GIANT MODEL NUMBER: OS3-10E-1 WITH 10E-CIM PUMP NOTES 1. UNITS ARE SCHEDULED TO BE MANUFACTURED BY LITTLE GIANT. MYERS IS CONSIDERED TO BE EQUIVALENT MANUFACTURER. ALL OTHER MANUFACTURERS REQUIRE PRIOR APPROVAL 2. COORDINATE LOCATION WITH GENERAL CONTRACTOR. 3. CONTRACTOR TO COORDINATE DISCHARGE OUTLET WITH SANITARY SEWER AS INDICATED ON THE DRAWINGS. 4. REFER TO SUMP DETAIL ON STRUCTURAL AND ARCHITECTURAL DRAWINGS FOR LAYOUT.	SUMP			—		
LITTLE GIANT MODEL NUMBER: NOTES 1. UNITS ARE SCHEDULED TO BE MANUFACTURED BY LITTLE GIANT. MYERS IS CONSIDERED TO BE EQUIVALENT MANUFACTURER. ALL OTHER MANUFACTURERS REQUIRE PRIOR APPROVAL 2. COORDINATE LOCATION WITH GENERAL CONTRACTOR. 3. CONTRACTOR TO COORDINATE DISCHARGE OUTLET WITH SANITARY SEWER AS INDICATED ON THE DRAWINGS. 4. REFER TO SUMP DETAIL ON STRUCTURAL AND ARCHITECTURAL DRAWINGS FOR LAYOUT.		MINIMUM DIAMETER (IN)	24	DAT	E: FEBRUA	RY 17, 2014
NOTES 1. UNITS ARE SCHEDULED TO BE MANUFACTURED BY LITTLE GIANT. MYERS IS CONSIDERED TO BE EQUIVALENT MANUFACTURER. ALL OTHER MANUFACTURERS REQUIRE PRIOR APPROVAL SHEET: 2. COORDINATE LOCATION WITH GENERAL CONTRACTOR. SHEET: 3. CONTRACTOR TO COORDINATE DISCHARGE OUTLET WITH SANITARY SEWER AS INDICATED ON THE DRAWINGS. SHEET: 4. REFER TO SUMP DETAIL ON STRUCTURAL AND ARCHITECTURAL DRAWINGS FOR LAYOUT. OUTLET WITH ACHIE AND ARCHITECTURAL		MINIMUM DEPTH (IN)	AS REQUIRED			
 UNITS ARE SCHEDULED TO BE MANUFACTURED BY LITTLE GIANT. MYERS IS CONSIDERED TO BE EQUIVALENT MANUFACTURER. ALL OTHER MANUFACTURERS REQUIRE PRIOR APPROVAL COORDINATE LOCATION WITH GENERAL CONTRACTOR. CONTRACTOR TO COORDINATE DISCHARGE OUTLET WITH SANITARY SEWER AS INDICATED ON THE DRAWINGS. REFER TO SUMP DETAIL ON STRUCTURAL AND ARCHITECTURAL DRAWINGS FOR LAYOUT. 	LITTLE	GIANT MODEL NUMBER:	OS3-10E-1 WITH 10E-CIM PUMP			
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 COORDINATE LOCATION WITH GENERAL CONTRACTOR. CONTRACTOR TO COORDINATE DISCHARGE OUTLET WITH SANITARY SEWER AS INDICATED ON THE DRAWINGS. REFER TO SUMP DETAIL ON STRUCTURAL AND ARCHITECTURAL DRAWINGS FOR LAYOUT. 			CTURER. ALL			
A. REFER TO SUMP DETAIL ON STRUCTURAL AND ARCHITECTURAL DRAWINGS FOR LAYOUT.		OTHER MANUFACTURERS REQUIRE PRIOR APPROVAL				
A. REFER TO SUMP DETAIL ON STRUCTURAL AND ARCHITECTURAL DRAWINGS FOR LAYOUT.	2.			ЛЮ	1 ()	
A. REFER TO SUMP DETAIL ON STRUCTURAL AND ARCHITECTURAL DRAWINGS FOR LAYOUT.	3.					
DRAWINGS FOR LAYOUT.						
	4.		HITECTURAL			
5. SUMP ASSEMBLY TO COMPLY WITH ASME-A17.1		DRAWINGS FOR LAYOUT.				
	5.	SUMP ASSEMBLY TO COMPLY WITH ASME-A17.1		GE GE	NERAL N	OTES AND









MECHANICAL REMODEL KEYED NOTES: (#)

(1)CONNECT NEW DUCT TO EXISTING MAIN DUCT ABOVE CORRIDOR. PENETRATE THRU CORRIDOR WALL AS HIGH AS POSSIBLE AND RUN DUCT IN JOIST SPACE TO NEW DIFFUSER. FIRE DAMPER WALL PENETRATION AS SHOWN.

2 INSTALL NEW FIRE RATED SIDEWALL DIFFUSER. CONNECT TO EXISTING DUCT. BALANCE TO CFM AS INDICATED.

(3)BALANCE EXISTING DIFFUSER TO CFM INDICATED.

(4) INSTALL NEW FIRE DAMPER IN EXISTING DUCTWORK. FIRE CAULK AND SEAL AROUND DAMPER. TYPICAL.

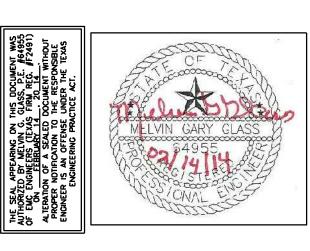
5 RELOCATE EXISTING DIFFUSER AS SHOWN. EXTEND DUCTWORK AS REQUIRED. (6) INSTALL NEW CEILING MOUNTED EXHAUST FAN. DUCT TO BRICK VENT AS SHOWN. (7)INSTALL NEW CEILING MOUNTED EXHAUST FAN. TERMINATE DUCT IN CEILING SPACE AS SHOWN.

(8) TRANSFER DUCT ABOVE CEILING WITH FIRE DAMPERS AS SHOWN.

(9) INSTALL EXISTING RETURN AIR GRILL. CLEAN AND PAINT BEFORE INSTALLING.

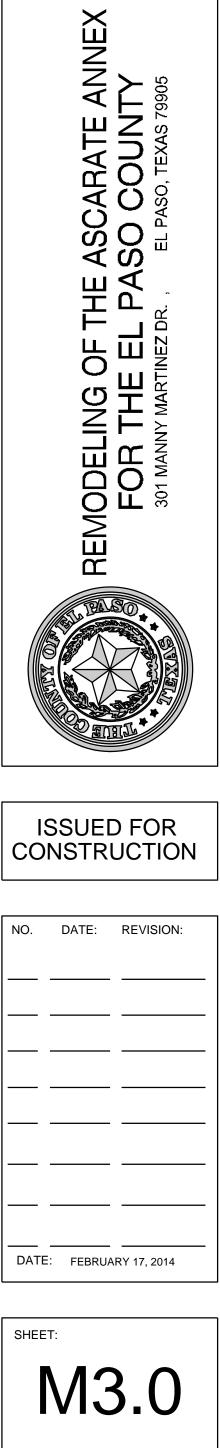
10 MOUNT NEW ROOF TOP UNIT ON EXISTING CONCRETE HOUSEKEEPING PAD. 11 SUPPLY DUCT IS TO RISE UP AND RUN TIGHT AGAINST BUILDING ABOVE 1ST FLOOR WINDOWS, OFFSET TO MISS ELECTRICAL CONDUIT ON WALL BY 24" AS SHOWN. DROP DOWN TO CONNECT TO EXISTING WALL PENETRATION.

(12) INSTALL NEW ROOF TOP UNIT. CONNECT TO CONCENTRIC DIFFUSER AS SHOWN.





2211 E. MISSOURI AVE. SUITE W-107 EL PASO, TEXAS. 79903 PH: 915-781-2030 FAX: 915-781-2055 TEXAS FIRM REG. #F2491 EMC PROJECT #1308056-A

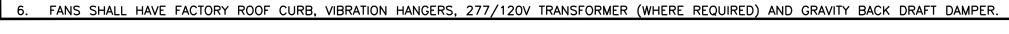


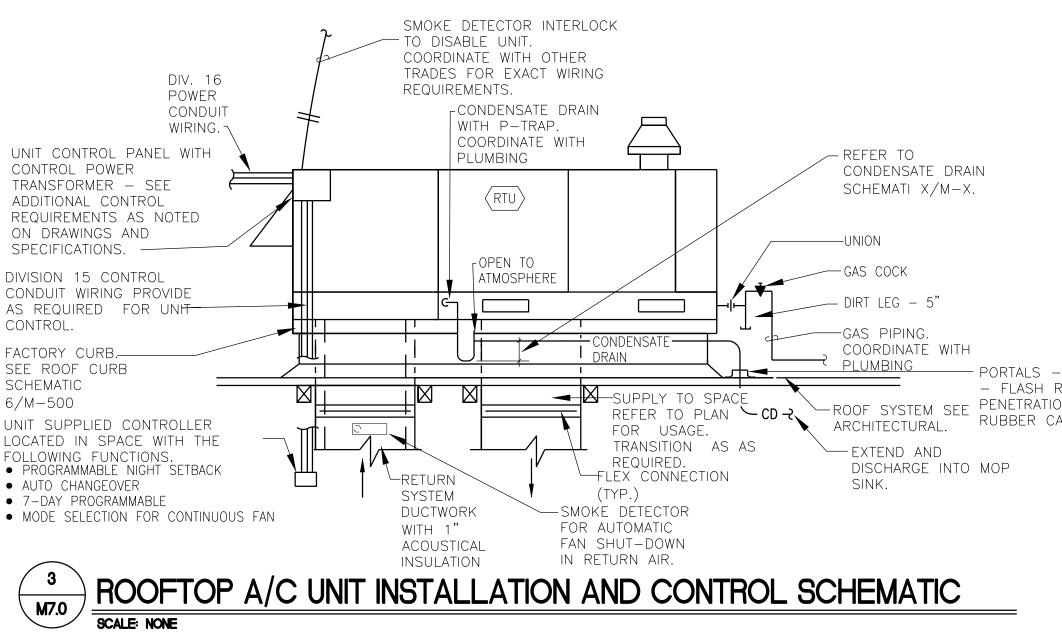
REMODEL PLUBING FIRST FLOOR PLAN

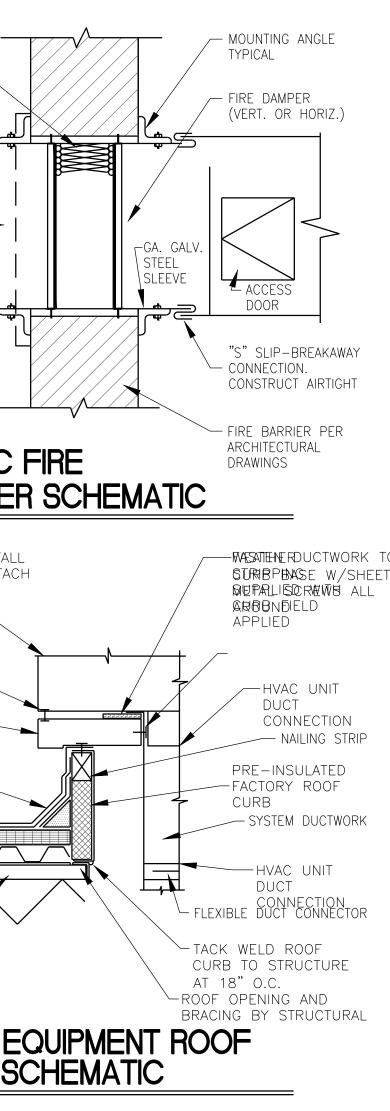
							م ار			AIR DEVICE SCHE	י וווחי		
SYMBOL SERVES	RTU-1 NORTH TAX OFFICE	PACKAGED ROOFTOP U	RTU-3 R	TU-4	RTU–5 2ND FLOOR EAST	RTU-6 2ND FLOOR WEST	SYMBOL	TYPE			קרטעו	INSTALLATION TYPE	MANUFACTURER MODEL NO.
AIRSIDE : SUPPLY DISCHARGE RETURN DISCHARGE	SIDE	SIDE SIDE	DOWN D DOWN D	DOWN DOWN	DOWN DOWN	DOWN DOWN	A	CEILING SUPPLY	AIRFLOW BALANCING DAMPER BLAN AS SHOWN ON DRAWINGS, BORDE	DIFFUSER, NOMINAL FACE PER DRAWINGS, DES IN THE NECK WITH FRONT ACCESS, NE R FOR CEILING SPECIFIED, 4–WAY THROW U	CK SIZE		TITUS TMS
TOTAL CFM (MAXIMUM/MINIMUM) MINIMUM OUTSIDE AIR CFM	3000			3800	3850	4000	В	SIDEWALL	SPECIFIED OTHERWISE. ALL STEEL, DOUBLE DEFLECTION	BLADES AT 3/4" SPACING, FRONT BLADES	PARALLEL TO LONG	WALL	TITUS 300RL
SUPPLY BLOWER MOTOR HP(DRIVE) EXTERNAL STATIC PRESSURE ("W.G.) INITIAL FILTERS MERV 8 QTY(SIZE)	1 HP (BELT) 0.50 (4) 20X25X2	0.50 (4) 20X25X2	0.50 (3) 20X25X2 (3) 2	P (BELT) 0.50 20X25X2 20X30X2	5 HP (BELT) 0.50 (3) 20X25X2 (2) 20X30X2	5 HP (BELT) 0.50 (3) 20X25X2 (2) 20X30X2	с	SUPPLY CONCENTRIC SUPPLY / RETURN	DIMENSION, OPPOSED BLADE DAM COMBINATION SUPPLY/RETURN, AL 48"X36" FACE, 4-WAY HORIZONTA	UMINUM DIFFUSER AND RETURN AIR EGGCR	ATE, NOMINAL	EXPOSED NO CEILING	TITUS CRS-P (WITH PLENUM)
COOLING : NOMINAL TONS	7.5	7.5	10.0	10.0	10.0	10.0	NOTES : 1.	AIR DEVICES		Y TITUS. KRUEGER, METALAIRE, CARNES, J	& J, NAILOR, PRICE, AND TUTTLE	& BAILEY ARE	
MINIMUM TOTAL CAPACITY, MBH MINIMUM SENSIBLE CAPACITY, MBH	80.5 79.6	69.8 68.7	96.6 94.5 95	97.4 96.7	90.4 89.2	103.3 102.4		CONSIDERED UNLESS SCHE	EQUIVALENT MANUFACTURERS. DULED OTHERWISE, AIR DEVICES SHA	LL BE WHITE OR OFF-WHITE IN COLOR.			
TYPE OF REFRIGERANT NUMBER OF REFRIGERANT CIRCUITS/STAGES ENTERING RETURN AIR TEMPERATURE, oF DB/WB	R-410A 2.0 80/64	R-410A 2.0 80/64	2.0	-410A 2.0 30/64	R-410A 2.0 80/64	R-410A 2.0 80/64			ONDUITS, PIPING AND EQUIPMENT AE OF THE AIR DEVICE.	BOVE OPEN RETURN AIR DEVICES SHALL BE	PAINTED BLACK FOR AN AREA OF	2 FEEI	
OUTDOOR AMBIENT TEMPERATURE, oF SPECIFIED UNIT'S (EER/SEER)	105 12.6 EER	105 12.6 EER 12.5 E	105	105	105 2.5 EER	105 12.5 EER							
TYPE OF ECONOMIZER HEATING :	ENTHALPY				ENTHALPY	ENTHALPY							
ENTERING RETURN AIR TEMPERATURE, oF DB/WB OUTDOOR AMBIENT TEMPERATURE, oF TYPE OF FUEL	68.0 20.0 NATURAL GAS	68.0 20.0 NATURAL GAS	20.0	68.0 20.0 IRAL GAS	68.0 20.0 NATURAL GAS	68.0 20.0 NATURAL GAS							
MINIMUM INPUT, MBH MINIMUM OUTPUT, MBH	150.0 120.0	150.0 120.0	200.0 2	200.0 160.0	200.0 160.0	200.0 160.0				FIRE DAMPER		OUNTING ANGLE	
SPECIFIED UNIT'S (A.F.U.E.) NUMBER OF STAGES	80.0%	80.0% 80.0% 2 2	80.0% 2	80 2	0.0%	80.0%]			BLADES —		PICAL	
ELECTRICAL : VOLTAGE/PHASES MINIMUM CIRCUIT AMPACITY	460V /3P 19.9 MCA	460V /3P 19.9 MCA		0V /3P	460V /3P 22.1 MCA	460V /3P 22.1 MCA	-			SLEEVE		RE DAMPER 'ERT. OR HORIZ.)	
MAXIMUM OVERCURRENT PROTECTION WEIGHT (LB):	25A 930	25A 930	30A 1260 1	30A 1260	30A 1260	30A 1260							
TRANE MODEL NUMBER NOTES :	YHC092F4RMA	YHC092F4RMA Y	HC120E4RMA YHC1.	20E4RMA	YHC120E4RMA	YHC120E4RMA							
 TRANE UNITS HAVE BEEN PURCHASED BY, AND ARE TO BE INST PROVIDE EACH PACKAGED UNIT WITH AN INSULATED FACTORY RC EXTERNAL STATIC PRESSURE INCLUDES PLENUMS, DUCTWORK, AI 	OOF CURB. COORDINATE CURB STYLE		SURE DROPS.							\leq \rightarrow			
4. COOLING CAPACITIES ARE RATED AT ENTERING AIR CONDITIONS A DEDUCTED. SEER'S (OR EER'S) ARE RATED AT ARI CONDITIONS.	ND AMBIENT TEMPERATURES AS SHO AIRFLOW CONDITIONS ARE RATED A	WN. CAPACITIES ARE GROSS WITH FA									GA. GALV. STEEL SLEEVE		
 PROVIDE UNIT WITH ECONOMIZER WITH ENTHALPY CONTROL WITH RUN CONDENSATE DRAIN LINE FULL SIZE TO IN CEILING SPACE PROVIDE PROGRAMMABLE THERMOSTAT TO OPERATE AS FOLLOWS 	PER DRAWINGS.										╷ │┃	- ACCESS DOOR	
 PROVIDE PROGRAMMABLE THERMOSTAT TO OPERATE AS FOLLOWS POSITIONS, WITH TWO SETPOINT THERMOSTAT (HEATING SETTING 8. PROVIDE AND INSTALL SMOKE DETECTOR IN THE RETURN AIR ST 	AND COOLING SETTING).									DUCT (WxH)		" SLIP-BREAKAWAY	
							_			OR REGISTER SEE DWG		ONNECTION.	
EXHAUST FAN SCHEDULE	EF-1 EF-2	EF-3 EF-4	EF-5 EF-				EF-1		EF-11 EF-12	_		re barrier per	
SERVES ELEC	CT ROOM 136 IT CLOSET 124 CEILING CEILING CENT. CENT.	MEN 142 JANITOR 140 CEILING CEILING	WOMEN 141 H/C RR CEILING CEILII CENT. CEN	NG CEIL	LING CEILIN	IG CEILING	CEILII	NG C	EN 210 WOMEN 207 EILING CEILING CENT. CENT.		ΔΕ	RE BARRIER PER RCHITECTURAL RAWINGS	
CFM DRIVE	CENT. CENT. 120 85 DIRECT DIRECT	CENT. CENT. 190 120 DIRECT DIRECT	CENT. CEN 180 160 DIRECT DIREC	0 16	60 75	120	CEN 75 DIRE		CENI. CENI. 335 230 DIRECT DIRECT		R SCHEMATIC		
EXTERNAL STATIC PRESSURE (IN. W.G.) SOUND LEVEL IN SONES	0.5 0.5 3.0 3.6	0.5 0.5 6.5 3.0	0.5 0.5 6.5 4.0	5 0.5 D 4.0	.5 0.5 .0 3.1	0.5 3.0	0.5		0.5 0.5 4.0 7.0	SCALE: NONE			
FAN MOTOR POWER - HP (WATTS)NOMINAL FAN R.P.M.VOLTAGE / PHASE1	72 W 72 W 1100 1100 20V / 1P 120V / 1P	136 W 72 W 1400 1100 120V / 1P 120V / 1P	136 W 104 1400 130 120V / 1P 120V /	0 130	00 1000	1100	48.1 100 120V /	0	236 W 161 W 1075 1500 DV / 1P 120V / 1P	HVAC EQUIPMENT INSTAL LEVEL ON CURB. ATTA	сн / б	ABATTENERDUCTWORK IURIBPBASE W/SH	EET
	HERMOSTAT THERMOSTAT N/A N/A	EMCS EMCS BV1 BV1	EMCS EMC BV1 BV1	CS EMO	ICS THERMOS	STAT THERMOSTAT	EMC	S	EMCS EMCS BV1 BV1	TO CURB PER MANUFACTURER'S RECOMMENDATIONS	/ @	NUPALISOCRUNIÓAL ROBNDIELD NPPLIED	L
	15 15 GC-144 GC-144	16 15 GC-182 GC-144	16 15 GC-182 GC-1		5 15 -164 GC-14	15 42 GC-144	15 GC-1	42 G	35 16 C-640 GC-184	ANCHOR UNIT TO CURB BASE			
NOTES: 1. FANS ARE SCHEDULED TO BE MANUFACTURED BY LOREN COOK 2. AIRFLOW CONDITIONS RATED AT 4,000 FEET ALTITUDE.	. ACME, TWIN CITY, AND CARNES AR	RE CONSIDERED EQUIVALENT MANUFAC	TURERS.							FACTORY SUPPLIED		-HVAC UNIT	
3. EACH DIRECT DRIVE FAN SHALL BE PROVIDED AND INSTALLED V V-BELT DRIVE SHALL BE PROVIDED AND INSTALLED WITH ADJUS			CT MEANS. EACH							CURB BASE		DUCT CONNECTION	
 PROVIDE AND INSTALL FLEXIBLE CONNECTIONS ON INLET AND C 5. EXHAUST FANS – SEQUENCE OF OPERATIONS: 										CANT AND Flashing by		NAILING STRIF	
EF-1 EACH SHALL BE CYCLED FROM THERMOSTAT IN ROOM. EF-2 EACH SHALL BE CYCLED FROM THERMOSTAT IN ROOM. EF-3 EACH SHALL BE CONTROLLED BY ENERGY MANAGEMENT	I SYSTEM									ROOFER	F	ACTORY ROOF CURB	
EF-4 EACH SHALL BE CONTROLLED BY ENERGY MANAGEMENT EF-5 EACH SHALL BE CONTROLLED BY ENERGY MANAGEMENT	T SYSTEM.											- SYSTEM DUCTWORF	
EF-6 EACH SHALL BE CONTROLLED BY ENERGY MANAGEMENT EF-7 EACH SHALL BE CONTROLLED BY ENERGY MANAGEMENT												- HVAC UNIT DUCT	
EF-8 EACH SHALL BE CYCLED FROM THERMOSTAT IN ROOM. EF-9 EACH SHALL BE CYCLED FROM THERMOSTAT IN ROOM. EF-10 EACH SHALL BE CONTROLLED BY ENERGY MANAGEMENT	I SYSTEM.										FLEXIBL	CONNECTION	
EF-11 EACH SHALL BE CONTROLLED BY ENERGY MANAGEMENT 6. FANS SHALL HAVE FACTORY ROOF CURB, VIBRATION HANGERS,	T SYSTEM.	EQUIRED) AND GRAVITY BACK DRAFT	DAMPER.							ROOF SYSTEM COORDINATE		WELD ROOF TO STRUCTURE	
										WITH ARCHITECTURAL DRAWINGS	🔪 AT 18		
												BY STRUCTURAL	
	DETECTOR INTERLOCK										CHEMATIC		
TO DISA	ABLE UNIT. NATE WITH OTHER									SCALE: NONE			
POWER REQUIRE				NOTES:	R LINER OF FLEX DUCT	TO BE		B	/2" METALLIC RACEWAY Y ELECTRICAL				
CONDUIT	CONDENSATE DRAIN			DOUBL TIE-W	BLE STRAPPED (WITH PLA WRAPS) TO DIFFUSER OR	ASTIC 2. DUCT END	AIR DUC		ONTRACTOR	HVAC EQUIP.			
CONTROL POWER	COORDINATE WITH	REFER TO CONDENSATE	DRAIN		THEN DUCT TAPED OVE CONNECTIONS TO BE AIR	\mathbf{X}		AIR FLOW		LSENSOR WIRING (MUST BE IN CONDUIT ONLY) CEILING		ſ	7
TRANSFORMER – SEE ADDITIONAL CONTROL REQUIREMENTS AS NOTED	<pre> RTU ></pre>	SCHEMATI X/	M-X.	NECK	FLEX DUCT'S INSULATIO OVER INNER LINER UP THEN DOUBLE STRAP (4	5	EXISTING WALL		ROOF		WALL
ON DRAWINGS AND SPECIFICATIONS.		UNION		TIE WI WRAPS	VRAPS) TIGHTLY. TOTAL Ò PS PER CONNECTION.	WITH PLASTIC DF 4 TIE	DIFFUSER (RETURN GR			EXIBLE CONDUIT IN WALL ONLY Y ELECTRICAL CONTRACTOR			
DIVISION 15 CONTROL CONDUIT WIRING PROVIDE	OPEN TO ATMOSPHERE	GAS COCK		V FFFT	A MAXIMUM OF 5 LINEAR OF FLEX DUCT FOR ALL					EW T-STAT OR ENSOR			
AS REQUIRED FOR UNIT		DIRT LEG - 5'		INLETS INSTAL TO AL	S AND OUTLETS AS SHO LL WITHEVEN RADIUS BE LLOW FULL FLOW WITH N RICTIONS. RADIUS OF	NDS OUTER	INNER	LINER SE	EW WALL BOX ECURED TO FUD BY	OUNT T-STAT OR ENSOR BY LIGHT SWITCH			
FACTORY CURB.	CONDENSATE	GAS PIPING. COORDINATE PLUMBING		ELBOW	W TO BE 2 TIMES THE [DUCT		UBLE EL		NLESS SHOWN Therwise, for All.	╟─────────────────────────	•	BRICK VENT
SCHEMATIC 6/M-500	SUPPLY TO	SPACE		STRUC	ETER. SUPPORT FROM CTURE WITH NO RICTIONS.	DOUBLE TIE-WRAP		CT TAPE ILLE,		B" A.F.F. UNLESS NOTED OTHERWISE.	EF-X	EXHAUST DUCT	
UNIT SUPPLIED CONTROLLER	REFER TO F	E. ARCHITECTURA	RUBBER CAP.	4 BELL- FITTING	-MOUTH OR CONICAL SP IG W/SCOOP AND VOLUM	IN-IN 6 PROVIDE TRANSI NECESSARY TO	DIF GITION AS OR GET CO	FUSER, DUCT NNECTION		FLOOR		SIZE AS SHOWN	
FOLLOWING FUNCTIONS. PROGRAMMABLE NIGHT SETBACK	L TRANSITION REQUIRED. FLEX CONNEC	DISCHARGE		DAMPE EXTEN	ER SHOWN IN THIS VIEW NDED BRANCHES AND OT	Y. FROM FULL FL THER SIZE TO AVAILA	LEX DUCT ABLE NECK						CEILING
 7-DAY PROGRAMMABLE MODE SELECTION FOR CONTINUOUS FAN SYSTEM DUCTWO 	RK (TYP.)	SINK.		INSULA	ARRANGEMENTS ALSO ATION NOT SHOWN.	ADAPTER. INSU NOT SHOWN.		1	. ELECTRICAL CONTRACTOR TO INSTA STRING FOR CONTROLS. CON		EXHAUST GRILLE –		
WITH 1" ACOUSTI	FOR AUTOMATIC				ME DAMPER WITH CONTR	OL HANDLE N BLANKET.		D					
BOOFTOP A/C UNIT INSTAL		NTROL SCHEMAT	С	4		LEXIBLE DU	CT			TAT/SENSOR i SCHEMATIC			
M7.0 SCALE: NONE			<u> </u>	M7.0	CONNECT SCALE: NONE	ION SCHEMA			M7.0 SCALE: NONE				

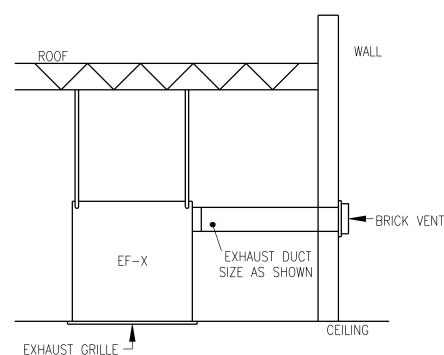
SYMBOL	RTU-1	PACKAGED ROOFTO	RTU-3	RTU-4	RTU-5	RTU-6				AIR DEVICE SCH	IEDULE	INSTALLATION	MANUFACTURER
SERVES AIRSIDE :	NORTH TAX OFFICE	SOUTH TAX OFFICE	1ST FLOOR WEST	1ST FLOOR EAST	2ND FLOOR EAST	2ND FLOOR WEST	SYMBOL A	TYPE CEILING ALL STEEI	, THREE STEP SOLIARE DIFFUS	DESCRIPTION ER, NOMINAL FACE PER DRAWINGS	S, ADJUSTABLE	TYPE LAY–IN	MODEL NO.
SUPPLY DISCHARGE RETURN DISCHARGE	SIDE SIDE	SIDE SIDE	DOWN DOWN	DOWN DOWN	DOWN DOWN	DOWN DOWN		SUPPLY AIRFLOW	BALANCING DAMPER BLADES IN	THE NECK WITH FRONT ACCESS, N CEILING SPECIFIED, 4-WAY THROW	IECK SIZE		
TOTAL CFM (MAXIMUM/MINIMUM)	3000	3000	3900	3800	3850	4000		SPECIFIED	OTHERWISE.				
MINIMUM OUTSIDE AIR CFM SUPPLY BLOWER MOTOR HP(DRIVE)	1 HP (BELT)	1 HP (BELT)	5 HP (BELT)	5 HP (BELT)	5 HP (BELT)	5 HP (BELT)			, DOUBLE DEFLECTION BLADES	AT 3/4" SPACING, FRONT BLADES	PARALLEL TO LONG	WALL	TITUS 300RL
EXTERNAL STATIC PRESSURE ("W.G.) INITIAL FILTERS MERV 8 QTY(SIZE)	0.50 (4) 20x25x2	0.50 (4) 20X25X2	0.50 (3) 20x25x2	0.50 (3) 20x25x2	0.50 (3) 20x25x2	0.50 (3) 20x25x2		ONCENTRIC COMBINAT		I DIFFUSER AND RETURN AIR EGGC	CRATE, NOMINAL	EXPOSED NO CEILING	TITUS CRS-P (WITH PLENUM)
	(4) 20/23/2		(2) 20×23×2 (2) 20×30×2	(3) 20×23×2 (2) 20×30×2	(2) 20X23X2 (2) 20X30X2	(2) 20X23X2 (2) 20X30X2		RETURN	FACE, 4-WAT HORIZONTAL AIRFL	.ow.			
COOLING : NOMINAL TONS	7.5	7.5	10.0	10.0	10.0	10.0	NOTES : 1. AIR	DEVICES SCHEDULED 1	O BE MANUFACTURED BY TITUS	. KRUEGER, METALAIRE, CARNES,	J & J, NAILOR, PRICE, AND TUT	TLE & BAILEY ARE	
MINIMUM TOTAL CAPACITY, MBH MINIMUM SENSIBLE CAPACITY, MBH	80.5 79.6	69.8 68.7	96.6 94.5	97.4 96.7	90.4 89.2	103.3 102.4		SIDERED EQUIVALENT	ANUFACTURERS.	WHITE OR OFF-WHITE IN COLOR.			
TYPE OF REFRIGERANT	R-410A	R-410A	R-410A	R-410A	R-410A	R-410A	3. ALL	JOISTS, CONDUITS, PIF	PING AND EQUIPMENT ABOVE OF	PEN RETURN AIR DEVICES SHALL B	E PAINTED BLACK FOR AN AREA	OF 2 FEET	
NUMBER OF REFRIGERANT CIRCUITS/STAGES ENTERING RETURN AIR TEMPERATURE, oF DB/WB	2.0 80/64	2.0	<u> </u>	2.0 80/64	2.0	2.0	ON	ALL SIDES OF THE AIR	P. DEVICE.				
OUTDOOR AMBIENT TEMPERATURE, oF SPECIFIED UNIT'S (EER/SEER)	105 12.6 EER	105 12.6 EER 11	105 2.5 EER	105 12.5 EER	105 12.5 EER	105 12.5 EER							
TYPE OF ECONOMIZER	ENTHALPY	ENTHALPY	ENTHALPY	ENTHALPY	ENTHALPY	ENTHALPY	-						
HEATING : ENTERING RETURN AIR TEMPERATURE, oF DB/WB	68.0	68.0	68.0	68.0	68.0	68.0	-						
OUTDOOR AMBIENT TEMPERATURE, oF TYPE OF FUEL	20.0 NATURAL GAS	20.0 NATURAL GAS	20.0 NATURAL GAS	20.0 NATURAL GAS	20.0 NATURAL GAS	20.0 NATURAL GAS	-						
MINIMUM INPUT, MBH	150.0	150.0	200.0	200.0	200.0	200.0	-				٨		
MINIMUM OUTPUT, MBH SPECIFIED UNIT'S (A.F.U.E.)	120.0 80.0%	120.0 80.0% 8	160.0 0.0%	160.0 80.0%	160.0 80.0%	160.0 80.0%	4			FIRE DAMPER BLADES —		- MOUNTING ANGLE TYPICAL	
NUMBER OF STAGES	2	2	2	2	2	2							
ELECTRICAL : VOLTAGE/PHASES	460V /3P	460V /3P	460V /3P	460V /3P	460V /3P	460V /3P	-			SLEEVE		- FIRE DAMPER (VERT. OR HORIZ.)	
MINIMUM CIRCUIT AMPACITY MAXIMUM OVERCURRENT PROTECTION	19.9 MCA 25A	19.9 MCA 25A	22.1 MCA	22.1 MCA 30A	22.1 MCA 30A	22.1 MCA					ᠴ <u>ᠯ</u> ᠘		
VEIGHT (LB):	930	930	1260	1260	1260	1260	-						
IRANE MODEL NUMBER NOTES :	YHC092F4RMA	YHC092F4RMA	YHC120E4RMA	YHC120E4RMA	YHC120E4RMA	YHC120E4RMA	-						
1. TRANE UNITS HAVE BEEN PURCHASED BY, AND ARE TO BE INST.													
 PROVIDE EACH PACKAGED UNIT WITH AN INSULATED FACTORY RC EXTERNAL STATIC PRESSURE INCLUDES PLENUMS, DUCTWORK, AND 	ND DAMPERS. WET COIL AND FILTERS A	ARE INCLUDED AS INTERNAL F								\leq \rightarrow			
4. COOLING CAPACITIES ARE RATED AT ENTERING AIR CONDITIONS A DEDUCTED. SEER'S (OR EER'S) ARE RATED AT ARI CONDITIONS.	ND AMBIENT TEMPERATURES AS SHOWN	N. CAPACITIES ARE GROSS WI		от							GA. GALV. ∫STEEL		
5. PROVIDE UNIT WITH ECONOMIZER WITH ENTHALPY CONTROL WITH	BAROMETRIC EXHAUST/RELIEF.	.,								`	SLEEVE	ACCESS	
6. RUN CONDENSATE DRAIN LINE FULL SIZE TO IN CEILING SPACE7. PROVIDE PROGRAMMABLE THERMOSTAT TO OPERATE AS FOLLOWS		AN-OFF/AUTO SWITCH AND C	OOL-OFF-AUTOMATIC-H	EAT						 	╡ <u>║╴</u> ║╵ _╈ ═╵	DOOR	
POSITIONS, WITH TWO SETPOINT THERMOSTAT (HEATING SETTING A 8. PROVIDE AND INSTALL SMOKE DETECTOR IN THE RETURN AIR ST	AND COOLING SETTING).									DUCT (W×H)	Щ///// \	"c" chin pprovident	
C. CROUDE AND INSTALL SMOKE DETECTOR IN THE RETURN AIR ST	AIR INTAKE /	THE SUITE AN STREAM FUR					1			OR REGISTER		"S" SLIP-BREAKAWAY - CONNECTION.	
EXHAUST FAN SCHEDULE										SEE DWG		CONSTRUCT AIRTIGHT	
SYMBOL	EF-1 EF-2	EF-3 EF-4		EF-6		-8 EF-9	EF-10	EF-11	EF-12	-		- FIRE BARRIER PER	
	CT ROOM 136 IT CLOSET 124 CEILING CEILING	MEN 142 JANITOR CEILING CEILING		H/C RR 116 H CEILING	I/C RR 115 ELEV. ME CEILING CEIL	ECH 147 IT ROOM 219 LING CEILING	JANITOR 208 CEILING	B MEN 210 CEILING	WOMEN 207 CEILING			ARCHITECTURAL	
TYPE	CENT. CENT.	CENT. CENT.	CENT.	CENT.	CENT. CE	NT. CENT.	CENT.	CENT.	CENT.			DRAWINGS	
DRIVE	12085DIRECTDIRECT	190 120 DIRECT DIREC		160 DIRECT	DIRECT DIRI		DIRECT	335 DIRECT	230 DIRECT		ER SCHEMATIC		
EXTERNAL STATIC PRESSURE (IN. W.G.) SOUND LEVEL IN SONES	0.5 0.5 3.0 3.6	0.5 0.5 6.5 3.0		0.5	0.5 0.	.5 0.5 5.1 3.0	0.5	0.5	0.5 7.0	SCALE: NONE			
FAN MOTOR POWER – HP (WATTS)	72 W 72 W	136 W 72 W	136 W	104 W	104 W 48.	1 W 72 W	48.1 W	236 W	161 W	HVAC EQUIPMENT INST	ALL /		К ТО
NOMINAL FAN R.P.M. VOLTAGE / PHASE 1	1100 1100 20V / 1P 120V / 1P	1400 1100 120V / 1P 120V /		1300 120V / 1P	1300 10 120V / 1P 120V	000 1100 / 1P 120V / 1P	1000 120V / 1P	1075 120V / 1P	1500 120V / 1P	LEVEL ON CURB. ATT		STRIBPBASE W/SH	EET
METHOD OF CONTROL TH	HERMOSTAT THERMOSTAT	EMCS EMCS	EMCS	EMCS	EMCS THERM	IOSTAT THERMOSTAT	EMCS	EMCS	EMCS	TO CURB PER MANUFACTURER'S		ARBBNDIELD	L
ROOF CURB OR WALL LOUVER WEIGHT (LB)	N/A N/A 15 15	BV1 BV1 16 15	BV1 16	BV1 15		V1 N/A 5 15	<u>N/A</u> 15	BV1 35	BV1 16	RECOMMENDATIONS		APPLIED	
LOREN COOK MODEL NO. NOTES:	GC-144 GC-144	GC-182 GC-14	4 GC-182	GC-164	GC-164 GC-	-142 GC-144	GC-142	GC-640	GC-184	ANCHOR UNIT TO CURB B ASE		_	
 FANS ARE SCHEDULED TO BE MANUFACTURED BY LOREN COOK AIRFLOW CONDITIONS RATED AT 4,000 FEET ALTITUDE. 	. ACME, TWIN CITY, AND CARNES ARE	CONSIDERED EQUIVALENT MAI	NUFACTURERS.							FACTORY SUPPLIED			
3. EACH DIRECT DRIVE FAN SHALL BE PROVIDED AND INSTALLED N	WITH A SOLID STATE SPEED CONTROLLI	ER FOR BALANCING AND DISC	ONNECT MEANS. EACH							CURB BASE		DUCT CONNECTION	
 V-BELT DRIVE SHALL BE PROVIDED AND INSTALLED WITH ADJUS PROVIDE AND INSTALL FLEXIBLE CONNECTIONS ON INLET AND CONNECTIONS ON CONNECTIONS ON INLET AND CONNECTIONS ON CONNE		TED ON DRAWINGS										NAILING STRIF	
5. EXHAUST FANS – SEQUENCE OF OPERATIONS:										CANT AND Flashing by		PRE-INSULATED	
EF-1 EACH SHALL BE CYCLED FROM THERMOSTAT IN ROOM. EF-2 EACH SHALL BE CYCLED FROM THERMOSTAT IN ROOM.										ROOFER		-FACTORY ROOF CURB	
EF-3 EACH SHALL BE CONTROLLED BY ENERGY MANAGEMENT EF-4 EACH SHALL BE CONTROLLED BY ENERGY MANAGEMENT												SYSTEM_DUCTWORH	
EF-5 EACH SHALL BE CONTROLLED BY ENERGY MANAGEMENT	SYSTEM.												
EF-6 EACH SHALL BE CONTROLLED BY ENERGY MANAGEMENT EF-7 EACH SHALL BE CONTROLLED BY ENERGY MANAGEMENT													
EF-8 EACH SHALL BE CYCLED FROM THERMOSTAT IN ROOM.												DUCT CONNECTION (IBLE DUCT CONNECTOR	
EF-10 EACH SHALL BE CONTROLLED BY ENERGY MANAGEMENT										✓/ `		(IBLE DUCT CONNECTOR	
EF-11 EACH SHALL BE CONTROLLED BY ENERGY MANAGEMENT 6. FANS SHALL HAVE FACTORY ROOF CURB, VIBRATION HANGERS,		LURED) AND GRAVITY BACK D	RAFT DAMPER							ROOF SYSTEM COORDINATE		K WELD ROOF	
										WITH		B TO STRUCTURE 18"O.C.	
										ARCHITECTURAL DRAWINGS	∽ ROOF	OPENING AND	
												ノ	
	DETECTOR INTERLOCK									M7.0 CURB	SCHEMATIC		
	NATE WITH OTHER									SCALE: NONE			
DIV. 16	FOR EXACT WIRING			NOT			\mathbf{x}	1/2" METALL By fifetric	IC RACEWAY				
	CONDENSATE DRAIN			$\begin{pmatrix} 1 \end{pmatrix}$	INNER LINER OF FLEX DUC DOUBLE STRAPPED (WITH F TIE-WRAPS) TO DIFFUSER	CI IO BE	AIR DUCT	S BY ELECTRIC		HVAC EQUIP.			
WIRING.	WITH P-TRAP.				TIE-WRAPS) TO DIFFUSER FIRST THEN DUCT TAPFD O	WFR STRAPS (.)(a) I	\gg \checkmark		(((\ L				
	PLUMBING	REFER T			FIRST THEN DUCT TAPED O ALL CONNECTIONS TO BE A	air tight.		NFW		NSOR WIRING (MUST		Г	7
TRANSFORMER – SEE			SATE DRAIN FI X/M-X.	(2)	PULL FLEX DUCT'S INSULAT LINER OVER INNER LINER U			EXISTI		IN CONDUIT ONLY) CEILING	ROOF		WALL
ADDITIONAL CONTROL REQUIREMENTS AS NOTED					NECK THEN DOUBLE STRAP	$(WITH PLASTIC I \mathbf{M}$	4	WALL	\ 8	CONDUIT IN WALL ONLY			
ON DRAWINGS AND SPECIFICATIONS.		UNION			TIE WRAPS) TIGHTLY. TOTAL WRAPS PER CONNECTION.	- OF 4 TIE	DIFFUSER OR		1 12	RICAL CONTRACTOR			
	OPEN TO	GAS COCH	<	(3)	RUN A MAXIMUM OF 5 LINE	EAR ALL AIR 6	RETURN GRILLE		NEW T-1				
DIVISION 15 CONTROL CONDUIT WIRING PROVIDE	ATMOSPHERE			\bigcirc	FEFT OF FLEX DUCT FOR A	all air (6) \sim \sim	(1)(2)	NEW WALL BO	DX SENSOR				
AS REQUIRED FOR UNIT					INLETS AND OUTLETS AS SI INSTALL WITHEVEN RADIUS TO ALLOW FULL FLOW WITH	BENDS OUTER	INNER LIN	ER SECURED TO		I–STAT OR BY LIGHT SWITCH			
		GAS PIP	ING. IATE WITH		RESTRICTIONS. RADIUS OF	FLEX DUCT /	DOUBLE	ELECTRICAL		SHOWN		₩,↓	_h
FACTORY CURB.			<u>G</u> PORTALS -	- PLUS ALUMA	ELBOW TO BE 2 TIMES THE DIAMETER. SUPPORT FROM	E DUCT	TIE-WR	AP CONTRACTOR APE	OTHERWI	SE, FOR ALL.			BRICK VENT
SCHEMATIC 6/M-500	SUPPLY TO S	PACE	– FLASH F	ROOF	STRUCTURE WITH NO RESTRICTIONS.	DOUBLE	GRILLE,		48" A.F.F	UNLESS NOTED OTHERWISE.	EF-X	\ EXHAUST_DUCT	
UNIT SUPPLIED CONTROLLER	REFER TO PL/ FOR USAGE.	AN CD -2 ROOF SYS		-		SPIN-IN 6 PROVIDE TRANSI	ITION AS OR DUC GET CONNEC	LK, CT				SIZE AS SHOWN	
Located in space with the \neg $ $	TRANSITION ,	AS AS			BELL-MOUTH OR CONICAL S FITTING W/SCOOP AND VOLI DAMPER SHOWN IN THIS VII	SPIN-IN 6 PROVIDE TRANSI UME NECESSARY TO EW. FROM FULL FL OTHER SIZE TO AVAIL	GET CONNEC			FLOOR			
FOLLOWING FUNCTIONS. • PROGRAMMABLE NIGHT SETBACK • AUTO CHANGEOVER	REQUIRED.	DISCHA	RGE INTO MOP		EXTENDED BRANCHES AND	OTHER SIZE TO AVAILA	ABLE	<u>NOTE</u> :			<u>'</u>	<u>_</u>	CEILING
• 7-DAY PROGRAMMABLE	(TYP.)	SINK.			DUCT ARRANGEMENTS ALSO INSULATION NOT SHOWN.	O APPLY. UNIT SUPPLIED ADAPTER. INSU	JLATION		L CONTRACTOR TO INSTALL CON		EXHAUST GRILLE –		
MODE SELECTION FOR CONTINUOUS FAN DUCTWOI WITH 1"	FOR AUTOMATIC				VOLUME DAMPER WITH CON	NOT SHOWN.		DEVICES.	FOR CONTROLS. CONTRACTO	AN TO INSTALL WIKE			
ACOUSTI	CAL FAN SHUT-DOWN				EXTENDED BEYOND INSULAT	ION BLANKET.	AT		THERMOSTAT				
BOOFTOP A/C UNIT INSTAL						FLEXIBLE DU		5				MOUNTED	
	_LATION AND GON		H I I L Z			TION SCHEMA							

EF-5	EACH SHALL	BE	CONTROLLED	ΒY	ENERGY	MANAGEMENT	SYSTEM.
EF-6	EACH SHALL	ΒE	CONTROLLED	ΒY	ENERGY	MANAGEMENT	SYSTEM.

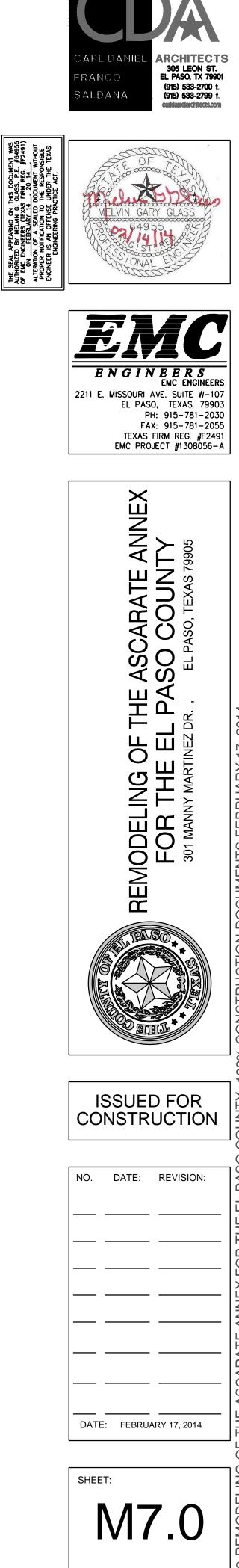












MECHANICAL SCHEMATICS

17, 2014 EBRUARY LL VTS

01

ELECTRICAL NOTES

GENERAL 1. THESE ELECTRICAL GENERAL NOTES ARE APPLICABLE TO ALL SHEETS IN THIS PROJECT SET. ELECTRICAL WORK ON THESE DRAWINGS ARE GOING TO BE DONE BY THE OWNER'S PERSONNEL AND THE CONTRACTOR, REFER TO THE DRAWINGS FOR FURTHER INFORMATION.

- 2. THE ELECTRICAL WORK SHALL BE PERFORMED IN STRICT ACCORDANCE WITH THE APPLICABLE AND ADOPTED PROVISIONS OF THE FOLLOWING CODES:
 - 2008 NATIONAL ELECTRICAL CODE 2009 INTERNATIONAL BUILDING CODE
 - 2009 INTERNATIONAL PLUMBING CODE
 - 2009 INTERNATIONAL MECHANICAL CODE 2009 INTERNATIONAL FIRE CODE
 - 2009 INTERNATIONAL FUEL CODE

2009 INTERNATIONAL ENERGY CONSERVATION CODE AS ADOPTED AND INTERPRETED BY THE STATE OF TEXAS, CITY OF EL PASO AND THE NATIONAL

FIRE PROTECTION ASSOCIATION (NFPA) REGULATIONS, CURRENT ADOPTED EDITIONS REGARDING ELECTRICAL SYSTEMS, FIRE PROTECTION AND ALARM SYSTEMS AND MECHANICAL SYSTEMS.

- THE CONTRACTOR SHALL COORDINATE WITH OWNER, ARCHITECT, AND ENGINEER ANY WORK THAT HAS THE POTENTIAL TO HINDER ELECTRICAL SERVICES TO AREAS OUTSIDE OF THIS CONTRACT. ALL SHUT-DOWNS OR TIE-INS RELATING TO THESE SYSTEMS SHALL BE SCHEDULED AND SUBMITTED IN WRITING TO BE APPROVED BY THE OWNER'S FACILITY MANAGEMENT, OWNER, ARCHITECT, OR ENGINEER. CONTRACTOR SHALL SUBMIT IN WRITING A SCHEDULE FOR PHASING OF CONSTRUCTION THAT INDICATES AREAS OF FIRST PRIORITY DURING EACH PHASE AND ANTICIPATED COMPLETION TIMES. SCHEDULES SHALL BE SUBMITTED A MINIMUM OF ONE WEEK PRIOR TO COMMENCING WORK. FACILITY MANAGEMENT, OWNER, ARCHITECT OR ENGINEER SHALL REVIEW THESE SCHEDULES AND NOTIFY CONTRACTOR OF ACCEPTANCE PRIOR TO COMMENCEMENT OF WORK.
- 4. ALL MATERIALS AND LABOR NECESSARY TO COMPLY WITH CODES AND RULES, REGULATIONS AND ORDINANCES SHALL BE PROVIDED. WHERE THE DRAWINGS AND/OR SPECIFICATIONS INDICATE MATERIALS OR CONSTRUCTION IN EXCESS OF CODE REQUIREMENTS, THE DRAWINGS AND/OR SPECIFICATIONS SHALL GOVERN. THE CONTRACTOR SHALL HOLD AND SAVE THE OWNER, ARCHITECT AND ENGINEERS FREE AND HARMLESS FROM LIABILITY OF ANY NATURE OR KIND ARISING FROM HIS FAILURE TO COMPLY WITH ALL APPLICABLE CODES AND ORDINANCES.
- BIDDERS SHALL VISIT THE SITE AND SHALL BE RESPONSIBLE FOR HAVING ASCERTAINED PERTINENT LOCAL CONDITIONS SUCH AS LOCATION, ACCESSIBILITY AND GENERAL CHARACTER OF THE SITE, THE CHARACTER AND EXTENT OF THE WORK WITHIN THE BUILDING AND TO BECOME FAMILIAR WITH ALL OTHER WORK TO BE PERFORMED AT THIS TIME. NO ADDITIONAL COMPENSATION WILL BE ALLOWED DUE TO CONTRACTOR'S FAILURE TO DETERMINE ALL CONDITIONS UNDER WHICH THE WORK IS TO BE PERFORMED.
- BEFORE YOU DIG ALL EXISTING UTILITIES I.E. WATER, SEWER, GAS, FIRE LINE, ELECTRICITY, TELEPHONE, CABLE, IRRIGATION LINES, SHALL BE LOCATED AND CLEARLY MARKED IN ORDER TO AVOID UNNECESSARY SHUT DOWNS AND EMERGENCY.
- EACH CONTRACTOR SHALL GIVE ALL REQUISITE NOTICES, OBTAIN AND PAY FOR ALL PERMITS, DEPOSITS AND FEES (INCLUDING UTILITY CONNECTIONS FEES, TAP FEES, ANY UTILITY EXTENSION FEES, IMPACT FEES, AND DEVELOPMENT FEES) NECESSARY FOR THE INSTALLATION OF WORK UNDER THESE NOTES. TWO (2) COPIES OF CERTIFICATES OF APPROVAL SHALL BE OBTAINED FROM ALL AUTHORITIES ISSUING SAME AND SHALL BE TURNED OVER TO OWNER, ARCHITECT, ENGINEER PRIOR TO FINAL ACCEPTANCE OF THE WORK.
- REQUIRED INSURANCE SHALL BE PROVIDED BY THIS CONTRACTOR FOR PROTECTION AGAINST PUBLIC LIABILITY AND PROPERTY DAMAGE FOR THE DURATION OF WORK. CONTRACTOR SHALL SECURE AND PAY ALL PERMITS, FEES, INSPECTIONS, AND TESTS UNLESS OTHERWISE INDICATED. COORDINATE WITH ARCHITECT, ENGINEER OR OWNER. SUBSTITUTIONS REQUESTED BY THE CONTRACTOR SHALL BE PAID FOR BY THE CONTRACTOR.
- 9. ALL WORK SHALL CONFORM WITH FEDERAL, STATE, AND LOCAL CODES, RULES, AND REGULATIONS. ALL WORK SHALL BE PERFORMED BY A LICENSED CONTRACTOR IN A FIRST CLASS WORKMANLIKE MANNER. THE SYSTEMS SHALL BE INSTALLED COMPLETE AND FULLY OPERATIVE UNLESS OTHERWISE INDICATED.
- 10. CONTRACTOR SHALL FIELD VERIFY EXISTING CONDITIONS AND PROVIDE A WRITTEN REPORT TO THE ARCHITECT AND THE ENGINEERING OFFICES. THIS REPORT SHALL DESCRIBE EXISTING DAMAGE OR OTHER CONDITIONS THAT MAY INTERFERE WITH THIS PROPOSED NEW WORK. THIS SITE SURVEY SHALL ALSO INCLUDE VERIFICATION OF SIZES, LOCATIONS, AND CONDITIONS OF EXISTING UTILITIES. QUESTIONS REGARDING THESE DRAWINGS SHALL BE ADDRESSED TO THE ENGINEER PRIOR TO THE AWARDING OF THE CONTRACT. OTHERWISE THE ENGINEER'S INTERPRETATION OF THE MEANING AND INTENT OF THE DRAWINGS SHALL BE FINAL.
- 11. WHERE STRUCTURE IS ALTERED OR DAMAGED DURING CONSTRUCTION, INSTALLATION AND REMOVAL OF EQUIPMENT OR FIXTURES, THE CONTRACTOR SHALL REPAIR THE AREA TO MATCH SURROUNDING AREA PER ARCHITECTURAL SPECIFICATIONS, CUTTING, TRENCHING, AND PENETRATIONS THROUGH FIRE WALL, CONCRETE AND OTHER STRUCTURES ARE A PART OF THIS PROJECT SCOPE AND SHALL BE INCLUDED IN THE CONTRACTOR'S BID. ALL EXCAVATION AND BACKFILLING REQUIRED FOR ELECTRICAL WORK IS ALSO INCLUDED AS PART OF THIS CONTRACT AND SHALL BE INCLUDED IN CONTRACTOR'S BID.
- 12. ALL SYSTEMS AND COMPONENTS SHALL BE APPROVED FOR THE PURPOSE FOR WHICH INSTALLED. ALL EQUIPMENT AND MATERIALS SHALL BE NEW AND FROM ESTABLISHED AMERICAN SUPPLIERS UNLESS OTHERWISE INDICATED.
- 13. ALL EQUIPMENT PARAMETERS SHOWN ARE FOR PERFORMANCE AT SITE ALTITUDE. SUPPLIERS SHALL SELECT AND DEMONSTRATE THAT THEIR EQUIPMENT MEETS THE DESIGN CONDITIONS AT SITE ALTITUDE.
- 14. ELECTRICAL CONTRACTOR SHALL COORDINATE WITH MECHANICAL CONTRACTOR THE MECHANICAL EQUIPMENT'S ELECTRICAL REQUIREMENTS, INCLUDING POWER, CONTROL, COMMUNICATION, AND MONITORING, OF EACH DEVICE PROVIDED AND/OR INSTALLED BY MECHANICAL CONTRACTOR.
- 15. SUPPORT SYSTEM FOR EQUIPMENT SUPPORTED BY THE BUILDING STRUCTURE SHALL BE SUBMITTED TO THE STRUCTURAL ENGINEER VIA ARCHITECT FOR APPROVAL PRIOR TO PURCHASE AND INSTALLATION. NO WIRE OR PERFORATED STRAP WILL BE PERMITTED FOR ANY HANGER OR SUPPORT.
- 16. THE CONTRACTOR SHALL NOT SCALE THE CONTRACT DOCUMENTS. THE CONTRACT DOCUMENTS ARE DIAGRAMMATIC IN NATURE AND DO NOT COMPLETELY DEPICT ALL EXISTING CONDITIONS IN THE AREA.
- 17. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO LOOK THROUGH ALL DRAWINGS ASSOCIATED WITH THIS PROJECT. WORK ASSOCIATED WITH THE ELECTRICAL CONTRACTOR'S TRADE MAY BE SHOWN ON OTHER DRAWINGS. ANY ADDITIONAL COSTS RESULTING FROM THE FAILURE TO INCLUDE THESE ITEMS SHOWN ON OTHER DRAWINGS WILL BE INCURRED BY THE CONTRACTOR. SHOULD THE CONTRACTOR ENCOUNTER ANY DISCREPANCIES OR INCONSISTENCIES IN THE CONSTRUCTION DOCUMENTS, THE MORE STRINGENT SHALL GOVERN.
- 18. PROVIDE OWNER WITH THREE (3) COPIES OF ALL INSTALLATIONS INSTRUCTIONS, PRODUCT DATA SUBMITTAL INFORMATION, WARRANTIES, CONTACT INFORMATION DURING WARRANTY PERIOD AND BALANCING REPORTS IN 3-RING BINDERS.
- 19. CONTRACTOR SHALL MAKE NO PENETRATIONS WHATSOEVER OF WALLS FORMING PART OF A STAIRWELL, AN EXIT PASSAGEWAY, OR OTHER TWO-HOUR RATED WALLS. ALL CONDUITS SHALL RUN PARALLEL TO WALLS.
- 20. CONTRACTOR SHALL SAW CUT AND PATCH ASPHALT, CONCRETE OR OTHER MATERIAL ENCOUNTERED AS REQUIRED TO INSTALL NEW UNDERGROUND RACEWAY. REFER TO ARCHITECTURAL SPECIFICATIONS REGARDING PATCHING REQUIREMENTS.
- 21. CONTRACTOR SHALL PROVIDE AND INSTALL IDENTIFICATION TAGS FOR EQUIPMENT AND CONDUITS PER ASME 13.1 SCHEME OF IDENTIFICATION FOR PIPING. BURIED ELECTRICAL CONDUITS SHALL BE MARKED PER CODE REQUIREMENTS WITH UNDERGROUND WARNING TAPE 3" BELOW FINISHED GRADE. TAPE SHALL BE 4" WIDE COLORED RED WITH SUITABLE WARNING LEGEND PER ASME A13.1 SCHEME OF IDENTIFICATION FOR PIPING.
- 22. THE ELECTRICAL CONTRACTOR SHALL PROVIDE AND HAVE INSTALLED ANY ACCESS DOOR REQUIRED TO ACCESS ELECTRICAL EQUIPMENT AND/OR JUNCTION BOXES THAT REQUIRES ACCESS BEHIND GYPBOARD OR HARD CEILINGS AND IN WALLS. THE ELECTRICAL CONTRACTOR SHALL PROVIDE THE GENERAL CONTRACTOR WITH THESE ACCESS DOORS FOR INSTALLATION IN THE CEILING OR WALL, ACCESS DOORS SHALL BE RATED FOR THE WALL, FLOOR, OR CEILING TYPE AND SHALL BE A MINIMUM SIZE OF 12"X12".

- 23. SITE VISIT REPORTS:
 - DATE OF SITE VISIT BY THE ENGINEER, DATE OF RECEIPT OF THE SITE VISIT REPORT
 - NAME AND TITLE OF THE PREPARER OF THE RESPONSE.
 - A BRIEF THREE OR FOUR WORD DESCRIPTION OF THE ITEM.
 - THE PROPOSED COURSE OF ACTION, AND
- 24. FINAL PUNCH REPORTS: THE REQUEST OF THE ENGINEER.
- CONSTRUCTION.
- 26. SUBMITTAL REQUIREMENTS:

 - C. REQUIREMENTS FOR EACH SUBMITTAL:
 - SPECIFICALLY NOTED BY ENGINEER),
 - THE SAME PAGE.
 - EQUIPMENT.
 - 6.
- 27. REQUIRED SHOP DRAWING SUBMITTALS: DISCONNECTS INCLUDING FUSES OR MAGNETIC STARTERS GROUNDING В.
 - WIRING C.,
 - CONDUIT D
 - FIRE ALARM DEVICES INTERIOR LIGHTING FIXTURES
 - G JUNCTION BOXES AND ENCLOSURES

ELECTRICAL:

- TO MATCH ADJACENT SURFACES.
- WEATHERPROOF COVERS.
- DOOR SWINGS.
- OTHERWISE.
- **REQUIREMENTS.**
- CONTRACTOR BEFORE SUCH PENETRATIONS ARE MADE.
- BACK-SPLASH, REGARDLESS OF DIMENSION SHOWN ON DRAWINGS.

DURING THE COURSE OF THE JOB, THE ENGINEER WILL MAKE SITE VISITS TO OBSERVE WORK IN PROGRESS AND WILL SUBSEQUENTLY PREPARE A WRITTEN SITE VISIT REPORT, WHICH WILL BE SENT TO THE CONTRACTOR AND TO WHOMEVER ELSE THE ENGINEER DESIRES. THE CONTRACTOR SHALL PREPARE A WRITTEN AND TYPED RESPONSE WITHIN SEVEN (7) CALENDAR DAYS OF HIS RECEIVING THE SITE VISIT REPORT. THE CONTRACTORS SHALL ACCOMPANY THE ENGINEER DURING THE FINAL PUNCHLIST VISIT UPON THE REQUEST OF THE ENGINEER. THE GENERAL CONTRACTOR SHALL INCLUDE IN HIS RESPONSE TO THE FOLLOWING INFORMATION.

- AN ITEM NUMBER REFERENCED TO THE SITE REPORT,
- THE CONTRACTOR OR SUBCONTRACTOR AFFECTED,
- 8 AN EXPECTED TIME OF COMPLETION OF THE ACTION.

AT THE COMPLETION OF THE JOB, THE ENGINEER WILL MAKE PUNCHLIST SITE VISITS TO OBSERVE COMPLETED WORK AND WILL SUBSEQUENTLY PREPARE A WRITTEN SITE VISIT PUNCHLIST REPORT, WHICH WILL BE SENT TO THE CONTRACTOR AND TO WHOMEVER ELSE THE ENGINEER DESIRES. THE CONTRACTOR, UPON COMPLETION OF THE LISTED PUNCHLIST ITEMS, SHALL PREPARE A TYPEWRITTEN RESPONSE TO THE LIST INDICATING COMPLETION OF EACH ITEM. THE CONTRACTOR SHALL INCLUDE IN HIS RESPONSE THE RESOLUTION OF EACH ITEM. THE CONTRACTORS SHALL ACCOMPANY THE ENGINEER DURING THIS FINAL PUNCHLIST VISIT UPON

25. ALL ELECTRICAL CONDUIT AND PANEL OPENINGS SHALL BE CAPPED DURING DEMOLITION AND

A. THE INTENT OF THIS SECTION IS TO GIVE GENERAL SUBMITTAL INFORMATION, REFER TO SPECIFIC SUBMITTAL INFORMATION IN THE SUBSEQUENT ELECTRICAL SECTIONS WITHIN 10 DAYS AFTER AWARD OF THE CONTRACT, AND BEFORE ORDERS ARE PLACED, CONTRACTOR SHALL SUBMIT SPECIFIC INFORMATION ON LIST OF EQUIPMENT AND PRINCIPAL MATERIALS SPECIFIED. CONTRACTOR SHALL INDICATE AND/OR PROVIDE NAMES OF MANUFACTURERS, CATALOG AND MODEL NUMBERS, CUT SHEETS, AND SUCH OTHER SUPPLEMENTARY INFORMATION AS NECESSARY FOR EVALUATION. MINIMUM OF SIX (6) COPIES, OR AS DIRECTED BY THE ENGINEER, OF EACH SHALL BE SUBMITTED AND SHALL INCLUDE ALL ITEMS MENTIONED BY MODEL NUMBER AND/OR MANUFACTURER'S NAME IN THE SPECIFICATIONS OR IN SCHEDULES ON THE DRAWINGS.

BEAR A DATED STAMP OR SPECIFIC WRITTEN INDICATION THAT THE CONTRACTOR HAS REVIEWED AND APPROVED ALL SUBMITTAL PRIOR TO SUBMISSION TO ENGINEER, 2. HAVE ALL INFORMATION DELETED BY CONTRACTOR THAT PERTAINS TO THE MEANS AND METHODS OF CONSTRUCTION OR TO FABRICATION, ASSEMBLY, INSTALLATION, OR ERECTION (APPROVAL BY ENGINEER SHALL NOT EXTEND TO THESE AREAS UNLESS

BE CLEARLY AND SPECIFICALLY MARKED AS TO WHICH SPECIFIC PIECE OF EQUIPMENT IS BEING SUBMITTED, BY USE OF A PERMANENT MARKER, STAMP, ETC., SO AS TO DISTINGUISH IT FROM OTHER PIECES OF EQUIPMENT THAT MAY OCCUR ON

4. BE CLEARLY AND SPECIFICALLY MARKED AS TO WHICH AVAILABLE OPTIONS ARE BEING SUBMITTED THAT ARE ASSOCIATED WITH A PIECE OF EQUIPMENT, AND BE COMPLETE WITH RESPECT TO QUANTITIES, DIMENSIONS, SPECIFIC PERFORMANCE, MATERIALS, AND SIMILAR DATA TO ENABLE THE ENGINEER TO REVIEW THE PROPOSED

5. OMISSION BY CONTRACTOR OF ANY OF THE ABOVE REQUIREMENTS OR SUBMITTALS WILL SUBJECT SUBMITTAL TO AUTOMATIC REJECTION WITHOUT REVIEW.

ANY SUBMITTALS RECEIVED BY ENGINEER THAT WERE NOT REQUESTED SHALL BE RETURNED WITHOUT REVIEW OF ANY KIND. SUBMITTALS SHALL INDICATE MINIMUM ACCESS AND SERVICE CLEARANCES IF REQUIRED BY THE SUBMITTED EQUIPMENT. D. INSTALLATION INSTRUCTIONS - FOR CERTAIN PRODUCTS OR SYSTEMS AS IDENTIFIED IN SUBSEQUENT SPECIFICATIONS SECTIONS OR ON THE DRAWINGS, THE CONTRACTOR SHALL BE REQUIRED TO PROVIDE COPIES OF MANUFACTURER'S INSTALLATION INSTRUCTIONS WITH THE SUBMITTAL. WHEN REQUIRED AS SUCH, THE INSTALLATION INSTRUCTIONS ARE CONSIDERED PART OF THE SUBMITTAL AND THEIR OMISSION MAY RESULT IN AUTOMATIC REJECTION OF THE SUBMITTAL. WHERE MORE THAN ONE IDENTICAL DEVICE ARE SCHEDULED, ONLY ONE SET OF INSTALLATION INSTRUCTIONS NEEDS TO BE SUBMITTED. E. THIS ENGINEER WILL REVIEW THE SUBMITTALS FOR APPROVAL TWICE. ANY ADDITIONAL REVIEWS THAT ARE REQUIRED BY THE ENGINEER FOR WHATEVER REASON AFTER THE INITIAL TWO REVIEWS WILL RESULT IN ADDITIONAL COMPENSATION FOR THE ENGINEER'S TIME BY THE SUBMITTING CONTRACTOR AT THE ENGINEER'S RATE.

DATA CABLING, TELEPHONE WIRING, AUDIO-VISUAL CABLING

28. ALL EXPOSED CONDUIT SHALL BE PAINTED TO MATCH ADJACENT SURFACES.

29. PROVIDE BLANK METAL COVERPLATE OVER ALL UNUSED OUTLET BOXES. PAINT COVERPLATE

30. RECEPTACLE AND DATA OUTLET MOUNTING HEIGHTS INDICATED ON THE DRAWINGS ARE APPROXIMATE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING WITH OTHER TRADES FOR EXACT HEIGHT REQUIRED. THIS REQUIREMENT ALSO APPLIES TO SWITCHES, TELEPHONE OUTLETS, DATA OUTLETS, HVAC SENSORS, ETC.. ANY DEVICE THAT HAS TO BE RELOCATED DUE TO CONTRACTOR'S FAILURE TO COORDINATE LOCATION WITH COUNTERTOPS, CHALKBOARDS, TACKBOARDS, ETC. WILL BE DONE AT NO ADDITIONAL COST TO THE OWNER.

31. ALL RECEPTACLES TO BE 20A SPECIFICATION GRADE, IVORY. WALL PLATES TO MATCH. ISOLATED GROUND DUPLEX RECEPTACLES (IG) WILL BE ORANGE BODY AND FACE PLATE. ALL EXTERIOR RECEPTACLE SHALL WEATHERPROOF GFCI AND SHALL HAVE WHILE IN USE METAL

32. COORDINATE WORK WITH ALL OTHER TRADES GIVING SPECIAL CONSIDERATION TO WORK DONE ABOVE CEILINGS, OUTLET LOCATIONS AT MILLWORK, AND SWITCH LOCATIONS IN REGARDS TO

33. WIRING SHALL BE #12 AWG, COPPER, IN MINIMUM 3/4" CONDUIT WITH CU. EGC., UNLESS NOTED

34. INSTALL WALL MOUNTED LIGHT FIXTURES, SWITCHES, OUTLETS, AND COMMUNICATION DEVICES IN STRICT COORDINATION WITH ARCHITECTURAL DETAILS, SECTIONS AND ELEVATIONS, AND ADA

35. FIRESTOPPING OF PENETRATIONS IN FIRE-RATED WALLS, FLOORS, ETC. SHALL BE DONE BY A FIRESTOPPING CONTRACTOR. ELECTRICAL CONTRACTOR SHALL MAKE REQUIRED PENETRATIONS IN RATED WALL, FLOORS, ETC. NEATLY AND WITH A CUTTING TOOL, THE CONTRACTOR SHALL MAKE THE PENETRATIONS NO LARGER THAN NECESSARY, AND THE CONTRACTOR SHALL COORDINATE ALL SUCH PENETRATIONS WITH THE FIRESTOPPING

36. FINISHED FLOOR ELEVATIONS FOR OUTLETS AND OTHER DEVICES ARE TO CENTER OF BOX. WHERE MILLWORK IS PRESENT, BOTTOM OF BOX SHALL BE MINIMUM OF 2" ABOVE

37. DOUBLE SET SCREW FITTINGS ARE ACCEPTABLE FOR STEEL CONDUIT AND COUPLINGS ONLY.

38. BEFORE INSTALLATION, EQUIPMENT AND DEVICES INCLUDING, BUT NOT LIMITED TO, ANY DEVICE WITH ELECTRICAL CONNECTIONS, DUCTWORK, INSULATION, PIPING, VALVES, AIR DEVICES, ETC., SHALL NOT BE STORED DIRECTLY ON GRADE OR ON A SLAB OR FLOOR. BEFORE AND AFTER INSTALLATION, SUCH EQUIPMENT AND DEVICES SHALL BE PROTECTED FROM ENTRY OF DIRT, TRASH, WATER (EXCEPT AS REQUIRED), VERMIN, ETC.

- 39. DEVICES THAT MIGHT CAUSE OR OPERATE WITH VIBRATION OR NOISE SHALL BE ISOLATED PER MANUFACTURER'S RECOMMENDATIONS AND/OR PER SPECIFICATIONS.
- 40. USE THE FOLLOWING WIRING COLOR CODE: A. FOR WIRE SIZES 10 AWG AND SMALLER, INSTALL WIRE COLORS IN ACCORDANCE WITH THE FOLLOWING:
- BLACK, RED, AND BLUE FOR CIRCUITS AT 120/208 VOLTS SINGLE OR THREE PHASE. ORANGE, BROWN, AND YELLOW FOR CIRCUITS AT 277/480 VOLTS SINGLE OR THREE PHASE. B. FOR WIRE SIZES 8 AWG AND LARGER, IDENTIFY WIRE WITH COLORED TAPE AT TERMINALS, SPLICES AND BOXES. COLORS ARE AS FOLLOWS:
- BLACK, RED, AND BLUE FOR CIRCUITS AT 120/208 VOLTS SINGLE OR THREE PHASE. BROWN, ORANGE, AND YELLOW FOR CIRCUITS AT 277/480 VOLTS SINGLE OR THREE PHASE. NEUTRAL CONDUCTORS: WHITE FOR 208/120V CIRCUITS. GREY FOR 480/277V CIRCUITS.
- BRANCH CIRCUIT CONDUCTORS: INSTALL THREE OR FOUR WIRE HOMERUNS WITH EACH PHASE UNIQUELY COLOR CODED. FEEDER CIRCUIT CONDUCTORS: UNIQUELY COLOR CODE EACH PHASE.
- F. GROUND CONDUCTORS: FOR 6 AWG AND SMALLER: GREEN.
 - 2. FOR 4 AWG AND LARGER: IDENTIFY WITH GREEN TAPE AT BOTH ENDS AND VISIBLE POINTS INCLUDING JUNCTION BOXES.

ELECTRICAL GENERAL NOTES

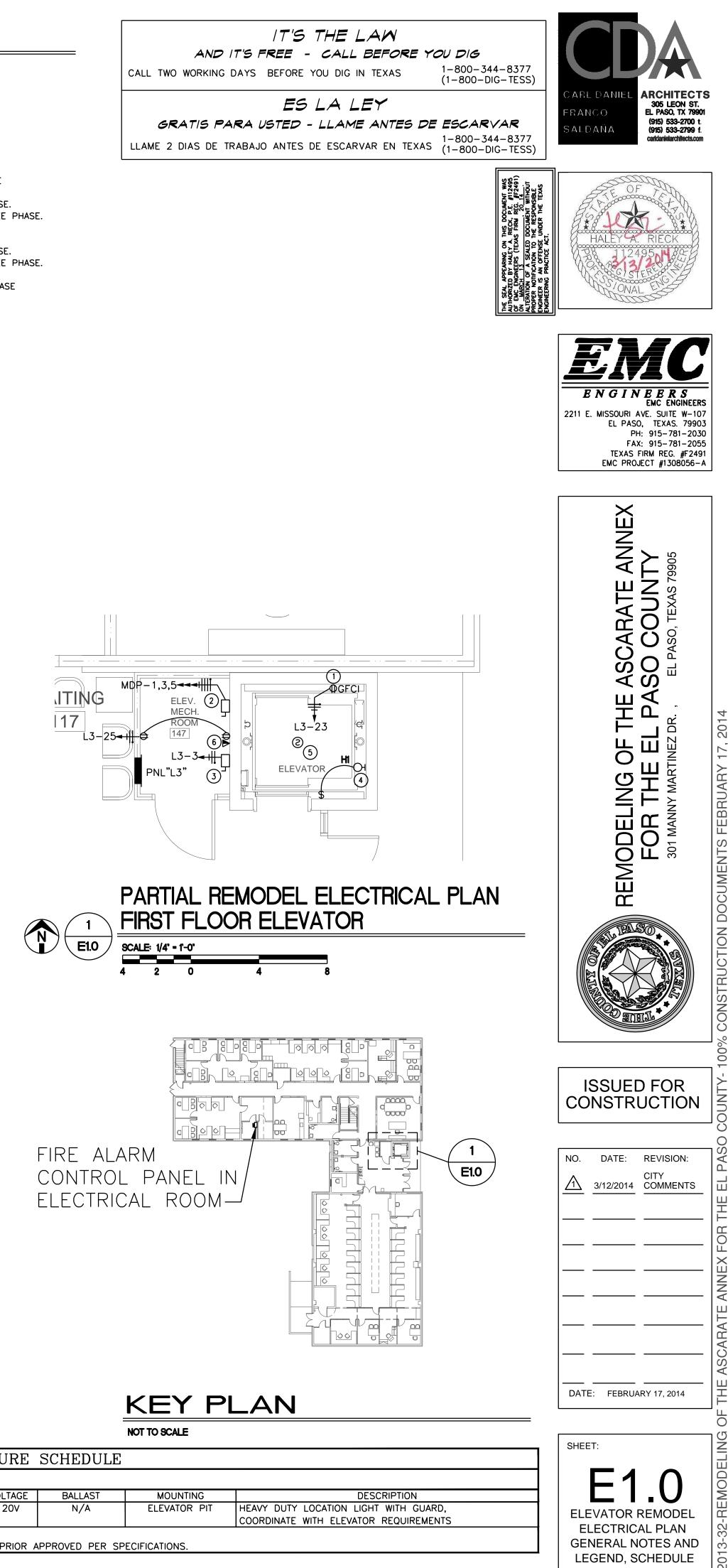
- 1 THE ELEVATOR IS BEING BID AS A SEPARATE PROJECT TO THE BUILDING RENOVATION, THE CONTRACTOR IS TO PROVIDE AND INSTALL THE ELECTRICAL POWER, COMMUNICATIONS, FIRE ALARM, AND LIGHTING SYSTEMS AS INDICATED ON THIS DRAWING. CLOSELY COORDINATE ALL CONSTRUCTION WITH COUNTY PERSONNEL AND THE BUILDING RENOVATION PROJECT.
- PROVIDE AND INSTALL ALL LABOR AND MATERIALS TO MEET THE ELECTRICAL REQUIREMENTS OF THE ELEVATOR MANUFACTURER PER THEIR INSTALLATION INSTRUCTIONS AND STANDARDS.

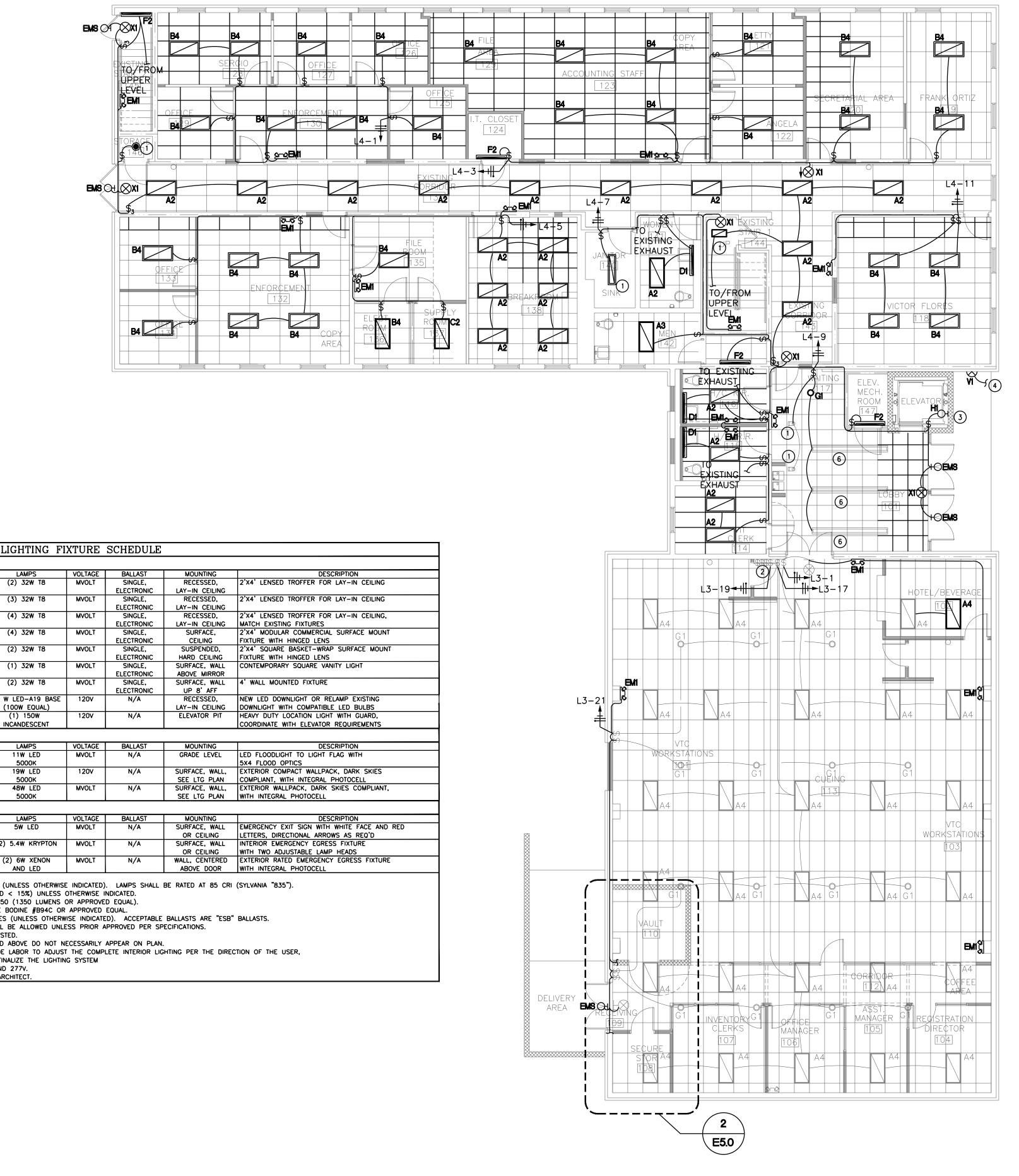
ELECTRICAL KEYED NOTES (#)

- (1)GFCI RECEPTACLE ON DEDICATED CIRCUIT PER SCHEMATIC ON SHEET 2/MP1.0. COORDINATE LOCATION OF RECEPTACLE WITH SUMP PUMP LOCATION PER STRUCTURAL DRAWINGS.
- (2) RENOVATION PROJECT TO PROVIDE 480V CIRCUIT OF (3) #6 CU THWN AND (1) #10 CU EGC IN 1" CONDUIT TO 600V, 3 POLE, HEAVY DUTY, NEMA 1 FUSIBLE DISCONNECT FUSED AT 60A FOR ELEVATOR MOTOR. COORDINATE WITH RENOVATION PROJECT.
- (3) RENOVATION PROJECT TO PROVIDE DEDICATED 120V CIRCUIT WITH HOMERUN AS SHOWN TO JUNCTION BOX FOR ELEVATOR CONTROLLER.
- (4) PROVIDE AND INSTALL PIT LIGHT AND SWITCH ACCORDING TO LIGHT FIXTURE SCHEDULE. COORDINATE ELEVATOR PIT LIGHT LOCATION WITH ELEVATOR EQUIPMENT. CONNECT TO NEAREST 120V LIGHTING CIRCUIT.
- (5) PROVIDE AND INSTALL SMOKE DETECTOR AT TOP OF ELEVATOR HOISTWAY PER FIRE CODE REQUIREMENTS. ENSURE COMPATIBILITY WITH NEW BUILDING FIRE ALARM CONTROL PANEL LOCATED AS SHOWN ON KEY PLAN.
- (6) COORDINATE TO PROVIDE AND INSTALL ALL REQUIRED TELEPHONE AND DATA REQUIREMENTS FOR ELEVATOR CAB AND CONTROLLER.

SYMBOL	DESCRIPTION
AFF	ABOVE FINISH FLOOR
R	DENOTES RED DEVICE FOR EMERGENCY PURPOSES.
EM	EMERGENCY
E OR EX	EXISTING
UNO	UNLESS NOTED OTHERWISE
IG	ISOLATED GROUND
GFCI	GROUND FAULT CIRCUIT INTERRUPTER
Q	BRACKET LIGHT FIXTURE AND OUTLET. TYPE AS INDICATED IN FIXTURE SCHEDULE.
\$	SINGLE POLE WALL SWITCH. FLUSH MOUNTED UP 44" UNLESS OTHERWISE INDICATED
₽	DUPLEX CONVENIENCE OUTLET. UP 18" OR AS INDICATED.
	COMBINATION VOICE/DATA OUTLET FLUSH IN WALL, 4 11/16" SQUARE BOX, 2-1/8" DEEP, ONE DEVICE COVER, UP 18" A.F.F., WITH 2 PORTS.
	SPECIAL CABINET AS NOTED.
	PANELBOARD. SEE PANEL SCHEDULE FOR CHARACTERISTICS.
5	SAFETY SWITCH, PROVIDED AND INSTALLED UNDER DIV. 16. TO HAVE POLES AND RATING REQUIRED. TO BE MOUNTED IN NEMA 3R IF INSTALLED OUTDOORS.
	BRANCH CIRCUIT IN WALLS OR CEILING OR EXPOSED ON EXISTING CMU WALLS.
x-x ◀ 비?♥♥	HOME RUN TO PANEL WITH BRANCH CIRCUIT NUMBERS INDICATED. TIC MARKS REPRESENT NEUTRAL, HOT, SWITCH LEG, AND GROUND CONDUCTORS RESPECTIVELY. CONDUITS WITH NO TIC MARKS SHALL BE: "A HOT AND NEUTRAL", "A HOT AND SWITCH LEG", "A NEUTRAL AND SWITCH LEG", OR "HOT, NEUTRAL, AND GROUND OR ISOLATED GROUND", AS APPLICABLE.
FACP	FIRE ALARM CONTROL PANEL
8	FIRE ALARM SMOKE DETECTOR

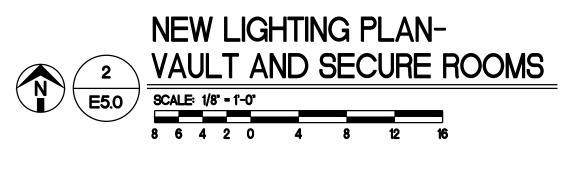
		LIGHTING	FIXTUR
GENE	RAL LIGHTING		
SYMBOL	MANUFACTURER NAME AND NUMBER	LAMPS	VOLTAC
H1	LITHONIA OVT 150	(1) 150W	120V
		INCANDESCENT	
NOTES			
1.	LIGHT FIXTURES SHALL BE AS SPECIFIED AND NO SUBSTITUTIONS	WILL BE ALLOWED U	NLESS PRIC





		LIGHTING FI	XTURE	SCHEDULE						
GENE	RAL LIGHTING									
SYMBOL	MANUFACTURER NAME AND NUMBER	LAMPS	VOLTAGE	BALLAST	MOUNTING	DESCRIPTION				
A2	LITHONIA 2GT8 2 32 A12125 MVOLT GEB10IS	(2) 32W T8	MVOLT	SINGLE, ELECTRONIC	RECESSED, LAY-IN CEILING	2'X4' LENSED TROFFER FOR LAY-IN CEILING				
A3	LITHONIA 2GT8 3 32 A12 MVOLT GEB10IS	(3) 32W T8	MVOLT	SINGLE, ELECTRONIC	RECESSED, LAY-IN CEILING	2'X4' LENSED TROFFER FOR LAY-IN CEILING				
Α4	LITHONIA 2GT8 4 32 A12 MVOLT GEB10IS	(4) 32W T8	MVOLT	SINGLE, ELECTRONIC	RECESSED, LAY-IN CEILING	2'X4' LENSED TROFFER FOR LAY-IN CEILING, MATCH EXISTING FIXTURES				
B4	LITHONIA 2M 4 32 A12125 MVOLT GEB10IS	(4) 32W T8	MVOLT	SINGLE, ELECTRONIC	SURFACE, CEILING	2'X4' MODULAR COMMERCIAL SURFACE MOUN FIXTURE WITH HINGED LENS				
C2	LITHONIA SB2 32 MVOLT GEB10IS	(2) 32W T8	MVOLT	SINGLE, ELECTRONIC	SUSPENDED, HARD CEILING	2'X4' SQUARE BASKET-WRAP SURFACE MOUN FIXTURE WITH HINGED LENS				
D1	LITHONIA 11874 MVOLT GEB10IS	(1) 32W T8	MVOLT	SINGLE, ELECTRONIC	SURFACE, WALL ABOVE MIRROR	CONTEMPORARY SQUARE VANITY LIGHT				
F2	LITHONIA WC 2 32 MVOLT GEB10IS	(2) 32W T8	MVOLT	SINGLE, ELECTRONIC	SURFACE, WALL UP 8' AFF	4' WALL MOUNTED FIXTURE				
G1	LITHONIA REAL6 D6 (FBA) 1000L 35K .90SC PFMW L7XR	10 W LED-A19 BASE (100W EQUAL)	120V	N/A	RECESSED, LAY-IN CEILING	NEW LED DOWNLIGHT OR RELAMP EXISTING DOWNLIGHT WITH COMPATIBLE LED BULBS				
Н1	LITHONIA OVT 150	(1) 150W INCANDESCENT	120V	N/A	ELEVATOR PIT	HEAVY DUTY LOCATION LIGHT WITH GUARD, COORDINATE WITH ELEVATOR REQUIREMENTS				
EXTE	RIOR LIGHTING					·				
SYMBOL	MANUFACTURER NAME AND NUMBER	LAMPS	VOLTAGE	BALLAST	MOUNTING	DESCRIPTION				
U1	LITHONIA OLBF 8 50K DDB	11W LED 5000K	MVOLT	N/A	GRADE LEVEL	LED FLOODLIGHT TO LIGHT FLAG WITH 5X4 FLOOD OPTICS				
V1	LITHONIA TWS LED 1 50K PE	19W LED 5000K	120V	N/A	SURFACE, WALL, SEE LTG PLAN	EXTERIOR COMPACT WALLPACK, DARK SKIES COMPLIANT, WITH INTEGRAL PHOTOCELL				
W1	LITHONIA OLW 31	48W LED 5000K	MVOLT	N/A	SURFACE, WALL, SEE LTG PLAN	EXTERIOR WALLPACK, DARK SKIES COMPLIANT, WITH INTEGRAL PHOTOCELL				
EMER	GENCY LIGHTING					•				
SYMBOL	MANUFACTURER NAME AND NUMBER	LAMPS	VOLTAGE	BALLAST	MOUNTING	DESCRIPTION				
X1	LITHONIA EDG (CBA) R EL	5W LED	MVOLT	N/A	SURFACE, WALL OR CEILING	EMERGENCY EXIT SIGN WITH WHITE FACE AND LETTERS, DIRECTIONAL ARROWS AS REQ'D				
EM1	LITHONIA ELM2	(2) 5.4W KRYPTON	MVOLT	N/A	SURFACE, WALL OR CEILING	INTERIOR EMERGENCY EGRESS FIXTURE WITH TWO ADJUSTABLE LAMP HEADS				
EMS	EMERGENCY AND EXIT LIGHTING PRODUCTS DEM (CBA) PCLW	(2) 6W XENON AND LED	MVOLT	N/A	WALL, CENTERED ABOVE DOOR	EXTERIOR RATED EMERGENCY EGRESS FIXTURE				
NOTES	• • •	•	•	•						
1.	PROVIDE SYLVANIA OCTRON LAMPS WITH ALL FLUORESCENT FIX				BE RATED AT 85 CR	(SYLVANIA "835").				
2.	PROVIDE ELECTRONIC BALLASTS WITH T8 FLUORESCENT FIXTUR									
3.	EMERGENCY BATTERY PACKS FOR T8 FIXTURES SHALL BE BOD									
4.	EMERGENCY BATTERY PACKS FOR COMPACT FLUORESCENTS SH					•				
5.	· ·									
6.			ESS PRIOR A	APPROVED PER SF	PECIFICATIONS.					
7.	ALL FLUORESCENT BALLASTS SHALL BE ENERGY SAVINGS AND									
8. 9.	REFER TO PLAN FOR TYPES AND QUANTITIES USED. ALL TYPES UPON COMPLETION OF THE PROJECT THE CONTRACTOR IS TO									
9.				LETE INTERIOR LIC	STILING PER INE DIRE	UTION OF THE USER,				
10.	ARCHITECT AND THIS OFFICE. THIS ADJUSTMENT IS NECESSARY TO FINALIZE THE LIGHTING SYSTEM "MVOLT" DENOTES BALLAST AS MULTI-TAP FOR 120V, 208V, 240V AND 277V.									

"MVOLT" DENOTES BALLAST AS MULTI-TAP FOR 120V, 208V, 240V AND 277V. "CBA" INDICATES COLOR BY ARCHITECT. "FBA" INDICATES FINISH BY ARCHITECT.





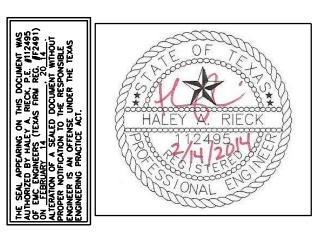
ELECTRICAL GENERAL NOTES:

1 ALL WORK ON THIS SHEET TO BE PERFORMED BY COUNTY OF EL PASO (COEP) ELECTRICIANS.

2 LIGHT FIXTURES OF THE TYPE INDICATED MAY BE RELOCATED EXISTING FIXTURES OF THE SAME TYPE OR NEW FIXTURES ACCORDING TO THE FIXTURE SCHEDULE ON THIS SHEET.

3 REFER TO THERMOSTAT MOUNTING SCHEMATIC ON SHEET E11.0.





F

ENGINEERS EMC ENGINEERS

PH: 915-781-2030

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TEXAS FIRM REG. #F2491 EMC PROJECT #1308056-A

2211 E. MISSOURI AVE. SUITE W-107 EL PASO, TEXAS. 79903

ELECTRICAL REMODEL KEYED NOTES: (#)

(1) EXISTING LIGHT FIXTURE TO REMAIN.

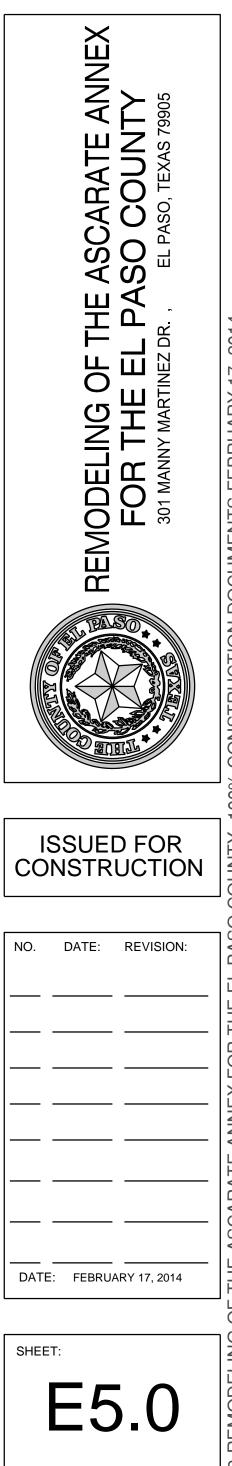
(2) EXISTING EXTERIOR BUILDING LIGHTING CIRCUITS TO REMAIN AND BE CONTROLLED BY EXISTING SWITCHES IN THIS LOCATION. PHOTOCELLS ON EXISTING FIXTURES ARE OPERATIONAL.

(3) COORDINATE ELEVATOR PIT LIGHT LOCATION WITH ELEVATOR EQUIPMENT.

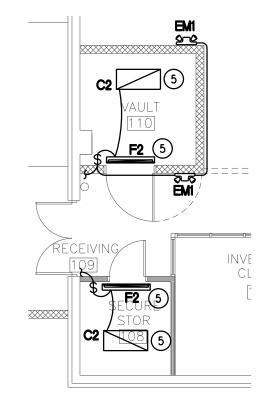
(4) CIRCUIT FIXTURE WITH EXISTING BUILDING EXTERIOR LIGHTING CIRCUIT FOR W1 FIXTURES SHOWN ON E6.0.

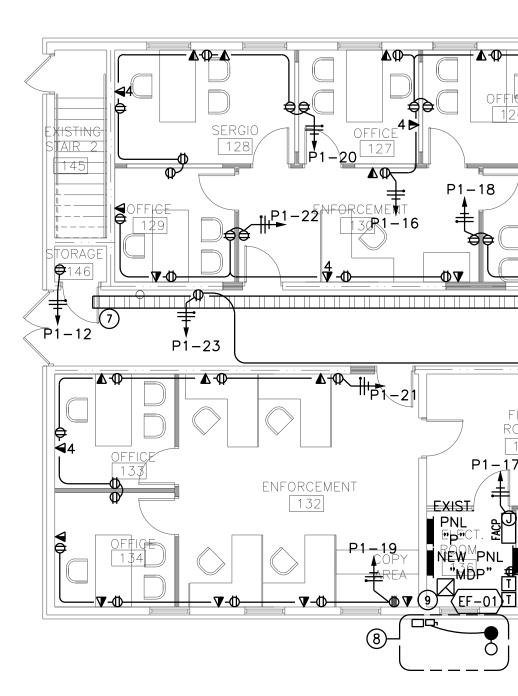
5 SURFACE MOUNT FIXTURES IN VAULT AND SECURE STORAGE IN COORDINATION WITH SHELVING.

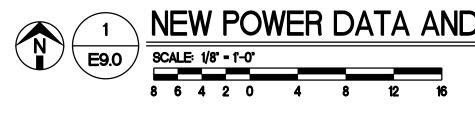
6 EXISTING LINEAR PENDANT LIGHTS TO BE RELOCATED AS REQUIRED TO ACCOMMODATE NEW LOBBY CONFIGURATION.



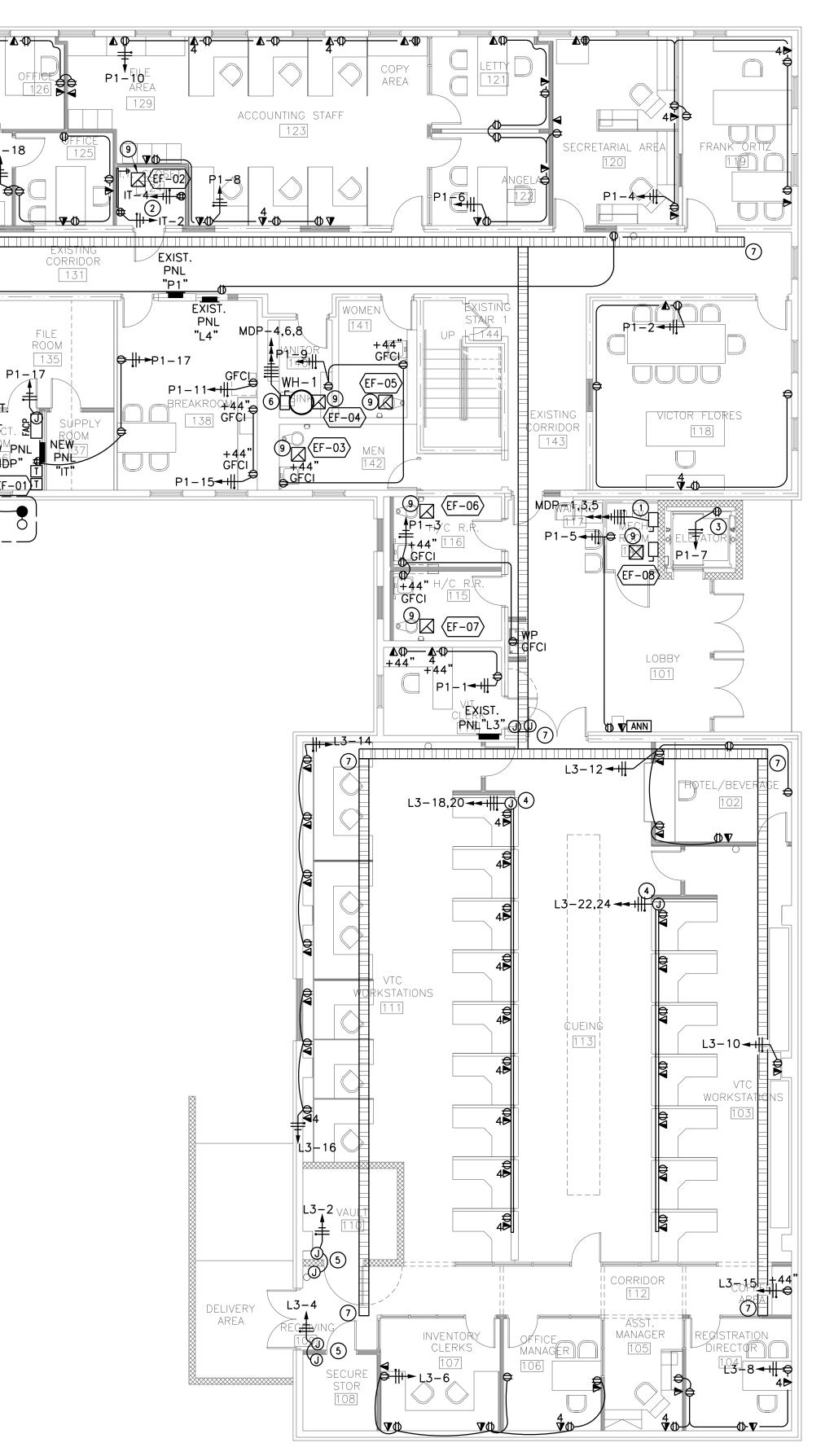
NEW LIGHTING PLAN FIRST FLOOR







NEW POWER DATA AND SPECIAL SYSTEMS PLAN - FIRST FLOOR



ELECTRICAL GENERAL NOTES:

1 WORK RELATED TO THE NEW 480Y/277V SERVICE, RECONNECTION TO THE EXISTING 240/120V POWER DISTRIBUTION SYSTEM AND ELECTRICAL ROUGH-IN FOR FUTURE ELEVATOR SHALL BE PERFORMED BY THE ELECTRICAL CONTRACTOR. UNLESS NOTED OTHERWISE, ALL OTHER ELECTRICAL WORK ON THIS SHEET SHALL BE PERFORMED BY COUNTY OF EL PASO (COEP) ELECTRICIANS.

2 FIRE ALARM SYSTEM TO BE DESIGNED BY LICENSED FIRE ALARM CONTRACTOR AS REQUIRED TO MEET ALL APPLICABLE CODES AND REQUIREMENTS. PROPOSED FIRE ALARM CONTROL PANEL AND ANNUNCIATOR LOCATIONS ARE INDICATED ON THIS SHEET. SMOKE DETECTOR WILL BE REQUIRED AT THE TOP OF THE ELEVATOR HOISTWAY.

3 CIRCUITS SHALL BE RUN IN EXPOSED, SURFACE MOUNTED CONDUIT FROM OVERHEAD ON EXISTING CMU WALLS AND CONCEALED IN NEW WALLS.

4 REFER TO PANEL SCHEDULES ON SHEETS E12.0 AND E12.1.

5 REFER TO CONDUIT PENETRATION SCHEMATIC ON SHEET E11.0.

6 REFER TO DATA MOUNTING SCHEMATIC ON SHEET E11.0.

ELECTRICAL REMODEL KEYED NOTES: (1)

(1) 600V, 3 POLE, HEAVY DUTY, NEMA 1 FUSIBLE DISCONNECT FUSED AT 60A FOR FUTURE ELEVATOR MOTOR.

2 CONFIRM SPECIAL RECEPTACLES FOR IT EQUIPMENT IN IT CLOSET. ALL CIRCUITS TO HOMERUN TO PANEL "IT." REFER TO PANEL SCHEDULE ON E12.0.

(3) GFCI RECEPTACLE FOR SUMP PUMP. COORDINATE LOCATION WITH PUMP.

4 ROUTE POWER AND DATA CABLES TO WORKSTATIONS FROM POWER POLE/COLUMN AND SURFACE MOUNT ON NON-PUBLIC SIDE OF PARTITIONS. PROVIDE MULTIPLE CIRCUITS TO SERVE DESK ROWS AS SHOWN.

5 PROVIDE AND INSTALL ALL ELECTRICAL REQUIREMENTS AND DATA ROUGH-IN FOR VAULT AND SECURE STORAGE.

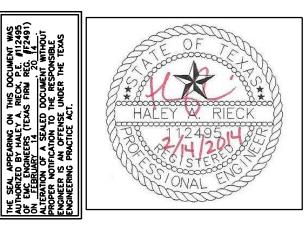
(6) 480V, 15A, 3 POLE DISCONNECT FOR WATER HEATER WH-1.

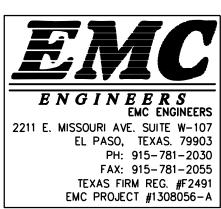
7 CABLE TRAY FOR COMMUNICATIONS CABLES. COORDINATE LOCATION WITH SUSPENDED CEILINGS, DUCTWORK, LIGHTING AND OTHER EQUIPMENT. AT TRANSITION TO DIFFERENT CEILING HEIGHTS, USE CONDUIT OR CABLE TRAY MANUFACTURER-APPROVED METHOD TO PROTECT CABLING FROM DAMAGE.

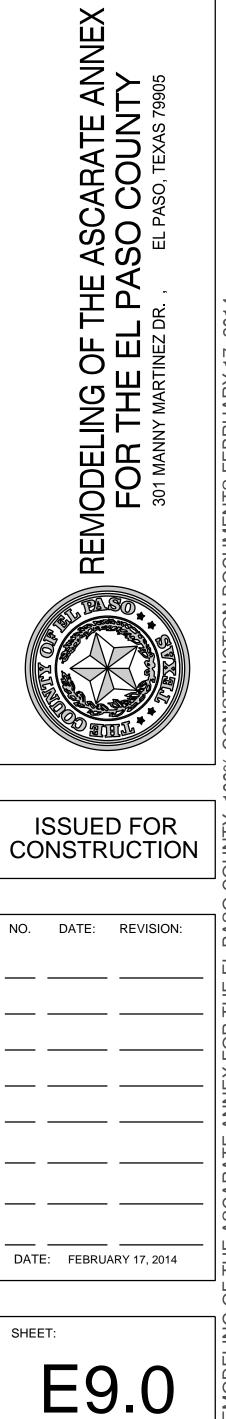
(8) REFER TO RISER DIAGRAM FOR NEW 480Y/277V, 3 PHASE SERVICE TO BUILDING. COORDINATE WITH HVAC EQUIPMENT AND DUCTWORK LOCATIONS.

(9) CIRCUIT EXHAUST FAN WITH ROOM LIGHTS.







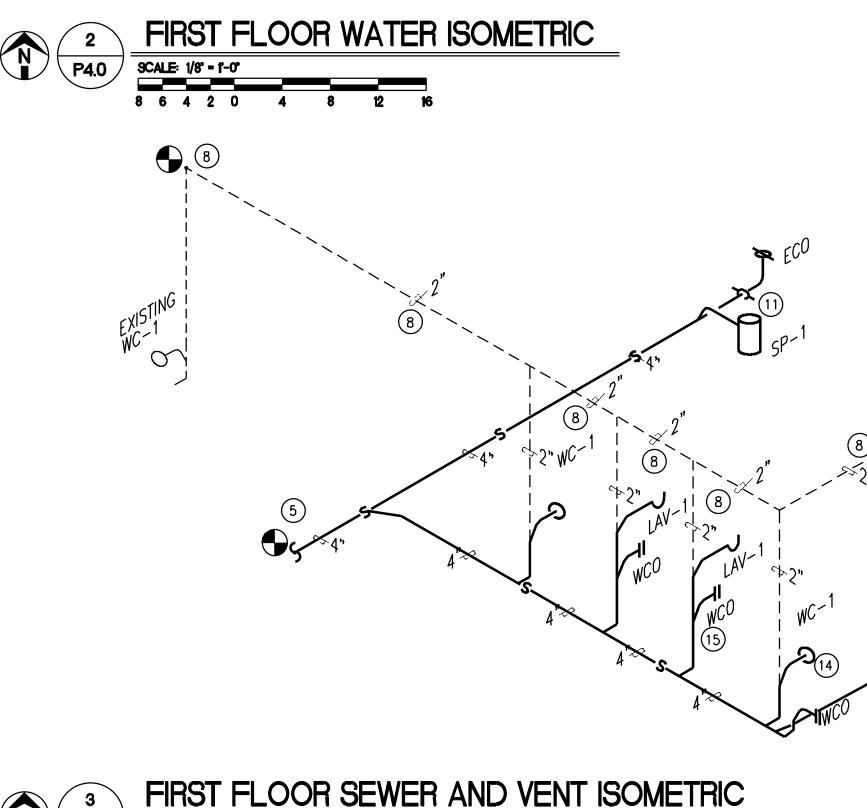


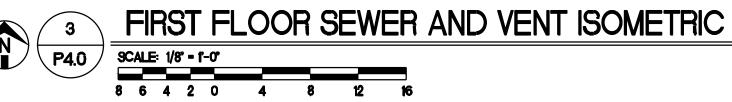
NEW POWER DATA AND

PLUMBING REMODEL KEYED NOTES: (#)

(1) CAP EXISTING GAS LINE GOING TO OLD WATER HEATER LOCATION AS SHOWN.

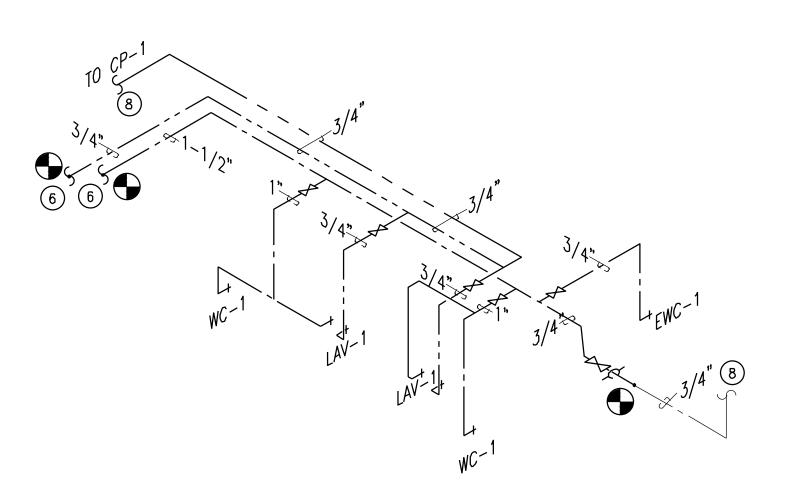
- (2) CAP EXISTING WATER LINE AS SHOWN.
- (3) INSTALL NEW ELECTRIC WATER HEATER. CONNECT TO HOT AND COLD WATER LINES AS SHOWN PER SCHEMATIC 9/P9.0. CONNECT RECIRCULATION PUMP (CP-1) AS INDICATED AND PER SCHEMATICS 9/P9.0 AND 13/P9.0.
- (4) CONNECT NEW WATER LINES WITH VALVE TO EXISTING WATER LINE AS SHOWN. REFER TO PHOTOGRAPHS ON P3.0 FOR FURTHER INFORMATION.
- 5 NEW SEWER LINE. CONNECT TO EXISTING SEWER AS SHOWN. COORDINATE ANY SAW CUTTING THE FLOOR AS REQUIRED PER SCHEMATIC 17/P9.0 AND WITH GENERAL CONTRACTOR.
- 6 NEW HOT AND COLD WATER LINES. CONNECT TO EXISTING PIPING AND NEW FIXTURES AS SHOWN.
- 7 CONNECT NEW FIXTURE TO EXISTING WATER AND SEWER LINES AS INDICATED. COORDINATE ANY SAW CUTTING THE FLOOR AS REQUIRED PER SCHEMATIC 17/P9.0 AND WITH GENERAL CONTRACTOR.
- (8) NEW 2" VENT PIPING TO BE ROUTED AS INDICATED OVER TO EXISTING VENT MAIN BEHIND EXISTING WATERCLOSET AND CONNECT TO THE VENT MAIN AT THIS LOCATION, COORDINATE EXACT LOCATION WITH EXISTING CONDITIONS. WALL PENETRATIONS TO BE PER SCHEMATIC 7/P9.0.
- (9) SEE SITE PLAN P2.0 FOR CONTINUATION FOR DOMESTIC WATER PIPING.
- (10) EXISTING WATER LINE TO EXISTING EXTERIOR WALL HYDRANTS TO BE RELOCATED TO ABOVE CEILING.
- (11) INSTALL NEW ELEVATOR SUMP PUMP (SP-1) PER SCHEMATIC 8/P9.0. COORDINATE LOCATION OF SUMP WITH ELEVATOR SUMP LOCATION PER STRUCTURAL DRAWINGS.
- 12 NEW WATER PIPING TO BE INSULATED AND INSTALLED PER SCHEMATIC 10/P9.0. WALL PENETRATIONS TO BE PER SCHEMATIC 6/P9.0.
- (13) EXTERIOR CLEANOUT PER SCHEMATIC 1/P9.0.
- (14) NEW WALL CLEANOUT PER SCHEMATIC 2/P9.0, TYPICAL.
- (15) 3/4" CONDENSATE LINE FROM RTUS, REFER TO DRAWINGS P6.0 FOR CONTINUATION. CONNECT TO LAVATORY PER SCHEMATIC 14/P9.0
- (16) NEW 1" GAS PIPING FROM EXISTING GAS METER CONNECTION LOCATION OVER TO RTU UNDERGROUND PER SCHEMATIC 15/P9.0 AND UP AND CONNECT TO UNIT ON NEW STAND PER SCHEMATIC 4/P9.0.
- (17) RTU 3/4" CONDENSATE DRAIN TO BE PER SCHEMATIC 12/P9.0 AND TO SLOPE PIPING INTO NEW FRENCH DRAIN CONNECT PER SCHEMATIC 16/P9.0.

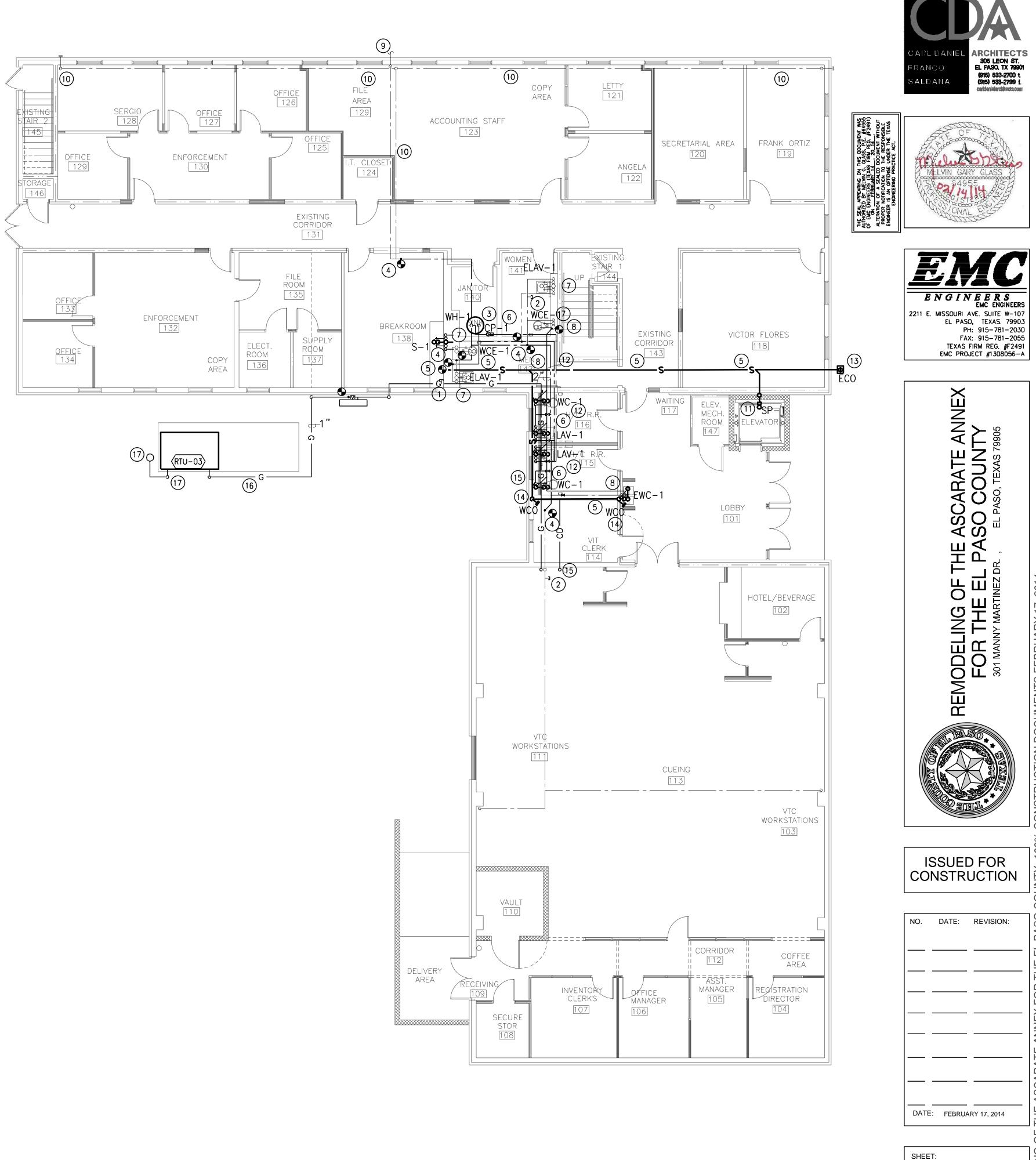


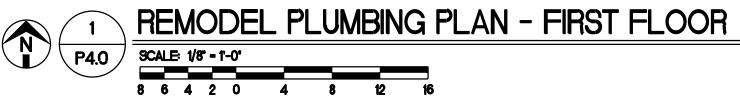


PLUMBING GENERAL NOTES: 1. ALL WORK ON THIS SHEET TO BE PERFORMED BY COUNTY OF EL PASO

(COEP) PLUMBERS.







P4.0

REMODEL PLUBING FIRST FLOOR PLAN