NEW ELEVATOR WORK

REMODELING OF THE ASCARATE ANNEX
FOR THE EL PASO COUNTY

301 MANNY MARTINEZ DR. EL PASO, TEXAS 79905

REGISTERED ARCHITECT
CARL V. DANIEL, II
4183
STATE OF TEXAS

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.	ACOUSTICAL	H.M.	HOLLOW METAL
A.D.A.	AMERICANS WITH DISABILITIES ACT	V.W.C.	VINYL WALL COVERING
ALUM.	ALUMINUM	S.C.W.	SOLID CORE WOOD
LAM.	LAMINATE	SGL.	SAFETY GLASS
GYP.BD.	GYPSUM BOARD	ST.	STAIN
EXIST.	EXISTING	TEMP.	TEMPERED
F.E.C.	FIRE EXTINGUISHER CABINET	U.N.O.	UNLESS NOTED OTHERWISE
F.D.	FLOOR DRAIN	V.C.T.	VINYL COMPOSITION TILE
GL.	GLASS/ GLAZING	V.I.F.	VERIFY IN FIELD
H.C.	HOLLOW CORE		
HDW.	HARDWARE		

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.

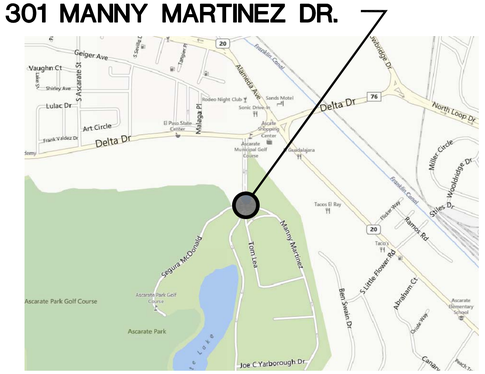
1. THE DRAWINGS AND THE SPECIFICATIONS ARE COOPERATIVE. WHERE DRAWINGS AND SPECIFICATIONS, OR DRAWINGS, OR SPECIFICATIONS THEMSELVES ARE IN CONFLICT, CONTRACTOR SHALL PROVIDE THE BETTER QUALITY / GREATER QUANTITY.
2. ACTUAL FIELD CONDITIONS FOUND TO BE AT VARIANCE WITH THE INTENT OF THE CONSTRUCTION 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. IF THE CONTRACTOR PERFORMS ANY CONSTRUCTION ACTIVITY, KNOWING 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.
5. 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....
6. 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.
7. 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.

INDEX OF DRAWINGS:

301 MANNY MARTINEZ DR.



LOCATION MAP

SCALE: N.T.S.

STANDARD SYMBOLS LEGEND

1/A-4 — 1/A-4	BUILDING SECTION (PARTIAL OR FULL)
6/A-7	INTERIOR/ EXTERIOR ELEVATION MARKER
6/A-1.0	ENLARGED DETAIL MARKER AND BUBBLE
B	WALL TYPE FLAG
A	WINDOW DESIGNATION MARKER
1	DOOR DESIGNATION MARKER
3	KEYED NOTE
CLERICAL 103	ROOM NAME AND ROOM NUMBER MARKER
	NORTH ARROW

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CONSULTING STRUCTURAL ENGINEERS
277 E. AMADOR AVE. SUITE 200
LAS CRUCES, NM 88001
PHONE: (575)993-5228 FAX: (575)219-6177

EMC ENGINEERS
MECHANICAL, ELECTRICAL AND PLUMBING ENGINEERS
2211 E. MISSOURI AVE, SUITE W-107
EL PASO, TX 79903
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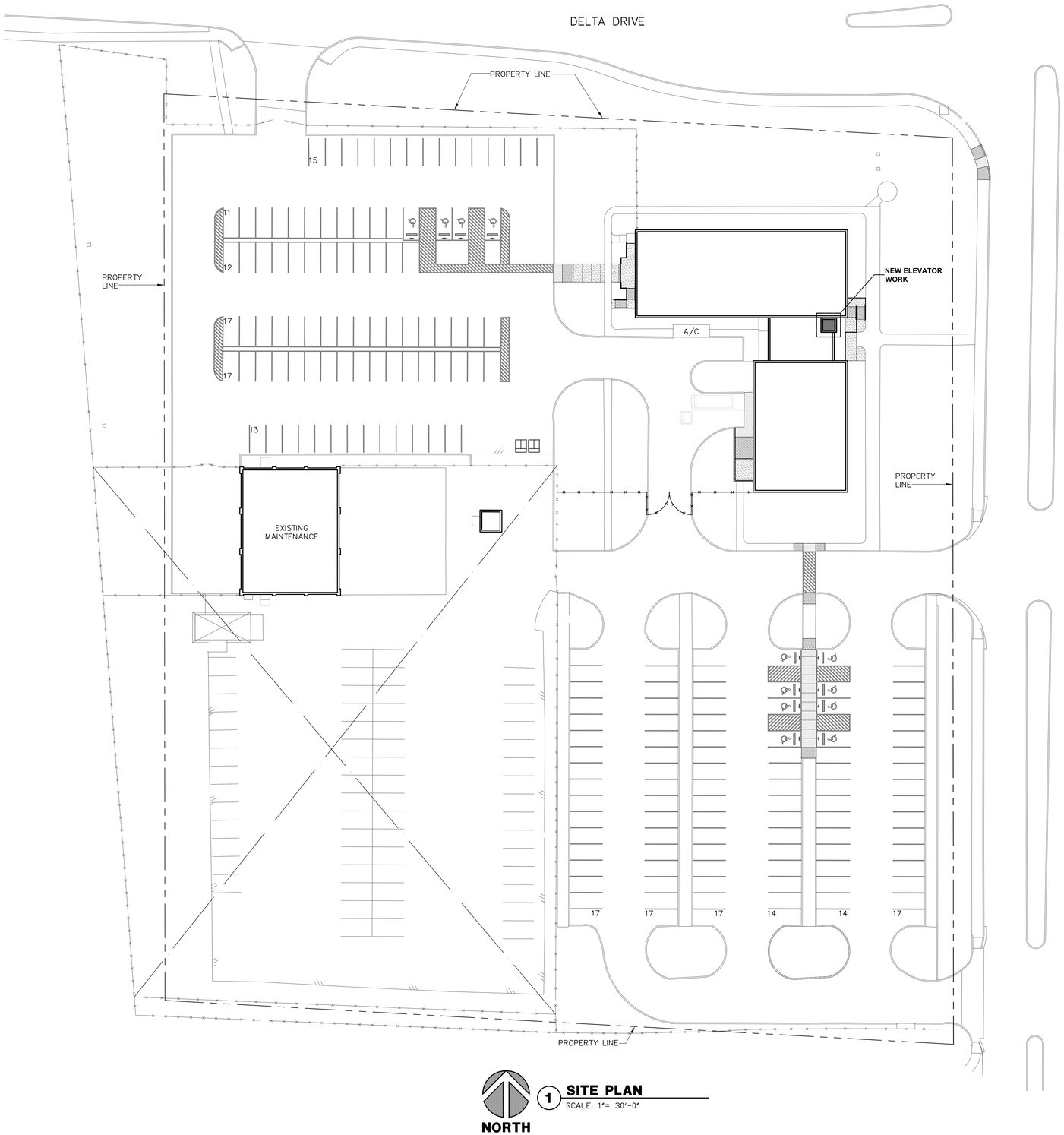
2013-32-REMODELING OF THE ASCARATE ANNEX FOR THE EL PASO COUNTY- CONSTRUCTION DOCUMENTS MARCH 13, 2014



1 **SITE PLAN**
SCALE: 1"= 30'-0"

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301 MANNY MARTINEZ DR. , EL PASO, TEXAS 79905

THE COUNTY OF EL PASO TEXAS

ISSUED FOR CONSTRUCTION

NO.	DATE:	REVISION:

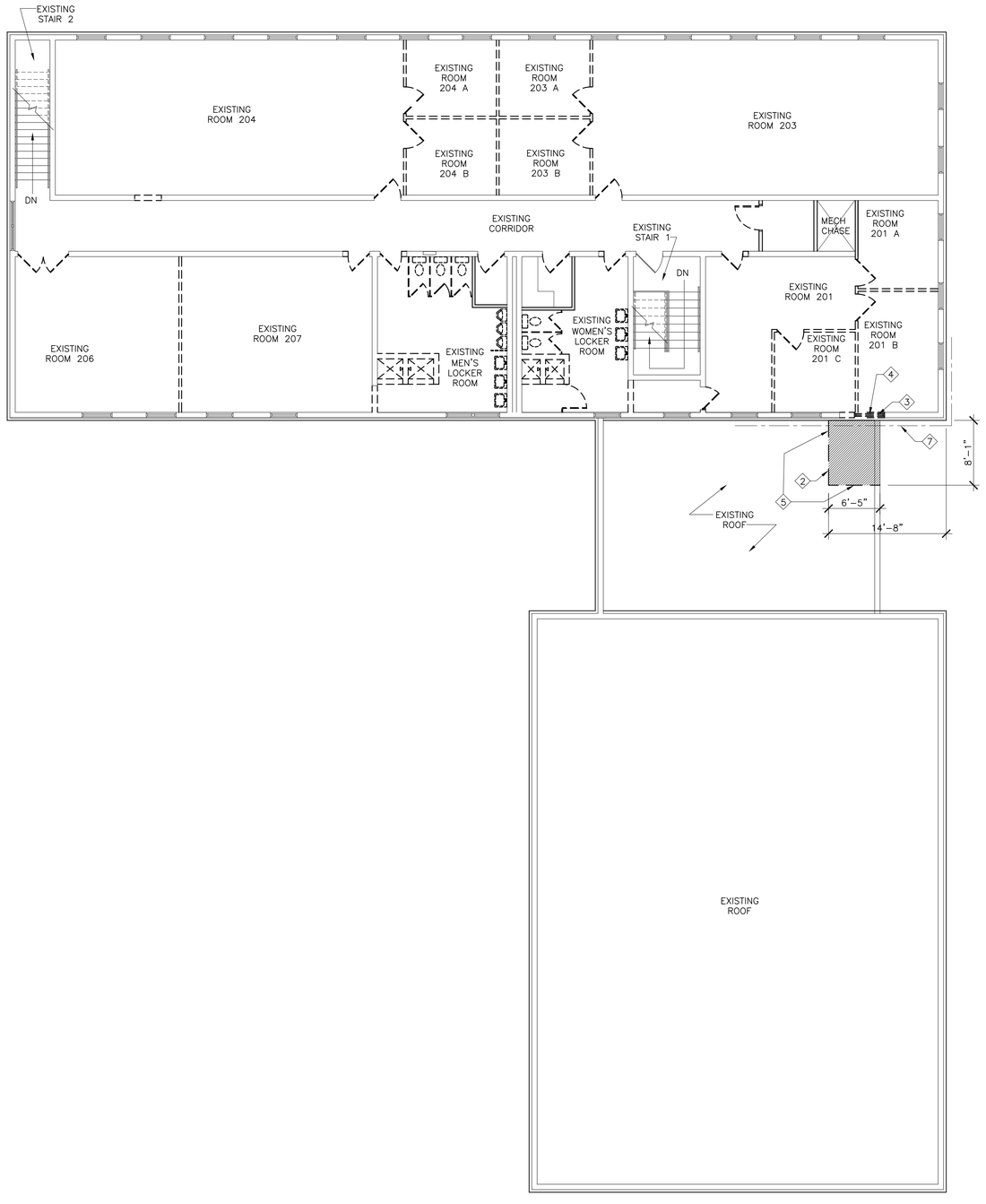
DATE: MARCH 06, 2014

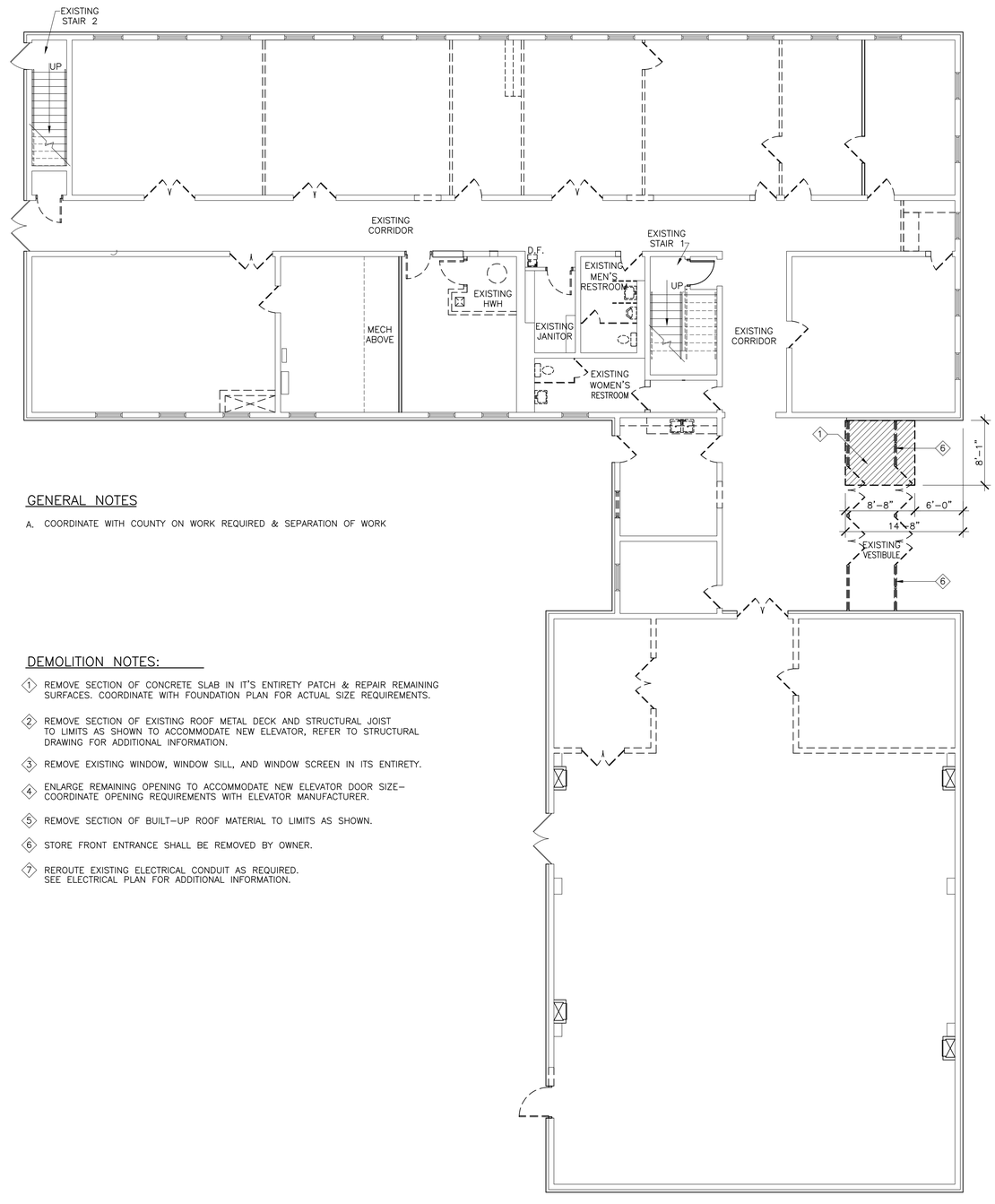
SHEET:

A1.1

SITE PLAN

2013-32-REMODELING OF THE ASCARATE ANNEX FOR THE EL PASO COUNTY- CONSTRUCTION DOCUMENTS MARCH 06, 2014





GENERAL NOTES

A. COORDINATE WITH COUNTY ON WORK REQUIRED & SEPARATION OF WORK

DEMOLITION NOTES:

1. REMOVE SECTION OF CONCRETE SLAB IN IT'S ENTIRETY PATCH & REPAIR REMAINING SURFACES. COORDINATE WITH FOUNDATION PLAN FOR ACTUAL SIZE REQUIREMENTS.
2. REMOVE SECTION OF EXISTING ROOF METAL DECK AND STRUCTURAL JOIST TO LIMITS AS SHOWN TO ACCOMMODATE NEW ELEVATOR, REFER TO STRUCTURAL DRAWING FOR ADDITIONAL INFORMATION.
3. REMOVE EXISTING WINDOW, WINDOW SILL, AND WINDOW SCREEN IN ITS ENTIRETY.
4. ENLARGE REMAINING OPENING TO ACCOMMODATE NEW ELEVATOR DOOR SIZE– COORDINATE OPENING REQUIREMENTS WITH ELEVATOR MANUFACTURER.
5. REMOVE SECTION OF BUILT–UP ROOF MATERIAL TO LIMITS AS SHOWN.
6. STORE FRONT ENTRANCE SHALL BE REMOVED BY OWNER.
7. REROUTE EXISTING ELECTRICAL CONDUIT AS REQUIRED. SEE ELECTRICAL PLAN FOR ADDITIONAL INFORMATION.

NORTH

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

NORTH

1 DEMOLITION PLAN FIRST FLOOR
SCALE: 1/8"= 1'-0"

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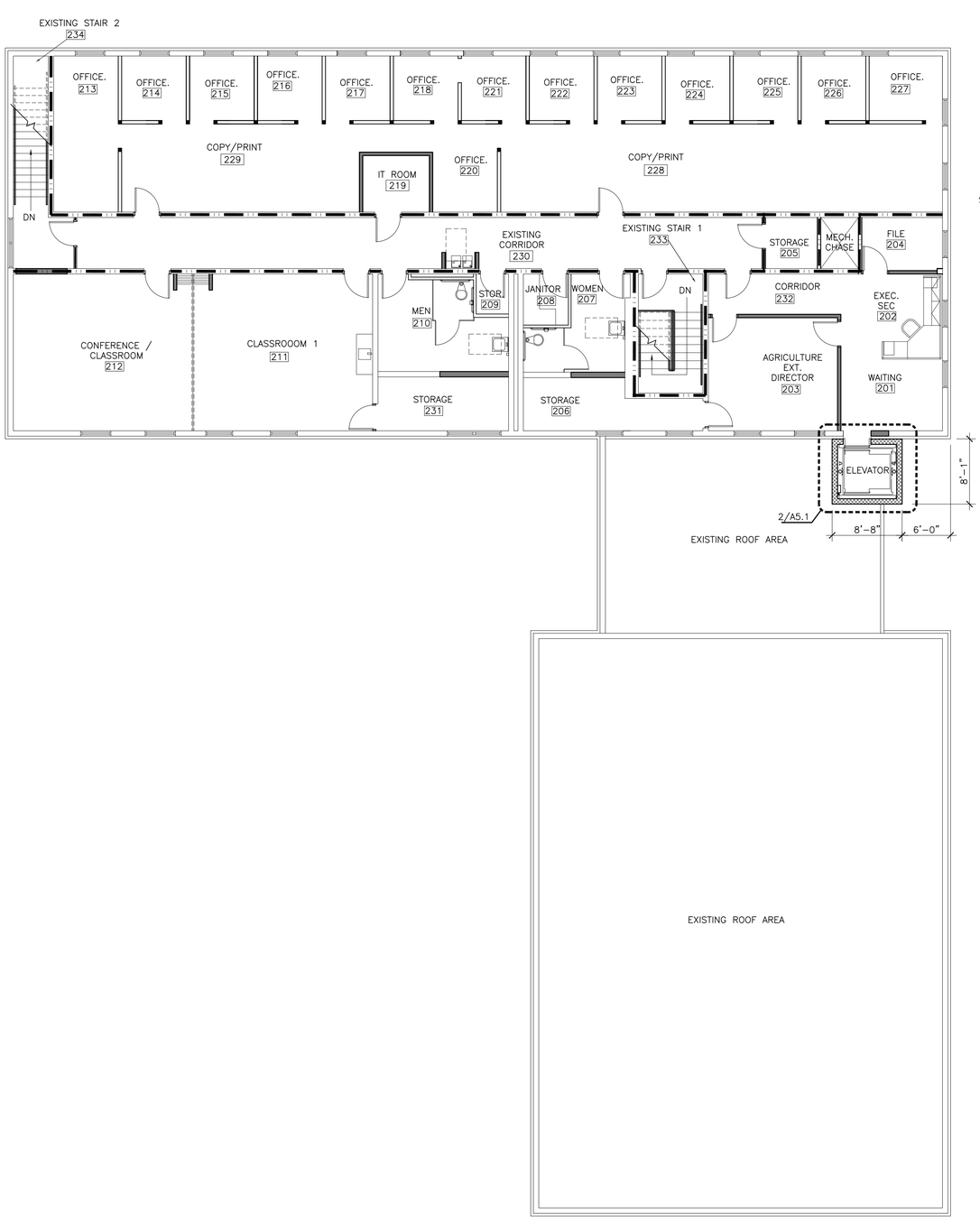
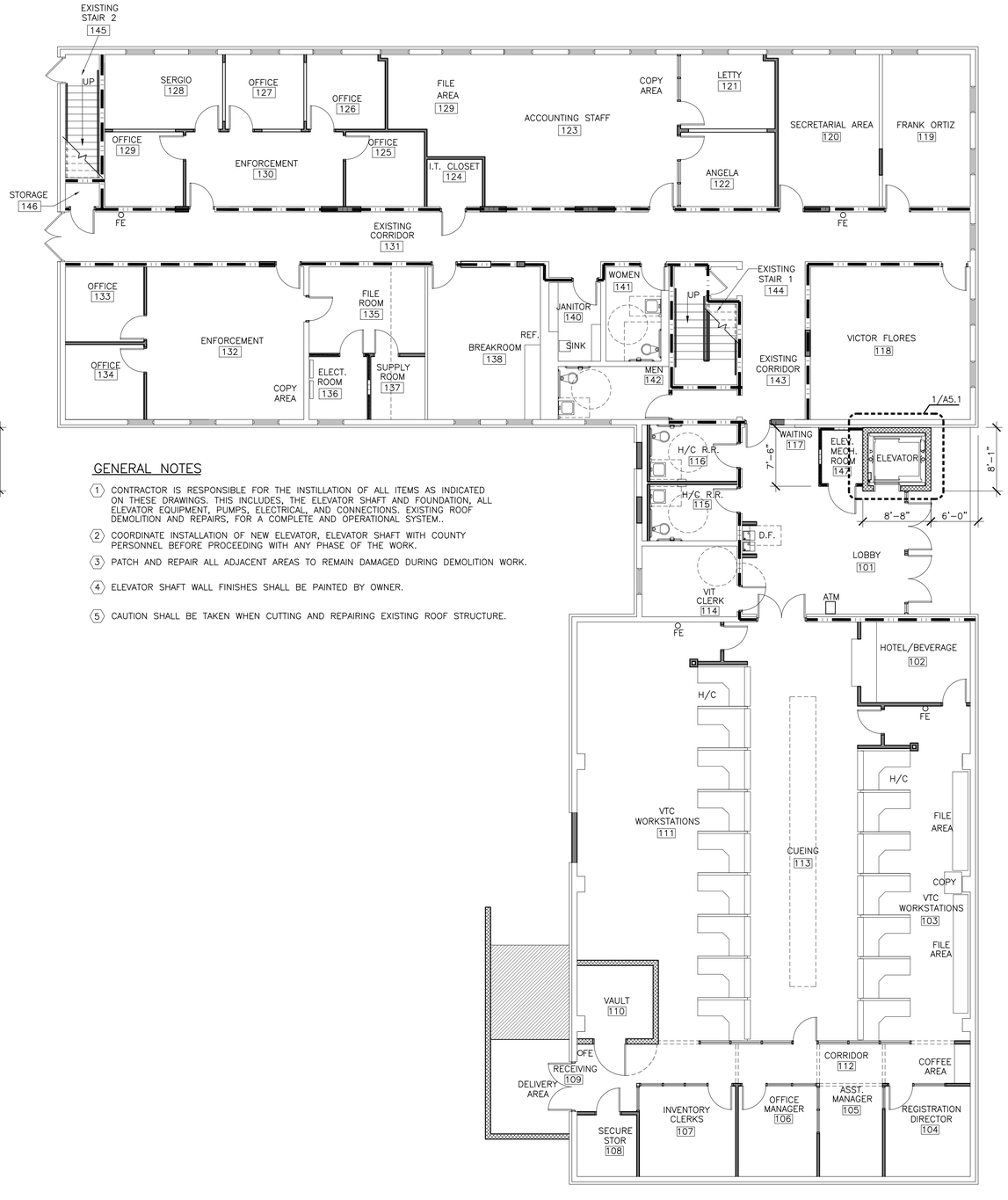
A2.0
DEMOLITION FIRST AND SECOND FLOOR PLAN

2013-32-REMODELING OF THE ASCARATE ANNEX FOR THE EL PASO COUNTY- CONSTRUCTION DOCUMENTS MARCH 06, 2014





GENERAL NOTES

1. CONTRACTOR IS RESPONSIBLE FOR THE INSTILLATION OF ALL ITEMS AS INDICATED ON THESE DRAWINGS. THIS INCLUDES, THE ELEVATOR SHAFT AND FOUNDATION, ALL ELEVATOR EQUIPMENT, PUMPS, ELECTRICAL, AND CONNECTIONS. EXISTING ROOF DEMOLITION AND REPAIRS, FOR A COMPLETE AND OPERATIONAL SYSTEM..
2. COORDINATE INSTALLATION OF NEW ELEVATOR, ELEVATOR SHAFT WITH COUNTY PERSONNEL BEFORE PROCEEDING WITH ANY PHASE OF THE WORK.
3. PATCH AND REPAIR ALL ADJACENT AREAS TO REMAIN DAMAGED DURING DEMOLITION WORK.
4. ELEVATOR SHAFT WALL FINISHES SHALL BE PAINTED BY OWNER.
5. CAUTION SHALL BE TAKEN WHEN CUTTING AND REPAIRING EXISTING ROOF STRUCTURE.

NORTH

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

NORTH

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

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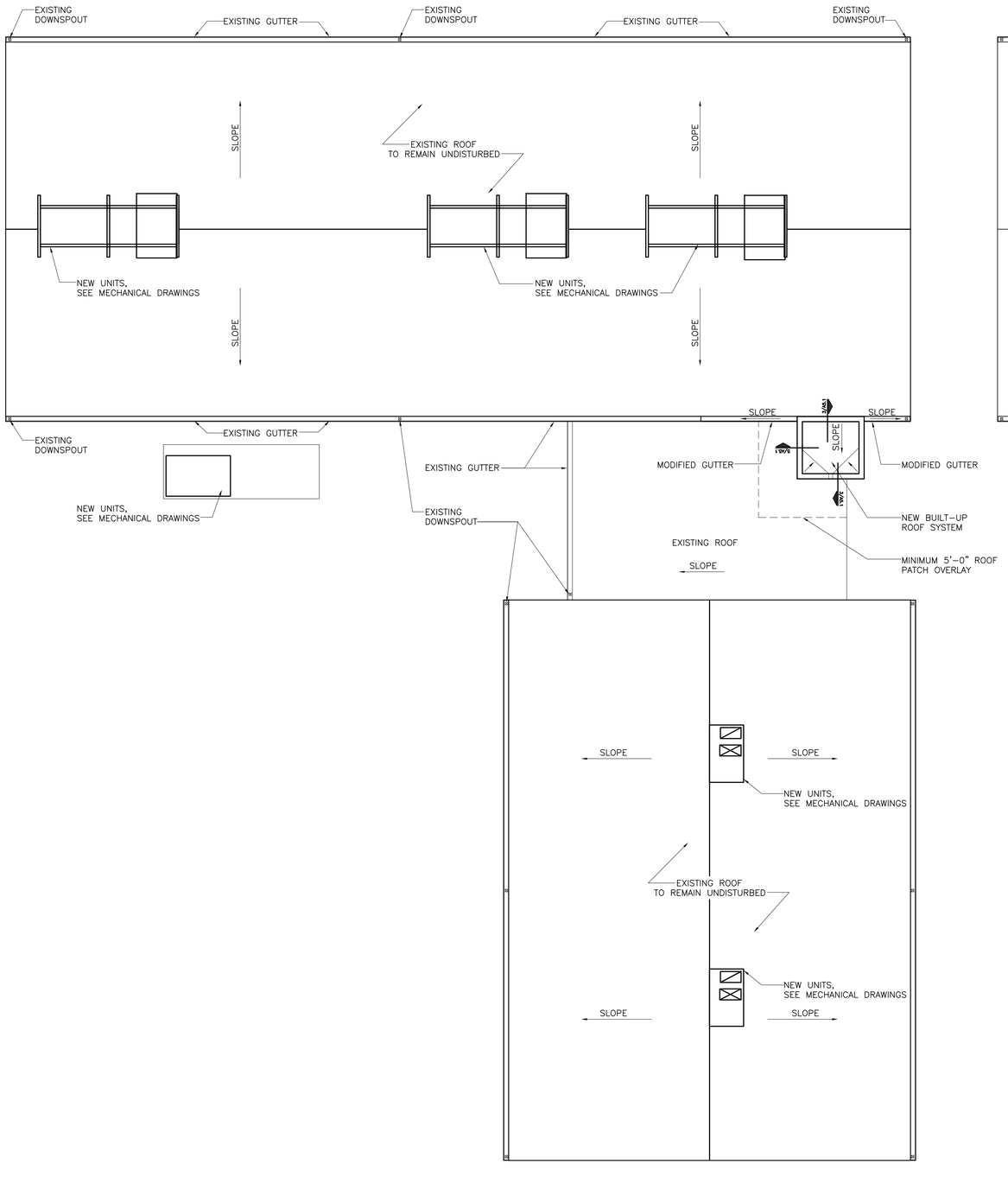
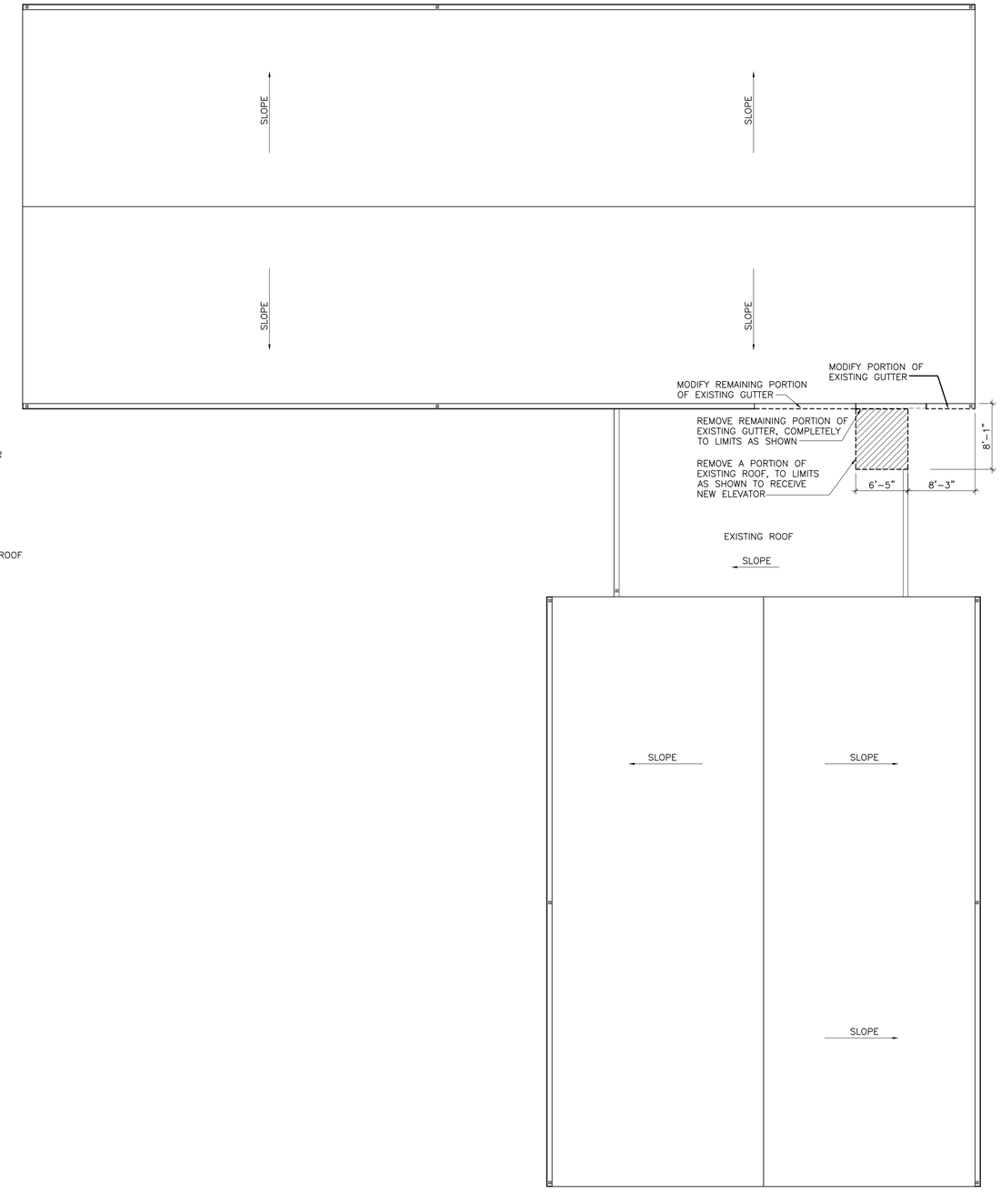
A2.1
REVISED FIRST AND SECOND FLOOR PLAN

2013-32-REMODELING OF THE ASCARATE ANNEX FOR THE EL PASO COUNTY- CONSTRUCTION DOCUMENTS MARCH 06, 2014



NORTH

2 REVISED ROOF PLAN
SCALE: 1/8"= 1'-0"



NORTH

1 EXISTING/DEMO ROOF PLAN
SCALE: 1/8"= 1'-0"

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A3.1
EXISTING / DEMO AND REVISED ROOF PLAN

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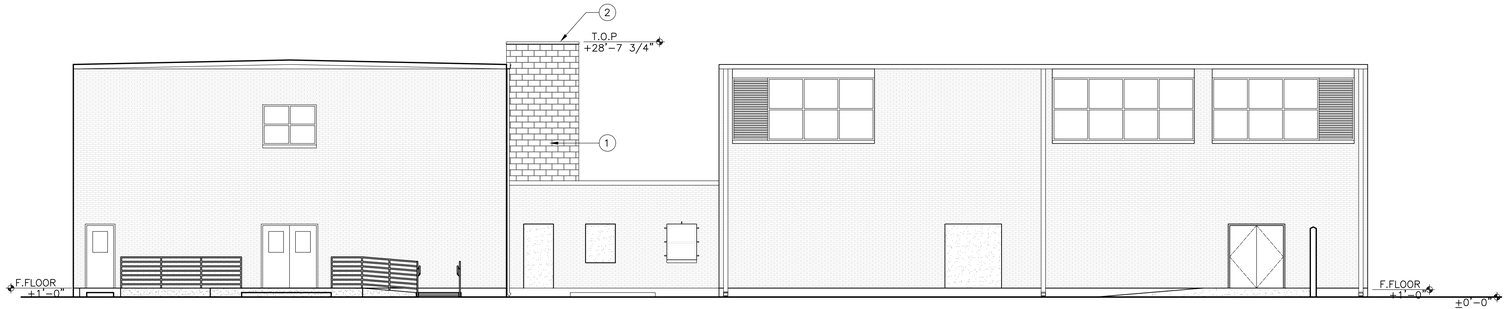
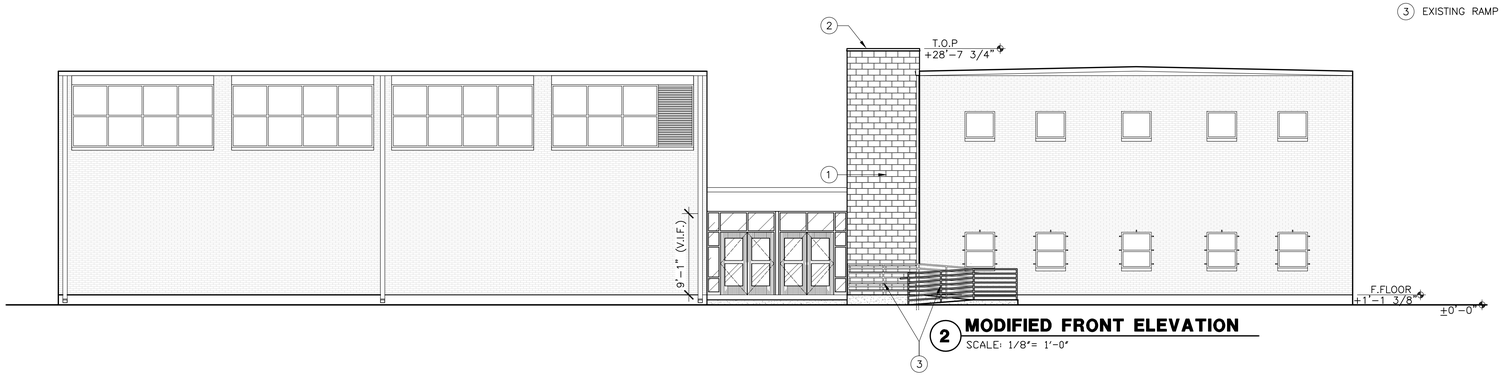


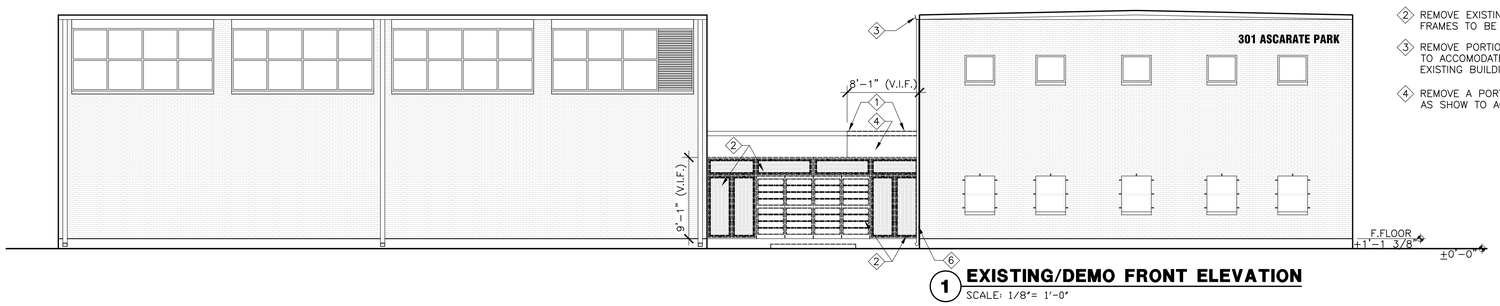
3 MODIFIED REAR ELEVATION
SCALE: 1/8"= 1'-0"

MODIFY NOTES

1. NEW PAINTED CMU ELEVATOR, WALL SEE 5/A7.1 & 1/A7.2
2. ALUMINUM CAP, PRIMED AND PAINTED
3. EXISTING RAMP AND HANDRAILS BY OTHERS



2 MODIFIED FRONT ELEVATION
SCALE: 1/8"= 1'-0"



1 EXISTING/DEMO FRONT ELEVATION
SCALE: 1/8"= 1'-0"

DEMOLITION NOTES

1. REMOVE A PORTION OF EXISTING ROOF, METAL DECK AND STRUCTURAL JOIST TO LIMITS AS SHOW, TO ACCOMMODATE NEW ELEVATOR.
2. REMOVE EXISTING DOORS, WINDOWS, AND FRAMES TO BE REMOVED BY OTHERS.
3. REMOVE PORTION OF EXISTING GUTTER TO ACCOMODATE NEW CMU ELEVATOR ADJACENT TO EXISTING BUILDING
4. REMOVE A PORTION OF EXISTING WALL, TO LIMITS AS SHOW TO ACCOMMODATE NEW ELEVATOR

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REMODELING OF THE ASCARATE ANNEX FOR THE EL PASO COUNTY

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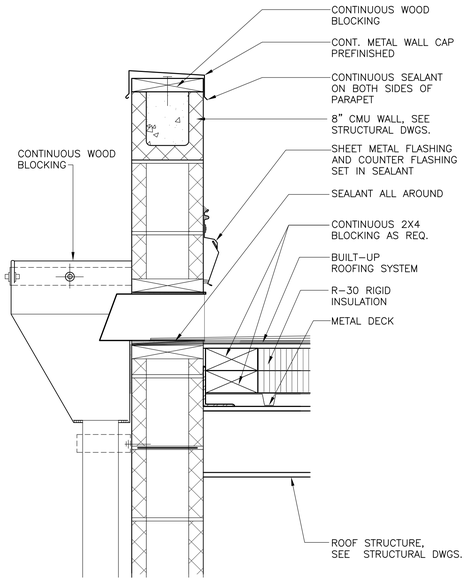
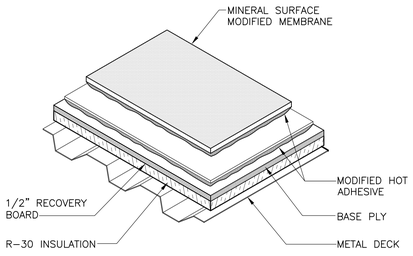
A4.1

EXISTING/DEMO AND MODIFIED ELEVATIONS

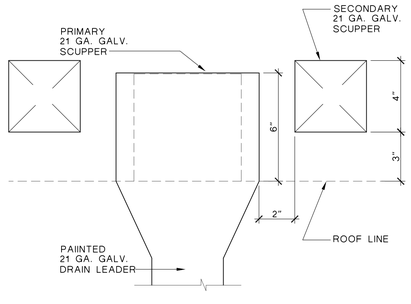
2013-32-REMODELING OF THE ASCARATE ANNEX FOR THE EL PASO COUNTY- CONSTRUCTION DOCUMENTS MARCH 06, 2014



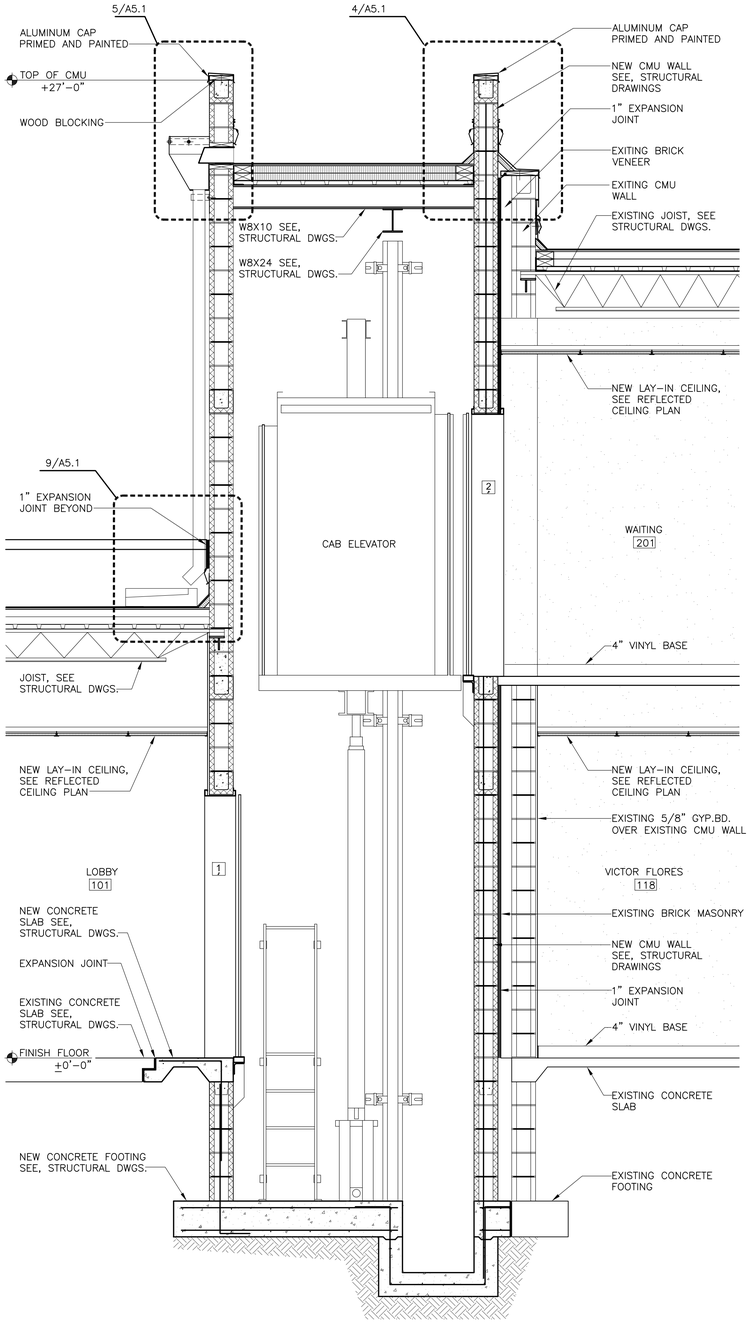
5 ROOF DETAIL
SCALE: 1 1/2"= 1'-0"



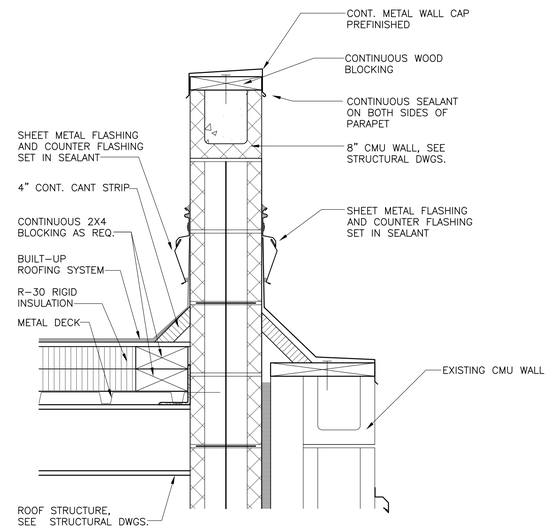
6 ROOF DETAIL
NOT TO SCALE



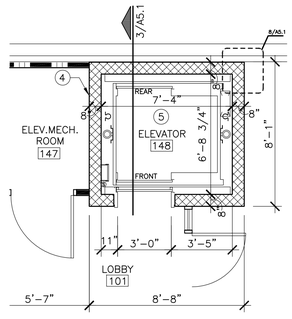
7 SCUPPER ELEVATION
NOT TO SCALE



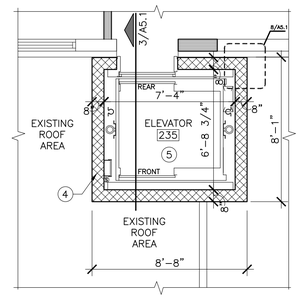
3 SECTION THRU ELEVATOR
SCALE: 1/2"= 1'-0"



4 ROOF DETAIL
SCALE: 1 1/2"= 1'-0"



1 ENLARGED FLOOR PLAN
SCALE: 1/4"= 1'-0"



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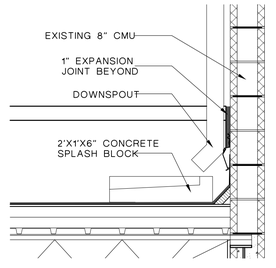
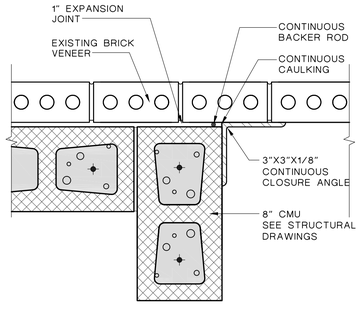


9 DETAIL
NOT TO SCALE



8 DETAIL
NOT TO SCALE

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THE COUNTY OF EL PASO TEXAS

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SHEET:
A5.1
VERTICAL CIRCULATION

2013-32-REMODELING OF THE ASCARATE ANNEX FOR THE EL PASO COUNTY- CONSTRUCTION DOCUMENTS MARCH 06, 2014

STRUCTURAL NOTES

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 THE ASCE 7-05 AS FOLLOWS:

STRUCTURAL OCCUPANCY CATEGORY	II
WIND VELOCITY	90 MPH
DIRECTIONAL FACTORS (Kd)	0.85 MFRS 0.85 COMPONENTS
WIND EXPOSURE	B
INTERNAL PRESSURE COEFFICIENT	±0.18
IMPORTANCE FACTOR	1.00

5. SNOW LOADS SHALL BE CALCULATED IN ACCORDANCE WITH CHAPTER 7 OF THE ASCE 7-05 AS FOLLOWS:

STRUCTURAL OCCUPANCY CATEGORY	II
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	II
MAPPED MCE	Ss=0.333 S1=0.107
SPECTRAL RESPONSE COEFFICIENT	SDs=0.341 SD1=0.170
SITE CLASSIFICATION	D
IMPORTANCE FACTOR	1.00
SEISMIC DESIGN CATEGORY	C

SHOP DRAWINGS

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 / ENGINEER.

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 ENGINEER.

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 MATERIAL.

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
2½-INCH	100%
1¾-INCH	90-100%
NO. 4	25-55%
NO. 40	15-50%

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 ACI 318-05.

2. PORTLAND CEMENT SHALL CONFORM TO ASTM C-150, TYPE I OR II. CONCRETE IN CONTACT WITH SOIL SHALL BE TYPE II CEMENT.

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.

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.

5. CONCRETE REINFORCING STEEL AND EMBEDS SHALL HAVE THE FOLLOWING PROPERTIES:

TYPE	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 BE:

CONDITION	CLEAR DISTANCE	NOTES
CONCRETE CAST AGAINST EARTH OR WATER	3 - INCH	EXCLUDES SLABS ON GRADE
CONCRETE CAST TO FORMS EXPOSED TO EARTH, WATER OR WEATHER	2 - INCH	NO. 6 BAR AND LARGER
	1½ - INCH	NO. 5 BAR AND SMALLER
CONCRETE CAST TO FORMS NOT EXPOSED TO EARTH, WATER OR WEATHER	1 - INCH	SLABS AND JOISTS
	1½ - INCH	BEAMS, COLUMNS, & WALLS
SLABS ON GRADE	2 - INCH	FROM BOTTOM SURFACE
	1½ - INCH	FROM TROWLED SURFACE
	3/4 - 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 AGENCY.

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 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 3/8 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.

5. MASONRY REINFORCING SHALL BE AS FOLLOWS:

LOCATION	ASTM	YIELD STRENGTH	NOTES
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 OF 6".

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 1/4" 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:

DESIGNATION ON PLANS	THICKNESS IN. & FINISH	Ix IN.4	FY KSI	ATTACHMENTS
1½" 22 GA B DECK	0.0295 PAINTED	0.192	33	NO. 12 TEK SCREWS @ 36/5 TO 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

4. ALTERNATE FASTENERS TYPES MAY BE USED WITH PRIOR APPROVAL OF THE ENGINEER.

5. PROVIDE A MINIMUM OF 1½" 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 SHALL BE DESIGNED AND CONSTRUCTED IN ACCORDANCE WITH THE AISI "SPECIFICATIONS FOR COLD-FORMED STEEL STRUCTURAL MEMBERS", 7TH EDITION

2. LIGHT GAGE FRAMING MEMBERS SHALL COMPLY WITH THE FOLLOWING SCHEDULE:

DESIGNATION ON PLANS	SSMA DESIGNATION	FLANGE WIDTH	AREA IN 2	Ix IN4	Sx IN3	Fy KSI
S4x18GA	400S162-43	1 5/8"	0.357	0.892	0.446	33
S6x18GA	600S162-43	1 5/8"	0.447	2.316	0.772	33
S8x16GA	800S162-54	1 5/8"	0.670	5.736	1.434	50
T4x18GA	400T125-43	1 1/4"	0.293	0.716	0.344	33
T6x18GA	600T125-43	1 1/4"	0.383	1.861	0.604	33
T8x18GA	800T125-43	1 1/4"	0.473	3.773	0.924	33

S DESIGNATES STUD OR JOIST SECTION
T DESIGNATES TRACK SECTION

3. EXTERIOR AND LOAD BEARING LIGHT GAGE STUD WALLS SHALL HAVE BRIDGING AT A MAXIMUM SPACING OF 4'-0" O.C. BRIDGING SHALL BE PER MANUFACTURE'S RECOMMENDATIONS.

4. SECURE ALL STUDS TO TOP AND BOTTOM TRACKS WITH A MINIMUM OF 1-NO. 8 SCREW EACH SIDE.

5. ALL WELDING OF MATERIAL LESS THAN 3/16" IN THICKNESS SHALL BE MADE IN ACCORDANCE WITH THE AWS D1.3. WELDERS AND WELDING PROCEDURES SHALL BE SHALL BE QUALIFIED BY AWS D1.3.

6. SPLICING STRUCTURAL LIGHT GAGE MEMBERS SHALL NOT BE ALLOWED.

7. ALL LIGHT GAGE STUDS AND TRACKS SHALL HAVE A G60 FINISH

POST INSTALLED ANCHORS

1. ALL CONCRETE EXPANSION ANCHORS TO BE USED, SHALL HAVE AN ICC-ES REPORT AND MEET THE REQUIREMENTS OF ACI 318 APPENDIX D FOR CRACKED & UNCRACKED CONCRETE. ANCHORS SHALL BE APPROVED FOR SEISMIC LOADS AND CRACKED CONCRETE. PRODUCT DATA SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL. ANCHORS SHALL BE INSTALLED PER THE ICC-ES REPORT AND MANUFACTURES RECOMMENDATIONS. CONCRETE ANCHORS SHALL BE GALVANIZED CARBON STEEL. CONCRETE EXPANSION ANCHORS SHALL MEET THE FOLLOWING MINIMUM REQUIREMENTS UNLESS NOTED OTHERWISE.

DESIGNATION ON PLANS	MINIMUM EMBEDMENT	ALLOWABLE NON-SEISMIC TENSILE LOAD	ALLOWABLE NON-SEISMIC SHEAR LOAD
1/2"ØCEA	3 1/4"	3,239 LBS	3,685 LBS

2. ALL MASONRY EXPANSION ANCHORS TO BE USED, SHALL HAVE AN ICC-ES REPORT IN ACCORDANCE WITH THE PROVISIONS OF ICC-ES ESR-3342. ANCHORS SHALL BE APPROVED FOR SEISMIC LOADS FOR FULLY GROUTED CELLS ONLY. PRODUCT DATA SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL. ANCHORS SHALL BE INSTALLED PER THE ICC-ES REPORT AND MANUFACTURES RECOMMENDATIONS. MASONRY ANCHORS SHALL BE GALVANIZED. MASONRY ANCHORS SHALL BE APPROVED FOR HOLLOW UNREINFORCED MASONRY. MASONRY EXPANSION ANCHORS SHALL MEET THE FOLLOWING MINIMUM REQUIREMENTS UNLESS NOTED OTHERWISE.

DESIGNATION ON PLANS	MINIMUM EMBEDMENT	ALLOWABLE TENSILE LOAD	ALLOWABLE SHEAR LOAD
1/2"ØMEA	4½"	2,030 LBS	1495 LBS

3. ALL ADHESIVE (EPOXY) ANCHORS INTO CONCRETE SHALL HAVE AN ICC-ES REPORT, AND MEET THE REQUIREMENTS OF ACI 318 APPENDIX D FOR CRACKED & UNCRACKED CONCRETE. PRODUCT DATA SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL. ANCHORS SHALL BE INSTALLED PER THE ICC-ES REPORT AND MANUFACTURES RECOMMENDATIONS. ADHESIVE ANCHORS SHALL MEET THE FOLLOWING MINIMUM REQUIREMENTS UNLESS NOTED OTHERWISE.

EPOXY EMBEDDED REBAR

DESIGNATION ON PLANS	REBAR SIZE	MINIMUM EMBEDMENT	ULTIMATE TENSILE LOAD
NO.4EA	#4	6"	18,000 LBS
NO.5EA	#5	7½"	27,900 LBS

ALL ULTIMATE LOADS ARE PROVIDED FOR NORMAL WEIGHT CONCRETE AND f'y = 60ksi REBAR WITH f'c = 4000psi.

4. ALL POWER ACTUATED FASTENERS TO BE USED, SHALL HAVE AN ICC-ES REPORT IN ACCORDANCE WITH THE PROVISIONS OF ICC-ES ESR-2269. FASTENERS SHALL BE APPROVED FOR SEISMIC LOADS. PRODUCT DATA SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL. FASTENERS SHALL BE INSTALLED PER THE ICC-ES REPORT AND MANUFACTURES RECOMMENDATIONS. POWER ACTUATED FASTENERS SHALL MEET THE FOLLOWING MINIMUM REQUIREMENTS UNLESS NOTED OTHERWISE.

POWER ACTUATED FASTENERS IN CONCRETE

DESIGNATION ON PLANS	MINIMUM DIAMETER	MINIMUM EMBEDMENT	ALLOWABLE TENSILE LOAD	ALLOWABLE SHEAR LOAD
0.157Øx1PAF	0.157"	1"	170 LBS	225 LBS
0.157Øx1½ PAF	0.157"	1½"	325 LBS	420 LBS

ALL 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
0.157ØPAF	0.157"	GREATER THAN MATERIAL THICKNESS	775 LBS	720 LBS

ALL ALLOWABLE LOADS ARE PROVIDED FOR 1/4" THICK ASTM A36 STEEL.

QUALITY ASSURANCE PLAN

STRUCTURAL INSPECTION AND TESTING

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

2. IT IS THE GENERAL CONTRACTORS RESPONSIBILITY TO SCHEDULE AND COORDINATE THE PERFORMANCE OF INSPECTIONS AND TESTING IN ACCORDANCE WITH THE SPECIFICATIONS, BUILDING CODE AND THE SPECIAL INSPECTION SCHEDULES.

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 TESTING REQUIREMENTS.

4. DUTIES AND RESPONSIBILITIES OF THE SPECIAL INSPECTOR:
   A. THE SPECIAL INSPECTOR SHALL INSPECT THE WORK AS REQUIRED BY THE SPECIAL INSPECTION SCHEDULES TO ENSURE THAT THE WORK IS IN ACCORDANCE WITH THE APPROVED PLANS AND SPECIFICATIONS.
   B. ALL DISCREPANCIES SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE GENERAL CONTRACTOR. THE GENERAL CONTRACTOR SHALL IMPLEMENT A TIMELY PLAN TO CORRECT ANY DISCREPANCIES. IN THE EVENT THE DISCREPANCIES ARE NOT CORRECTED, THE ENGINEER, ARCHITECT AND BUILDING OFFICIAL SHALL BE NOTIFIED.
   C. THE SPECIAL INSPECTOR SHALL PROVIDE INSPECTION REPORTS TO THE GENERAL CONTRACTOR, ARCHITECT, ENGINEER AND THE BUILDING OFFICIAL IN A TIMELY MANNER.

SPECIAL INSPECTION AND VERIFICATION OF SOILS

VERIFICATION AND INSPECTION TASK	CONTINUOUS DURING TASK LISTED	PERIODICALLY DURING TASK LISTED	IBC REFERENCE
1. VERIFY MATERIALS BELOW SHALLOW FOUNDATION ARE ADEQUATE TO ACHEIVE THE DESIGN BEARING CAPACITY.		X	1704.7
2. VERIFY EXCAVATIONS ARE EXTENDED TO PROPER DEPTH AND HAVE REACHED PROPER MATERIAL.		X	1704.7
3. PERFORM CLASSIFICATION AND TESTING OF CONTROLLED FILL MATERIALS.		X	1704.7
4. VERIFY USE OF PROPER MATERIALS, DENSITIES AND LIFT THICKNESS DURING PLACEMENT AND COMPACTION OF CONTROLLED FILL.	X		1704.7
5. PRIOR TO PLACEMENT OF CONTROLLED FILL, OBSERVE SUBGRADE AND VERIFY THAT SITE HAS BEEN PREPARED PROPERLY.		X	1704.7

SPECIAL INSPECTION AND VERIFICATION OF CONCRETE CONSTRUCTION

VERIFICATION AND INSPECTION TASK	FREQUENCY OF INSPECTION		REFERENCE FOR CRITERIA	
	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.	X		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

SPECIAL INSPECTION AND VERIFICATION OF MASONRY - LEVEL #1

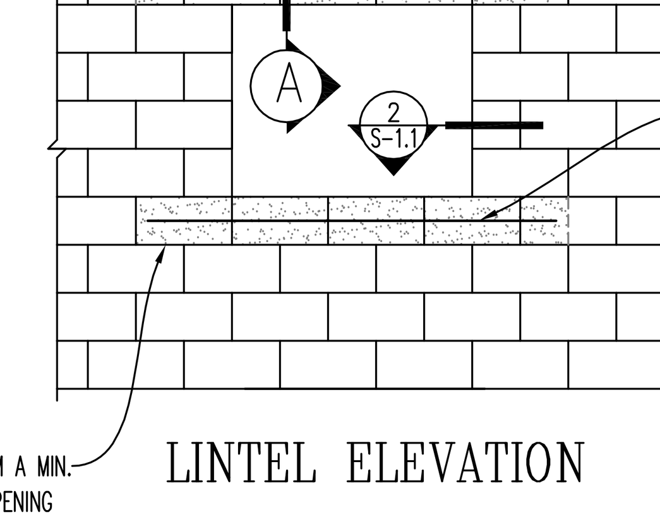
VERIFICATION AND INSPECTION TASK	FREQUENCY OF INSPECTION		REFERENCE FOR CRITERIA		
	CONTINUOUS DURING TASK LISTED	PERIODICALLY DURING TASK LISTED	IBC SECTION	ACI530/ ASCE5/ TMS402	ACI530.1/ ASCE6/ TMS602
1. COMPLIANCE WITH REQUIRED INSPECTION PROVISIONS OF THE CONSTRUCTION DOCUMENTS AND THE APPROVED SUBMITTALS SHALL BE VERIFIED.		X			ART. 1.5
2. VERIFICATION OF f'_m AND f'_{AAC} PRIOR TO CONSTRUCTION EXCEPT WHERE SPECIFICALLY EXEMPTED BY THIS CODE.		X			ART. 1.4B
3. VERIFICATION OF SLUMP FLOW AND VSI AS DELIVERED TO THE SITE FOR SELF-CONSOLIDATING GROUT.	X				ART. 1.5B.1.b.3
4. AS MASONRY CONSTRUCTION BEGINS, THE FOLLOWING SHALL BE VERIFIED TO ENSURE COMPLIANCE:					
a. PROPORTIONS OF SITE-PREPARED MORTAR.		X			ART. 2.6A
b. CONSTRUCTION OF MORTAR JOINTS.		X			ART. 3.3B
c. LOCATION OF REINFORCEMENT, CONNECTORS, AND ANCHORAGES.		X			ART. 3.4, 3.6A
5. DURING CONSTRUCTION THE INSPECTION PROGRAM SHALL VERIFY:					
a. SIZE AND LOCATION OF STRUCTURAL ELEMENTS.		X			ART. 3.3F
b. TYPE, SIZE AND LOCATION OF ANCHORS, INCLUDING OTHER DETAILS OF ANCHORAGE OF MASONRY TO STRUCTURAL MEMBERS, FRAMES OR OTHER CONSTRUCTION.		X		SEC. 1.2.2(e), 1.16.1	
c. SPECIFIED SIZE, GRADE AND TYPE OF REINFORCEMENT, ANCHOR BOLTS, AND ANCHORAGES.		X		SEC. 1.15	ART. 2.4, 3.4
d. WELDING OF REINFORCING BARS.	X			SEC. 2.1.9.7.2, 3.3.3.4(b)	
e. PREPARATION, CONSTRUCTION AND PROTECTION OF MASONRY DURING COLD WEATHER (TEMPERATURE BELOW 40°F) OR HOT WEATHER (TEMPERATURE ABOVE 90°F).		X	SEC. 2104.3, 2104.4		ART. 1.8C, 1.8D
6. PRIOR TO GROUTING, THE FOLLOWING SHALL BE VERIFIED TO ENSURE COMPLIANCE:					
a. GROUT SPACE IS CLEAN.		X			ART. 3.2D
b. PLACEMENT OF REINFORCEMENT, CONNECTORS AND ANCHORAGES.		X		SEC. 1.13	ART. 3.4
c. PROPORTIONS OF SITE-PREPARED GROUT		X			ART. 2.6B
d. CONSTRUCTION OF MORTAR JOINTS.		X			ART. 3.3B
7. GROUT PLACEMENT SHALL BE VERIFIED TO ENSURE COMPLIANCE:	X				ART. 3.5
8. PREPARATION OF ANY REQUIRED GROUT SPECIMENS, MORTAR SPECIMENS AND/OR PRISMS SHALL BE OBSERVED.		X	SEC. 2105.2.2, 2105.3		ART. 1.4

SPECIAL INSPECTION AND VERIFICATION OF STEEL CONSTRUCTION

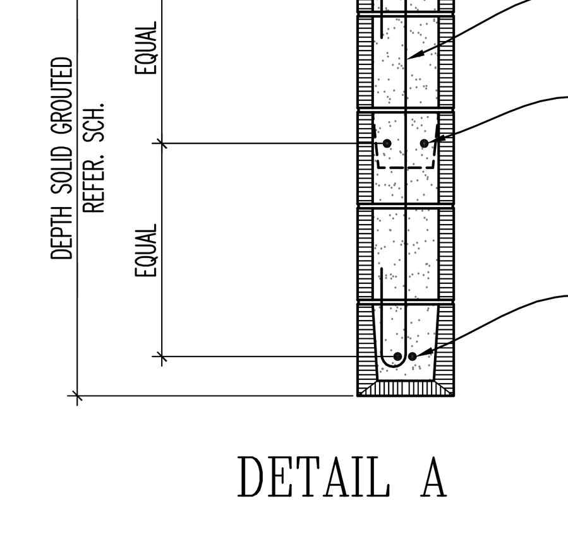
VERIFICATION AND INSPECTION TASK	FREQUENCY OF INSPECTION		REFERENCE FOR CRITERIA	
	CONTINUOUS DURING TASK LISTED	PERIODICALLY DURING TASK LISTED	IBC SECTION	REFERENCED STANDARD
1. MATERIAL VERIFICATION OF HIGH-STRENGTH BOLTS, NUTS AND WASHERS:				
a. IDENTIFICATION MARKINGS TO CONFORM TO ASTM STANDARDS 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.		X		
4. MATERIAL VERIFICATION OF WELD FILLER MATERIALS:				
a. IDENTIFICATION 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 ≤ 5/16"		X	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 ACI 318 3.5.2
2) SHEAR REINFORCEMENT.	X			
3) OTHER REINFORCING STEEL.		X		
6. INSPECTION OF STEEL FRAME JOINT DETAIL FOR COMPLIANCE WITH APPROVED CONSTRUCTION DOCUMENTS:				
a. DETAILS SUCH AS BRACING AND STIFFENING.		X		
b. MEMBER LOCATIONS.		X	1704.3.2	
c. APPLICATION OF JOINT DETAILS AT EACH CONNECTION.		X		

LINTEL SCHEDULE

MARK	LINTEL DEPTH	BOTTOM REINF.	MIDDLE REINF.	TOP REINF.	SHEAR REINF.
L1	24"	2-#5	--	--	--



LINTEL ELEVATION



DETAIL A

1 CMU LINTEL SCHEDULE

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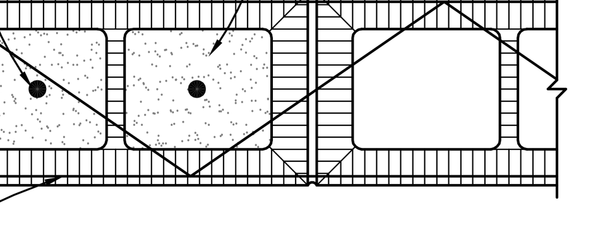
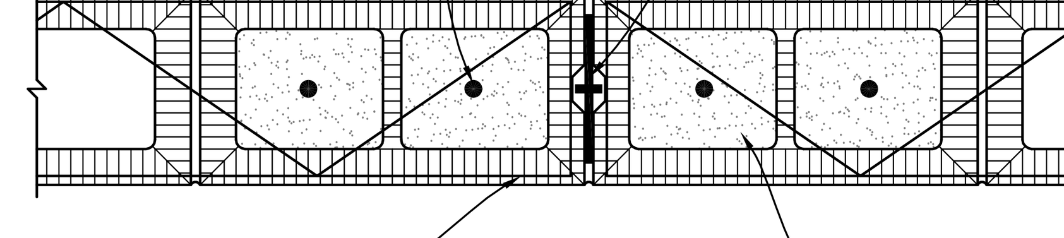


2 TYPICAL WALL JAMB

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



3 TYPICAL MASONRY CONTROL JOINT

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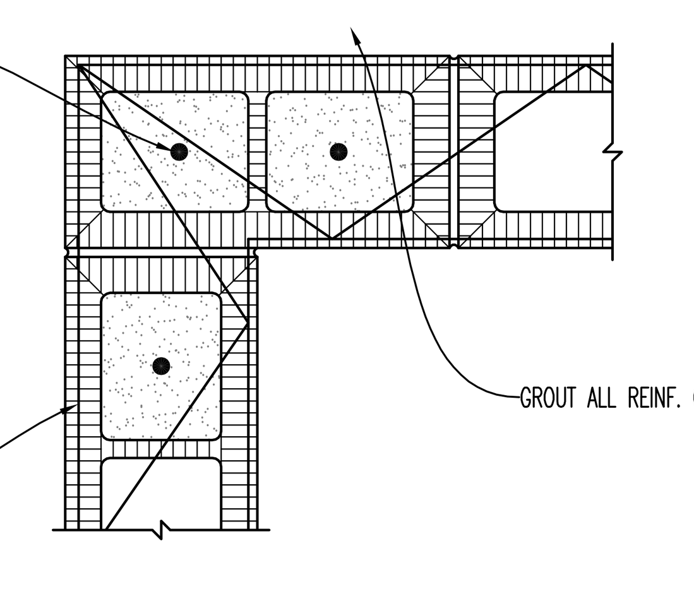

4 TYPICAL WALL CORNER

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

ABBREVIATIONS

ARCH.	-	ARCHITECTURAL
BLDG.	-	BUILDING
BOT.	-	BOTTOM
BRG.	-	BEARING
CJ	-	CONTROL JOINT
℄	-	CENTERLINE
CEA	-	CONCRETE EXPANSION ANCHOR
CONC.	-	CONCRETE
CONT.	-	CONTINUOUS
COORD.	-	COORDINATE
DBL.	-	DOUBLE
EA	-	EXPOXY ANCHOR
EL	-	ELEVATION
FIN.	-	FINISH
FLR.	-	FLOOR
HAS	-	HEADED ANCHOR STUD
FT.	-	FEET
FTG.	-	FOOTING
HORIZ.	-	HORIZONTAL
JST.	-	JOIST
MCJ	-	MASONRY CONTROL JOINT
MFG.	-	MANUFACTURE
NTS	-	NOT TO SCALE
PL	-	PLATE
REFER	-	REFERENCE
REINF.	-	REINFORCE, REINFORCEMENT
SCH.	-	SCHEDULE
SQ.	-	SQUARE
STD.	-	STANDARD
STRL.	-	STRUCTURAL
TYP.	-	TYPICAL
VERT.	-	VERTICAL
B/F	-	BOTTOM OF FOOTING

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92016
LICENSED PROFESSIONAL ENGINEER
3/10/14

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

THE COUNTY OF EL PASO TEXAS

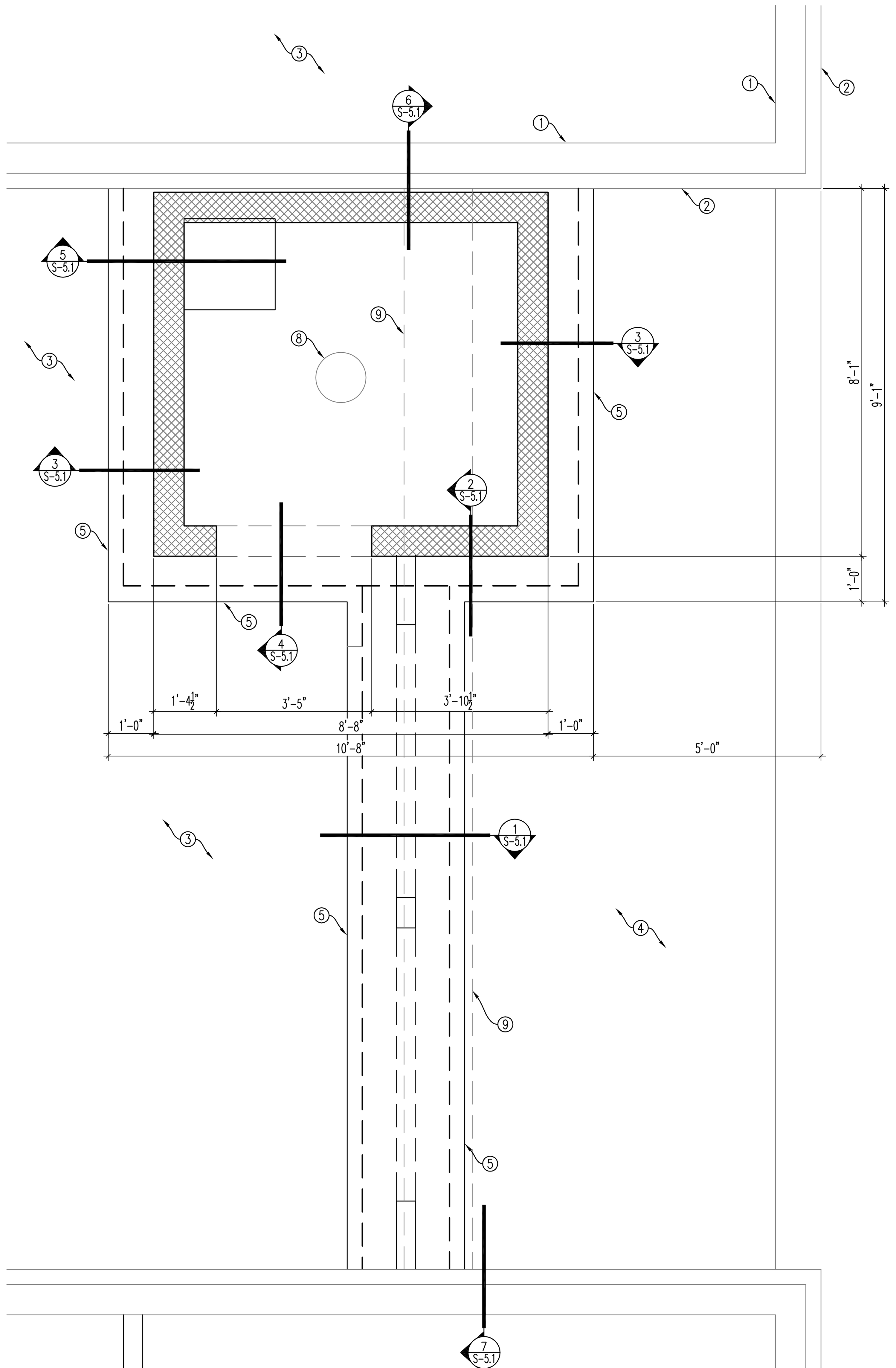
ISSUED FOR CONSTRUCTION

NO.	DATE:	REVISION:

DATE: MARCH 10, 2014

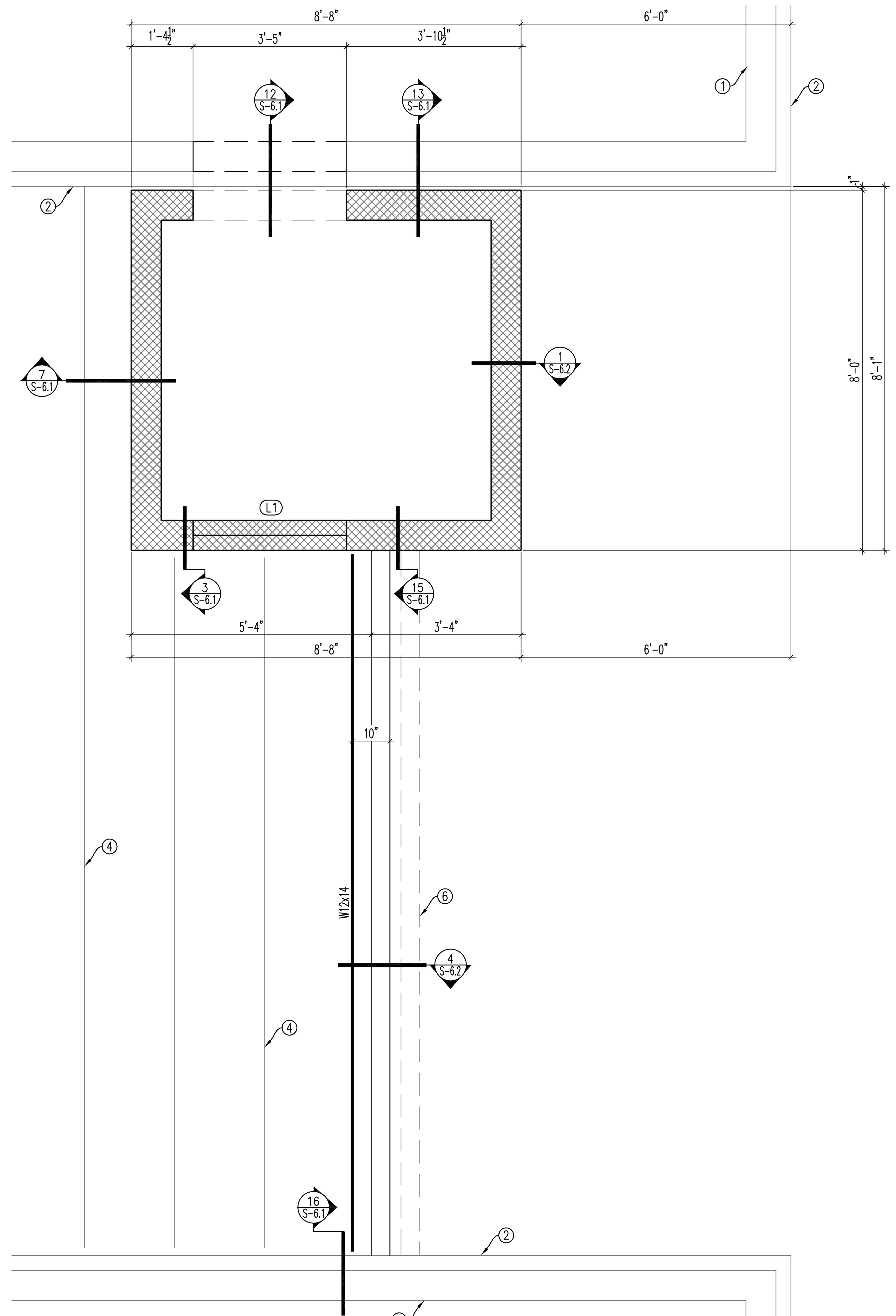
SHEET:
S-1.1
STRUCTURAL NOTES
SEI JOB NO.: C03-002

2013-32-MULTIPLE RENOVATION PROJECTS, EL PASO COUNTY-CONSTRUCTION DOCUMENTS FEBRUARY 03, 2014



ENTRANCE/ELEVATOR FOUNDATION PLAN – A

SCALE: ½" = 1'-0"



ENTRANCE/ELEVATOR FRAMING PLAN – A

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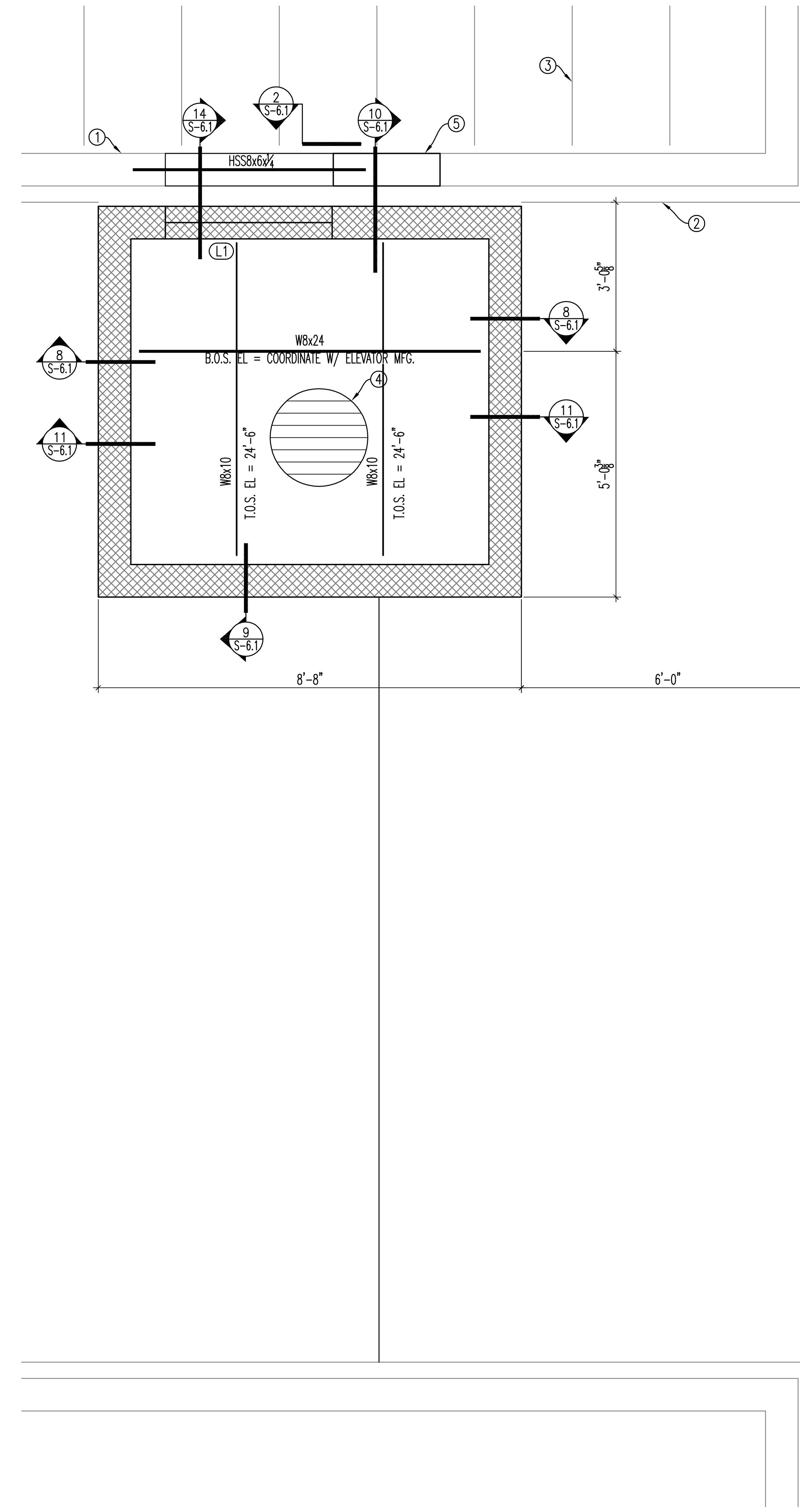


ENTRANCE/ELEVATOR ROOF FRAMING PLAN – A

SCALE: ½" = 1'-0"

PLAN NOTES

ALL DIMENSIONS ARE TO FACE OF CMU UNLESS NOTED OTHERWISE.

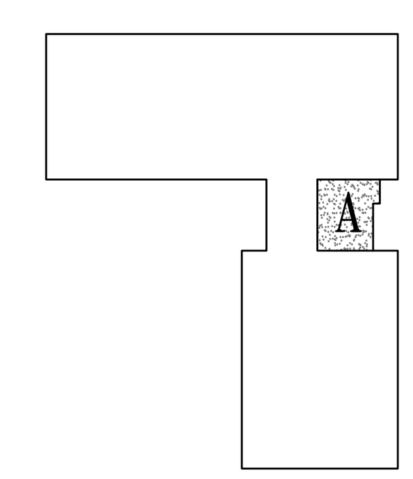
(LX) INDICATES CMU LINTEL. REFER TO DETAIL 1/S-6.1

EXISTING CONSTRUCTION SHOWN IS PER AVAILABLE INFORMATION.
CONTRACTOR SHALL NOTIFY ENGINEER OF ANY DISCREPANCIES.

▨ INDICATES CMU WALL

○ KEY NOTES

1. EXISTING CMU WALL
2. EXISTING BRICK VENEER
3. EXISTING CONCRETE SLAB
4. EXISTING EXTERIOR PAVING OR GRADING
5. SAW CUT SLAB
6. EXISTING STUD WALL TO BE DEMOLISHED
7. FILL EXISTING WINDOW PER DETAILS 5/S-6.1 & 6/S-6.1
8. JACK HOLE. COORDINATE WITH ELEVATOR MANUFACTURE
9. DEMOLISHED EXISTING FOOTING
10. 1 ½", 22ga B-DECK – REFERENCE STRUCTURAL NOTES
11. EXISTING BAR JOISTS



KEY PLAN

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STRUCTURAL PLANS

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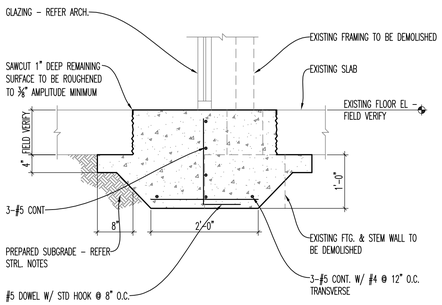
2013–32–MULTIPLE RENOVATION PROJECTS, EL PASO COUNTY–CONSTRUCTION DOCUMENTS FEBRUARY 03, 2014



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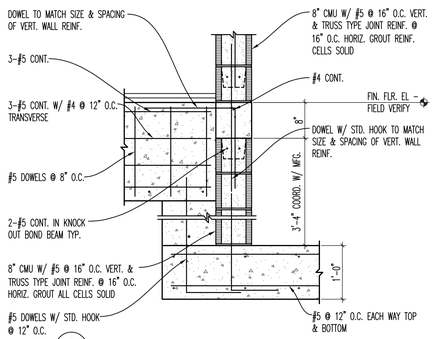

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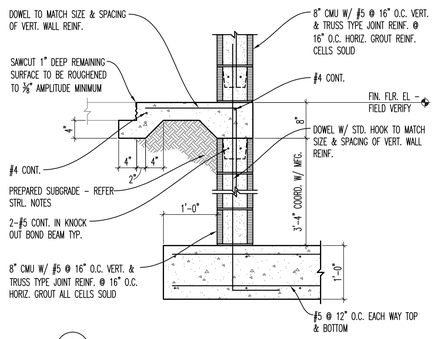

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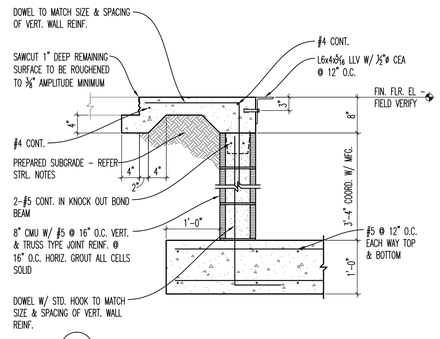

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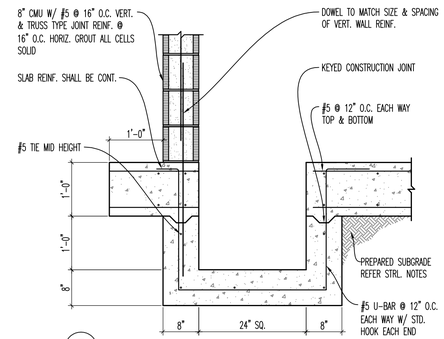

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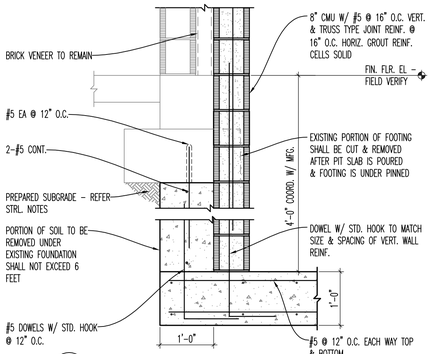

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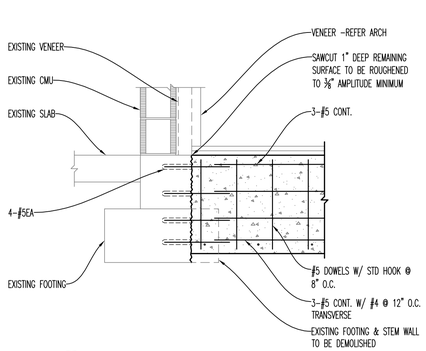

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SCALE: 3/4"=1'-0"

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FOUNDATION DETAILS

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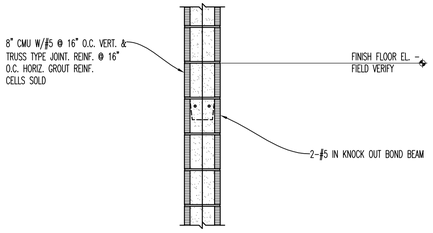
2013–32–MULTIPLE RENOVATION PROJECTS, EL PASO COUNTY–CONSTRUCTION DOCUMENTS FEBRUARY 03, 2014



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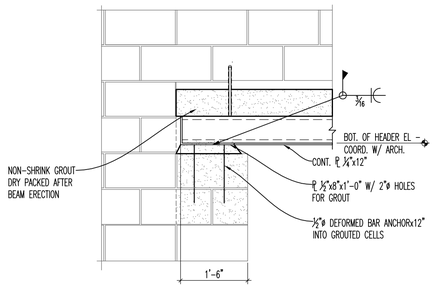

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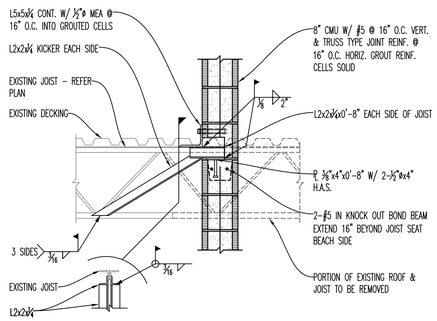

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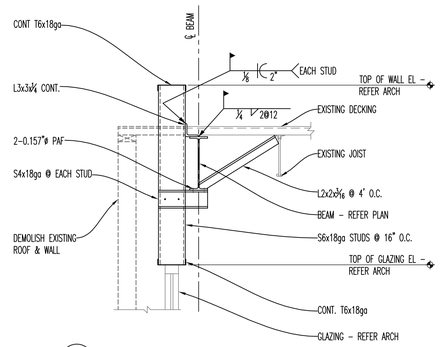

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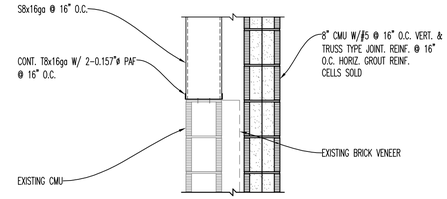

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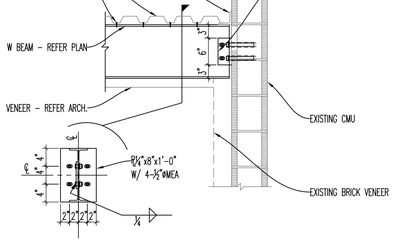

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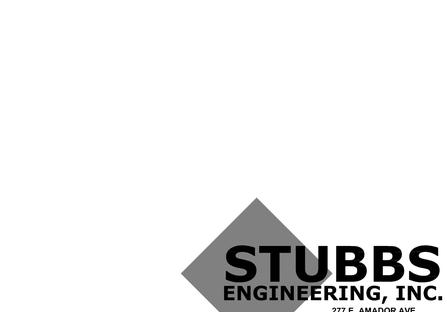

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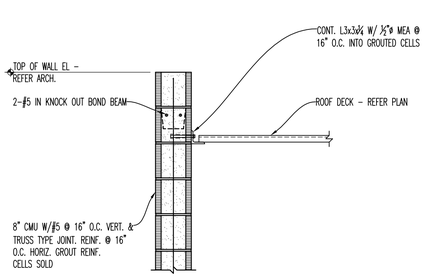

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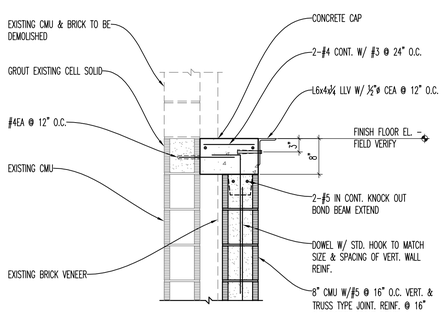

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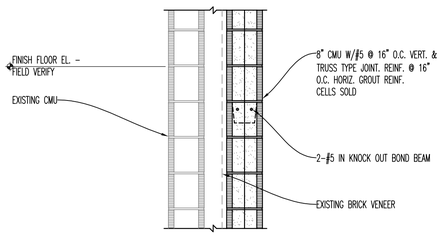

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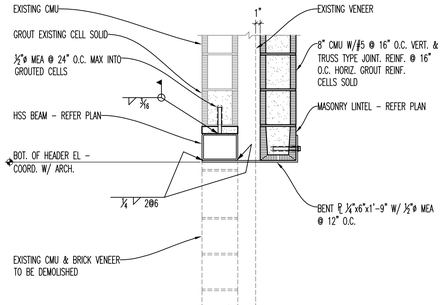

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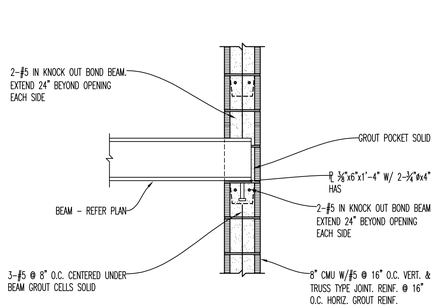

15 SCALE: 3/4"=1'-0"

16 SCALE: 3/4"=1'-0"

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REMODELING OF THE ASCARATE ANNEX FOR THE EL PASO COUNTY

301 MANNY MARTINEZ DR. , EL PASO, TEXAS 79905

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PH: (575) 993-5228
TBPE FIRM NO.: F-12826

2013-32-MULTIPLE RENOVATION PROJECTS, EL PASO COUNTY-CONSTRUCTION DOCUMENTS FEBRUARY 03, 2014

PLUMBING SYMBOL LEGEND

ABBRV	SYMBOL	DESCRIPTION
GENERAL		
		NORTH DIRECTION
	1 / A-5 | A-7	DETAIL NUMBER
		SHEET NUMBER OF DRAWING WHERE DETAIL IS SHOWN
		SHEET NUMBER OF DRAWING WHERE DETAIL IS REFERENCED
	A / A-	DIRECTION OF SITE OF ELEV. ON PLAN
		SHEET NUMBER OF DRAWING WHERE ELEV. IS SHOWN
	1 / A-5	DRAWING NUMBER
		SHEET REFERENCE
	XX-##	FIXTURE I.D. - SEE FIXTURE SCHEDULES
	XX-XX	NEW EQUIPMENT ABBREVIATION AND NO.
		INDICATES PIPING CONTINUATION
		FLOW DIRECTION
		POINT OF CONNECTION
FLR		FLOOR
CLG		CEILING
AFF		ABOVE FINISHED FLOOR
BFF		BELOW FINISHED FLOOR
		FINISHED FLOOR
AFG		ABOVE FINISHED GRADE
BFG		BELOW FINISHED GRADE
EXIST		EXISTING
NIC		NOT IN CONSTRUCTION
		UNDERGROUND
(SYMBOL) E	—(SYMBOL) E—	INDICATES EXISTING SERVICE
SAN	——S——	SANITARY WASTE/SEWER
	— — —	VENT
	CW, VENT UP, DRAIN, HW	TYPICAL PLUMBING ROUGH-IN DESCRIPTION
		ELBOW, TURNED DOWN
		ELBOW, TURNED UP
		TEE, OUTLET DOWN
		TEE, OUTLET UP
		CAP OR PLUG
WCO		WALL CLEANOUT, FLUSH WITH FINISHED WALL
CO		IN-LINE CLEANOUT, EXPOSED OR ACCESSIBLE
CO, COG, FCO		CLEAN-OUT, (TO GRADE=COG, FLUSH W/FLR=FCO)
DCO, 2-WAY CO	(OR)	2-WAY (DUAL) CLEANOUT PITCH OF PIPE (DOWN)

NOTES: GENERAL LEGEND NOT ALL ITEMS APPLICABLE TO THIS PROJECT

PLUMBING GENERAL NOTES:

1. PLUMBING GENERAL NOTES ARE APPLICABLE TO ALL PLUMBING SHEETS IN THIS PROJECT SET. PLUMBING 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 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 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 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. 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/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 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 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.

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 TXDOT 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 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. 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 MANUFACTURER RECOMMENDATIONS..

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 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 THIS FINAL PUNCHLIST VISIT UPON THE REQUEST OF THE ENGINEER. THE GENERAL CONTRACTOR SHALL INCLUDE IN HIS RESPONSE THE FOLLOWING INFORMATION.
    A. DATE OF SITE VISIT BY THE ENGINEER,
    B. DATE OF RECEIPT OF THE SITE VISIT REPORT,
    C. NAME AND TITLE OF THE PREPARER OF THE RESPONSE,
    D. AN ITEM NUMBER REFERENCED TO THE SITE REPORT,
    E. A BRIEF THREE OR FOUR WORD DESCRIPTION OF THE ITEM,
    F. 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 THE ENGINEER.

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.

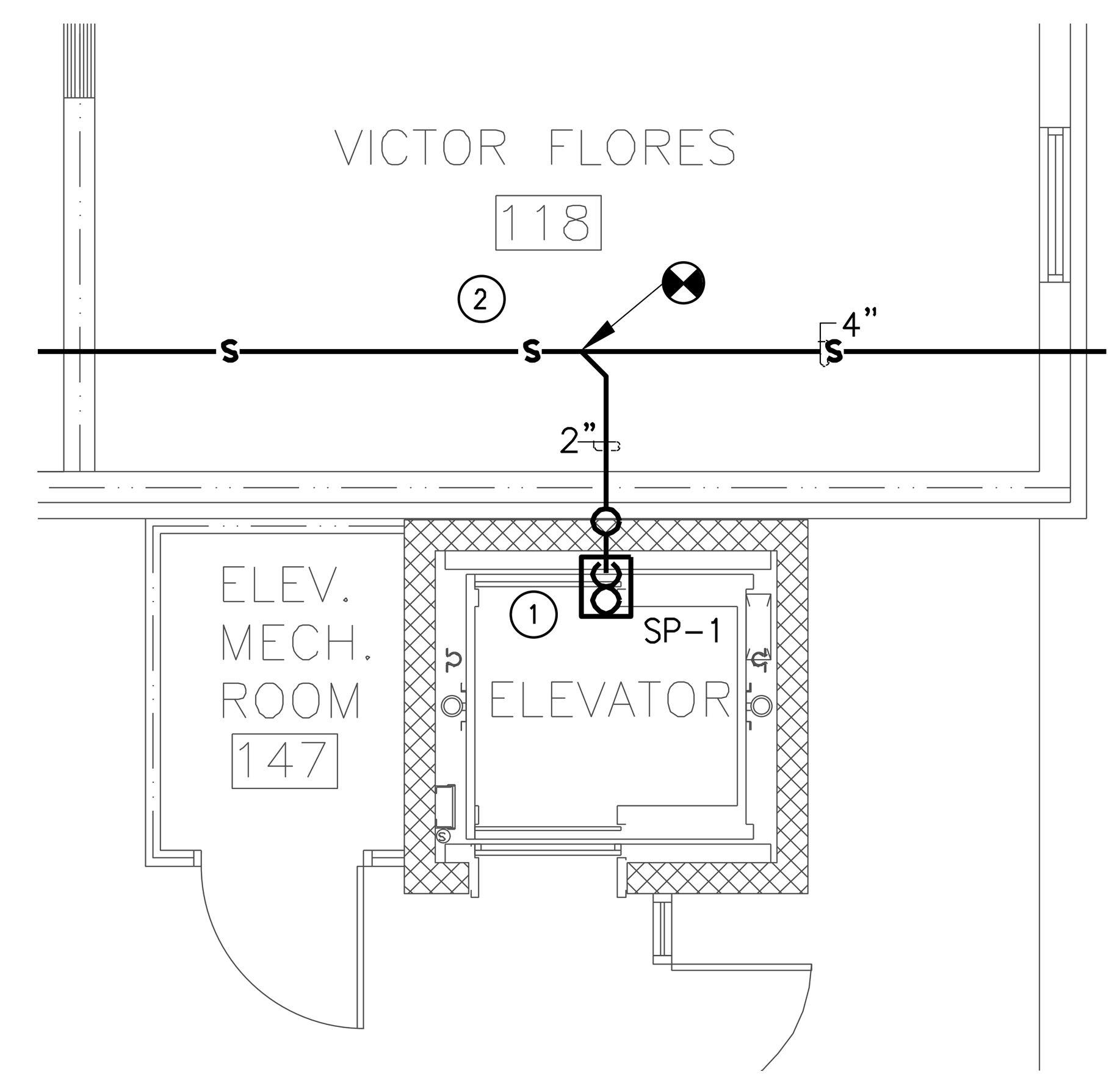
34. REQUIRED SHOP DRAWING SUBMITTALS
    A. ELEVATOR SUMP
    B. PIPING MATERIALS, FITTINGS, AND SOLDER
    C. PIPING INSULATION INCLUDING JACKETING
    D. PIPING SUPPORTS AND HANGERS

UMBING

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.



PARTIAL REMODEL PLUMBING PLAN FIRST FLOOR ELEVATOR

1 / MP1.0

SCALE: 1/4" = 1'-0"

4 2 0 4 8

IT'S THE LAW

AND IT'S FREE - CALL BEFORE YOU DIG

CALL TWO WORKING DAYS BEFORE YOU DIG IN TEXAS 1-800-344-8377 (1-800-DIG-TESS)

ES LA LEY

GRATIS PARA USTED - LLAME ANTES DE ESCARVAR

LLAME 2 DIAS DE TRABAJO ANTES DE ESCARVAR EN TEXAS 1-800-344-8377 (1-800-DIG-TESS)

MINIMUM PIPE MATERIAL REQUIREMENTS

UNLESS SPECIFIED OTHERWISE, THE FOLLOWING SCHEDULE SHALL BE USED TO DETERMINE THE MINIMUM ACCEPTABLE MATERIAL TYPES USED FOR EACH PLUMBING APPLICATION LISTED. DEVIATIONS FROM THIS SCHEDULE UNLESS ALLOWED FOR IN THE SPECIFICATIONS PRODUCED BY THIS OFFICE FOR THIS PROJECT, ARE AT THE CONTRACTORS RISK. SELECTING PIPE MATERIALS OTHER THAN AS SCHEDULED BELOW MUST BE IN ACCORDANCE TO LOCAL, STATE, AND FEDERAL BUILDING STANDARDS INCLUDING NFPA. ANY DEVIATION FROM THIS SCHEDULE AND/OR SPECIFICATIONS FROM THIS PROJECT THEREBY WAIVE EMC ENGINEERS FROM ANY LIABILITY ARISING FROM BUILDING CODE VIOLATIONS.

PLUMBING SERVICE	LOCATION	MATERIALS REQUIRED
SANITARY WASTE, DRAIN, & VENT	BELOW GRADE, OUTSIDE OF 5'-0" OF BUILDING	PVC, ASTM 1785 HUB & SPIGOT SEE NOTE 1
	BELOW GRADE, WITHIN OF 5'-0" OF BUILDING	PVC, ASTM 1785 HUB & SPIGOT SEE NOTE 2
	ABOVE GRADE, WITHIN BUILDING	PVC, ASTM 1785 NO-HUB (HUBLESS), SEE NOTE 3
DOMESTIC WATER (COLD, HOT, & RECIRC.)	BELOW GRADE	COPPER TYPE "K" TUBING (SEAMLESS)
	ABOVE GRADE	COPPER TYPE "L"
NATURAL GAS	BELOW GRADE, WITHIN OF 5'-0" OF BUILDING	BLACK IRON WITH DOUBLE LAYER, HALF- LAPPED 10 MIL POLYETHYLENE TAPE
	ABOVE GRADE, WITHIN BUILDING	BLACK IRON SCHEDULE 40
CONDENSATE DRAIN	WITHIN OF 5'-0" OF BUILDING	COPPER TYPE "M"

NOTES:
1. 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.
2. 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.
3. PIPING SHALL BE NO-HUB OR PVC PER ASTM 1785 HUB & SPIGOT AND SHALL BE WRAPPED WITH 1-HOUR FIRE INSULATING BLANKET PER CODE REQUIREMENTS.
4. PIPING SHALL BE INSULATED AND JACKETED PER ENERGY CODE - DOMESTIC SERVICE WATER PIPING INSULATION CRITERIA SCHEDULE.

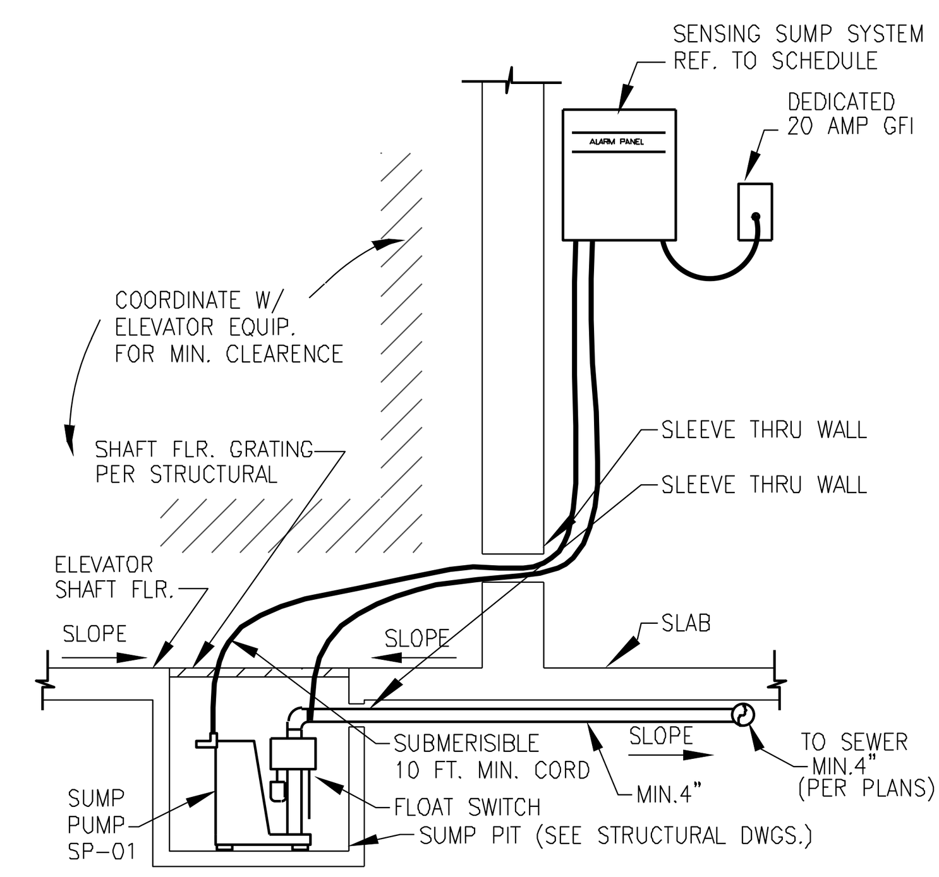
PLUMBING GENERAL NOTES

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.



SUMP PUMP SCHEMATIC

2 / MP-1.0

SCALE: NONE

ELEVATOR SUMP PUMP SCHEDULE

SYMBOL	SP-01
SERVES	COEP TAX/AGRALIFE BUILDING
TYPE OF PUMP UNIT	SUMP
NUMBER OF PUMPS	1
PRIMARY 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:	
VOLTAGE/PHASE	120V / 1P
FULL LOAD AMPS (FLA)	8.6
SUMP (REFER TO KEYED NOTE 4)	
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.
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.
5. SUMP ASSEMBLY TO COMPLY WITH ASME-A17.1

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ALTERATION OF A SEALED DOCUMENT WITHOUT PROPER NOTIFICATION TO THE RESPONSIBLE ENGINEER IS AN OFFENSE UNDER THE TEXAS ENGINEERING PRACTICE ACT.

STATE OF TEXAS
MELVIN GARY GLASS
64955
REGISTERED
PROFESSIONAL ENGINEER
03/13/14

EMC ENGINEERS
EMC ENGINEERS
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

REMODELING OF THE ASCARATE ANNEX FOR THE EL PASO COUNTY

301 MANNY MARTINEZ DR., EL PASO, TEXAS 79905

THE COUNTY OF EL PASO TEXAS

ISSUED FOR CONSTRUCTION

NO.	DATE:	REVISION:
1	3/12/2014	CITY COMMENTS

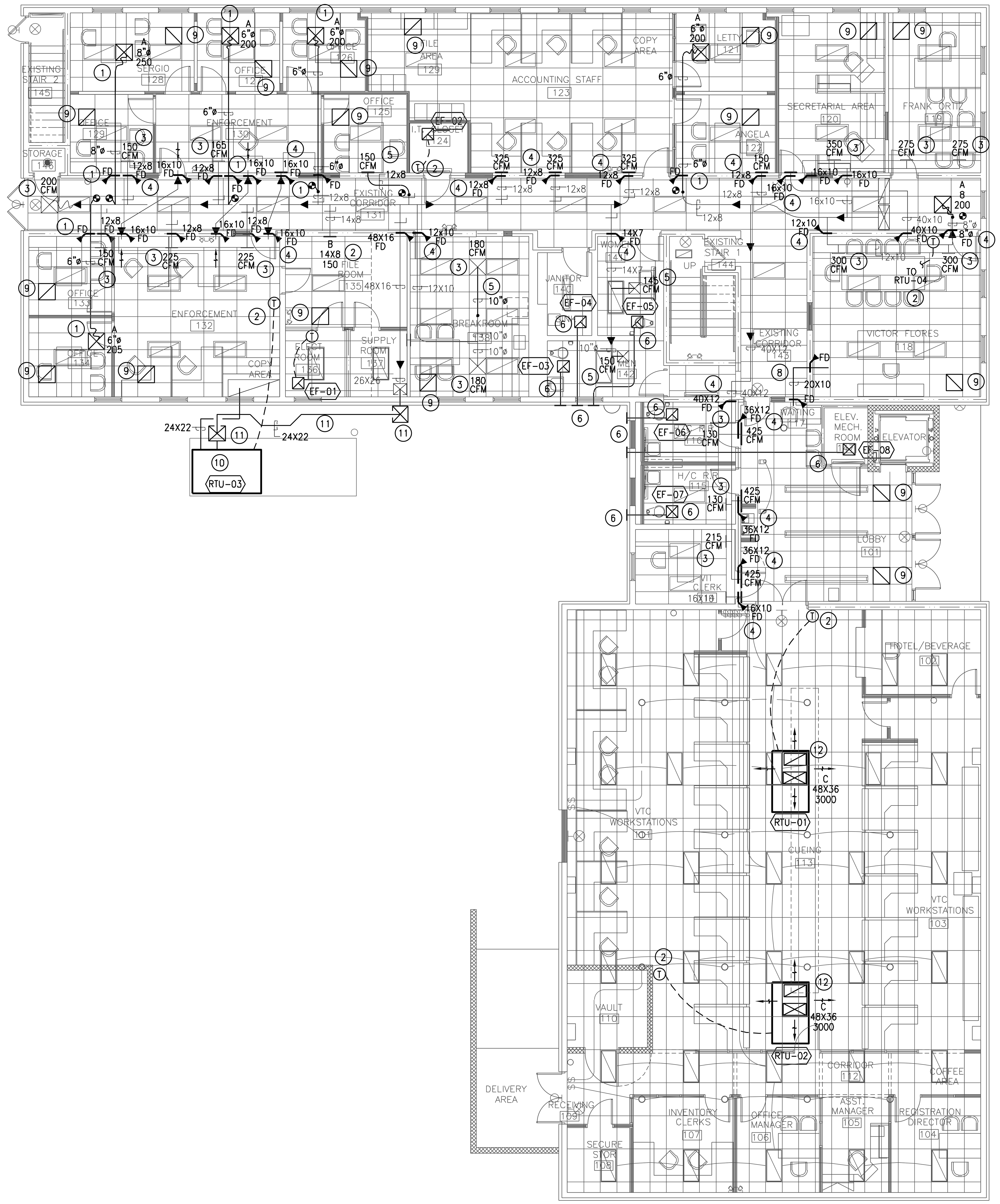
DATE: FEBRUARY 17, 2014

SHEET:

MP1.0

GENERAL NOTES AND LEGEND, SUMP INFO

2013-32-REMODELING OF THE ASCARATE ANNEX FOR THE EL PASO COUNTY- 100% CONSTRUCTION DOCUMENTS FEBRUARY 17, 2014



REMODEL MECHANICAL FIRST FLOOR PLAN

1 / M3.0

SCALE: 1/8" = 1'-0"

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.

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STATE OF TEXAS
MELVIN GARY GLASS
64955
REGISTERED PROFESSIONAL ENGINEER
02/14/14

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FAX: 915-781-2055
TEXAS FIRM REG. #F2491
EMC PROJECT #1308056-A

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

THE COUNTY OF EL PASO TEXAS

ISSUED FOR CONSTRUCTION

NO.	DATE:	REVISION:

DATE: FEBRUARY 17, 2014

SHEET:
M3.0
REMODEL PLUBING FIRST FLOOR PLAN

2013-32-REMODELING OF THE ASCARATE ANNEX FOR THE EL PASO COUNTY- 100% CONSTRUCTION DOCUMENTS FEBRUARY 17, 2014

PACKAGED ROOFTOP UNIT SCHEDULE

SYMBOL	RTU-1	RTU-2	RTU-3	RTU-4	RTU-5	RTU-6
SERVES	NORTH TAX OFFICE	SOUTH TAX OFFICE	1ST FLOOR WEST	1ST FLOOR EAST	2ND FLOOR EAST	2ND FLOOR WEST
AIRSIDE :						
SUPPLY DISCHARGE	SIDE	SIDE	DOWN	DOWN	DOWN	DOWN
RETURN DISCHARGE	SIDE	SIDE	DOWN	DOWN	DOWN	DOWN
TOTAL CFM (MAXIMUM/MINIMUM)	3000	3000	3900	3800	3850	4000
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)
EXTERNAL STATIC PRESSURE ("W.G.)	0.50	0.50	0.50	0.50	0.50	0.50
INITIAL FILTERS MERV 8 QTY(SIZE)	(4) 20X25X2	(4) 20X25X2	(3) 20X25X2 (2) 20X30X2	(3) 20X25X2 (2) 20X30X2	(3) 20X25X2 (2) 20X30X2	(3) 20X25X2 (2) 20X30X2
COOLING :						
NOMINAL TONS	7.5	7.5	10.0	10.0	10.0	10.0
MINIMUM TOTAL CAPACITY, MBH	80.5	69.8	96.6	97.4	90.4	103.3
MINIMUM SENSIBLE CAPACITY, MBH	79.6	68.7	94.5	96.7	89.2	102.4
TYPE OF REFRIGERANT	R-410A	R-410A	R-410A	R-410A	R-410A	R-410A
NUMBER OF REFRIGERANT CIRCUITS/STAGES	2.0	2.0	2.0	2.0	2.0	2.0
ENTERING RETURN AIR TEMPERATURE, oF DB/WB	80/64	80/64	80/64	80/64	80/64	80/64
OUTDOOR AMBIENT TEMPERATURE, oF	105	105	105	105	105	105
SPECIFIED UNIT'S (EER/SEER)	12.6 EER	12.6 EER	12.5 EER	12.5 EER	12.5 EER	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	20.0	20.0	20.0	20.0	20.0	20.0
TYPE OF FUEL	NATURAL GAS	NATURAL GAS	NATURAL GAS	NATURAL GAS	NATURAL GAS	NATURAL GAS
MINIMUM INPUT, MBH	150.0	150.0	200.0	200.0	200.0	200.0
MINIMUM OUTPUT, MBH	120.0	120.0	160.0	160.0	160.0	160.0
SPECIFIED UNIT'S (A.F.U.E.)	80.0%	80.0%	80.0%	80.0%	80.0%	80.0%
NUMBER OF STAGES	2	2	2	2	2	2
ELECTRICAL :						
VOLTAGE/PHASES	460V /3P	460V /3P	460V /3P	460V /3P	460V /3P	460V /3P
MINIMUM CIRCUIT AMPACITY	19.9 MCA	19.9 MCA	22.1 MCA	22.1 MCA	22.1 MCA	22.1 MCA
MAXIMUM OVERCURRENT PROTECTION	25A	25A	30A	30A	30A	30A
WEIGHT (LB):	930	930	1260	1260	1260	1260
TRANE MODEL NUMBER	YHC092F4RMA	YHC092F4RMA	YHC120E4RMA	YHC120E4RMA	YHC120E4RMA	YHC120E4RMA

NOTES :

1. TRANE UNITS HAVE BEEN PURCHASED BY, AND ARE TO BE INSTALLED BY CONTRACTOR.
2. PROVIDE EACH PACKAGED UNIT WITH AN INSULATED FACTORY ROOF CURB. COORDINATE CURB STYLE WITH ROOFING CONTRACTOR.
3. EXTERNAL STATIC PRESSURE INCLUDES PLENUMS, DUCTWORK, AND DAMPERS. WET COIL AND FILTERS ARE INCLUDED AS INTERNAL PRESSURE DROPS.
4. COOLING CAPACITIES ARE RATED AT ENTERING AIR CONDITIONS AND AMBIENT TEMPERATURES AS SHOWN. CAPACITIES ARE GROSS WITH FAN MOTOR HEAT NOT DEDUCTED. SEER'S (OR EER'S) ARE RATED AT ARI CONDITIONS. AIRFLOW CONDITIONS ARE RATED AT 4,000 FEET ALTITUDE.
5. PROVIDE UNIT WITH ECONOMIZER WITH ENTHALPY CONTROL WITH BAROMETRIC EXHAUST/RELIEF.
6. RUN CONDENSATE DRAIN LINE FULL SIZE TO IN CEILING SPACE PER DRAWINGS.
7. PROVIDE PROGRAMMABLE THERMOSTAT TO OPERATE AS FOLLOWS: THERMOSTAT SHALL HAVE FAN-ON/FAN-OFF/AUTO SWITCH AND COOL-OFF-AUTOMATIC-HEAT POSITIONS, WITH TWO SETPOINT THERMOSTAT (HEATING SETTING AND COOLING SETTING).
8. PROVIDE AND INSTALL SMOKE DETECTOR IN THE RETURN AIR STREAM AHEAD OF OUTSIDE AIR INTAKE AND SUPPLY AIR STREAM FOR AUTOMATIC SHUT-DOWN.

AIR DEVICE SCHEDULE

SYMBOL	TYPE	DESCRIPTION	INSTALLATION TYPE	MANUFACTURER MODEL NO.
A	CEILING SUPPLY	ALL STEEL, THREE STEP SQUARE DIFFUSER, NOMINAL FACE PER DRAWINGS, ADJUSTABLE AIRFLOW BALANCING DAMPER BLADES IN THE NECK WITH FRONT ACCESS, NECK SIZE AS SHOWN ON DRAWINGS, BORDER FOR CEILING SPECIFIED, 4-WAY THROW UNLESS SPECIFIED OTHERWISE.	LAY-IN	TITUS TMS
B	SIDEWALL SUPPLY	ALL STEEL, DOUBLE DEFLECTION BLADES AT 3/4" SPACING, FRONT BLADES PARALLEL TO LONG DIMENSION, OPPOSED BLADE DAMPER	WALL	TITUS 300RL
C	CONCENTRIC SUPPLY / RETURN	COMBINATION SUPPLY/RETURN, ALUMINUM DIFFUSER AND RETURN AIR EGGCRATE, NOMINAL 48"X36" FACE, 4-WAY HORIZONTAL AIRFLOW.	EXPOSED NO CEILING	TITUS CRS-P (WITH PLENUM)

NOTES :

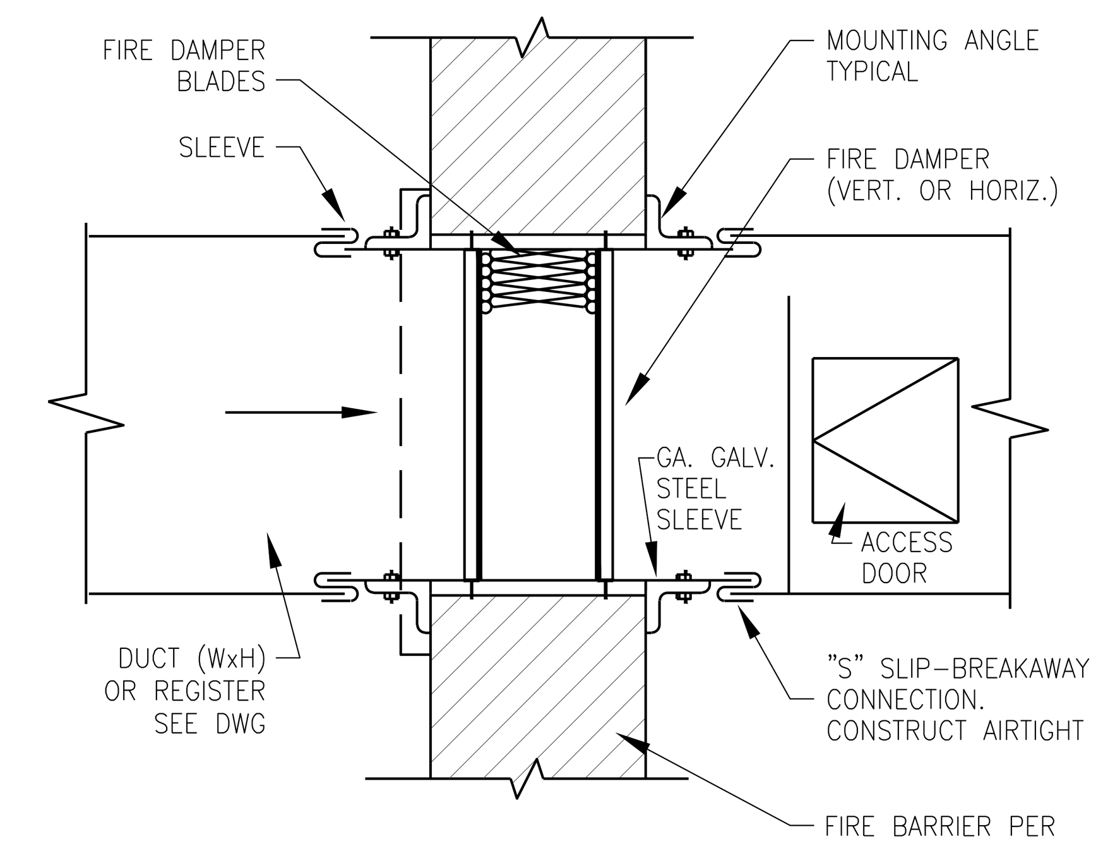
1. AIR DEVICES SCHEDULED TO BE MANUFACTURED BY TITUS. KRUEGER, METALAIRE, CARNES, J & J, NAILOR, PRICE, AND TUTTLE & BAILEY ARE CONSIDERED EQUIVALENT MANUFACTURERS.
2. UNLESS SCHEDULED OTHERWISE, AIR DEVICES SHALL BE WHITE OR OFF-WHITE IN COLOR.
3. ALL JOISTS, CONDUITS, PIPING AND EQUIPMENT ABOVE OPEN RETURN AIR DEVICES SHALL BE PAINTED BLACK FOR AN AREA OF 2 FEET ON ALL SIDES OF THE AIR DEVICE.

EXHAUST FAN SCHEDULE

SYMBOL	EF-1	EF-2	EF-3	EF-4	EF-5	EF-6	EF-7	EF-8	EF-9	EF-10	EF-11	EF-12
SERVES	ELECT ROOM 136	IT CLOSET 124	MEN 142	JANITOR 140	WOMEN 141	H/C RR 116	H/C RR 115	ELEV. MECH 147	IT ROOM 219	JANITOR 208	MEN 210	WOMEN 207
LOCATION	CEILING	CEILING	CEILING	CEILING	CEILING	CEILING	CEILING	CEILING	CEILING	CEILING	CEILING	CEILING
TYPE	CENT.	CENT.	CENT.	CENT.	CENT.	CENT.	CENT.	CENT.	CENT.	CENT.	CENT.	CENT.
CFM	120	85	190	120	180	160	160	75	120	75	335	230
DRIVE	DIRECT	DIRECT	DIRECT	DIRECT	DIRECT	DIRECT	DIRECT	DIRECT	DIRECT	DIRECT	DIRECT	DIRECT
EXTERNAL STATIC PRESSURE (IN. W.G.)	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
SOUND LEVEL IN SONES	3.0	3.6	6.5	3.0	6.5	4.0	4.0	3.1	3.0	3.1	4.0	7.0
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
NOMINAL FAN R.P.M.	1100	1100	1400	1100	1400	1300	1300	1000	1100	1000	1075	1500
VOLTAGE / PHASE	120V / 1P	120V / 1P	120V / 1P	120V / 1P	120V / 1P	120V / 1P	120V / 1P	120V / 1P	120V / 1P	120V / 1P	120V / 1P	120V / 1P
METHOD OF CONTROL	THERMOSTAT	THERMOSTAT	EMCS	EMCS	EMCS	EMCS	EMCS	THERMOSTAT	THERMOSTAT	EMCS	EMCS	EMCS
ROOF CURB OR WALL LOUVER	N/A	N/A	BV1	BV1	BV1	BV1	BV1	BV1	N/A	N/A	BV1	BV1
WEIGHT (LB)	15	15	16	15	16	15	15	15	15	15	35	16
LOREN COOK MODEL NO.	GC-144	GC-144	GC-182	GC-144	GC-182	GC-164	GC-164	GC-142	GC-144	GC-142	GC-640	GC-184

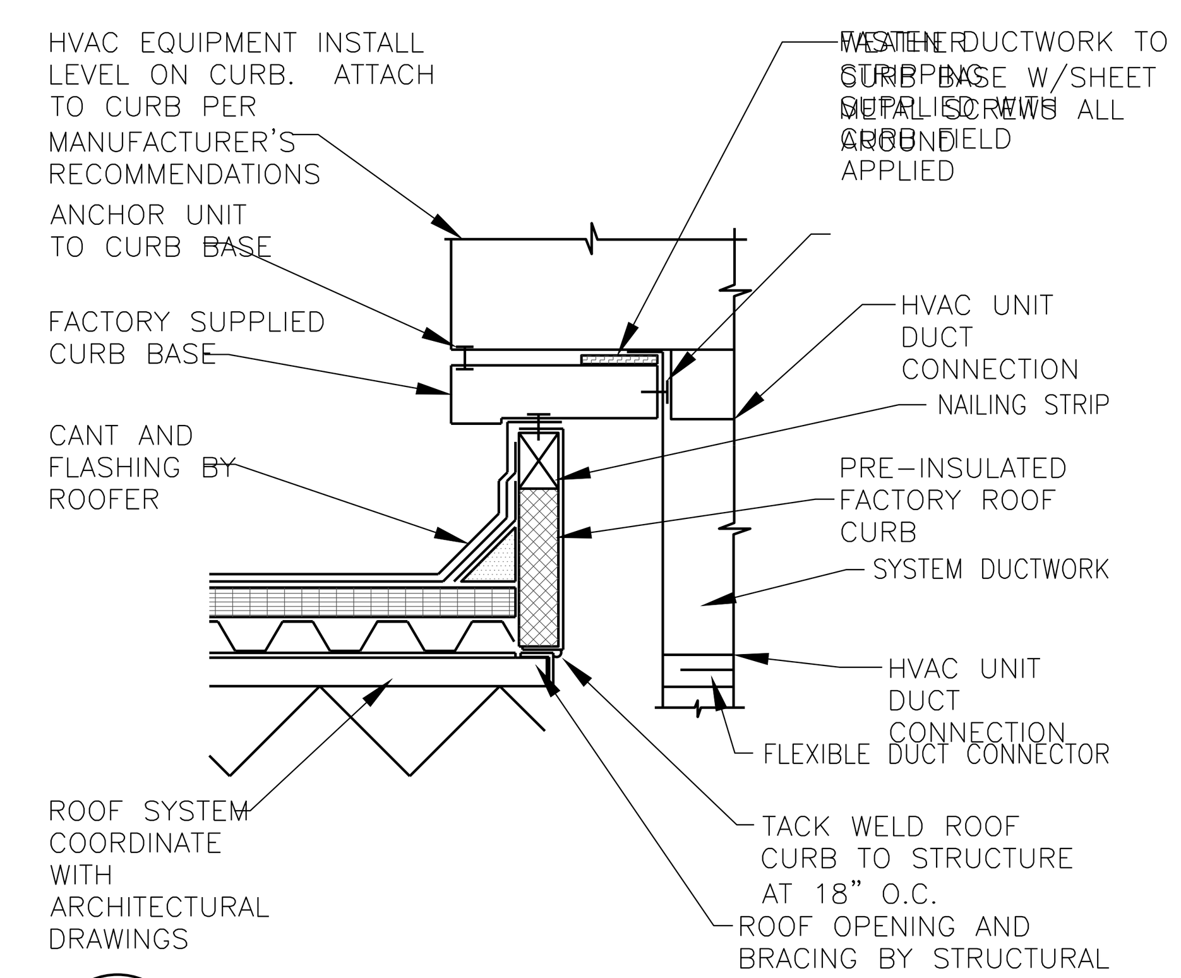
NOTES:

1. FANS ARE SCHEDULED TO BE MANUFACTURED BY LOREN COOK. ACME, TWIN CITY, AND CARNES ARE CONSIDERED EQUIVALENT MANUFACTURERS.
2. AIRFLOW CONDITIONS RATED AT 4,000 FEET ALTITUDE.
3. EACH DIRECT DRIVE FAN SHALL BE PROVIDED AND INSTALLED WITH A SOLID STATE SPEED CONTROLLER FOR BALANCING AND DISCONNECT MEANS. EACH V-BELT DRIVE SHALL BE PROVIDED AND INSTALLED WITH ADJUSTABLE SHEAVES ON BOTH PULLEYS.
4. PROVIDE AND INSTALL FLEXIBLE CONNECTIONS ON INLET AND OUTLET FAN DUCT CONNECTIONS AS NOTED ON DRAWINGS.
5. EXHAUST FANS – SEQUENCE OF OPERATIONS:
   - 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 SYSTEM.
   - EF-4 EACH SHALL BE CONTROLLED BY ENERGY MANAGEMENT SYSTEM.
   - EF-5 EACH SHALL BE CONTROLLED BY ENERGY MANAGEMENT SYSTEM.
   - EF-6 EACH SHALL BE CONTROLLED BY ENERGY MANAGEMENT SYSTEM.
   - EF-7 EACH SHALL BE CONTROLLED BY ENERGY MANAGEMENT SYSTEM.
   - 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 SYSTEM.
   - EF-11 EACH SHALL BE CONTROLLED BY ENERGY MANAGEMENT SYSTEM.
6. FANS SHALL HAVE FACTORY ROOF CURB, VIBRATION HANGERS, 277/120V TRANSFORMER (WHERE REQUIRED) AND GRAVITY BACK DRAFT DAMPER.



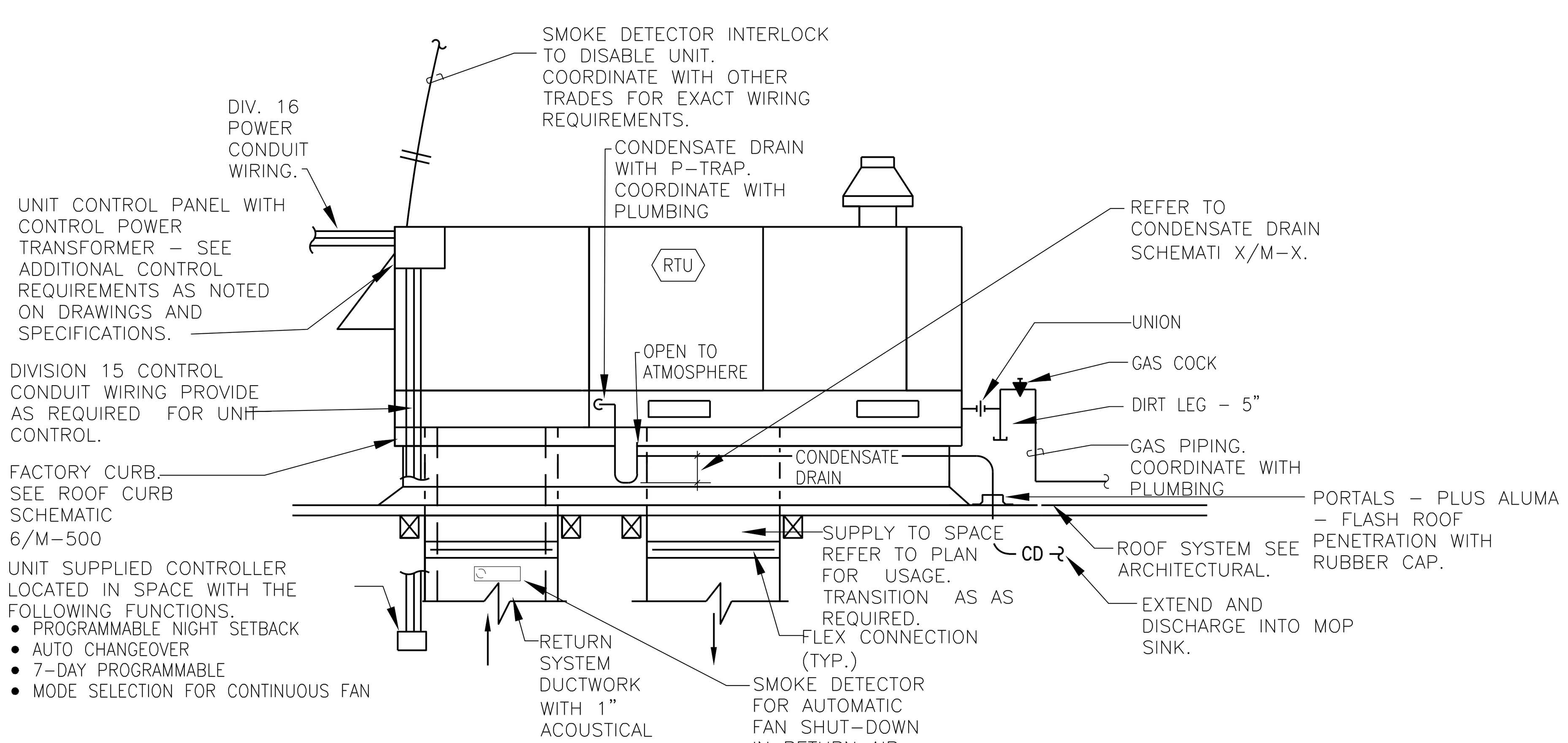
1/M7.0 **STATIC FIRE DAMPER SCHEMATIC**

SCALE: NONE



2/M7.0 **HVAC EQUIPMENT ROOF CURB SCHEMATIC**

SCALE: NONE

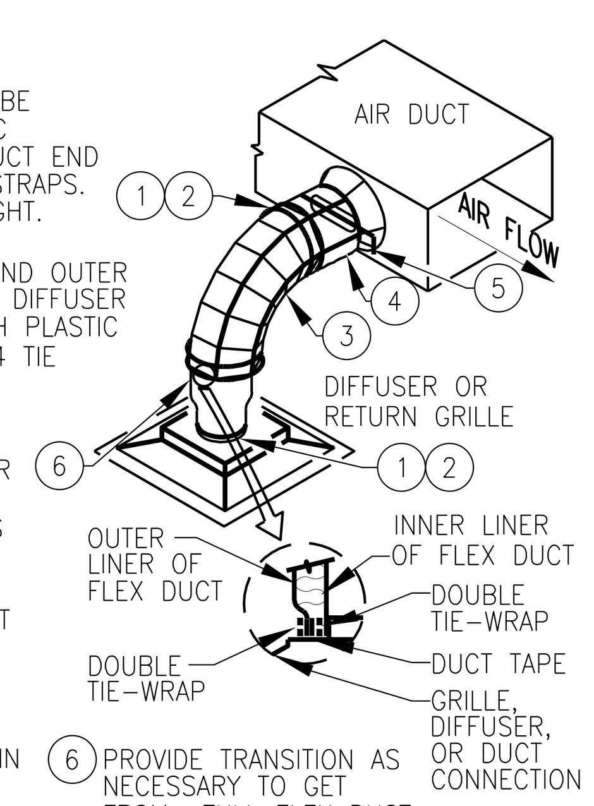


3/M7.0 **ROOFTOP A/C UNIT INSTALLATION AND CONTROL SCHEMATIC**

SCALE: NONE

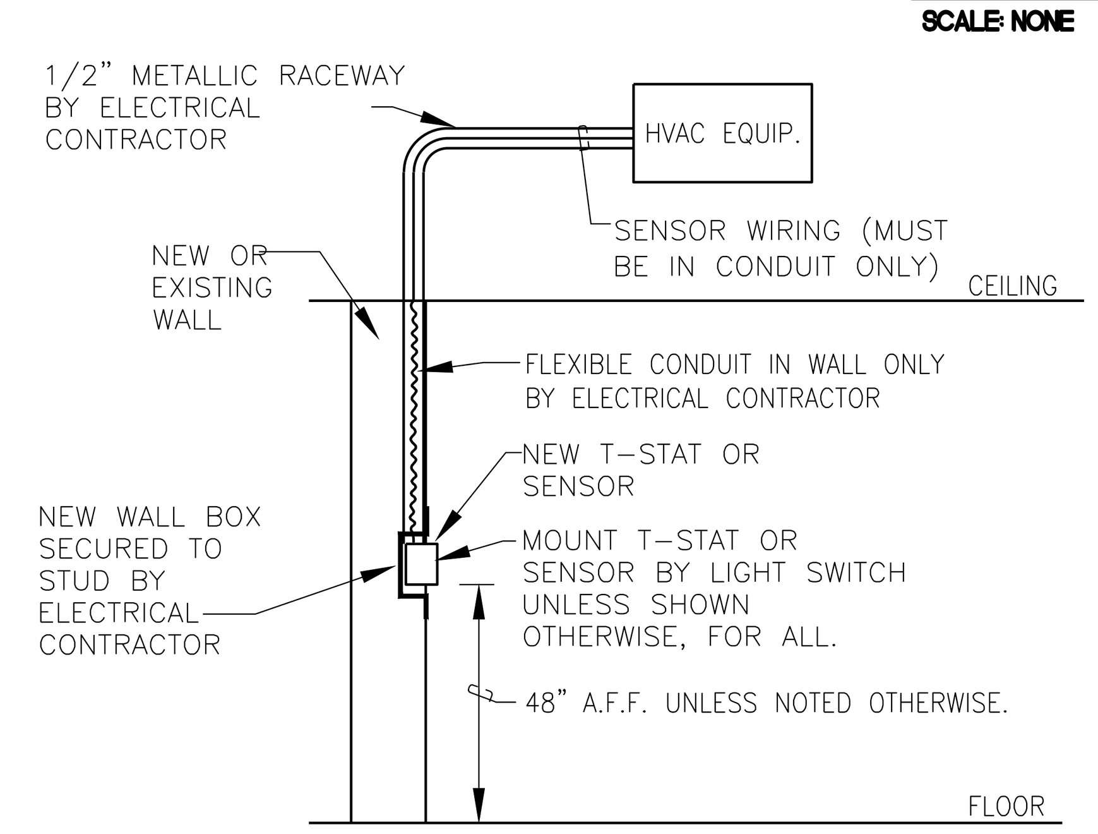
NOTES:

1. INNER LINER OF FLEX DUCT TO BE DOUBLE STRAPPED (WITH PLASTIC TIE-WRAPS) TO DIFFUSER OR DUCT END FIRST THEN DUCT TAPED OVER STRAPS. ALL CONNECTIONS TO BE AIR TIGHT.
2. PULL FLEX DUCT'S INSULATION AND OUTER LINER OVER INNER LINER UP TO DIFFUSER NECK THEN DOUBLE STRAP (WITH PLASTIC TIE WRAPS) TIGHTLY. TOTAL OF 4 TIE WRAPS PER CONNECTION.
3. RUN A MAXIMUM OF 5 LINEAR FEET OF FLEX DUCT FOR ALL AIR INLETS AND OUTLETS AS SHOWN. INSTALL WITHEVEN RADIUS BENDS TO ALLOW FULL FLOW WITH NO RESTRICTIONS. RADIUS OF ELBOW TO BE 2 TIMES THE DUCT DIAMETER. SUPPORT FROM STRUCTURE WITH NO RESTRICTIONS.
4. BELL-MOUTH OR CONICAL SPIN-IN FITTING W/SCOOP AND VOLUME DAMPER SHOWN IN THIS VIEW. EXTENDED BRANCHES AND OTHER DUCT ARRANGEMENTS ALSO APPLY. INSULATION NOT SHOWN.
5. VOLUME DAMPER WITH CONTROL HANDLE EXTENDED BEYOND INSULATION BLANKET.
6. PROVIDE TRANSITION AS NECESSARY TO GET FROM FULL FLEX DUCT SIZE TO AVAILABLE UNIT SUPPLIED NECK ADAPTER. INSULATION NOT SHOWN.



4/M7.0 **TYPICAL FLEXIBLE DUCT CONNECTION SCHEMATIC**

SCALE: NONE

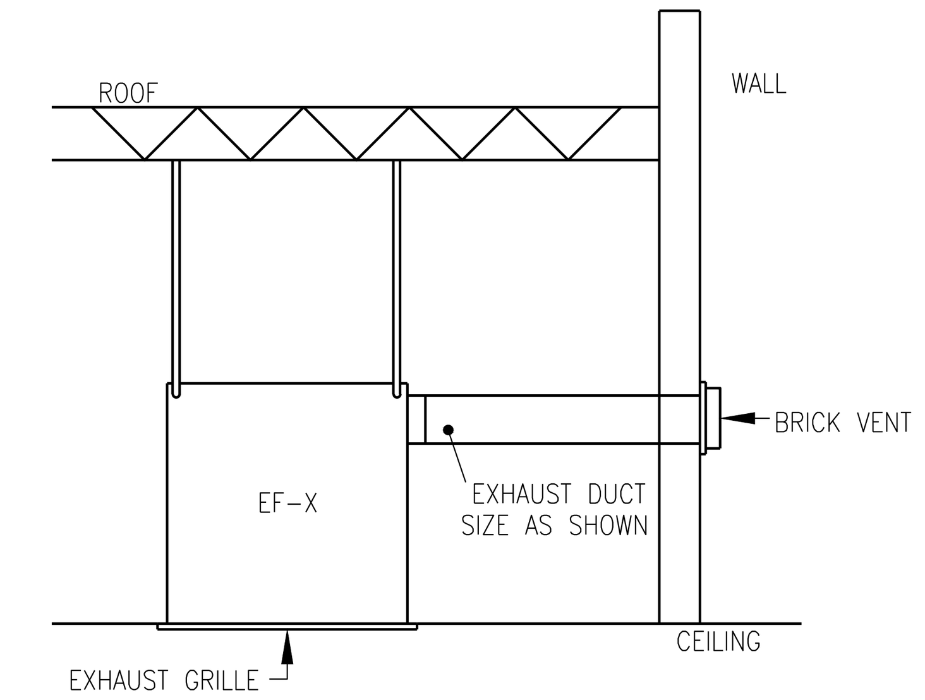


NOTE:

1. ELECTRICAL CONTRACTOR TO INSTALL CONDUIT AND PULL STRING FOR CONTROLS. CONTRACTOR TO INSTALL WIRE DEVICES.

5/M7.0 **THERMOSTAT/SENSOR MOUNTING SCHEMATIC**

SCALE: NONE



6/M7.0 **CEILING MOUNTED EXAUST FAN**

SCALE: NONE

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

REMODELING OF THE ASCARATE ANNEX FOR THE EL PASO COUNTY
301 MANNY MARTINEZ DR., EL PASO, TEXAS 79905
100% CONSTRUCTION DOCUMENTS FEBRUARY 17, 2014

ISSUED FOR CONSTRUCTION

NO.	DATE:	REVISION:

DATE: FEBRUARY 17, 2014

SHEET:
M7.0
MECHANICAL SCHEMATICS

2013-32-REMODELING OF THE ASCARATE ANNEX FOR THE EL PASO COUNTY- 100% CONSTRUCTION DOCUMENTS FEBRUARY 17, 2014

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.

3. 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.

5. 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.

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.

7. 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.

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 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:
    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.
    1 DATE OF SITE VISIT BY THE ENGINEER,
    2 DATE OF RECEIPT OF THE SITE VISIT REPORT,
    3 NAME AND TITLE OF THE PREPARER OF THE RESPONSE,
    4 AN ITEM NUMBER REFERENCED TO THE SITE REPORT,
    5 A BRIEF THREE OR FOUR WORD DESCRIPTION OF THE ITEM,
    6 THE CONTRACTOR OR SUBCONTRACTOR AFFECTED,
    7 THE PROPOSED COURSE OF ACTION, AND
    8 AN EXPECTED TIME OF COMPLETION OF THE ACTION.

24. 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 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 THE REQUEST OF THE ENGINEER.

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

26. SUBMITTAL REQUIREMENTS:
    A. THE INTENT OF THIS SECTION IS TO GIVE GENERAL SUBMITTAL INFORMATION, REFER TO SPECIFIC SUBMITTAL INFORMATION IN THE SUBSEQUENT ELECTRICAL 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. 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.
    C. REQUIREMENTS FOR EACH SUBMITTAL:
       1. 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 SPECIFICALLY NOTED BY ENGINEER),
       3. **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 THE SAME PAGE.
       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 EQUIPMENT.
       5. OMISSION BY CONTRACTOR OF ANY OF THE ABOVE REQUIREMENTS OR SUBMITTALS WILL SUBJECT SUBMITTAL TO AUTOMATIC REJECTION WITHOUT REVIEW.
       6. 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.

27. REQUIRED SHOP DRAWING SUBMITTALS:
    A. DISCONNECTS INCLUDING FUSES OR MAGNETIC STARTERS
    B. GROUNDING
    C. WIRING
    D. CONDUIT
    E. FIRE ALARM DEVICES
    F. INTERIOR LIGHTING FIXTURES
    G. DATA CABLING, TELEPHONE WIRING, AUDIO-VISUAL CABLING
    H. JUNCTION BOXES AND ENCLOSURES

ELECTRICAL:

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

29. PROVIDE BLANK METAL COVERPLATE OVER ALL UNUSED OUTLET BOXES. PAINT COVERPLATE TO MATCH ADJACENT SURFACES.

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 WEATHERPROOF COVERS.

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 DOOR SWINGS.

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

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

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 CONTRACTOR BEFORE SUCH PENETRATIONS ARE MADE.

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 BACK-SPLASH, REGARDLESS OF DIMENSION SHOWN ON DRAWINGS.

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:
       1. BLACK, RED, AND BLUE FOR CIRCUITS AT 120/208 VOLTS SINGLE OR THREE PHASE.
       2. 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:
       1. BLACK, RED, AND BLUE FOR CIRCUITS AT 120/208 VOLTS SINGLE OR THREE PHASE.
       2. BROWN, ORANGE, AND YELLOW FOR CIRCUITS AT 277/480 VOLTS SINGLE OR THREE PHASE.
    C. NEUTRAL CONDUCTORS: WHITE FOR 208/120V CIRCUITS. GREY FOR 480/277V CIRCUITS.
    D. BRANCH CIRCUIT CONDUCTORS: INSTALL THREE OR FOUR WIRE HOMERUNS WITH EACH PHASE UNIQUELY COLOR CODED.
    E. FEEDER CIRCUIT CONDUCTORS: UNIQUELY COLOR CODE EACH PHASE.
    F. GROUND CONDUCTORS:
       1. 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.

2 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.

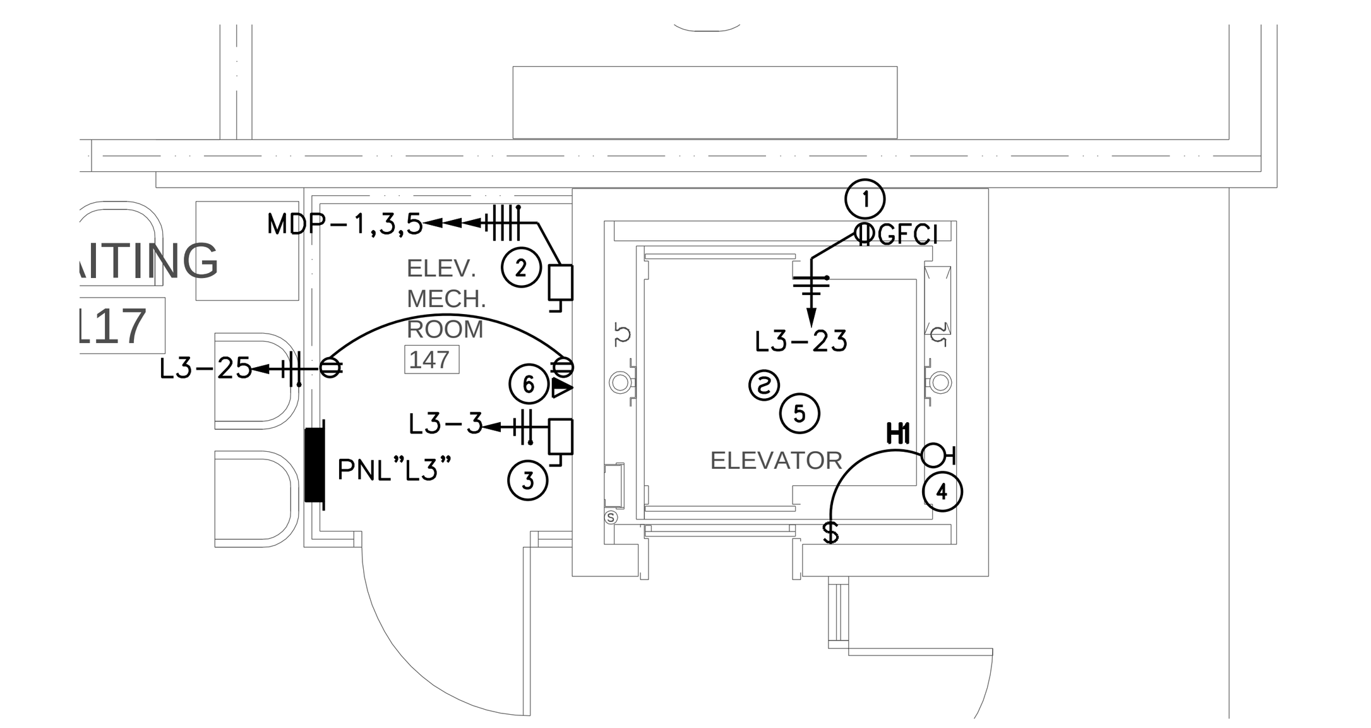
(5) PROVIDE AND INSTALL SMOKE DETECTOR AT TOP OF ELEVATOR HOISTWAY PER FIRE CODE REQUIREMENTS. ENSURE COMPATIBILITY WITH NEW BUILDING FIRE ALARM CONTROL PANEL LOCATED AS SHOWN ON KEY PLAN.

(6) COORDINATE TO PROVIDE AND INSTALL ALL REQUIRED TELEPHONE AND DATA REQUIREMENTS FOR ELEVATOR CAB AND CONTROLLER.

SYMBOL LEGEND

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
	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.
	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	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
(S)	FIRE ALARM SMOKE DETECTOR

NOTE: SOME SYMBOLS SHOWN MAY NOT BE USED ON THIS PROJECT.

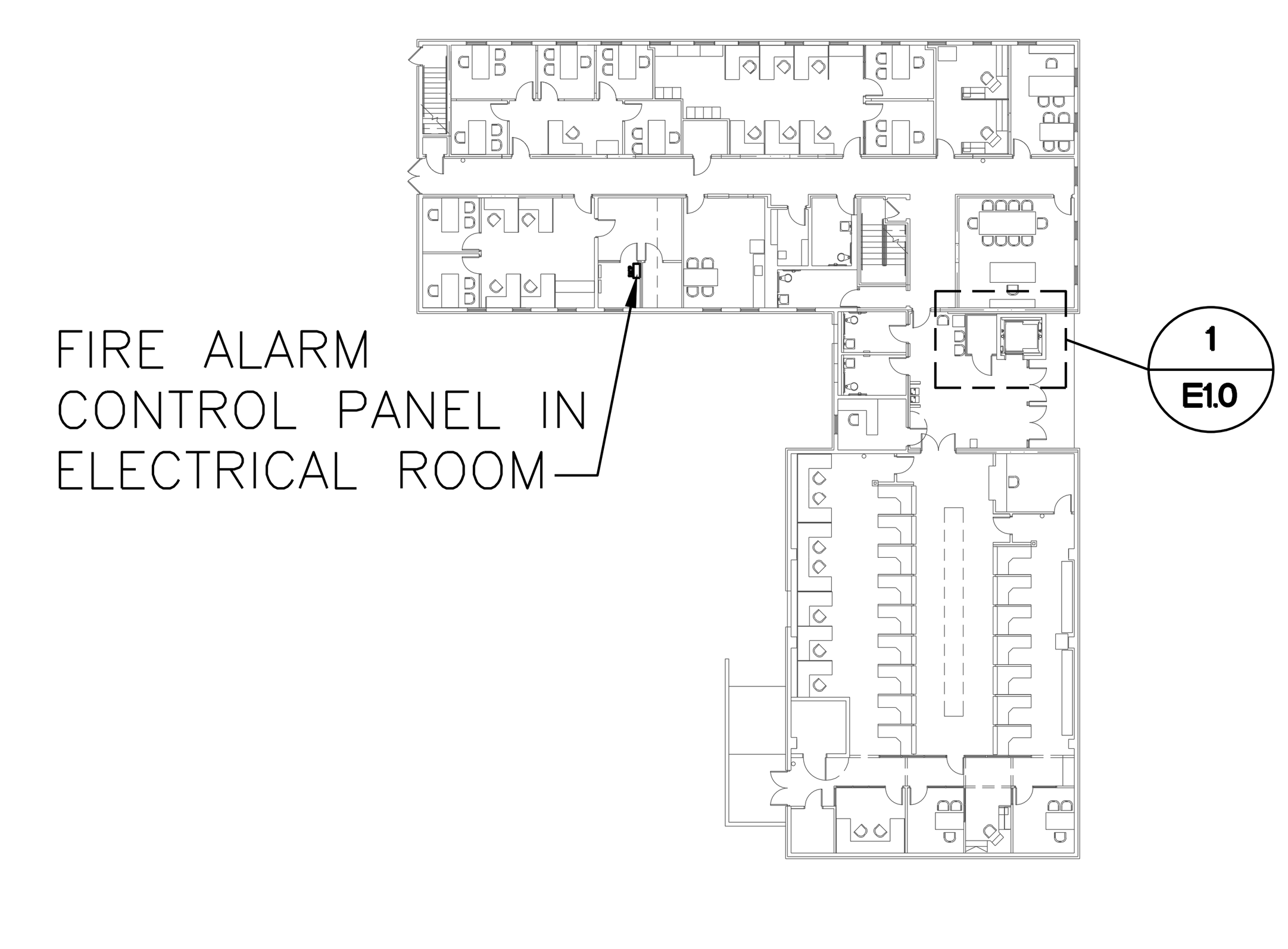


PARTIAL REMODEL ELECTRICAL PLAN FIRST FLOOR ELEVATOR

1 / E1.0

SCALE: 1/4" = 1'-0"

4 2 0 4 8



KEY PLAN

NOT TO SCALE

LIGHTING FIXTURE SCHEDULE						
GENERAL LIGHTING						
SYMBOL	MANUFACTURER NAME AND NUMBER	LAMPS	VOLTAGE	BALLAST	MOUNTING	DESCRIPTION
H1	LITHONIA OVT 150	(1) 150W INCANDESCENT	120V	N/A	ELEVATOR PIT	HEAVY DUTY LOCATION LIGHT WITH GUARD, COORDINATE WITH ELEVATOR REQUIREMENTS

NOTES
1. LIGHT FIXTURES SHALL BE AS SPECIFIED AND NO SUBSTITUTIONS WILL BE ALLOWED UNLESS PRIOR APPROVED PER SPECIFICATIONS.

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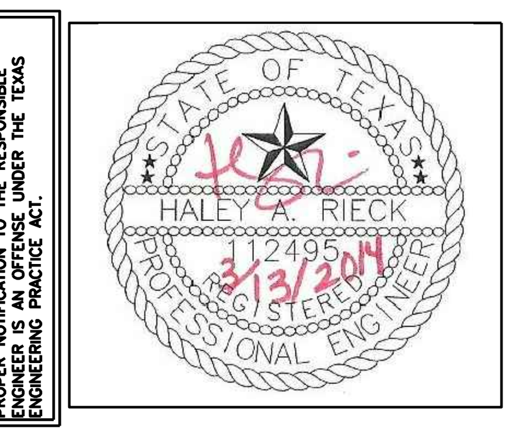

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EMC PROJECT #1308056-A

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

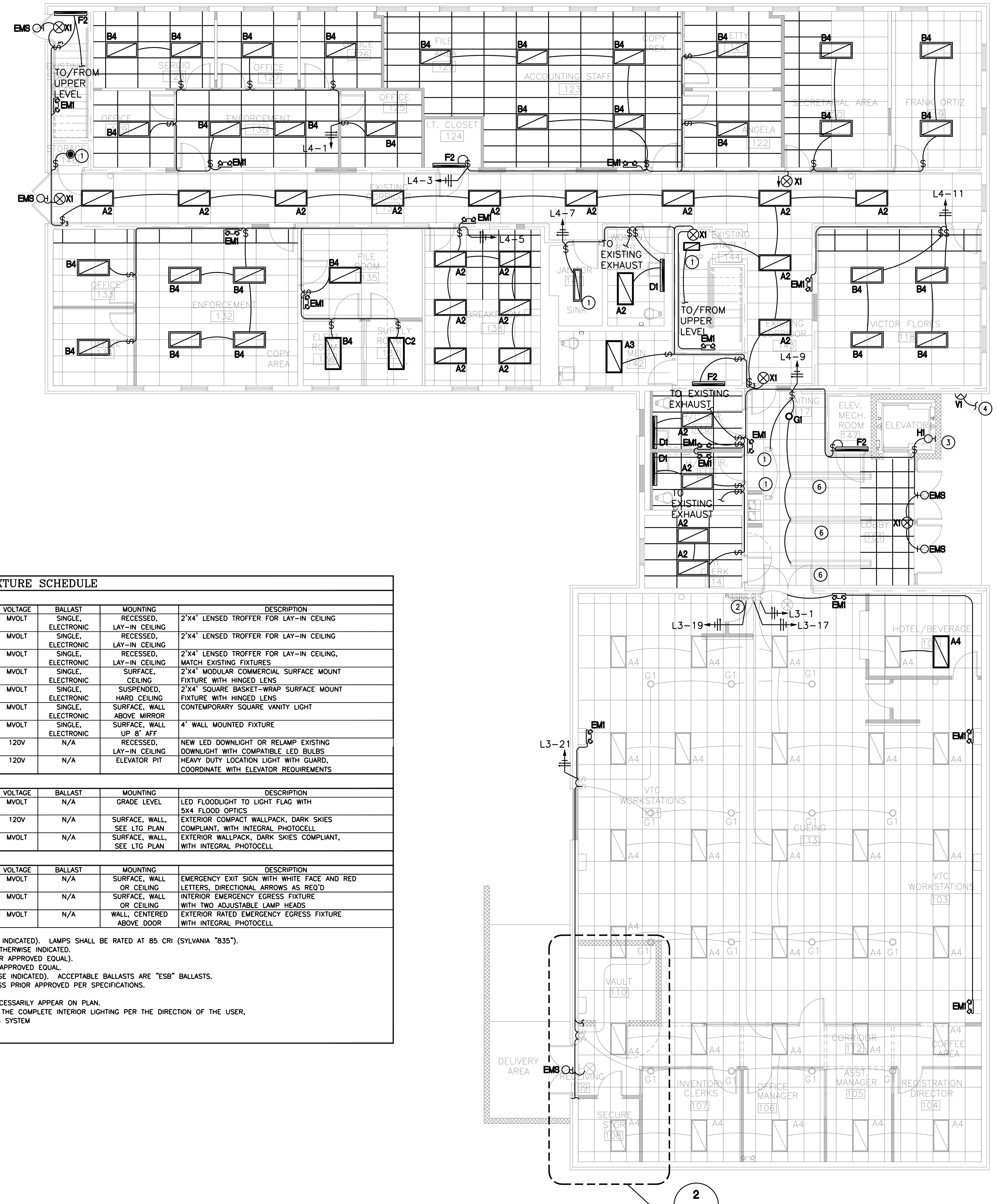
ISSUED FOR CONSTRUCTION

NO.	DATE:	REVISION:
1	3/12/2014	CITY COMMENTS

DATE: FEBRUARY 17, 2014

SHEET:
E1.0
ELEVATOR REMODEL ELECTRICAL PLAN GENERAL NOTES AND LEGEND, SCHEDULE

2013-32-REMODELING OF THE ASCARATE ANNEX FOR THE EL PASO COUNTY- 100% CONSTRUCTION DOCUMENTS FEBRUARY 17, 2014



1 E5.0

NEW LIGHTING PLAN - FIRST FLOOR

SCALE: 1/8" = 1'-0"

8 6 4 2 0 4 8 12 16

LIGHTING FIXTURE SCHEDULE						
GENERAL 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
A4	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 MOUNT 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 MOUNT 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
H1	LITHONIA OVT 150	(1) 150W INCANDESCENT	120V	N/A	ELEVATOR PIT	HEAVY DUTY LOCATION LIGHT WITH GUARD, COORDINATE WITH ELEVATOR REQUIREMENTS
EXTERIOR 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
EMERGENCY 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 RED 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 WITH INTEGRAL PHOTOCELL

NOTES
1. PROVIDE SYLVANIA OCTRON LAMPS WITH ALL FLUORESCENT FIXTURES (UNLESS OTHERWISE INDICATED). LAMPS SHALL BE RATED AT 85 CRI (SYLVANIA "835").
2. PROVIDE ELECTRONIC BALLASTS WITH T8 FLUORESCENT FIXTURES (THD < 15%) UNLESS OTHERWISE INDICATED.
3. EMERGENCY BATTERY PACKS FOR T8 FIXTURES SHALL BE BODINE #B50 (1350 LUMENS OR APPROVED EQUAL).
4. EMERGENCY BATTERY PACKS FOR COMPACT FLUORESCENTS SHALL BE BODINE #B94C OR APPROVED EQUAL.
5. PROVIDE ELECTRONIC BALLASTS WITH COMPACT FLUORESCENT FIXTURES (UNLESS OTHERWISE INDICATED). ACCEPTABLE BALLASTS ARE "ESB" BALLASTS.
6. LIGHT FIXTURES SHALL BE AS SPECIFIED AND NO SUBSTITUTIONS WILL BE ALLOWED UNLESS PRIOR APPROVED PER SPECIFICATIONS.
7. ALL FLUORESCENT BALLASTS SHALL BE ENERGY SAVINGS AND CEC LISTED.
8. REFER TO PLAN FOR TYPES AND QUANTITIES USED. ALL TYPES LISTED ABOVE DO NOT NECESSARILY APPEAR ON PLAN.
9. UPON COMPLETION OF THE PROJECT THE CONTRACTOR IS TO PROVIDE LABOR TO ADJUST THE COMPLETE INTERIOR LIGHTING PER THE DIRECTION OF THE USER, ARCHITECT AND THIS OFFICE. THIS ADJUSTMENT IS NECESSARY TO FINALIZE THE LIGHTING SYSTEM
10. "MVOLT" DENOTES BALLAST AS MULTI-TAP FOR 120V, 208V, 240V AND 277V.
11. "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.

ELECTRICAL REMODEL KEYED NOTES: (#)

(1) EXISTING LIGHT FIXTURE TO REMAIN.

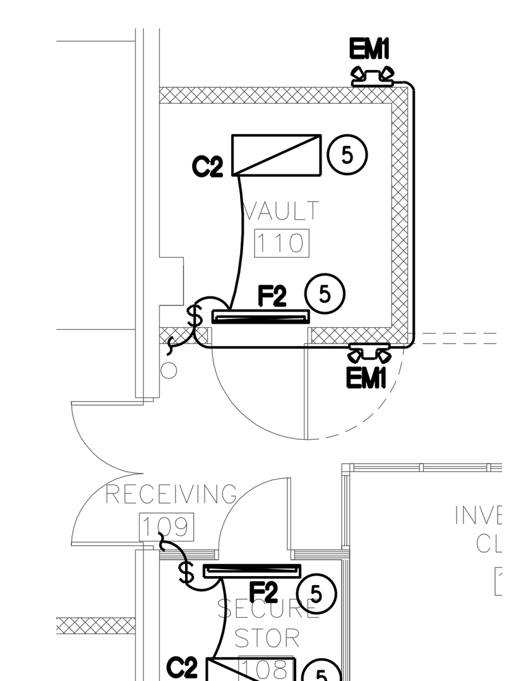
(2) EXISTING EXTERIOR BUILDING LIGHTING CIRCUITS TO REMAIN AND BE CONTROLLED BY EXISTING SWITCHES IN THIS LOCATION. PHOTOCELLS ON EXISTING FIXTURES ARE OPERATIONAL.

(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.



2 E5.0

NEW LIGHTING PLAN- VAULT AND SECURE ROOMS

SCALE: 1/8" = 1'-0"

8 6 4 2 0 4 8 12 16

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EMC PROJECT #1308056-A

REMODELING OF THE ASCARATE ANNEX FOR THE EL PASO COUNTY

301 MANNY MARTINEZ DR. , EL PASO, TEXAS 79905

THE COUNTY OF EL PASO TEXAS

ISSUED FOR CONSTRUCTION

NO.	DATE:	REVISION:

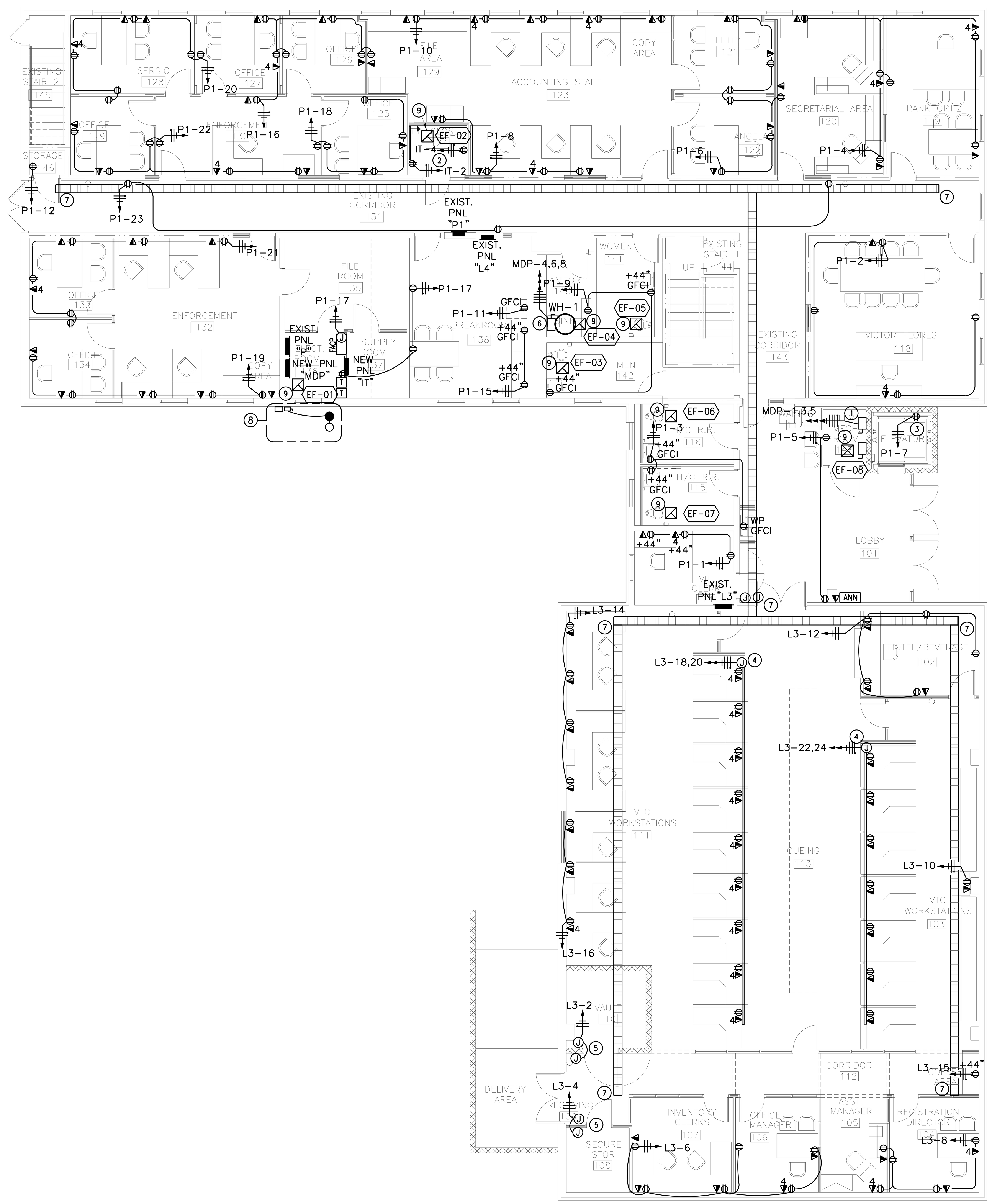
DATE: FEBRUARY 17, 2014

SHEET:

E5.0

NEW LIGHTING PLAN FIRST FLOOR

2013-32-REMODELING OF THE ASCARATE ANNEX FOR THE EL PASO COUNTY- 100% CONSTRUCTION DOCUMENTS FEBRUARY 17, 2014



1 E9.0

NEW POWER DATA AND SPECIAL SYSTEMS PLAN - FIRST FLOOR

SCALE: 1/8" = 1'-0"

8 6 4 2 0 4 8 12 16

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) 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.

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EMC PROJECT #1308056-A

REMODELING OF THE ASCARATE ANNEX FOR THE EL PASO COUNTY

301 MANNY MARTINEZ DR. , EL PASO, TEXAS 79905

ISSUED FOR CONSTRUCTION

NO.	DATE:	REVISION:

DATE: FEBRUARY 17, 2014

SHEET:

E9.0

NEW POWER DATA AND SPECIAL SYSTEMS PLAN FIRST FLOOR

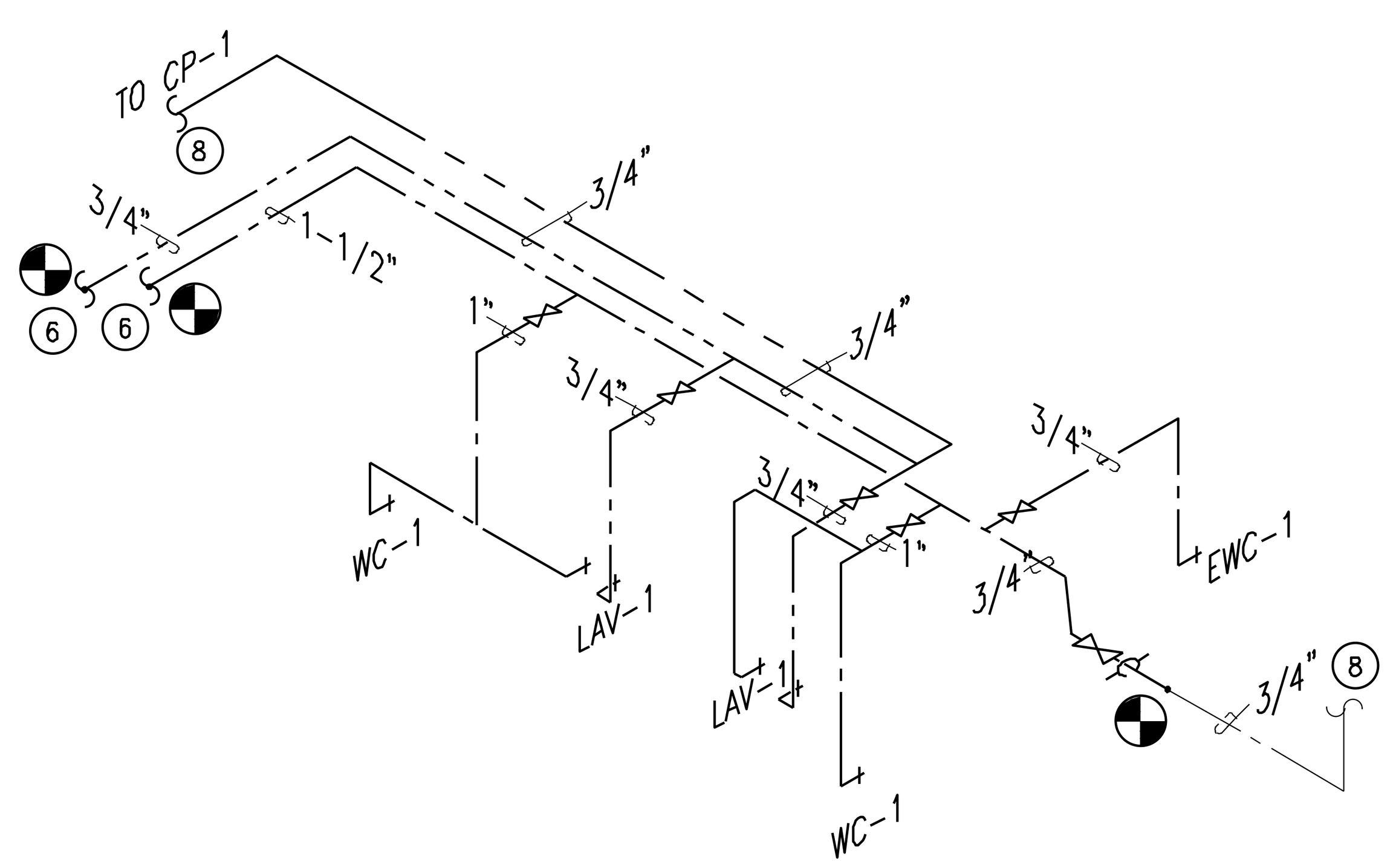
2013-32-REMODELING OF THE ASCARATE ANNEX FOR THE EL PASO COUNTY- 100% CONSTRUCTION DOCUMENTS FEBRUARY 17, 2014

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.

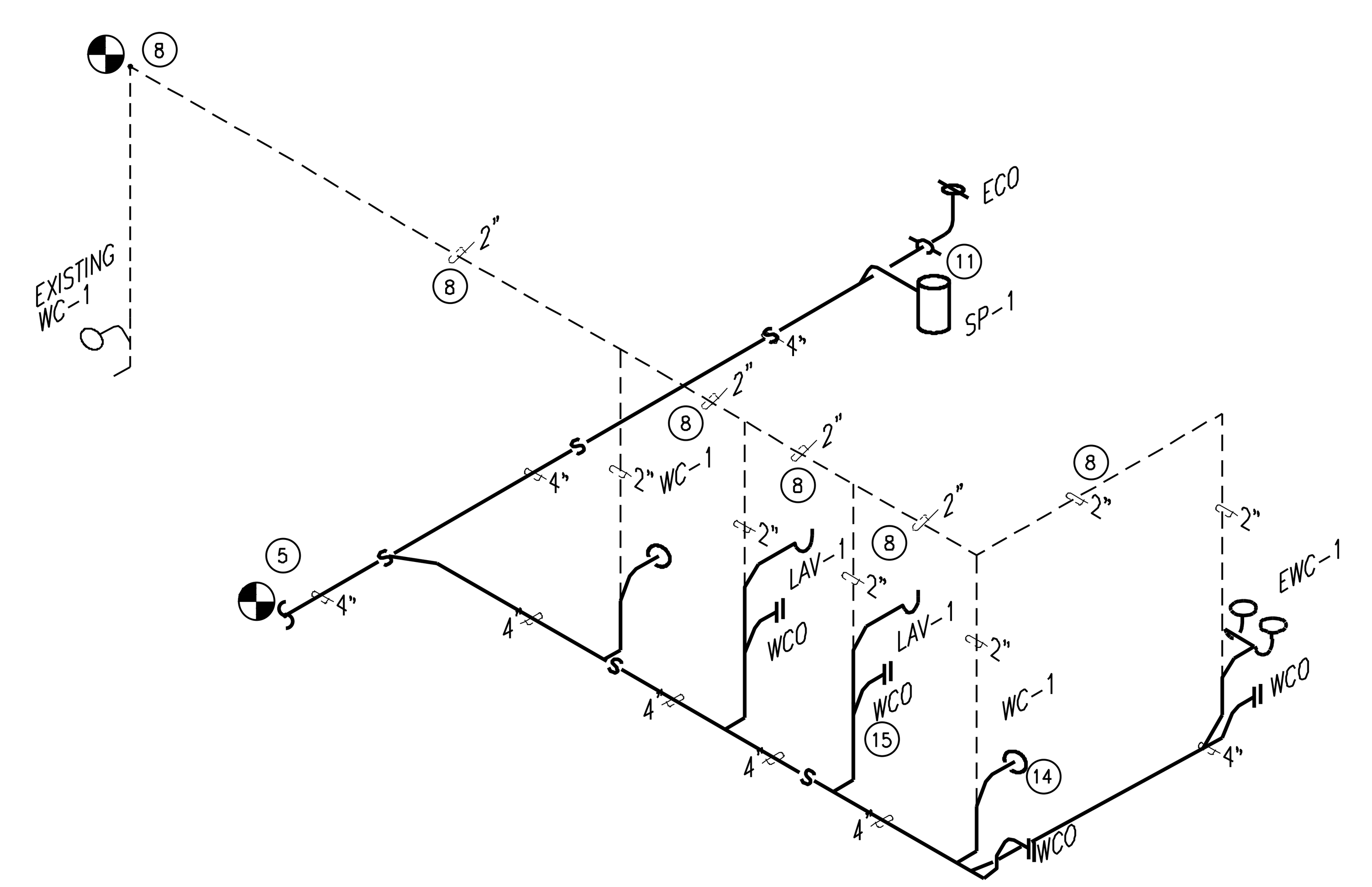
PLUMBING GENERAL NOTES:

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



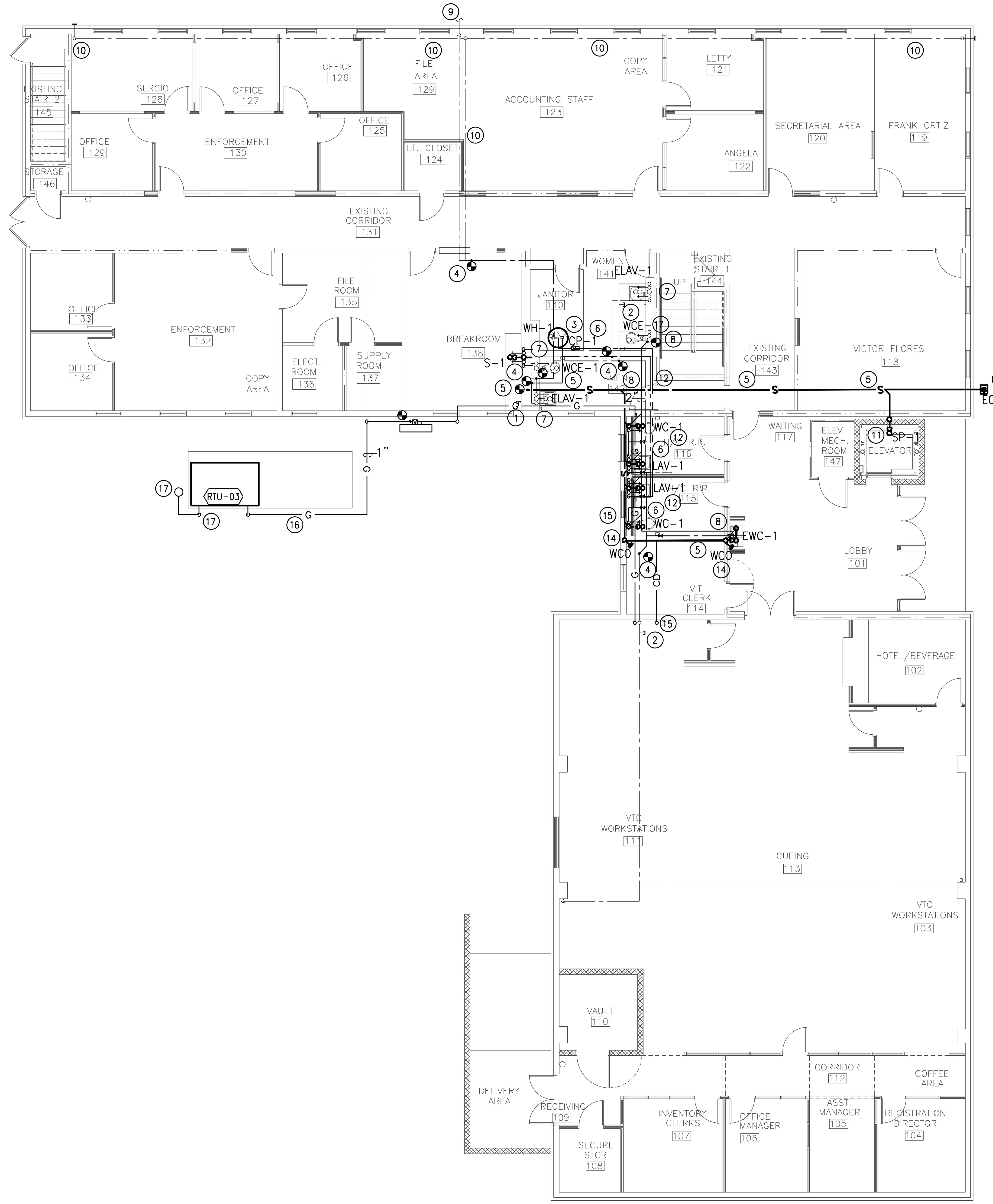
2 P4.0 FIRST FLOOR WATER ISOMETRIC

SCALE: 1/8" = 1'-0"



3 P4.0 FIRST FLOOR SEWER AND VENT ISOMETRIC

SCALE: 1/8" = 1'-0"



1 P4.0 REMODEL PLUMBING PLAN - FIRST FLOOR

SCALE: 1/8" = 1'-0"

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REMODEL PLUBING FIRST FLOOR PLAN

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