

BSA HOSPITAL PET/CT INFILL 1600 WALLACE BLVD AMARILLO, TEXAS 79106



ARCHITECTURAL

- A1DEMOLITION PLANA2DIMENSION PLAN AND ENLARGED PLANS
- A2 DIVIDINGION I DAN AND DIVIDINGED I D A3 ANNOTATED PLAN
- A4 REFLECTED CEILING PLAN
- A5 INTERIOR ELEVATIONS
- A6 MILLWORK ELEVATIONS
- A7 MILLWORK SECTIONS
- A8 DOOR SCHEDULE AND DETAILS

INTERIOR DESIGN

- ID1 FLOOR FINISH PLAN
- ID2 WALL FINISH PLAN

MECHANICAL

MO	MECHANICAL GENERAL NOTES
M1	MECHANICAL DEMOLITION PLAN
M2	MECHANICAL DUCTWORK
M3	MECHANICAL PIPING PLAN
M4	MECHANICAL ROOF PLAN
M5	MECHANICAL SECTIONS
M6	MECHANICAL SCHEDULES
М7	MECHANICAL DETAILS
M8	MECHANICAL DETAILS





ARCHITECTURE & INTERIOR DESIGN

3708 UPLAND AVE. LUBBOCK, TX 79407 806.748.6190 condray.com



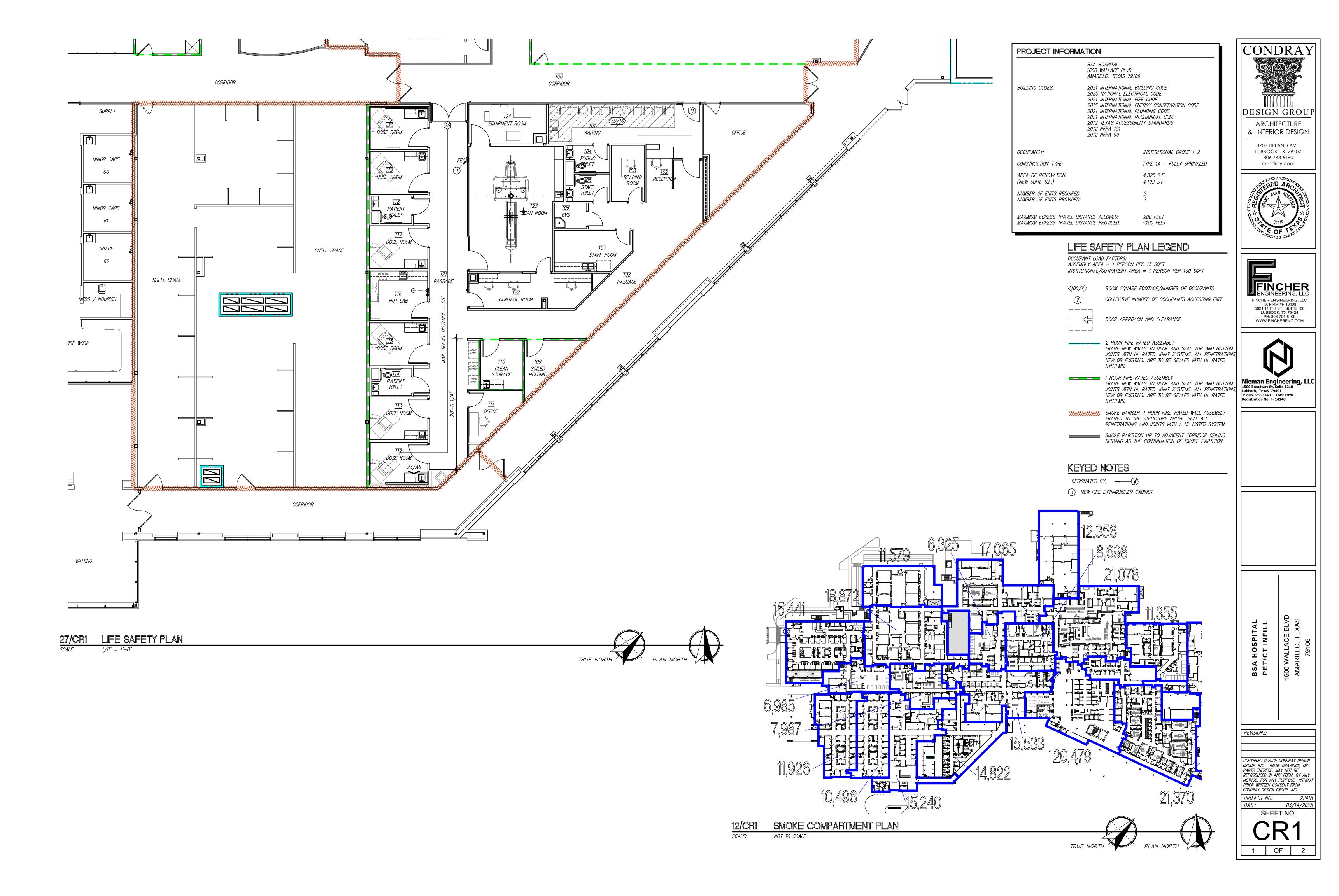
PI I	JMBING
PO	PLUMBING GENERAL NOTES
P1	PLUMBING SEWER, WASTE, & VENT PLAN
P2	PLUMBING WATER & GAS PLAN
 P3	PLUMBING MEDICAL GAS PLAN
P4	PLUMBING DETAILS
P5	PLUMBING DETAILS AND RISER DIAGRAM
P6	PLUMBING SCHEDULES
FP1	FIRE PROTECTION PLAN
EL	ECTRICAL
EO	ELECTRICAL GENERAL NOTES
E1	ELECTRICAL DEMOLITION
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LV	lllvinigal glinlar invilg
E1	ELECTRICAL DEMOLITION
E2	ELECTRICAL LIGHTING PLAN
E3	ELECTRICAL POWER & COMMUNICATIONS PLAN
E4	ELECTRICAL MECHANICAL POWER PLAN
E5	ELECTRICAL SCHEDULES AND DETAILS

BSA HO	SPITAL
PET/CT	INFILL

CDG PROJ NO. DATE:

22418 03/14/2025





SCALE:

1/8" = 1'-0"

TRUE NORTH

HOSPITAL LICENSING RULES

CONDRAY

OF

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NUCLEAR MEDICINE SUITE (s)(1)(B) Radioisotope room (Hot Lab). When radiopharmaceutical preparation is performed on site, the room shall include MS CESTO sufficient space for equipment, storage of radionuclides, chemicals for preparation, dose calibrators, and record keeping. When prepared materials are used, storage and calculation area may be smaller than for on-site preparation. DESIGN GROU (s)(1)(B)(i) The room and isotope handling areas within the room ARCHITECTURE shall have appropriate radiation shielding. & INTERIOR DESIGN (s)(1)(B)(ii) There shall be a shielded area or enclosed shielded cabinet for long-term storage of decaying radioisotopes. 3708 UPLAND AVE. LUBBOCK, TX 79407 (s)(1)(C) Positron emission tomography (PET). When Pet Services 806.748.6190 are provided, scanner and cyclotron rooms shall be in condray.com compliance with the manufacturer's recommendations and provide a minimum of three feet of clear and $-\infty$ unobstructed working space on all sides of equipment RED AD accessible to staff and patient. (s)(1)(C)(i) A control alcove shall be provided with a view window permitting view of the patient. (s)(1)(C)(ii) An equipment area large enough to contain necessary electronic and electrical gear shall be provided. (s)(1)(C)(iii) A dose administration room(s) with radiation shielding shall be located near treatment room. Patients in route to procedure rooms shall not pass through public corridors and waiting rooms after injection with radioisotope. (s)(1)(C)(iv) A patient toilet with radiation shielding shall be provided with or adjacent to dose administration room(s). The patient toilet rooms shall contain a hand washing fixture FINCHER with hands-free operable controls. ENGINEERING, LLC FINCHER ENGINEERING, LLC TX FIRM #F-16408 5621 114TH ST., SUITE 100 LUBBOCK, TX 79424 PH: 806-701-5109 (s)(1)(D)(i) Patient waiting area. The area shall be out of traffic and under direct staff visual control. When the waiting area serves both outpatients and inpatients, separate areas shall be provided and include visual privacy WWW.FINCHERENG.COM between the waiting areas. (s)(1)(D)(ii) Control desk and reception area. A control desk and reception area shall be provided. (s)(1)(D)(v) Patient toilet facilities. A toilet room with a hand washing fixture with hands—free operable controls shall be provided convenient to the waiting room and procedure room. (s)(1)(D)(vi) Staff toilet facilities. Toilets and hand washing fixtures Nieman Engineering, LL 1500 Broadway St, Suite 1210 with hands—free operable controls may be outside the Lubbock, Texas 79401 T: 806-589-3340 TBPE Firm Registration No: F- 14148 suite but shall be convenient for staff office. (s)(1)(D)(xviii) Clerical office(s) spaces. Clerical office(s) spaces shall be provided. (s)(1)(D)(xx) Clean storage room. A clean storage room shall be provided for clean supplies and linens. A hand washing fixture shall be provided with hands-free operable controls. When conveniently located, the clean storage room may be shared with another. (s)(1)(D)(xxi) Soiled workroom. The soiled workroom shall not have direct connection to the nuclear medicine procedure or diagnostic rooms and sterile activity rooms. The room shall contain a clinical sink or equivalent flushing type fixture, work counter, hand washing fixture with hands—free operable controls, waste receptacle, and soiled linen receptacle. When contaminated soiled material or fluid waste is not handled, only a soiled holding room is required. (s)(1)(D)(xxii) Housekeeping room. The housekeeping room shall be located within the suite. (s)(2)(A)(i) Radiation protection shall be designed, tested and approved by a medical physicist licensed under the Texas Medical Physics Practice Act, Occupations Code Chapter 602. Flooring used in the nuclear medicine procedure room, (s)(2)(B)(i) any work or treatment areas where radioactive material is handled, and soiled workroom shall be of the seamless monolithic type as required by *§133.162(d)(2)(B)(iii)(III) of this title.* Ceilings in radiopharmacy, hot laboratory, and soiled workrooms shall be monolithic as required by (s)(2)(B)(ii) \$133.162(d)(2)(B)(vi)(III) of this title. 1600 WALLACE BLVD AMARILLO, TEXAS 79106 BSA HOSPITAL PET/CT INFILL REVISIONS: COPYRIGHT © 2025 CONDRAY DESIGN GROUP, INC. THESE DRAWINGS, OR PARTS THEREOF, MAY NOT BE REPRODUCED IN ANY FORM, BY ANY METHOD, FOR ANY PURPOSE, WITHOUT PRIOR WRITTEN CONSENT FROM CONDRAY DESIGN GROUP, INC. PROJECT NO. 22418 DATE: 03/14/2025 SHEET NO.

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	CODE, INCLUDING AMENDMENTS, EXCEPT WHERE APPLI CONTRACT DOCUMENTS ARE MORE RESTRICTIVE. THE SPECIFICATIONS AND REQUIREMENTS INDICATED O AS A BASIC SUMMARY OF THE MATERIAL, CONSTRUCTIO REQUIREMENTS FOR THE PROJECT. ADDITIONAL, ARE G SPECIFICATIONS. IN THE EVENT OF CONFLICT BETWEEN INDICATED ON THIS SHEET AND THOSE IN THE PROJECT STRINGENT WILL GOVERN. FOR LOCATIONS AND DIMENSIONS OF SLEEVES, CURB, (NOT SHOWN ON THE STRUCTURAL DRAWINGS, SEE ARC MECHANICAL DRAWINGS. CONTRACTOR SHALL VERIFY. REQUIREMENT FOR AND LOCATION OF ABOVE ITEMS WH STRUCTURAL DRAWINGS OR NOT. EMBEDDED ITEMS, SUCH AS PIPE SLEEVES, CONDUITS A BEFORE CONCRETE IS POURED. SEE ARCHITECTURAL, (ITEMS REQUIRING SLEEVES AND EMBEDMENTS IN COND THE STRUCTURAL DRAWINGS. ALL STRUCTURAL RELATED SHOP DRAWINGS SHALL BE APPROVED BY THE ENGINEER OF RECORD PRIOR TO ERI STRUCTURAL DIMENSIONS AND OPENINGS CONTROLLE MECHANICAL OR ELECTRICAL EQUIPMENT SHALL BE VE PRIOR TO CONSTRUCTION. STRUCTURAL DIMENSIONS F EXISTING STRUCTURES SHALL BE VERIFIED IN FIELD BY CONSTRUCTION WORK. CONTRACTOR SHALL BE RESPONSIBLE FOR FIELD VERIFI INCLUDING LOCATION AND DIMENSIONS OF ALL EXISTIN CONTRACTOR SHALL BE RESPONSIBLE FOR FIELD VERIFI INCLUDING LOCATION AND DIMENSIONS OF ALL EXISTIN CONTRACTOR SHALL BE RESPONSIBLE FOR THE EXCAV. AND SUPPORT FOUNDATION UNDER EXISTING STRUCT THE STRUCTURES ARE DESIGNED FOR STABILITY IN THE PROVIDE TEMPORARY BRACING AND SHORING AS REQU CONSTRUCTION.	THE SPECIFICATIONS AND REQUIREMENTS INDICATED ON THIS SHEET ARE INTENDED AS A BASIC SUMMARY OF THE MATERIAL, CONSTRUCTION AND INSPECTION REQUIREMENTS FOR THE PROJECT. ADDITIONAL, ARE GIVEN IN THE PROJECT SPECIFICATIONS. IN THE EVENT OF CONFLICT BETWEEN THE REQUIREMENTS INDICATED ON THIS SHEET AND THOSE IN THE PROJECT SPECIFICATIONS, THE MORE STRINGENT WILL GOVERN. FOR LOCATIONS AND DIMENSIONS OF SLEEVES, CURB, OPENINGS AND DEPRESSIONS NOT SHOWN ON THE STRUCTURAL DRAWINGS, SEE ARCHITECTURAL, CIVIL, MECHANICAL DRAWINGS. CONTRACTOR SHALL VERIFY AND COORDINATE REQUIREMENT FOR AND LOCATION OF ABOVE ITEMS WHETHER SHOWN ON THE STRUCTURAL DRAWINGS. CONTRACTOR SHALL VERIFY AND COORDINATE REQUIREMENT FOR AND LOCATION OF ABOVE ITEMS WHETHER SHOWN ON THE STRUCTURAL DRAWINGS OR NOT. EMBEDDED ITEMS, SUCH AS PIPE SLEEVES, CONDUITS AND INSERTS SHALL BE IN PLACE BEFORE CONCRETE IS POURED. SEE ARCHITECTURAL, CIVIL, MECHANICAL DRAWINGS FOR ITEMS REQUIRING SLEEVES AND EMBEDMENTS IN CONCRETE WHICH ARE NOT SHOWN IN THE STRUCTURAL DRAWINGS. ALL STRUCTURAL DRAWINGS. ALL STRUCTURAL RELATED SHOP DRAWINGS SHALL BE SUBMITTED, REVIEWED & APPROVED BY THE ENGINEER OF RECORD PRIOR TO ERECTION/CONSTRUCTION. STRUCTURAL DIMENSIONS AND OPENINGS CONTROLLED BY OR RELATED TO MECHANICAL OR ELECTRICAL EQUIPMENT SHALL BE VERIFIED BY THE CONTRACTOR PRIOR TO CONSTRUCTION. STRUCTURAL DIMENSIONS RELATED TO OR CONTROLLED BY EXISTING STRUCTURES SHALL BE VERIFIED IN FILED DY THE CONTRACTOR PRIOR TO CONSTRUCTION WORK. CONTRACTOR SHALL BE RESPONSIBLE FOR FIELD VERIFIED BY THE CONTRACTOR SHOLL BUSISTING CONSTRUCTION AND UTILITIES. CONTRACTOR SHALL BE RESPONSIBLE FOR THE EXAVATION SHORING TO PROTECT AND SUPPORT FOUNDATION UNDER EXISTING STRUCTURES BOR MITH WORK. CONTRACTOR SHALL BE RESPONSIBLE FOR THE EXAVATION SHORING TO PROTECT AND SUPPORT FOUNDATION UNDER EXISTING STRUCTURES. THE STRUCTURES ARE DESIGNED FOR STABILITY IN THE FINAL CONDITION ONLY. PROVIDE TEMPORARY BRACING AND SHORING AS REQUIRED FOR STABILITY DURING CONSTRUCTION. THE GERERAL NOTES AND TYPICAL D	CONSTRUCTION SALL BEINDARD EXCEPT WHERE APPLICABLE CODES OR THE 2. CODE, INCLUDING AMENOMENTS, EXCEPT WHERE APPLICABLE CODES OR THE 2. THE SPECIFICATIONS AND REQUIREMENTS INDICATED ON THIS SHEET ARE INTENDED 2. AS A BASIC SUMMARY OF THE MATERIAL, CONSTRUCTION AND INSPECTION 2. REQUIREMENTS FOR THE PROJECT, ADDITIONAL, ARE GIVEN IN THE PROJECT SPECIFICATIONS. IN THE EVENT OF CONFLICT EETWEEN THE REQUIREMENTS REQUIREMENTS FOR THE PROJECT, ADDITIONAL, ARE GIVEN IN THE PROJECT SPECIFICATIONS. IN THE EVENT OF CONFLICT EETWEEN THE REQUIREMENTS FOR LOCATIONS AND DIMENSIONS OF SLEEVES, CURB, OPENINGS AND DEPRESSIONS A FOR LOCATIONS AND DIMENSIONS OF SLEEVES, CURB, OPENINGS AND DEPRESSIONS A FOR LOCATIONS AND DIMENSIONS OF SLEEVES, CONDUITS AND INSERTS SHALL BE IN PLACE REQUIREMENT FOR AND LOCATION OF ABOVE ITEMS WHETHER SHOWN ON THE STRUCTURAL DRAWINGS OR NOT. CONTRACT CONTRACT EMBEDDED ITEMS, SUCH AS PIPE SLEEVES, CONDUITS AND INSERTS SHALL BE IN PLACE 3. EFFORE CONCRET IS POURED. SEE ARCHITECTURAL, CIVIL, MECHANICAL DRAWINGS FOR 3. APPROVED BY THE ENGINEER OF RECORD PRIOR TO ERECTION/CONSTRUCTION. 4. ALL STRUCTURAL DRAWINGS. 4. 4. ALLS TRUCTURAL DRAWINGS. 5. STRUCTURAL DRAWINGS. 5. STRUCTURAL BELECTRICAL EQ

- THE TOP 12" OF EXISTING SOIL IS TO BE CLEARED OF EXISTING FOUNDATIONS, Α. PAVING, DEBRIS, TREE ROOTS, AND VEGETATION, IF ANY.
- THE EXPOSED SOIL IS TO THEN BE SCARIFIED TO A DEPTH OF AT LEAST 9", В. PROCESSED AT OR SLIGHTLY ABOVE THE OPTIMIUM MOISTURE CONTENT, AND COMPACTED TO AT LEAST 95% OF MAXIMUM DRY DENSITY IN ACCORDANCE WITH ASTM D698 (STANDARD PROCTOR).
- SELECT FILL MATERIALS TO RAISE THE PAD ELEVATION SHOULD THEN BE С. COMPACTED IN LOOSE LIFTS 8" THICK, WITH EACH LIFT UNIFORMLY COMPACTED IN THE SAME MANNER AS DESCRIBED ABOVE PRIOR TO PLACING THE NEXT LIFT.
- BORROWED SELECT FILL MATERIALS, OR ACCEPTABLE ON-SITE MATERIALS, D. SHOULD HAVE A LIQUID LIMIT (LL) LESS THAN 35 AND THE PLASTICITY INDEX (PI) SHOULD BE FROM 7 TO 15.
- DENSITY TESTS SHALL BE PERFORMED AT A FREQUENCY OF NOT LESS THAN ONE TEST 2. FOR EVERY 2,500 SQUARE FEET OF BUILDING AREA.
- SHOULD FILL MATERIAL PLACEMENT EXCEED 3.5 FEET IN DEPTH, THE DENSITY 3. REQUIREMENT SHOULD BE INCREASED TO 98 PERCENT OF ASTM D698 MAXIMUM DENSITY. THE MOISTURE CONTENT SHOULD BE MAINTAINED AT OR NEAR THE OPTIMUM MOISTURE CONTENT AS DETERMINED BY ASTM D698, AND SHOULD NOT BE LESS THAN TWO PERCENTAGE POINTS OF THE OPTIMUM MOISTURE CONTENT DETERMINED BY THIS TEST.
- THE FOLLOWING NET ALLOWABLE BEARING PRESSURES WERE UTILIZED IN 4. THE DESIGN OF THE FOUNDATIONS (SAND, SILTY SAND, CLAYEY SAND, SILTY GRAVEL, PER IBC 1806.2)

SPREAD AND CONTINUOUS FOOTINGS . 1,500 PSF

CAST-IN-PLACE CONCRETE	METAL STUD FRAMING	SPECIAL INSPECTIO	NS
CONCRETE CONSTRUCTION SHALL CONFORM TO THE LATEST EDITION OF ACI 301 AND ACI 318PROVIDE CONCRETE (WITH TYPE IL CEMENT) HAVING THE FOLLOWING GENERAL CHARACTERISTICS:ASS28-DAY STRENGTH (PSI)SLUMP RANGE (IN)MAX AGGREGATE SIZE (IN)W/C RATIO	 ALL LIGHT GAUGE STEEL FRAMING SHALL MEET THE REQUIREMENTS OF THE LATEST EDITIONS. LIGHT GAUGE METAL FRAMING CALL-OUTS SHOWN ON PLANS SHALL MEET OR EXCEED SECTIONS SPECIFIED BY THE METAL STUD MANUFACTURERS ASSOCIATION (REFERENCE ICC REPORT #4943P). OF THE AISI SPECIFICATION FOR THE DESIGN OF COLD-FORMED STEEL STRUCTURAL MEMBER. ALL 16 GAUGE AND HEAVIER STUDS CALLED OUT ON PLANS SHALL HAVE MINIMUM Fy=50 KSI (ASTM A446 GRADE D OR ASTM A570). LIGHTER STUDS SHALL HAVE MINIMUM Fy=33 KSI (ASTM A446 GRADE A). GALVANIZED COATINGS SHALL MEET THE REQUIREMENTS OF 	1. SPECIAL INSPECTIONS SHALL BE PERFORMED IN ACC THE IBC 2021 (INTERNATIONAL BUILDING CODE 2021) THE OWNER TO PERFORM THE SPECIAL INSPECTIONS INSPECTOR SHALL BE QUALIFIED BY AN APPROVED A BUILDING OFFICIAL TO PERFORM SPECIAL INSPECTIO UNDERTAKING. THE TESTING AGENCY SHALL SEND O TESTING AND INSPECTION REPORTS TO THE BUILDIN ANY DISCREPANCIES SHALL BE BROUGHT TO THE AT CORRECTION, THEN IF LEFT UNCORRECTED TO THE S	BY A SPECIAL INSPECTOR HIRED BY LISTED BELOW. THE SPECIAL GENCY ACCORDING TO THE CITY'S ONS FOR WHICH THEY WILL BE COPIES OF ALL STRUCTURAL G OFFICIAL AND THE ARCHITECT. TENTION OF THE CONTRACTOR FOR
4,000 3-5 1" 0.45 MAX ALL FOOTINGS & INTERIOR SLAB ON GRADE	ASTM A525. 3. BRIDGING SHALL BE COLD ROLLED CHANNEL, MINIMUM 1 1/2" DEEP WITH 9/16" FLANGE WIDTH PER TYPICAL DETAIL. SPACE BRIDGING AT 4'-0" MAXIMUM O.C. VERTICALLY.	ARCHITECT AND BUILDING DEPARTMENT. 2. WHEN INDICATED WITH A "X", THE FOLLOWING SHAL	L BE INSPECTED.
:: THE READY MIX-CONCRETE SHOULD ARRIVE AT THE TARGET SLUMP AND THE	4. DOUBLE UP STUDS AT ALL JAMBS UNLESS MORE STUDS ARE REQUIRED BY THE DRAWINGS, SEE TYPICAL DETAILS. PROVIDE LINTELS AT OPENINGS.	ITEM	REQ'D REMARKS
RACTOR SHOULD NOT BE ALLOWED TO ADD WATER TO THE MIXTURE. MINIMUM STRENGTH FOR REMOVAL OF FORMS AND SHORING SHALL BE 75% OF		GRADING, EXCAVATIONS, FILL, FOOTING	X BY GEOTECHNICAL ENGINEER
SPECIFIED STRENGTH AT 28 DAYS.	STRUCTURAL OBSERVATIONS	DRILLED PIERS	X CONTINUOUS
EXCEPT AS OTHERWISE REQUIRED, ALL EXPOSED CONCRETE CORNERS AND EDGES SHALL HAVE 3/4" CHAMFERS.		CONCRETE - BATCH PLANT INSPECTION	X CONTINUOUS
	1. JOB SITE OBSERVATIONS BY THE PROFESSIONAL ENGINEER OR HIS AUTHORIZED REPRESENTATIVE SHALL CONSIST OF VISUAL OBSERVATION OF MATERIALS,	CONCRETE - CONCRETE PLACEMENT	X PERIODIC
NO ADMIXTURES SHALL BE USED WITHOUT APPROVAL. NO AIR ENTRAINMENT SHALL BE ALLOWED IN FLAT SLABS. ADMIXTURES CONTAINING CHLORIDES SHALL NOT BE USED. CONCRETE SHALL NOT BE IN CONTACT WITH ALUMINUM.	EQUIPMENTS OR CONSTRUCTION WORK FOR THE PURPOSE OF ASCERTAINING THAT THE WORK IS IN SUBSTANTIAL CONFORMANCE WITH THE CONTRACT DOCUMENTS AND	CONCRETE - REBAR PLACEMENT	X INSPECT FINAL PLACEMENT
	WITHIN THE DESIGN INTENT. SUCH OBSERVATIONS SHALL NOT BE RELIED UPON BY OTHERS AS ACCEPTANCE OF THE WORK, NOR SHALL IT BE CONSTRUCTED TO RELIEVE	CONCRETE - REBAR WELDING	X CONTINUOUS
FLY ASH (POZZOLAN) IF PERMITTED SHALL NOT EXCEED 15% REPLACEMENT OF TOTAL CEMENT CONTENT USING A 1:1 REPLACEMENT FACTOR	THE CONTRACTOR IN ANY WAY FROM HIS OBLIGATIONS AND RESPONSIBILITY UNDER THE CONSTRUCTION CONTRACT. SPECIFICALLY BUT WITHOUT LIMITATIONS,	CONCRETE - ANCHOR BOLTS AND PLATES	X INSPECT FINAL PLACEMENT
IF THE EXISTING VAPOR RETARDER MUST BE REPLACED, PROVIDE 15 MILS THICK VAPOR RETARDER UNDER ALL SLAB ON GRADE. ALL JOINTS AND SEAMS, BOTH LATERAL AND	OBSERVATIONS BY THE DESIGN PROFESSIONAL SHALL NOT REQUIRE THE DESIGN PROFESSIONAL TO ANSWER RESPONSIBILITY FOR THE MEANS AND METHODS OF CONSTRUCTION, NOR FOR SAFETY ON THE JOB SITE.	CONCRETE - POST - TENSIONS STEEL PLACEMENT	X INSPECT FINAL PLACEMENT
BUTT, SHALL BE OVERLAPPED 6" AND TAPED. ALL DAMAGED AREAS AND PENETRATIONS SHALL BE SEALED WITH VAPOR RETARDER AND TAPE. VAPOR RETARDER SHALL EXTEND		CONCRETE - POST - TENSIONSINGS STRESSING	X CONTINUOUS
FROM THE BOTTOM OF THE SLAB DOWN ALL FOOTINGS A MINIMUM OF 12".	2. NOTIFY ENGINEER 48 HOURS IN ADVANCE WHEN A STRUCTURAL OBSERVATION IS REQUIRED. NOTIFY THE ENGINEER FOR THE FOLLOWING ITEMS:	CONCRETE - EXPANSION ANCHORS	X PERIODIC
	2.1 BEFORE PLACEMENT OF CONCRETE FOR FOUNDATIONS AND SLAB. 2.2 AFTER FRAMING OF ROOF STRUCTURE BUT BEFORE PLACEMENT OF ROOFING	CONCRETE - EPOXY	X PERIODIC
	MATERIAL.	CONCRETE - SHOTCRETE PLACEMENT	PERIODIC
REINFORCING STEEL		CONCRETE - PRECAST CONCRETE ERECTION	PERIODIC
	SHOP DRAWINGS & SUBMITTALS	MASONRY - VERIFICATION OF PROPORTIONS OF SITE PREPARED MORTAR	X PERIODIC
LATEST ACI CODE AND DETAILING MANUAL APPLY. ALL REINFORCING BARS DEFORMED UNLESS NOTED OTHERWISE.		MASONRY - VERIFICATION OF MORTAR JOINT	X PERIODIC
ALL REINFORCING SHALL BE ASTM A-615 GRADE 60 EXCEPT AS FOLLOWS:	1. SHOP DRAWINGS SHALL BE PREPARED AND SUBMITTED FOR REVIEW TO THE STRUCTURAL ENGINEER FOR EACH STRUCTURAL BUILDING MATERIAL AS INDICATED IN THE	MASONRY - VERIFICATION OF LOCATION OF REBAR AND CONNECTORS	X PERIODIC
A. WIRE MESHA-185 B. WELDED ANCHORSGRADE 40	STRUCTURAL GENERAL NOTES AND THE CONTRACT SPECIFICATIONS. SEE THE CONTRACT SPECIFICATION FOR SUBMITTAL PROCEDURE AND ADDITIONAL INFORMATION.	MASONRY - SIZE AND LOCATION OF STRUCTURAL ELEMENTS	X PERIODIC
CHEMICAL ANALYSIS LIMITED PER AWS SPECIFICATIONS FOR WELD WITHOUT PREHEAT.	2. SHOP DRAWINGS SHALL USE DRAFTING LINE WORK AND LETTERING THAT IS CLEARLY LEGIBLE. SHOP DRAWINGS SHALL NOT CONTAIN REPRODUCTIONS OF THE CONTRACT	MASONRY - SIZE AND LOCATION OF ANCHORS	X PERIODIC
C. WELDED ANCHORS #5 AND LARGERASTM A-706	DRAWINGS PLANS OR DETAILS.	MASONRY - SIZE GRADE AND TYPE OF REBAR	X PERIODIC
CLEAR CONCRETE COVER TO REINFORCING ARE AS FOLLOWS:	3. SHOP DRAWINGS SHALL SHOW CLEAR AND COMPLETE INFORMATION FOR THE	MASONRY - REBAR WELDING	X PERIODIC
A. CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH	 FABRICATION (DETAIL SHEETS AND/OR MATERIAL LIST) AND INSTALLATION. ALLOW A MINIMUM OF (2) WEEKS FOR REVIEW OF EACH SET OF SHOP DRAWINGS. 	MASONRY - PROTECTION OF MASONRY DURING HOT (TEMPERATURE ABOVE 90 DEG.) AND COLD WEATHER (TEMPERATURE BELOW 40 DEG.)	X PERIODIC
B. EXPOSED TO EARTH OR WEATHER: • #6 AND LARGER	5. THE CONTRACTOR SHALL REVIEW THE SHOP DRAWINGS SUBMITTED BY THE	MASONRY - VERIFICATION OF CLEAN GROUT SPACE PRIOR TO GROUT PLACEMENT	X PERIODIC
• #5 AND SMALLER1 1/2"	SUBCONTRACTOR AND COORDINATE SHOP DRAWINGS WITH ALL OTHER TRADES.		X PERIODIC
C. SLAB ON GRADE2" BELOW TOP OF SLAB	6. THE CONTRACTOR SHALL ANSWER ALL QUESTIONS OR CLARIFICATIONS BY THE SUBCONTRACTOR BEFORE SUBMITTING TO THE ENGINEER FOR REVIEW. ANY QUESTIONS	MASONRY - REBAR PLACEMENT MASONRY - GROUT PLACEMENT	X PERIODIC X PERIODIC
SLAB REINFORCING SHALL BE LAPPED A MINIMUM OF 16".	THAT THE CONTRACTOR CANNOT ANSWER WITH THE INFORMATION ON THE DRAWINGS	MASONRY - GROUT PLACEMENT MASONRY - COMPLIANCE WITH REQUIRED INSPECTION	
LAP REINFORCING BARS IN CONTINUOUS FOOTINGS 30 BAR DIAMETERS OR 24" MINIMUM.	50 SHALL CLEARLY BE MARKED FOR THE ENGINEER FOR REVIEW. 7. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL DIMENSIONS, SEE NOTE 3 & 6	PROVISIONS OF THE CONSTRUCTION DOCUMENTS AND THE APPROVED SUBMITTALS SHALE BE VERIFIED.	X PERIODIC
ALL HORIZONTAL REINFORCING IN CONTINUOUS FOOTINGS AND WALLS SHALL BE			
CONTINUOUS AROUND CORNERS OR HAVE CORNER BARS OF THE SAME SIZE AND	UNDER GENERAL NOTES.	LIGHT GAGE STUD FRAMING; SHOP AND FIELD WELDING	X CONTINUOUS
		LIGHT GAGE STUD FRAMING; SHOP AND FIELD WELDING STRUCTURAL STEEL, SHOP WELDING - FILLET WELDS PENETRATION WELDS	XCONTINUOUSXPERIODIC

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STRUCTURAL STEEL

FOR ALL STRUCTURAL STEEL FABRICATION AND CONSTRUCTION LATEST AISC HANDBOOKS AND CODES SHALL APPLY. ALL STEEL FABRICATION IS REQUIRED TO BE COMPLETED BY AN APPROVED STEEL FABRICATOR RECOGNIZED BY THE BUILDING DEPARTMENT.

ASTM A-36, EXCEPT AS FOLLOWS: WIDE FLANGE SECTIONS, ASTM A992 GRADE 50; PIPE SECTIONS, ASTM A-53 GRADE B; TUBE SECTIONS, ASTM A-500 GRADE B.

ANCHOR BOLTS, ASTM F1554 GRADE 36 UNO; HIGH STRENGTH BOLTS, A-325-X OR A-325- SC PER SCHEDULES. MINIMUM EMBEDMENT OF ALL BOLTS IN GROUT OR CONCRETE SHALL BE 8" INCLUDING BOLT HEAD OR 5" WITH A STD HOOK. WELDED ANCHORS AND SHEAR CONNECTORS SHALL BE ICC APPROVED.

UNLESS OTHERWISE NOTED MINIMUM CONNECTION SHALL BE: (2) 3/4" DIAMETER BOLTS OR 3/16" FILLET WELD 4" LONG, USING 1/4" CONNECTION MATERIAL AND DETAILED TO MINIMIZE BENDING IN THE CONNECTION.

WELDING

ALL CONSTRUCTION AND TESTING PER AMERICAN WELDING SOCIETY CODES AND RECOMMENDATIONS. ALL WELDING SHALL BE BY WELDERS HOLDING CURRENT VALID CERTIFICATES AND HAVING CURRENT EXPERIENCE IN TYPE OF WELD CALLED FOR. WELDING RODS TO BE LOW HYDROGEN TYPE, E70 FOR STRUCTURAL STEEL AND E60 FOR METAL DECK AND LIGHT GAGE STEEL STUDS.

ALL BUTT WELDED SPLICES IN MATERIAL THICKER THAN 5/16" SHALL BE INSPECTED BY AN INDEPENDENT TESTING LABORATORY, TO CERTIFY CONNECTION AS MEETING OR EXCEEDING STRENGTH OF MATERIALS SPLICED.

ALL WELDING OF STRUCTURAL STEEL SHALL CONFORM TO THE "STRUCTURAL WELDING CODES-STEEL" AWS D1.1, CURRENT EDITION.

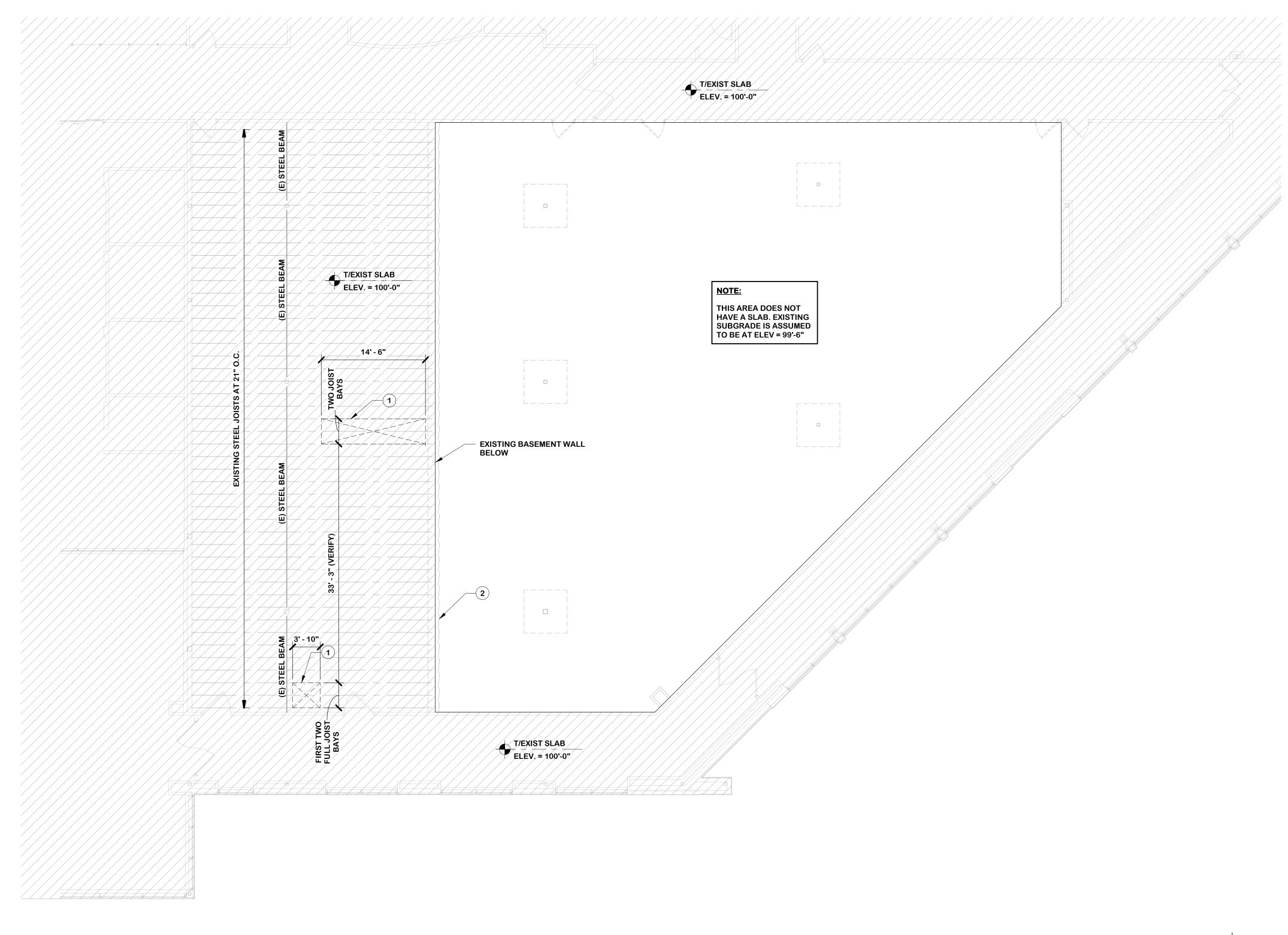
ALL WELDING OF LIGHT GAGE STEEL STUDS AND STEEL DECK SHALL CONFORM TO THE "STRUCTURAL WELDING CODES-SHEET STEEL" AWS D1.3, CURRENT EDITION.

WELDS INDICATED MAY BE MADE IN SHOP OR FIELD WITH APPROVAL.

STRUCTURAL MODIFICATIONS AND REPAIR

- REFER TO AS-BUILT DRAWINGS AND SHOP DRAWINGS (IF AVAILABLE) OF THE EXISTING 1 STRUCTURE FOR CONSTRUCTION WORK ASSOCIATED WITH THE EXISTING STRUCTURES. AS-BUILT CONDITIONS AND DIMENSIONS MUST BE FIELD VERIFIED BY CONTRACTOR.
- 2. ALL DEMOLITION, REMOVAL AND CONSTRUCTION ACTIVITIES SHALL BE CONDUCTED WITH CONSIDERATION FOR EXISTING FACILITIES STRUCTURES, EQUIPMENTS, ETC.
- 3. UNLESS OTHERWISE NOTED ON PLANS, CUTTING EXISTING REINFORCING DUE TO DOWELS DRILLING, PIPING, CONDUITS OR OTHER PENETRATION THROUGH EXISTING CONCRETE STRUCTURE IS PROHIBITED. CONTRACTOR SHALL IDENTIFY EXISTING REINFORCING LOCATIONS BY NON-DESTRUCTIVE APPROACHES PRIOR TO DRILLING HOLES OR CUTTING OPENINGS.
- EXISTING CONCRETE SURFACES THAT WILL COME IN CONTACT WITH NEW CONCRETE 4. SHALL BE ROUGHENED TO 1/4" AMPLITUDE TO WITHIN 1" OF EDGE. BONDING AGENT SHALL BE APPLIED TO THE EXISTING CONCRETE SURFACES PRIOR TO THE NEW CONCRETE PLACEMENT.
- ALL EXISTING CONDITIONS COULD NOT BE OBSERVED OR ACCOUNTED FOR. 5. CONTRACTOR AND OWNER SHOULD ANTICIPATE SOME CHANGES WILL BE NECESSARY TO ACCOMMODATE UNFORSEEN EXISTING CONDITIONS. CONTIGENCIES SHOULD BE IN PLACE FOR THESE POSSIBILITIES.

PET/CT INFILL		1600 WALLACE BLVD	AMARILLO, TEXAS 79106
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1 LEVEL 1 DEMO PLAN 1/8" = 1'-0"

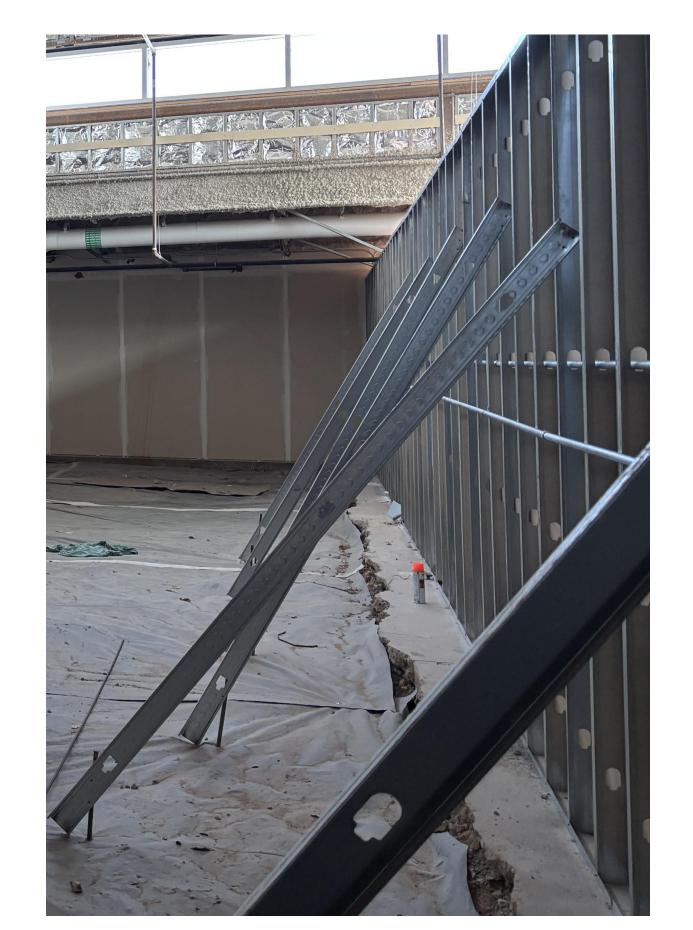
KEYED NOTES

- 1 SAW CUT AND REMOVE EXISTING CONCRETE FILLED STEEL DECK. EXISTING STEEL JOISTS SHALL NOT BE AND SHALL REMAIN CONTINUOUS THROUGH THE NEW SLAB OPENING. THE NEW SLAB OPENING SHALL BE LOCATED WHERE INDICATED ON THE DRAWINGS AND BE TWO JOIST BAYS WIDE.
- (2) ALONG THIS SLAB EDGE, THE CONTRACTOR SHALL SAW CUT THE EXISTING JAGGED SLAB EDGE TO CREATE A STRAIGHT SLAB EDGE TO DOWEL INTO, REF: 2/S1

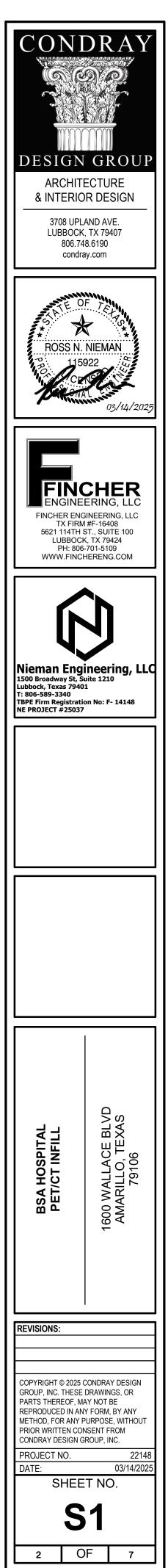


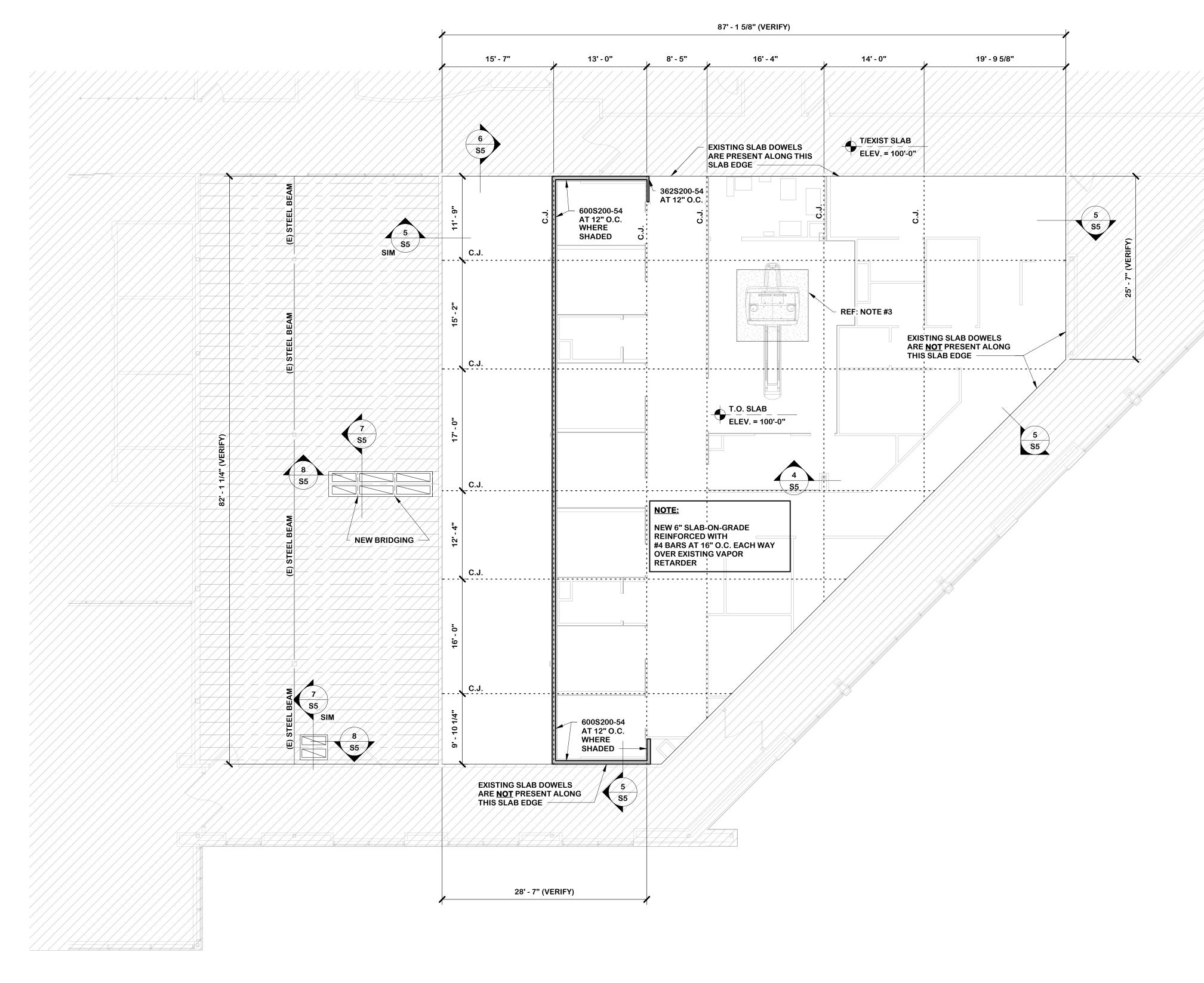
DEMO NOTES

CONTRACTOR SHALL VERIFY ANY DIMENSIONS SHOWN WITH ARCHITECTURAL 1 DRAWINGS.

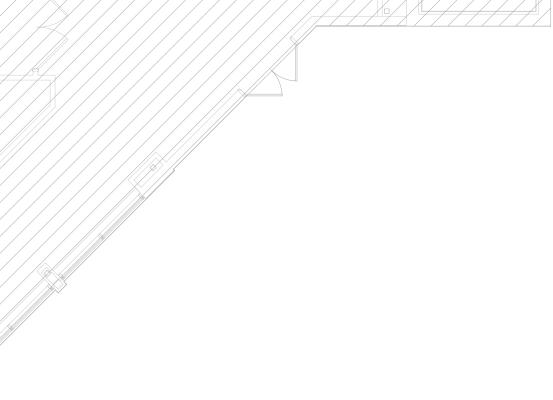


2 EXISTING SLAB EDGE CONDITION



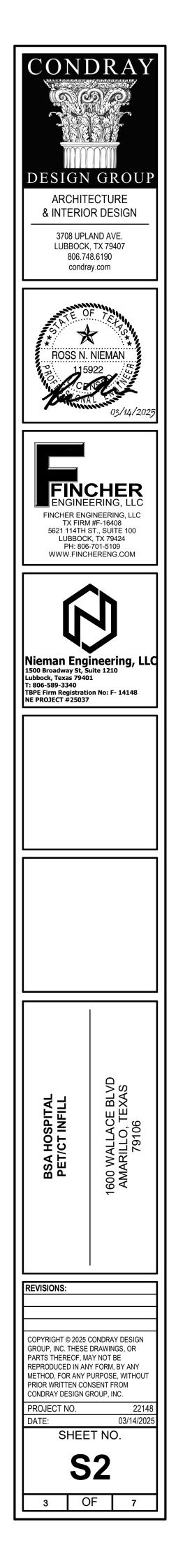




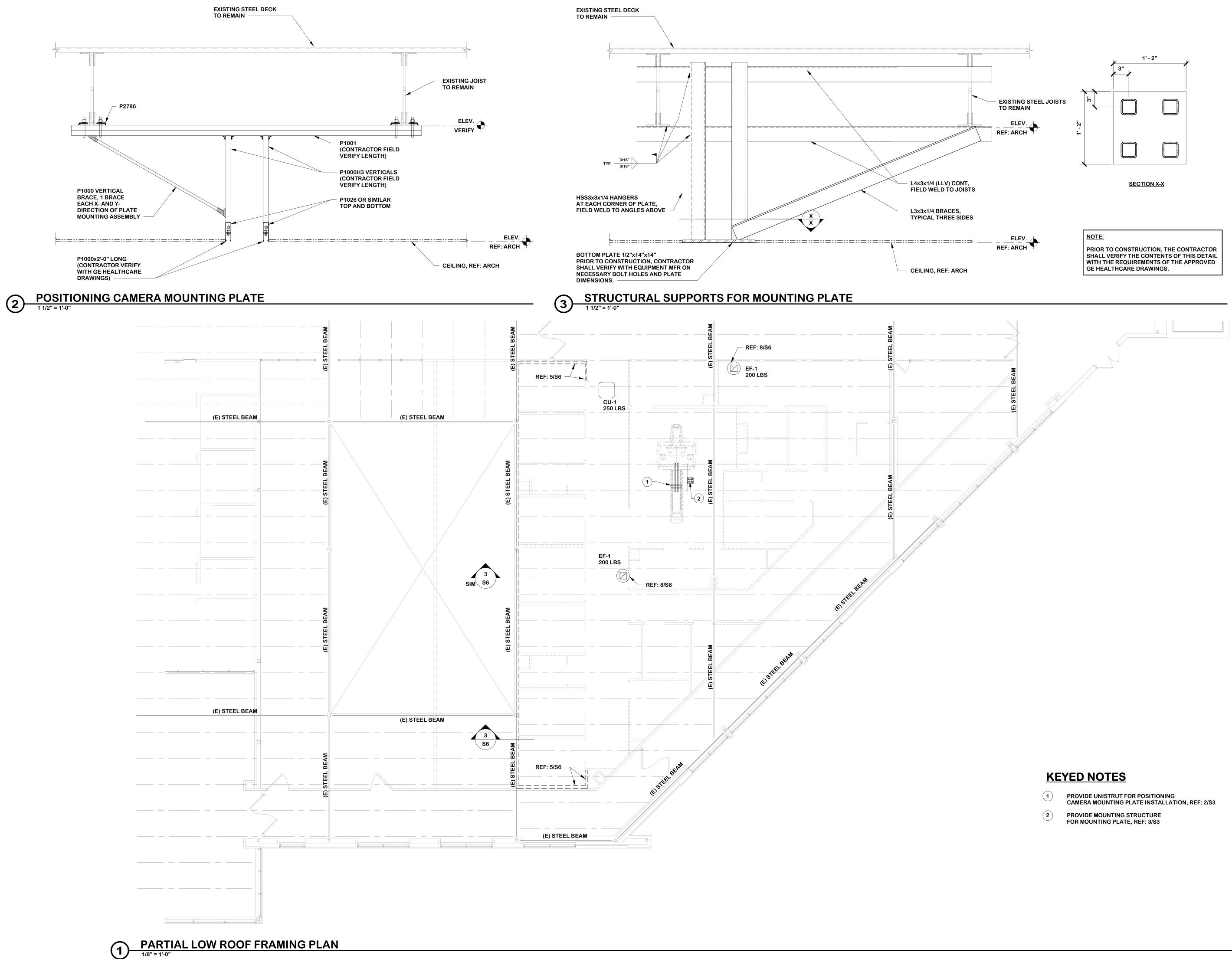


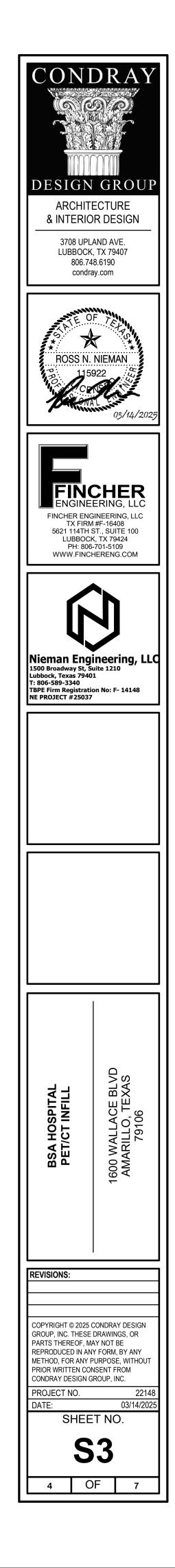
FOUNDATION NOTES

- 1. FIELD VERIFY ALL DIMENSIONS PRIOR TO CONSTRUCTION OR FABRICATION.
- 2. (E) ON PLAN INDICATES EXISTING.
- 3. FLOOR SLAB ON WHICH EQUIPMENT IS TO BE INSTALLED MUST BE LEVEL TO 6.00MM (1/4") IN 3050MM (10'-0).
- 4. CONC. C.J. AS SHOWN ON PLAN INDICATES LOCATION OF EITHER FORMED OR SAWCUT (CONTRACTOR'S OPTION) CONTROL JOINT IN SLAB ON GRADE. SEE S0 AND DETAIL 2/S5

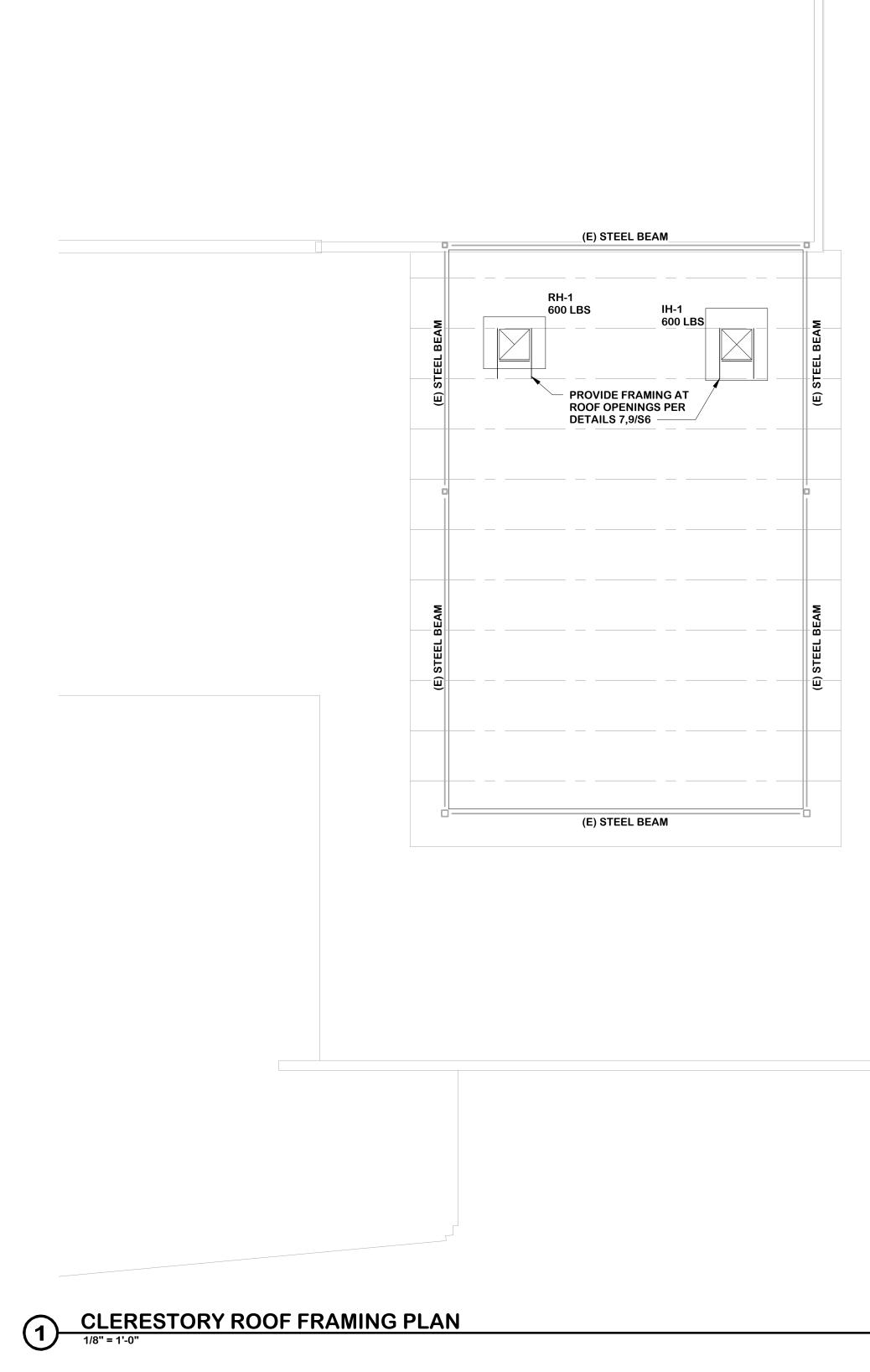


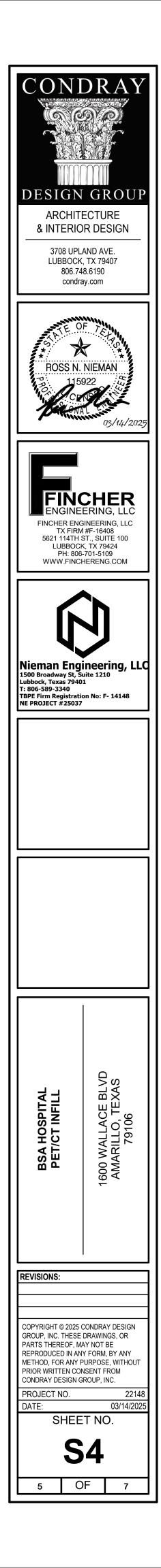




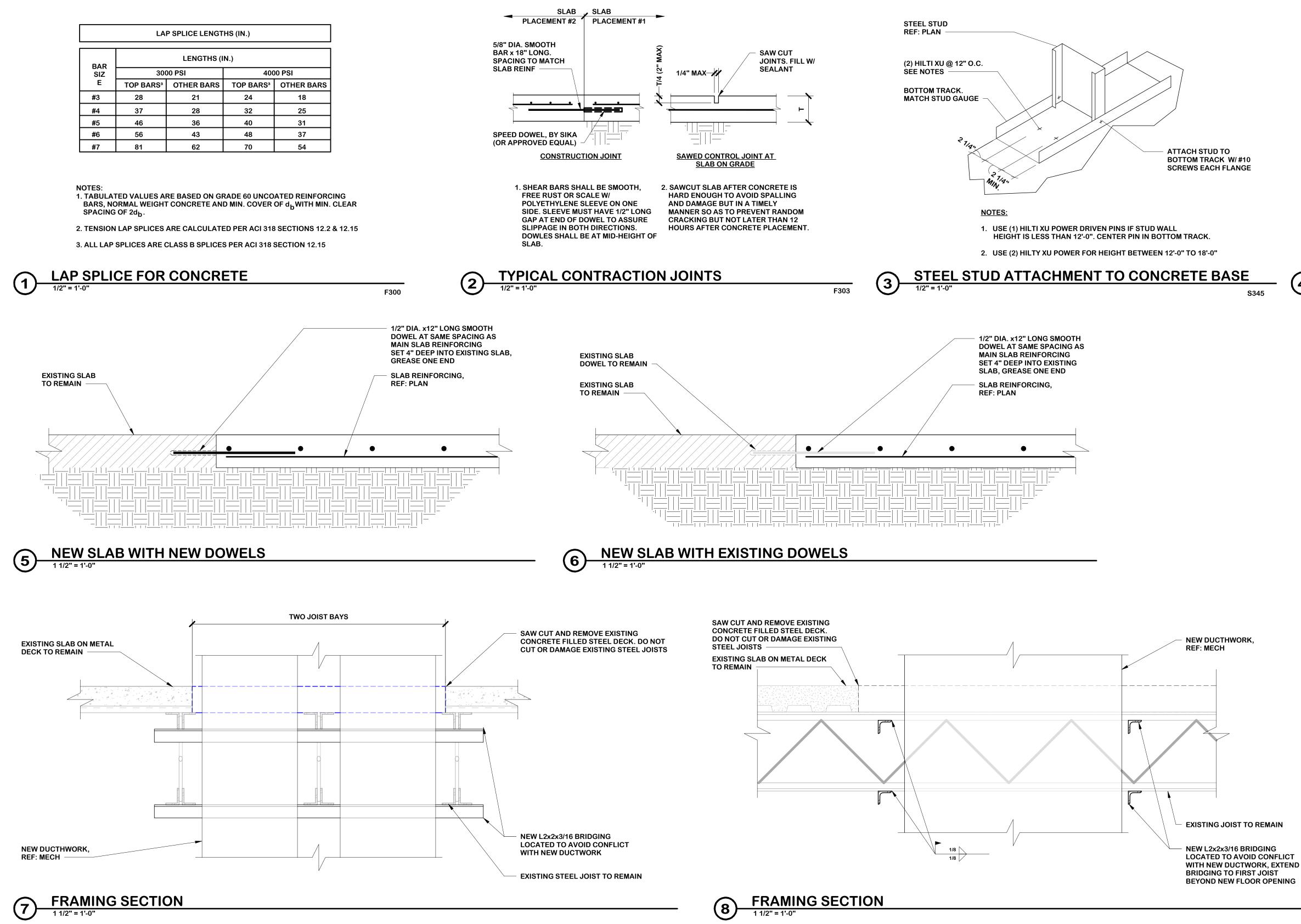


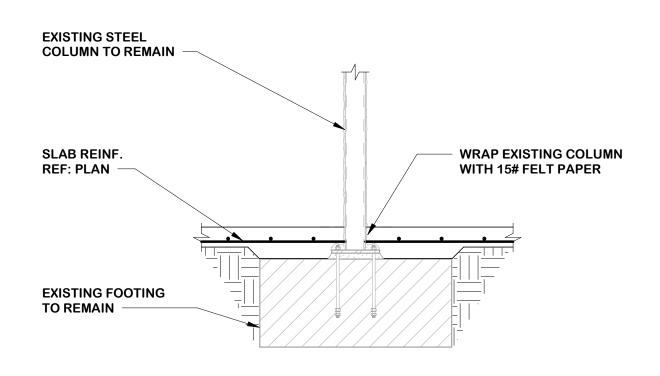








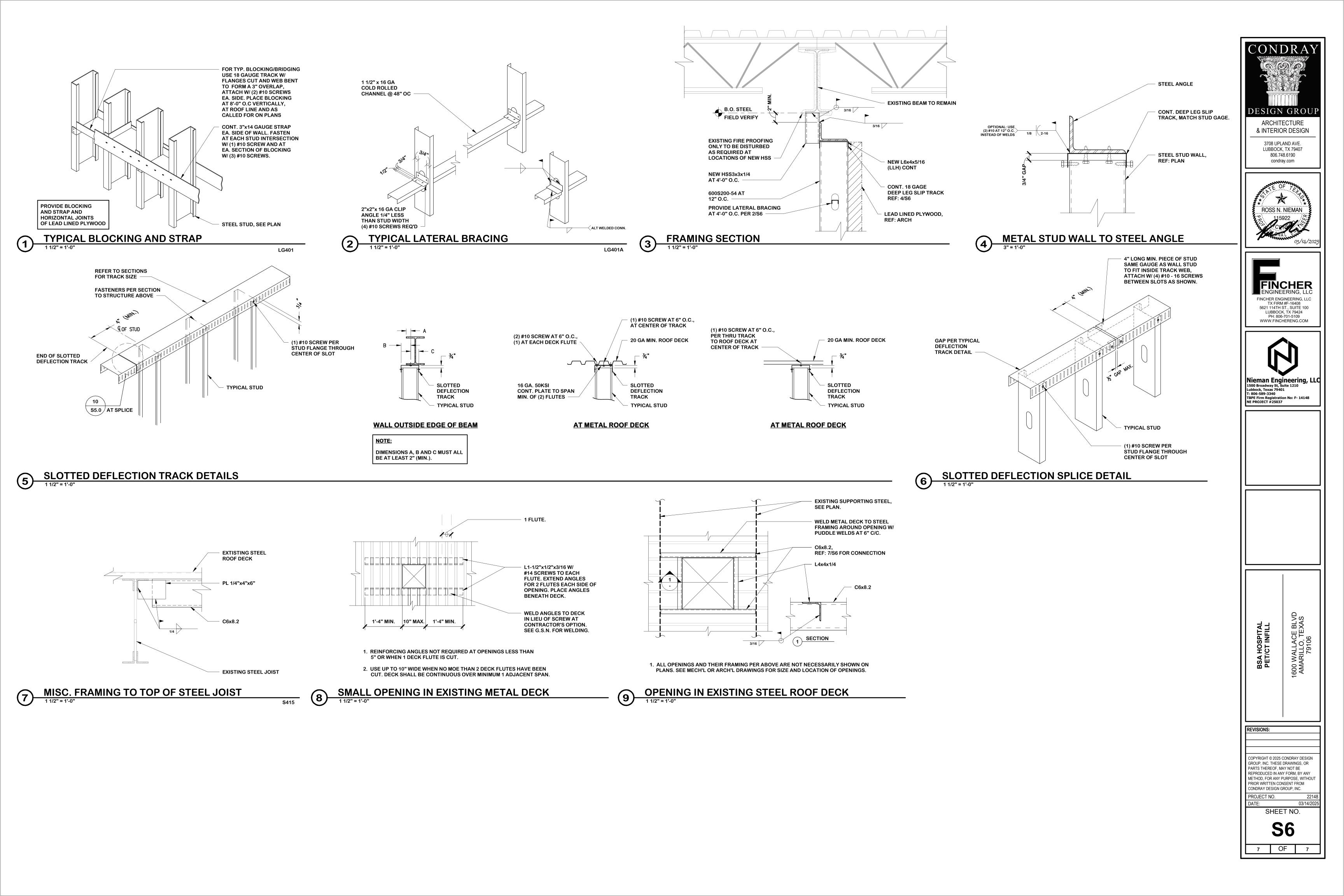


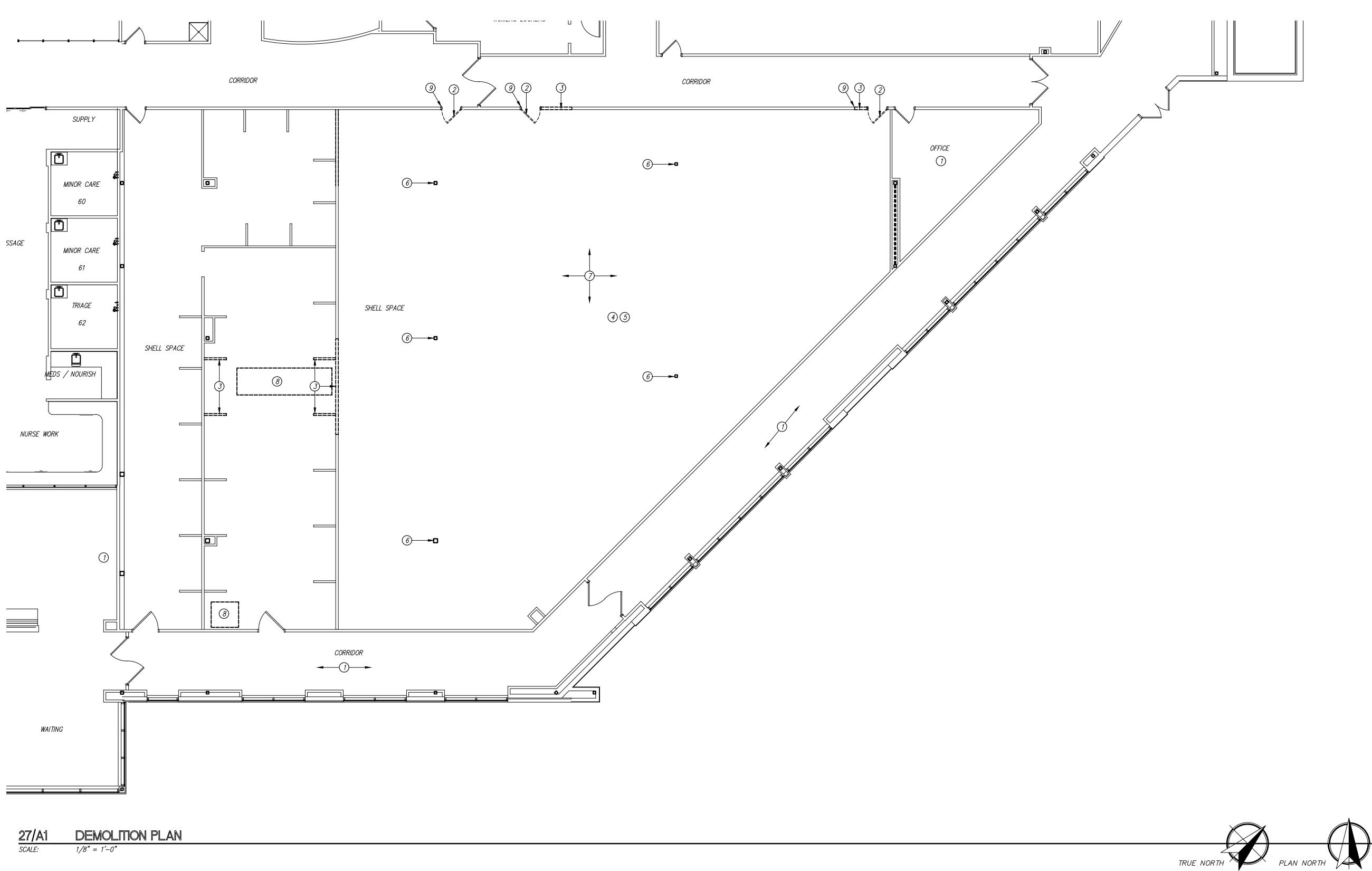


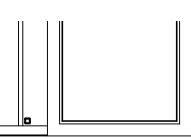
4 NEW SLAB AT EXISTING COLUMN

DESIGN GROUP ARCHITECTURE & INTERIOR DESIGN 3708 UPLAND AVE. LUBBOCK, TX 79407 806.748.6190 condray.com			
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Nieman Engineering, LLC 1500 Broadway St, Suite 1210 Lubbock, Texas 79401 T: 806-589-3340 TBPE Firm Registration No: F- 14148 NE PROJECT #25037			
BSA HOSPITAL PET/CT INFILL	1600 WALLACE BLVD AMARILLO, TEXAS 79106		
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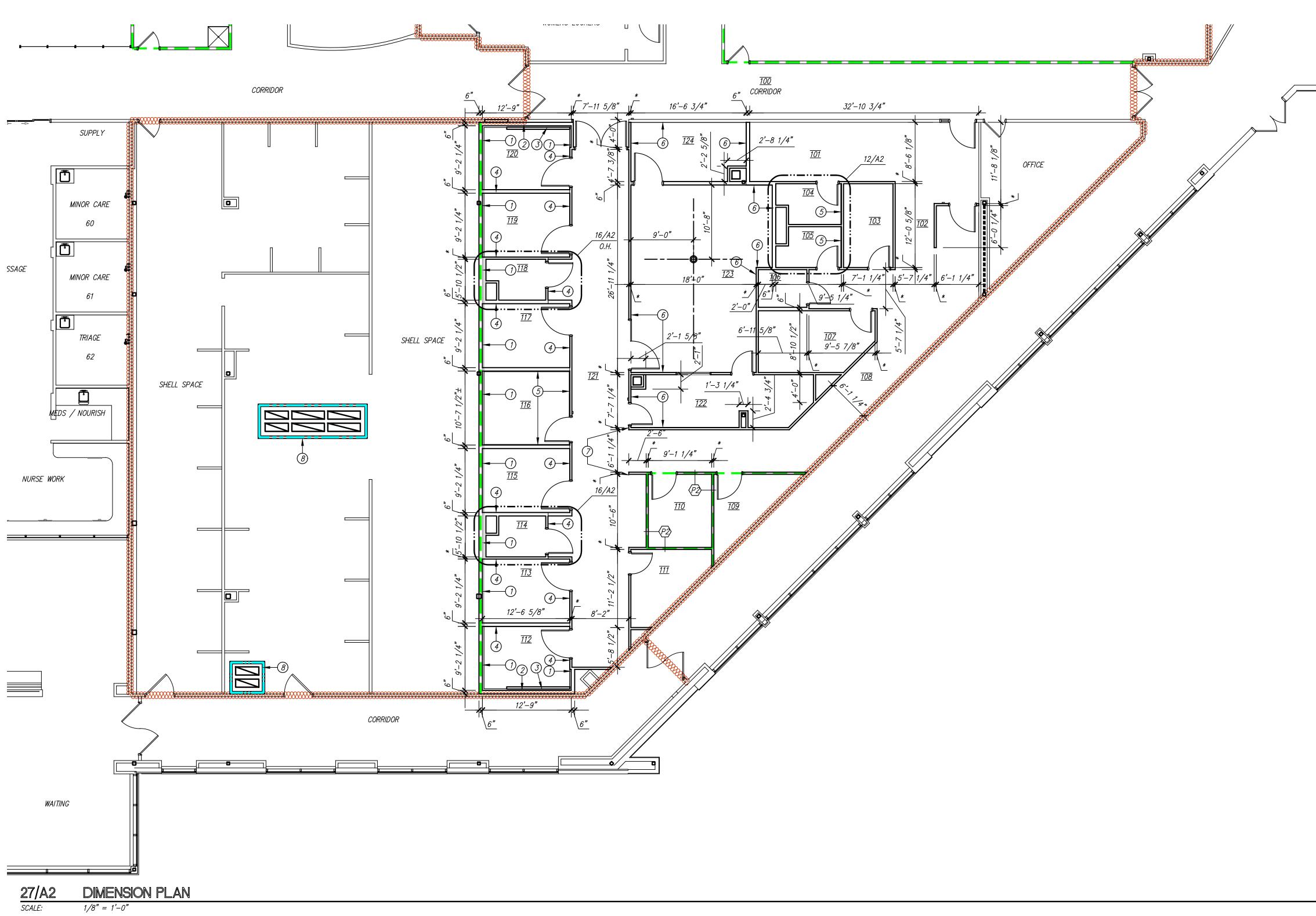


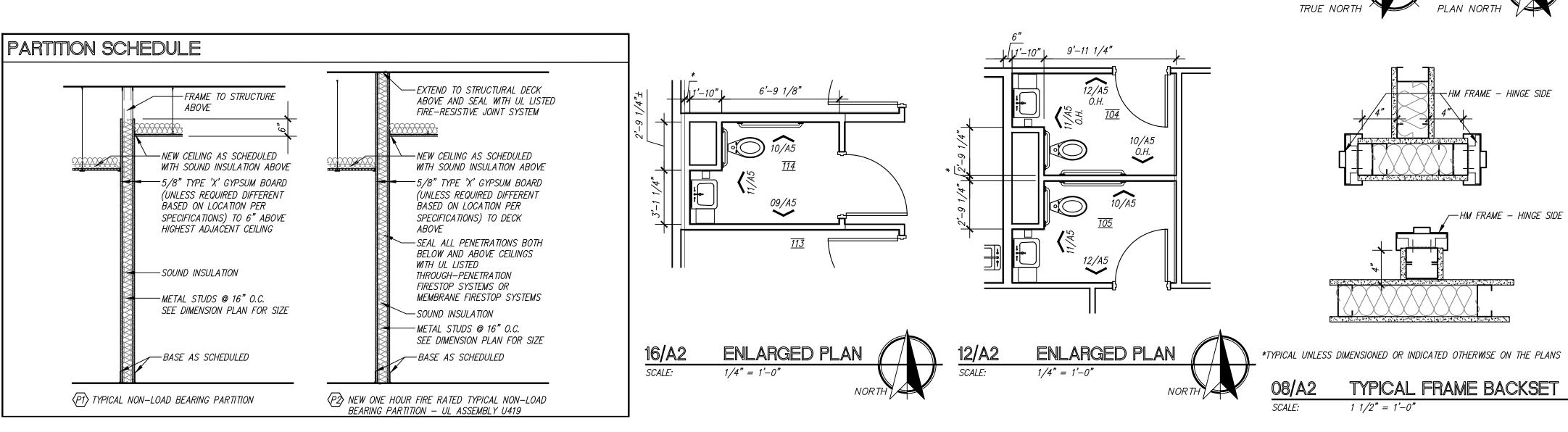
- 1). REFER TO MPE FOR ADDITIONAL DEMOLITION INFORMATION.
- 2). ON ALL WALLS SCHEDULED TO REMAIN TO BE REWORKED OR RECEIVE NEW FINISH, CONTRACTOR SHALL REMOVE ANY EXISTING EQUIPMENT, DECORATIONS, DEVICES, ETC. AND SALVAGE FOR REINSTALLATION AS DIRECTED BY OWNER. CONTRACTOR IS TO PATCH BACK ANY HOLES OR ABANDONED ANCHORS AND RETEXTURE WALLS IF NECESSARY, AND PREP FOR NEW FINISH AS SCHEDULED.
- 3). NOTIFY ARCHITECT OF ANY DISCREPANCIES WITH EXISTING OR NEW CONDITIONS.
- 4). CONTRACTOR SHALL PATCH AND REPAIR WALLS, FLOOR, AND CEILINGS AT ALL INTERSECTIONS WHERE WALLS ARE REMOVED OR WHERE DEVICES, EQUIPMENT, ACCESSORIES, ETC. ARE REMOVED. PREP WALLS TO RECEIVE NEW FINISH. NEW CONSTRUCTION SHOULD MATCH ADJACENT FINISHES AND MATERIALS AND PROVIDE SMOOTH AND COMPLETE TRANSITION.
- 5). ALL ITEMS INDICATED TO BE SALVAGED ARE TO BE VERIFIED WITH THE OWNER. IF OWNER DECLINES SALVAGE, CONTRACTOR SHALL REMOVE ITEMS FROM THE SITE AND DISPOSE OF THEM PROPERLY.
- 6). ALL ABANDONED PIPING, CONDUIT, WIRING, ETC. IS TO BE REMOVED BACK TO THE SOURCE, I.E. FURTHER JOINT WHERE NOTHING ELSE IS SERVED OFF OF THE SAME FEED.

KEYED NOTES

- (1) NO WORK IN THIS AREA.
- (2) REMOVE EXISTING DOOR, FRAME AND HARDWARE. SALVAGE FOR OWNER REUSE.
- (3) REMOVE PORTION OF WALL TO ACCOMMODATE NEW WORK.
- (4) PREP ALL WALLS SCHEDULED TO REMAIN TO RECEIVE NEW PAINT. REMOVE ANY ABANDONED ANCHORS, REPAIR ANY GOUGES OR HOLES AND RE-TEXTURE WALLS AS REQUIRED TO RECEIVE NEW FINISH.
- 5 REFER TO STRUCTURAL DRAWINGS FOR CONCRETE SLAB DESIGN. PROTECT THE EXISTING VAPOR BARRIER TO THE GREATEST EXTENT POSSIBLE AND PATCH BACK AS NEEDED TO PROVIDE CONTINUOUS COVERAGE UNDER ALL NEW CONCRETE SLAB WITH NO PUNCTURES, TEARS, OR HOLES. TAPE ALL OPEN SEAMS AND JOINTS.
- 6 SPRAY-APPLIED FIREPROOFING AROUND COLUMN TO REMAIN. MAINTAIN REQUIRED THICKNESS FOR RATING AND REPAIR AS NEEDED. PROTECT DURING CONSTRUCTION.
- (7) ALL EXISTING SPRAY-APPLIED FIREPROOFING IS TO REMAIN AS EXISTING. IF REMOVAL IS REQUIRED FOR ATTACHMENT OF STRUCTURE, FRAMING, MECHANICAL, PLUMBING, OR ELECTRICAL ELEMENT ATTACHMENT, ETC. IT IS REQUIRED THAT THIS BE RE-APPLIED TO MATCH REQUIRED THICKNESS.
- 8 REMOVE PORTION OF EXISTING SLAB TO ACCOMMODATE NEW DUCTWORK. REFER TO MPE AND STRUCTURAL DRAWINGS FOR MORE INFORMATION.
- (9) REMOVE EXISTING CONTROL JOINTS AND PREP NEW OPENING WITH NEW CONTROL JOINT(S) AT FRAME OPENING CORNERS IF PRESENT OR PREP WALL FOR NEW FINISH AS REQUIRED FOR NEW CONSTRUCTION.

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1500 Broadway St, S Lubbock, Texas 794 T: 806-589-3340 T	01 'BPE Firm		
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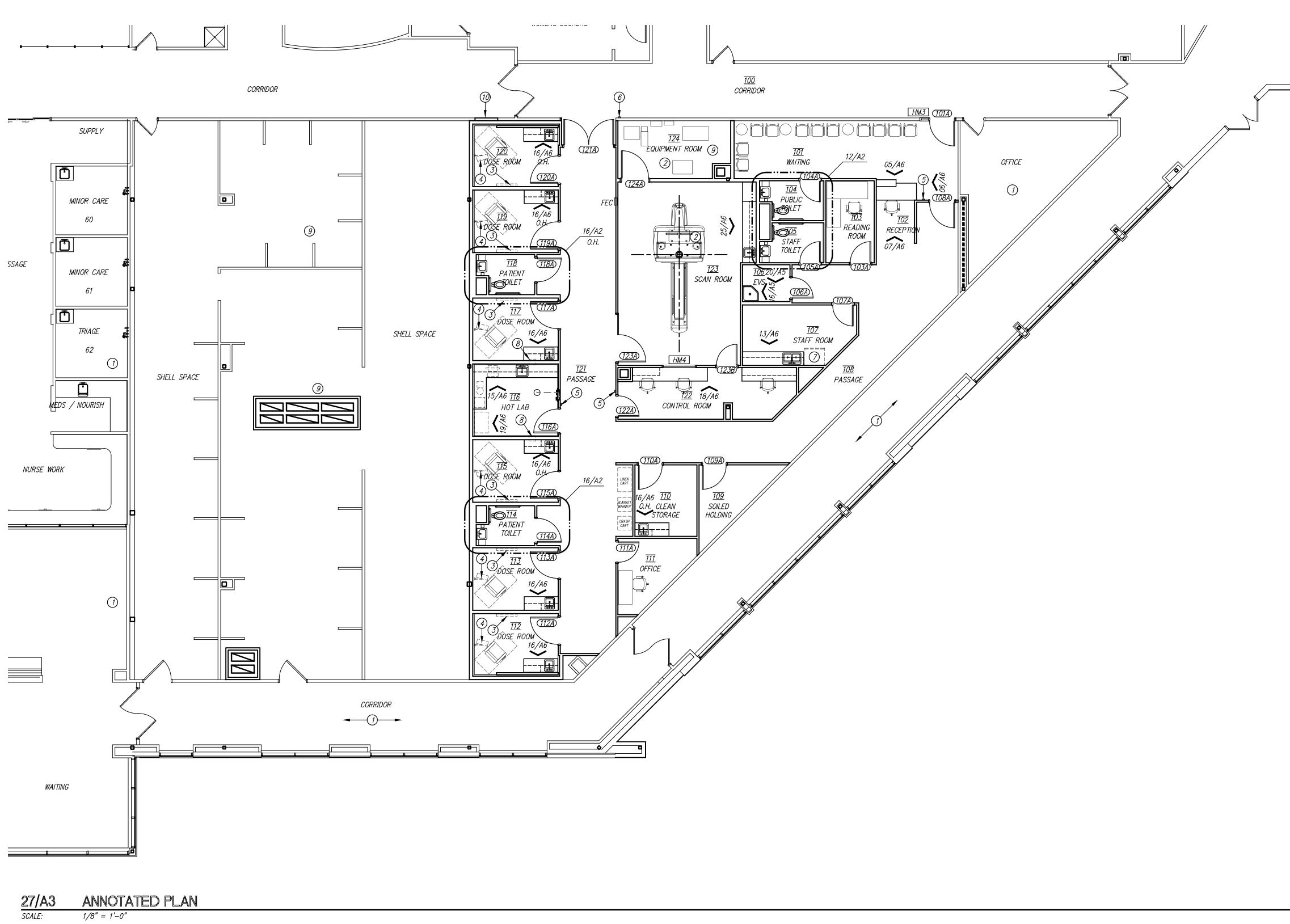


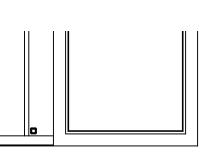
- 1). ALL DIMENSIONS ARE ACTUAL DIMENSIONS TO FACE OF METAL STUDS, OR FACE OF EXISTING WALL FINISH UNLESS NOTED OTHERWISE.
- 2). FIELD VERIFY ALL DIMENSIONS, NEW OR EXISTING, PRIOR TO CONSTRUCTION AND ADJUST WHERE REQUIRED TO PROVIDE A PROPER AND COMPLETE INSTALLATION. NOTIFY THE ARCHITECT OF ANY DISCREPANCIES WITH EXISTING OR NEW CONDITIONS.
- 3). CONTRACTOR SHALL COORDINATE ALL LAYOUT WORK WITH EQUIPMENT MANUFACTURER'S DIMENSIONAL REQUIREMENTS. THIS INCLUDES CONTRACTOR AND OWNER PROVIDED EQUIPMENT.
- 4). * = 3 5/8" MTL. STUDS @ 16" O.C.
- 5). THE STRUCTURAL, MECHANICAL AND ELECTRICAL DRAWINGS ARE SUPPLEMENTARY TO THE ARCHITECTURAL DRAWINGS. SHOULD THERE BE A DISCREPANCY BETWEEN THE ARCHITECTURAL DRAWINGS AND THE CONSULTANT DRAWINGS, SUCH DISCREPANCY IS TO BE BROUGHT TO THE ATTENTION OF THE ARCHITECT AND THE CONTRACTOR SHALL RECEIVE INSTRUCTION PRIOR TO INSTALLATION OR PERFORMANCE OF SAID WORK. ANY WORK PERFORMED IN CONFLICT WITH THE DRAWINGS SHALL BE CORRECTED BY THE CONTRACTOR AT HIS OWN EXPENSE.
- 6). ALL CONSTRUCTION SHALL COMPLY WITH APPLICABLE ACCESSIBILITY CODE REQUIREMENTS. THE CONTRACTOR SHALL BE AWARE OF ALL DIMENSIONALLY CRITICAL AREAS AND COMPLY WITH APPLICABLE STANDARDS. IF THERE ARE ANY DISCREPANCIES, THESE ARE TO BE BROUGHT TO THE ARCHITECTS ATTENTION IMMEDIA TEL Y.
- 7). AT ALL NEW FLOOR DRAIN LOCATIONS, THE SLAB IS TO BE RECESSED AND SLOPED FOR POSITIVE DRAINAGE. UNLESS NOTED OTHERWISE, SLOPE IS TO BE 1/8":1'-0" WITH A 1/4"-3/8" OVERALL RECESS. EXISTING SLABS ARE TO BE CHIPPED OUT TO ACCOMMODATE.
- 8). ALL WALLS ARE TO BE PARTITION TYPE 'P1' UNLESS NOTED OTHERWISE.

KEYED NOTES

- 1 THIS WALL TO RECEIVE (2) LAYERS OF 3/4" LEAD-LINED PLYWOOD WITH 1/2" LEAD SHEET (1" TOTAL LEAD) ON THE ROOM SIDE OF THE WALL UP TO 8'-0" A.F.F. RUN LEAD LINING CONTINUOUSLY WHERE PERPENDICULAR WALLS ABUT. ABOVE 8'-0", INSTALL 2 1/2" HAT CHANNELS. INSTALL 5/8" GYPSUM BOARD ON BOTH OUTSIDE FACES OF THE WALL. REFER TO STRUCTURAL FOR WALL FRAMING.
- (2) THIS WALL TO RECEIVE (2) LAYERS OF 3/4" LEAD-LINED PLYWOOD WITH 1/2" LEAD SHEET (1" TOTAL LEAD) ON THE ROOM SIDE OF THE WALL UP TO 8'-O" A.F.F. RUN LEAD LINING CONTINUOUSLY WHERE PERPENDICULAR WALLS ABUT. ABOVE 8'-0", INSTALL 2 1/2" HAT CHANNELS. INSTALL 5/8" GYPSUM BOARD ON NEW OUTSIDE FACE OF THE WALL. REFER TO STRUCTURAL FOR WALL FRAMING. NEW FRAMING TO RUN PARALLEL ON THE INSIDE OF EXISTING WALL FRAMING.
- (3) THIS WALL TO RECEIVE (2) LAYERS OF 3/4" LEAD-LINED PLYWOOD WITH 1/2" LEAD SHEET (1" TOTAL LEAD) ON THE ROOM SIDE OF THE WALL UP TO 8'-0" A.F.F. RUN LEAD LINING CONTINUOUSLY WHERE PERPENDICULAR WALLS ABUT. ABOVE 8'-0", INSTALL 2 1/2" HAT CHANNELS. INSTALL 3 5/8" FURROUT WALL IN FRONT OF LEAD-LINED WALL FOR PLUMBING CHASE. INSTALL 5/8" GYPSUM BOARD ON NEW OUTSIDE FACE OF THE WALL. REFER TO STRUCTURAL FOR WALL FRAMING.
- (4) THIS FACE OF THIS WALL TO RECEIVE (1) LAYERS OF 5/8" LEAD-LINED GYPSUM BOARD WITH 1/8" LEAD SHEET. RUN LEAD-LINING CONTINUOUS AND WRAP BEHIND ANY MEMBRANE PENETRATIONS WITH LEAD. REFER TO RADIATION PROTECTION SPECIFICATIONS FOR REQUIREMENTS.
- (5) THIS FACE OF THIS WALL TO RECEIVE (1) LAYERS OF 1/2" LEAD-LINED PLYWOOD WITH 1/4" LEAD SHEET. INSTALL 5/8" GYPSUM BOARD OVER THIS. RUN LEAD-LINING CONTINUOUS AND WRAP BEHIND ANY MEMBRANE PENETRATIONS WITH LEAD. REFER TO RADIATION PROTECTION SPECIFICATIONS FOR REQUIREMENTS.
- 6 THIS FACE OF THIS WALL TO RECEIVE (1) LAYERS OF 5/8" LEAD-LINED GYPSUM BOARD WITH 1/16" LEAD SHEET. RUN LEAD-LINING CONTINUOUS AND WRAP BEHIND ANY MEMBRANE PENETRATIONS WITH LEAD. REFER TO RADIATION PROTECTION SPECIFICATIONS FOR REQUIREMENTS.
- ALIGN FINISHES.
- 8 4" SHAFTWALL FRAMING WITH 2 HOUR FIRE RATED CONSTRUCTION FROM THE SLAB TO ROOF STRUCTURE ABOVE. SHAFT SHALL BE SIZED APPROPRIATELY TO CONTAIN INSULATED MECHANICAL DUCTS WITH MIN. 8" CLEARANCE ON ALL SIDES. ALL JOINTS AND PENETRATIONS TO BE SEALED WITH UL RATED SYSTEMS FOR A COMPLETE ASSEMBLY.

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1300 Broadway St, Sufte 1210 Lubbock, Texas 79401 T: 806-589-3340 Registration No: F- 14148 Image: Stration No: F- 14148 Image: Strating No: F-	FINCHER ENGINEERING, LLC TX FIRM #F-16408 5621 114TH ST., SUITE 100 LUBBOCK, TX 79424 PH: 806-701-5109				
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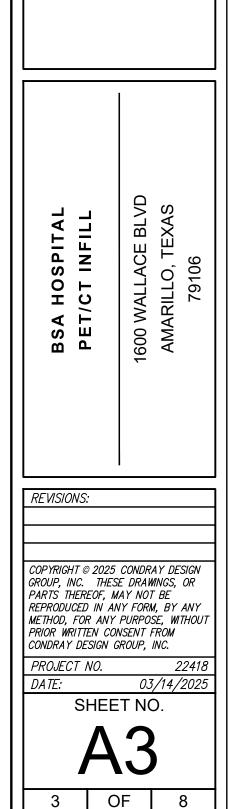




- 1). ON ALL WALLS SCHEDULED TO REMAIN. PATCH ANY EXISTING HOLES, CRACKS, OR OTHERWISE DAMAGED AREAS AND RE-TEXTURE AND PAINT AS SCHEDULED.
- 2). THE STRUCTURAL, MECHANICAL, PLUMBING AND ELECTRICAL DRAWINGS ARE SUPPLEMENTARY TO THE ARCHITECTURAL DRAWINGS. SHOULD THERE BE A DISCREPANCY BETWEEN THE ARCHITECTURAL DRAWINGS AND THE CONSULTANT DRAWINGS, SUCH DISCREPANCY IS TO BE BROUGHT TO THE ATTENTION OF THE ARCHITECT AND THE CONTRACTOR SHALL RECEIVE INSTRUCTION PRIOR TO INSTALLATION OR PERFORMANCE OF SAID WORK. ANY WORK PERFORMED IN CONFLICT WITH THE DRAWINGS SHALL BE CORRECTED BY THE CONTRACTOR AT HIS OWN EXPENSE.
- 3). REFER TO PROJECT MANUAL FOR ROOM FINISH SCHEDULE.
- 4). ALL NEW WALLS TO RECEIVE FULL BATT INSULATION FROM FLOOR TO THE FULL HEIGHT OF THE WALL, INCLUDING ABOVE CEILING.

KEYED NOTES

- (1) NO WORK IN THIS AREA.
- (2) PET/CT EQUIPMENT. REFER TO MPE AND/OR VENDOR DRAWINGS FOR MORE INFORMATION.
- (3) WALL MOUNTED FLAT SCREEN T.V. OWNER FURNISHED, CONTRACTOR INSTALLED. INSTALL MIN. 24"x24" AREA OF 3/4" PLYWOOD BLOCKING IN WALL. COORDINATE EXACT LOCATION WITH OWNER.
- (4) INSTALL 36" HIGH BY 16" WIDE SECTION OF 3/4" IN-WALL BLOCKING STARTING AT 36" A.F.F. FOR WALL MOUNTED BRACKET FOR COMPUTER AND MONITOR TO BE PROVIDED AND INSTALLED BY OTHERS.
- (5) ACCESS CONTROL CARD READER. REFER TO ELECTRICAL.
- (6) ACCESS CONTROL CARD READER CONNECTED TO POWER OPERATOR. REFER TO ELECTRICAL AND DOOR HARDWARE SCHEDULE.
- (7) REFRIGERATOR. OWNER FURNISHED AND INSTALLED.
- (8) 12"x12" LEAD-LINED, STAINLESS-STEEL PASS-THROUGH BOX WITH 1/4" LEAD—LINING.
- (9) CONTRACTOR TO PROVIDE APPROPRIATE TPO SYSTEM DETAILS TO FLASH IN NEW CURBS AND PATCH BACK MATERIALS AS REQUIRED AT NEW ROOF PENETRATIONS.
- (1) INFILL ABANDONED OPENING WITH CRASHRAIL TO MATCH EXISTING FOR A CONTINUOUS RUN.



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CONDRAY

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DESIGN GROU

ARCHITECTURE

& INTERIOR DESIGN

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LUBBOCK, TX 79407

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FINCHER

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Nieman Engineering, LL 1500 Broadway St, Suite 1210

Lubbock, Texas 79401 T: 806-589-3340 TBPE Firm Registration No: F- 14148

NGINEERING, LLC

6



PLAN NORTH

NEW DOOR - REFER TO DOOR SCHEDULE

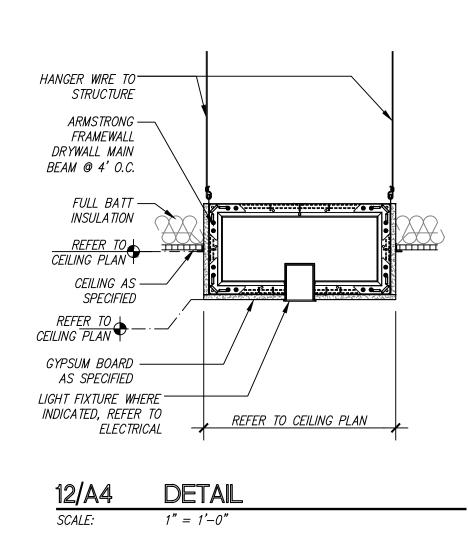
NEW FIRE EXTINGUISHER AS SPECIFIED

FLOOR PLAN LEGEND



WINDOW DESIGNATION - REFER TO FRAME SCHEDULE





- 1). COORDINATE LOCATION OF LIGHT FIXTURES AND HVAC GRILLES WITH CEILING GRID. NOTIFY ARCHITECT OF ANY DISCREPANCIES. IF LAYOUT OR QUANTITIES DIFFER FROM MPE SHEETS AND DISCREPANCIES ARE NOT ADDRESSED PRIOR TO BID, CONTRACTOR SHALL PROVIDE FIXTURES TO COVER THE LARGER QUANTITIES INDICATED.
- 2). EXCEPT FOR CEILING TILES HOUSING DEVICES, DO NOT INSTALL ANY CEILING TILES IN GRID UNTIL AFTER PRÉ-FINAL INSPECTION HAS BEEN PERFORMED AND DEFICIENCIES CERTIFIED AS CORRECTED.
- 3). INSTALL 3 1/2" SOUND BATT INSULATION CONTINUOUSLY ABOVE ALL CEILINGS IN AREA OF WORK, INCLUDING EXISTING CEILINGS WHERE SIMILAR SOUND BATTS DO NOT EXIST.
- 4). CLEAN ALL HVAC GRILLES AND LIGHT FIXTURE LENSES IN AREA OF WORK.
- 5). FIRE SPRINKLER SYSTEM IS TO BE LAID OUT IN ACCORDANCE WITH NFPA 13 AS REQUIRED TO PROVIDE COMPLETE COVERAGE FOR ALL WORK AREAS.
- 6). ALL CEILING MOUNTED DEVICES AND FIXTURES INDICATED ON THIS PLAN ARE SHOWN FOR LOCATION AND COORDINATION ONLY. REFER TO STRUCTURAL, MECHANICAL, ELECTRICAL AND PLUMBING FOR ADDITIONAL CEILING-MOUNTED ITEMS.
- 7). ALL CEILINGS TO BE INSTALLED AT 8'-0" A.F.F. UNLESS NOTED OTHERWISE.
- 8). REFER TO STRUCTURAL, MECHANICAL, ELECTRICAL AND PLUMBING DRAWINGS FOR ADDITIONAL CEILING-MOUNTED ITEMS.

KEYED NOTES

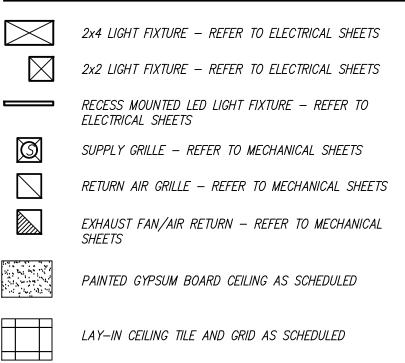
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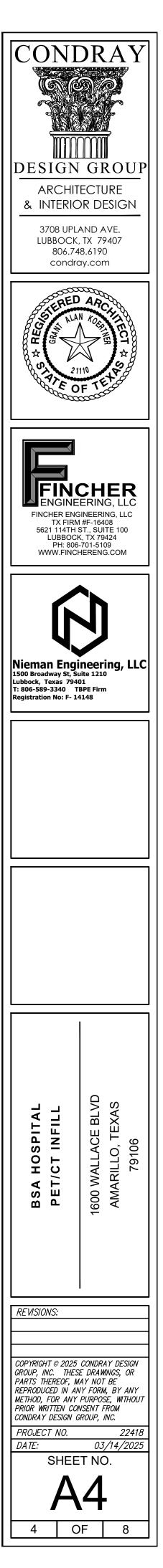
- (1) NO CEILING WORK IN THIS AREA.
- (2) CONTINUE EXISTING CEILING GRID INTO THIS ALCOVE. MATCH EXISTING TILE.
- (3) PAINTED GYPSUM BOARD FURRDOWN AT 7'-6" A.F.F.
- (4) LAY-IN CEILING AT 9'-0" A.F.F.
- (5) CENTER CEILING GRID ON ISO CENTER.
- 6 CEILING MOUNTED INJECTOR REFER TO STRUCTURAL FOR MORE INFORMATION.
- CEILING MOUNTED PATIENT POSITIONING CAMERA REFER TO STRUCTURAL FOR MORE INFORMATION.



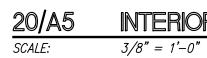
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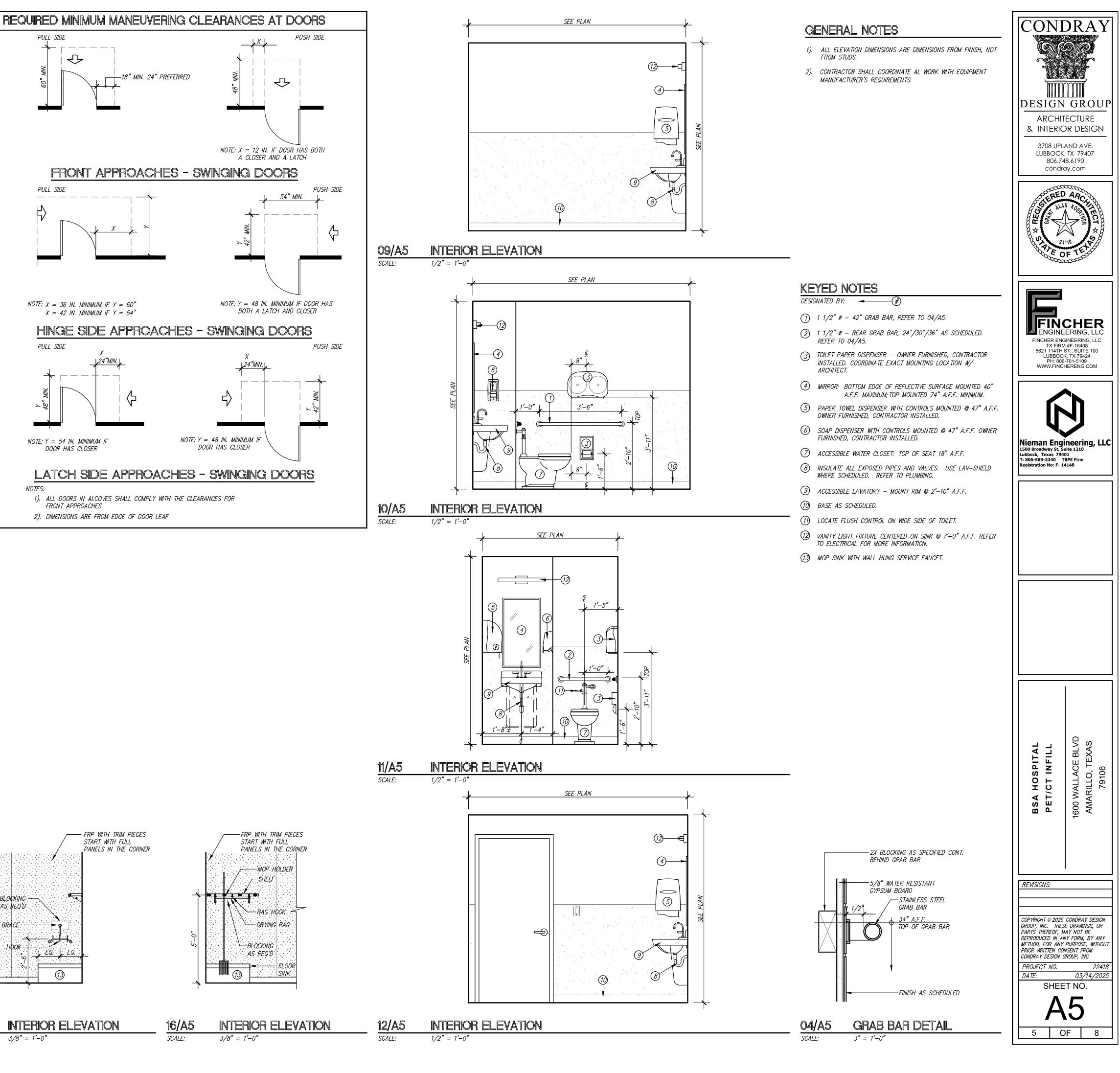


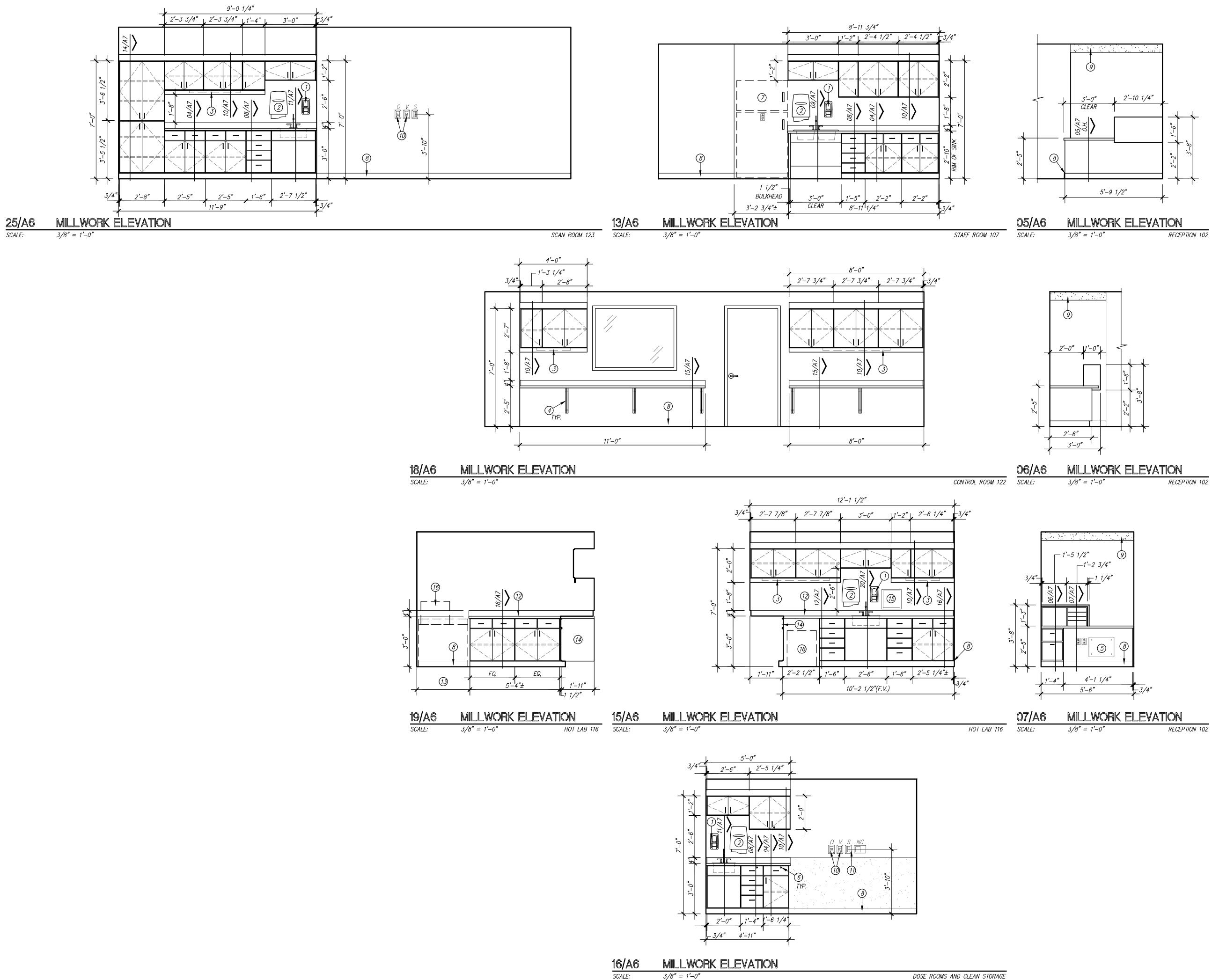


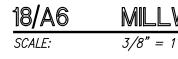


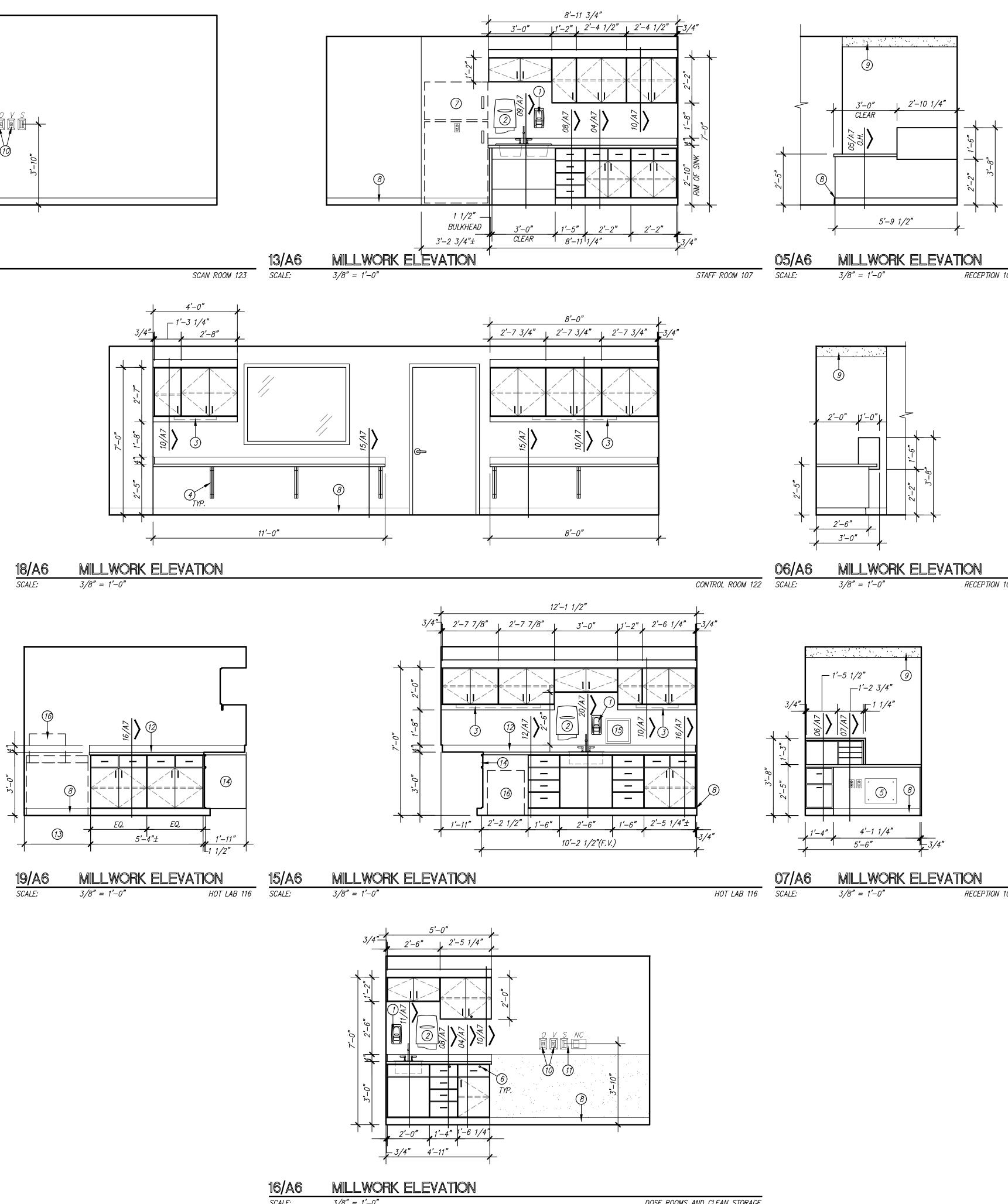
BLOCKING 🗩 AS REQ'D BRACE











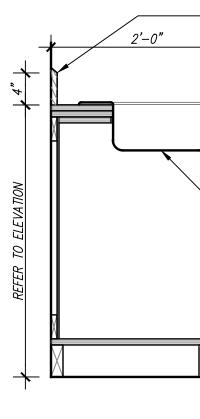
KEYED NOTES

DESIGNATED BY: 🗕 🗍

- (1) SOAP DISPENSER WITH CONTROLS MOUNTED @ 47" A.F.F. OWNER FURNISHED, CONTRACTOR INSTALLED.
- 2 PAPER TOWEL DISPENSER WITH CONTROLS MOUNTED @ 47" A.F.F. OWNER FURNISHED, CONTRACTOR INSTALLED.
- (3) UNDERCABINET LIGHT FIXTURE. REFER TO ELECTRICAL DRAWINGS.
- (4) UNDERCOUNTER RAKKS SUPPORT BRACKET AS SPECIFIED.
- (5) REMOVABLE ACCESS PANEL, FINISH AS SCHEDULED.
- 6 PROVIDE CAM LOCK AS SPECIFIED. TYPICAL FOR ALL LOCATIONS INDICATED WITH SYMBOL.
- (7) REFRIGERATOR. OWNER FURNISHED, CONTRACTOR INSTALLED.
- (8) BASE AS SCHEDULED.
- (9) PAINTED GYPSUM BOARD FURRDOWN.
- 10 MED GAS OUTLETS. REFER TO MPE FOR MORE INFORMATION.
- (1) NURSE CALL. REFER TO MPE FOR MORE INFORMATION.
- (12) STAINLESS STEEL COUNTERTOPS AND BACKSPLASH AS SPECIFIED. (13) FIELD VERIFY SPACE REQUIRED FOR EXISTING EQUIPMENT AND ADJUST MILLWORK LENGTH TO ACCOMMODATE.
- (14) CLOSURE PANEL AT OPEN ALCOVE. OPEN ALCOVE IS FOR OWNER PROVIDED MATERIALS STORAGE CABINET. CONFIRM SIZE OF ALCOVE.
- (15) 12"x12" LEAD-LINED, STAINLESS-STEEL PASS-THROUGH BOX WITH 1/4" LEAD-LINING.
- (16) EQUIPMENT OWNER FURNISHED, OWNER INSTALLED.

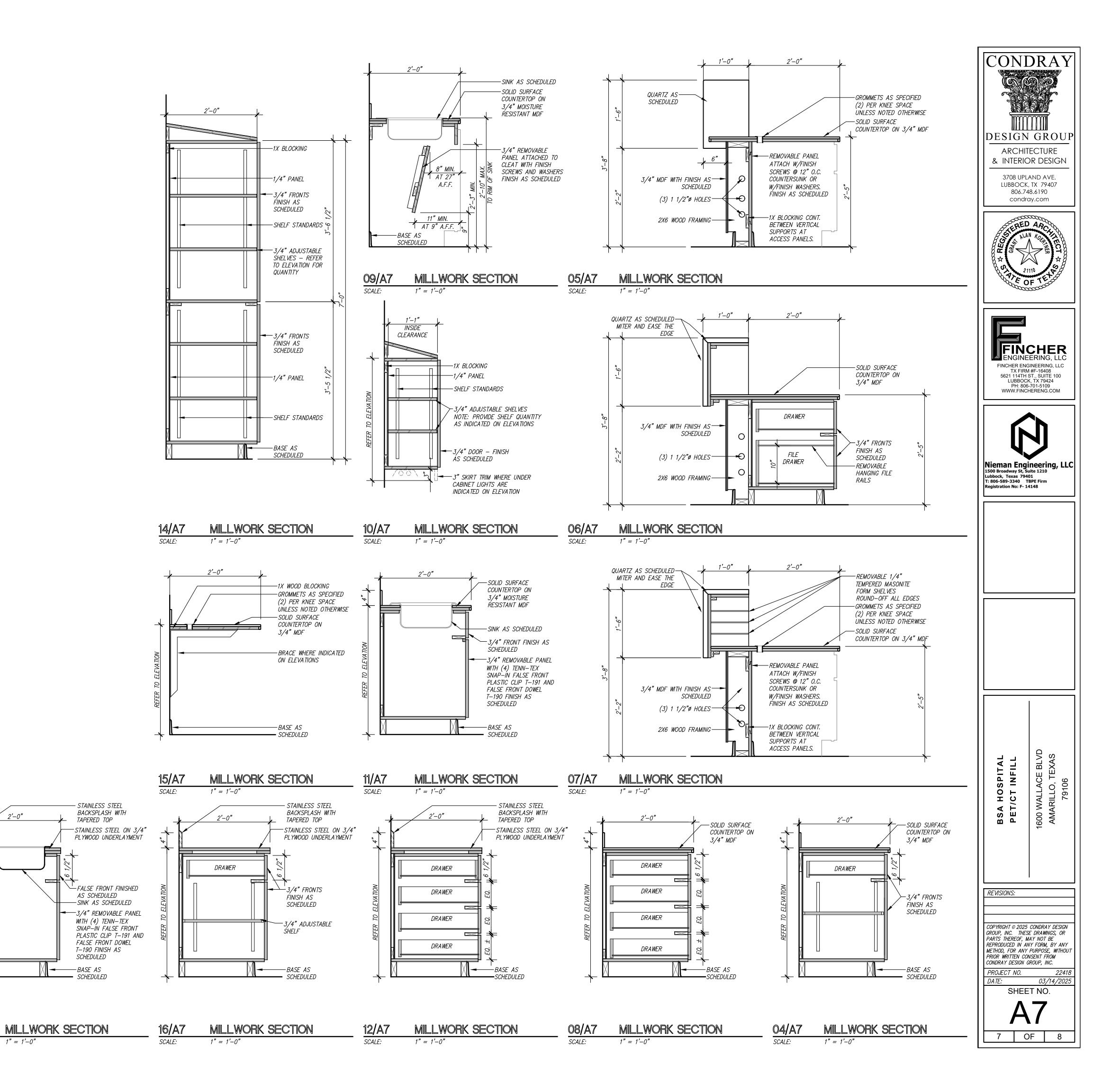
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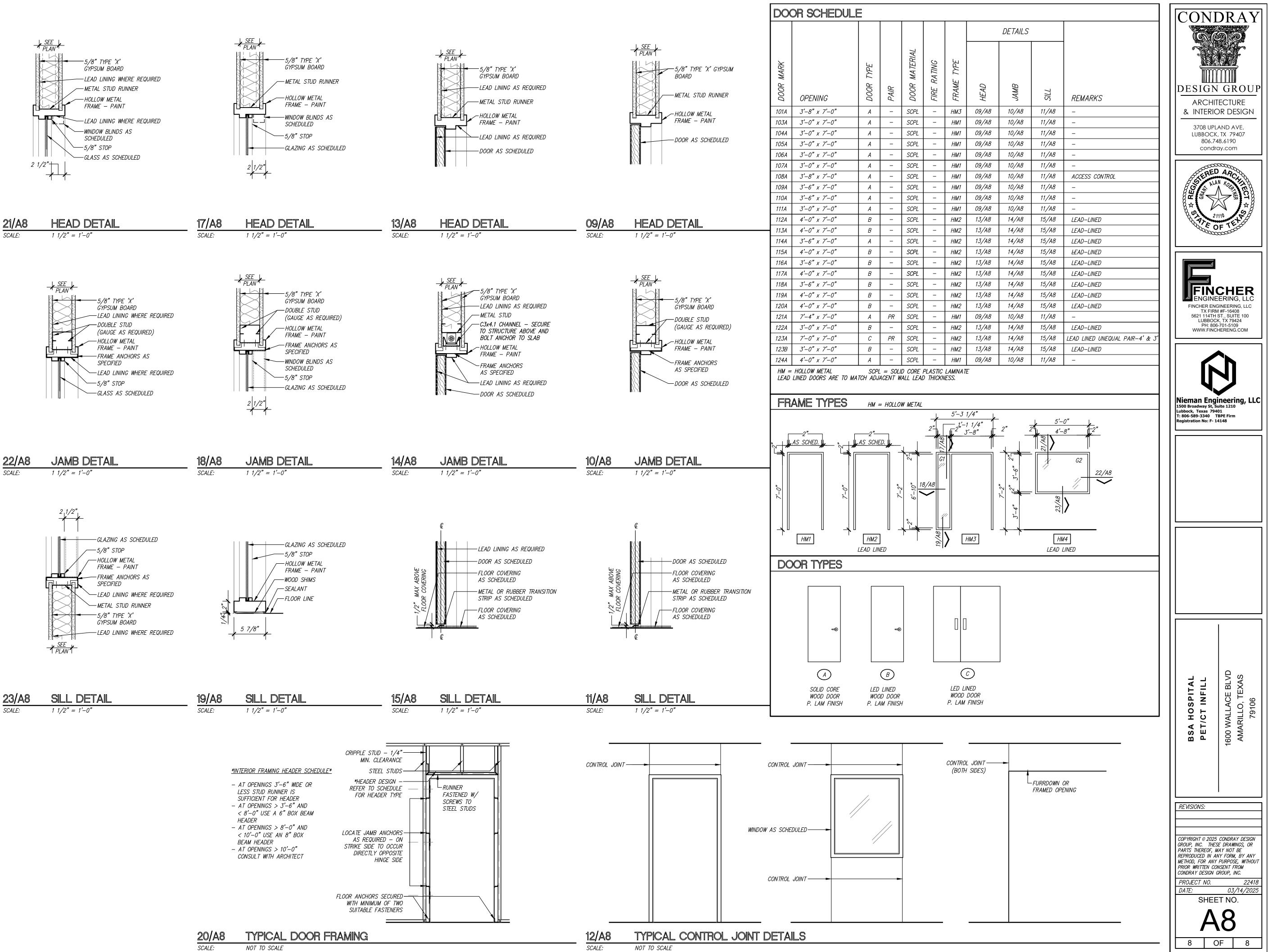
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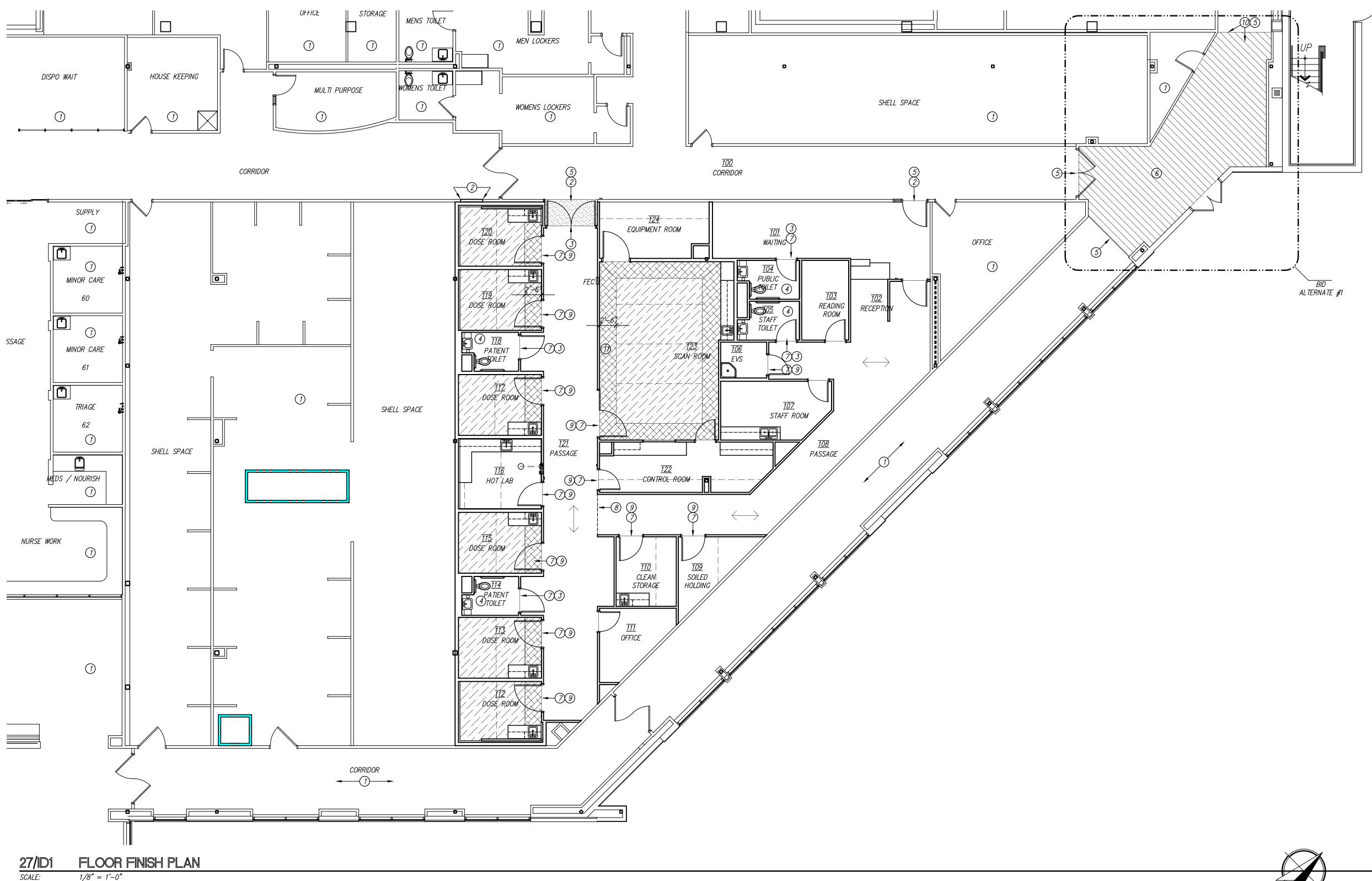


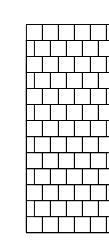
 20/A7
 MILLW

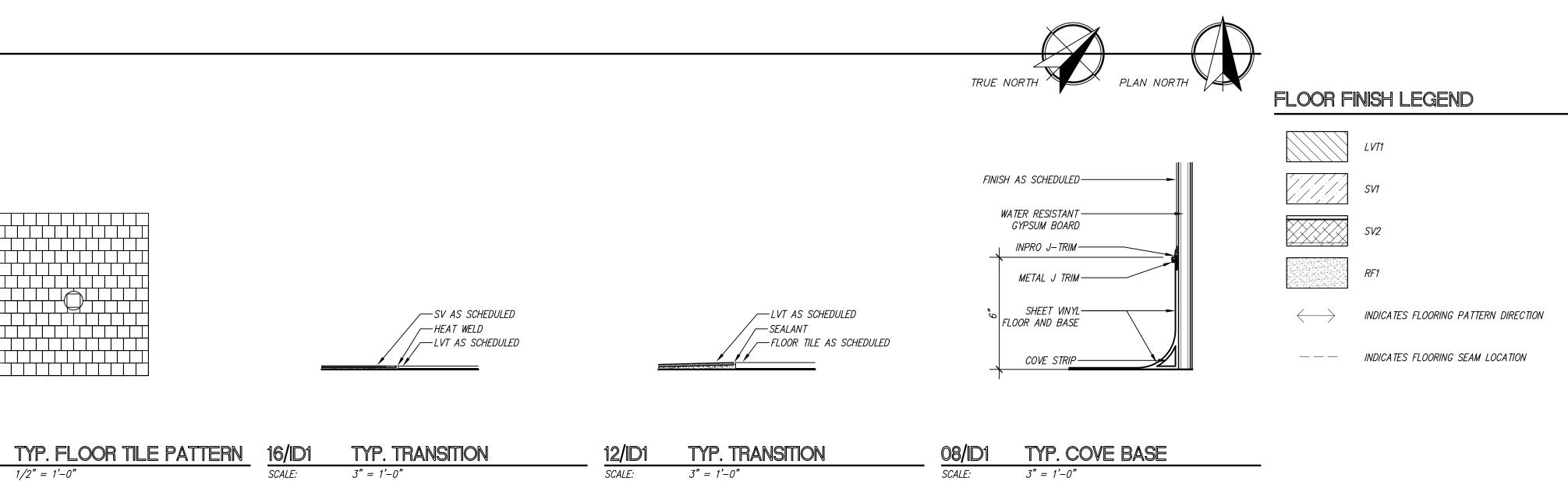
 SCALE:
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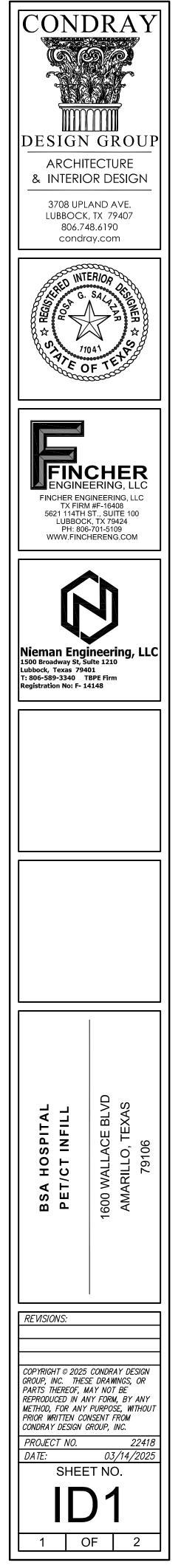


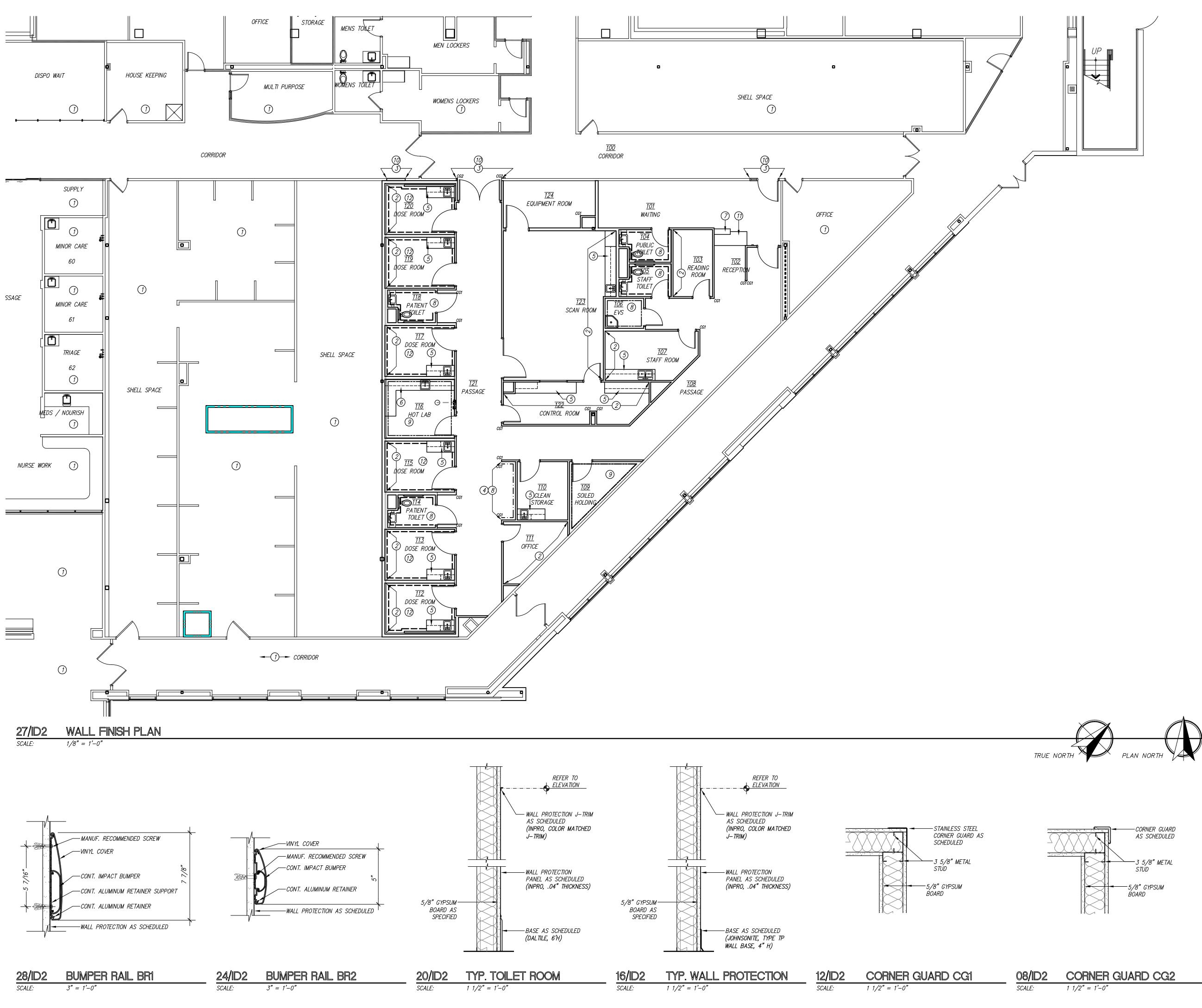


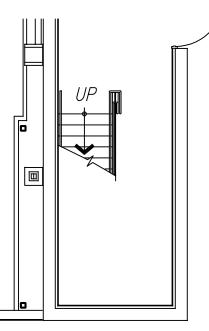
- 1). REFER TO THE PROJECT MANUAL AND FINISH SCHEDULE FOR ADDITIONAL INFORMATION. SHOULD THERE BE A DISCREPANCY BETWEEN THE DOCUMENTS, SUCH DISCREPANCY IS TO BE BROUGHT TO THE ATTENTION OF THE ARCHITECT AND THE CONTRACTOR SHALL RECEIVE INSTRUCTION PRIOR TO INSTALLATION OR PERFORMANCE OF SAID WORK. WORK PERFORMED IN CONFLICT WITH THE DRAWINGS OR SCHEDULE SHALL BE CORRECTED BY THE CONTRACTOR AT THEIR OWN EXPENSE.
- 2). ALL WORK IS TO BE PERFORMED ACCORDING TO MANUFACTURER'S RECOMMENDED METHODS.
- 3). FIELD VERIFY ALL DIMENSIONS NEW OR EXISTING PRIOR TO CONSTRUCTION AND ADJUST WHERE REQUIRED TO PROVIDE A PROPER AND COMPLETE INSTALLATION. NOTIFY THE ARCHITECT OF ANY DISCREPANCIES WITH EXISTING OR NEW CONDITIONS.
- 4). REPAIR EXISTING WALLS AND FLOORS AS SCHEDULED TO REMAIN AND REFINISH AS INDICATED.
- 5). PROVIDE SMOOTH TRANSITION WHERE NEW CONSTRUCTION INTERSECTS WITH EXISTING CONDITIONS. IN ALL AREAS ADJACENT TO NEW CONSTRUCTION, REPAIR/REFINISH AND INSTALL NEW WALL BASE, PAINT, ETC. WHERE NECESSARY TO AVOID PATCHES OR INCONSISTENT FINISHES.
- 6). INCLUDE ALL TRIM, INSIDE/OUTSIDE CORNER, CONNECTOR, AND END CAP PIECES FOR COMPLETE INSTALLATION OF FINISHES.
- 7). A PRE-INSTALLATION MEETING WITH THE ARCHITECT IS REQUIRED PRIOR TO THE INSTALLATION OF TILE, VINYL FLOORING, AND WALL PROTECTIVE PRODUCTS.
- 8). INSTALL FLOORING TO WALL UNDER OPEN MILLWORK.
- 9). ALL TRANSITIONS BETWEEN DIFFERENT FLOORING TYPES ARE TO BE LEVEL AS INDICATED. SEE DETAIL 16/ID1 AND 12/ID1.
- 10). ALL TILED SURFACES TO BE CENTERED IN SPACE OR ADJUSTED TO AVOID SMALL CUT TILES.

KEYED NOTES

- DESIGNATED BY: 🗕 🕌
- (1) NO WORK IN THIS AREA.
- (2) REPAIR/PATCH FLOOR FINISHES DISTURBED IN THIS AREA AS SCHEDÚLED OR TO MATCH EXISTING.
- (3) SEAL DISSIMILAR FLOOR MATERIALS WHEN TRANSITIONING AT THIS LOCATION.
- (4) COORDINATE TILE PATTERN WITH FLOOR DRAIN LOCATION. SEE 20/ID1.
- 5 PROVIDE A SMOOTH TRANSITION BETWEEN NEW AND EXISTING MATERIALS AT THIS LOCATION.
- (6) AS PART OF BID ALTERNATE #1, INCLUDE PRICE TO REPLACE
- FLOORING AND WALL BASE IN THIS AREA TO BE LVTI AND WB1.
- (7) FLOAT FLOOR AT THIS LOCATION SO DISSIMILAR MATERIALS ARE FLUSH.
- (8) TRANSITION PATTERN DIRECTION AT THIS LOCATION AS INDICATED WITH FLOOR PATTERN DIRECTION ARROWS.
- (9) HEAT WELD DISSIMILAR FLOOR MATERIALS AT TRANSITION AS SCHEDULED. SEE 16/ID1.
- 10 PATTERN / GRAIN DIRECTION TO MATCH EXISTING IN THIS AREA.
- (1) BORDER TO BE EQUAL DIMENSION ON ALL SIDES WITH MITERED CORNERS.







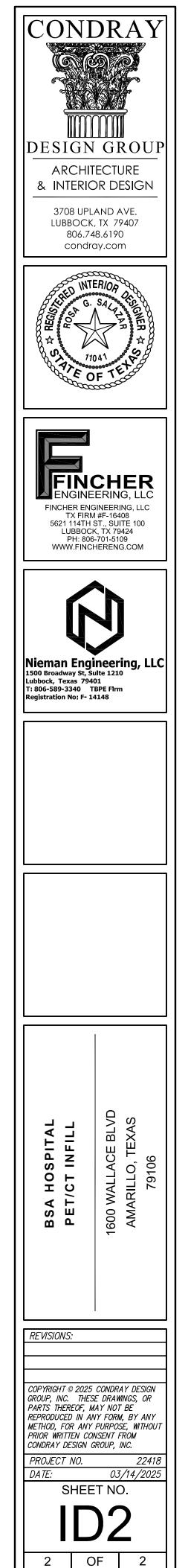
- 1). REFER TO THE PROJECT MANUAL AND FINISH SCHEDULE FOR ADDITIONAL INFORMATION. SHOULD THERE BE A DISCREPANCY BETWEEN THE DOCUMENTS, SUCH DISCREPANCY IS TO BE BROUGHT TO THE ATTENTION OF THE ARCHITECT AND THE CONTRACTOR SHALL RECEIVE INSTRUCTION PRIOR TO INSTALLATION OR PERFORMANCE OF SAID WORK. WORK PERFORMED IN CONFLICT WITH THE DRAWINGS OR SCHEDULE SHALL BE CORRECTED BY THE CONTRACTOR AT THEIR OWN EXPENSE.
- 2). ALL WORK IS TO BE PERFORMED ACCORDING TO MANUFACTURER'S RECOMMENDED METHODS.
- 3), FIELD VERIFY ALL DIMENSIONS NEW OR EXISTING PRIOR TO CONSTRUCTION AND ADJUST WHERE REQUIRED TO PROVIDE A PROPER AND COMPLETE INSTALLATION. NOTIFY THE ARCHITECT OF ANY DISCREPANCIES WITH EXISTING OR NEW CONDITIONS.
- 4). REPAIR EXISTING WALLS AND FLOORS AS SCHEDULED TO REMAIN AND REFINISH AS INDICATED.
- 5). PROVIDE SMOOTH TRANSITION WHERE NEW CONSTRUCTION INTERSECTS WITH EXISTING CONDITIONS. IN ALL AREAS ADJACENT TO NEW CONSTRUCTION, REPAIR/REFINISH AND INSTALL NEW WALL BASE, PAINT, ETC. WHERE NECESSARY TO AVOID PATCHES OR INCONSISTENT FINISHES.
- 6). INCLUDE ALL TRIM, INSIDE/OUTSIDE CORNER, CONNECTOR, AND END CAP PIECES FOR COMPLETE INSTALLATION OF FINISHES.
- 7). A PRE-INSTALLATION MEETING WITH THE ARCHITECT IS REQUIRED PRIOR TO THE INSTALLATION OF TILE, VINYL FLOORING, AND WALL PROTECTIVE PRODUCTS.

KEYED	NOTES

- DESIGNATED BY: -----(#) (1) NO WORK IN THIS AREA.
- (2) PAINT P2 AS SCHEDULED AT THIS LOCATION.
- 3 REPAIR/PATCH WALL FINISHES DISTURBED IN THIS AREA AS SCHEDULED OR TO MATCH EXISTING.
- (4) TOP OF BUMPER RAIL BR1 TO BE INSTALLED AT 36" AFF AND TOP OF BUMPER RAIL BR2 TO BE INSTALLED AT 10"AFF AT THIS LOCATION. SEE 24/ID2 AND 28/ID2.
- 5 WORKSURFACE AND 4"H BACKSPLASH TO BE SOLID SURFACE MATERIAL SSM1 AS SCHEDULED AT THIS LOCATION.
- (6) WORKSURFACE AND 4"H BACKSPLASH TO BE STAINLESS STEEL
- SS1 AS SCHEDULED AT THIS LOCATION. (7) TRANSACTION COUNTER TO BE QSM1 AS SCHEDULED.
- (8) INSTALL WALL PROTECTION WITH TOP OF TRIM CAP AT APPROXIMATELY 50-1/4" AFF IN THIS AREA AS SCHEDULED.
- (9) INSTALL WALL PROTECTION FULL HEIGHT IN THIS AREA AS SCHEDULED.
- 10 PROVIDE A SMOOTH TRANSITION BETWEEN NEW AND EXISTING MATERIALS AT THIS LOCATION.
- (1) WORKSURFACE TO BE SOLID SURFACE MATERIAL SSM2 AT THIS LOCA TION.
- (12) INSTALL WALL PROTECTION WITH TOP OF TRIM CAP TO ALIGN WITH TOP OF BACKSPLASH ON MILLWORK IN THIS AREA AS SCHEDULED.

WALL FINISH LEGEND

	WP1
	WP2
· <u> </u>	WP1 + BR1 + BR2
<i>cc</i> <u>1</u>	CG1
C62	CG2



MECHANICAL GENERAL NOTES

THESE DRAWINGS HAVE BEEN PRODUCED WITH LIMITED INFORMATION ABOUT THE EXISTING BUILDING AND THE EXISTING MECHANICAL

SYSTEMS, THE EXISTING INFORMATION MAY BE LIMITED TO SITE SURVEYS PERFORMED BY THE ENGINEER AND/OR EXISTING AS-BUILT DRAWINGS. THE EXISTING MECHANICAL SYSTEMS SHOWN ON THE DRAWINGS ARE DETAILED WITH THE BEST ACCURACY KNOWN BY THE ENGINEER AT THE TIME OF THE PROJECT, AND MAY NOT REFLECT THE ACTUAL EXISTING CONDITIONS ON SITE. THE CONTRACTOR SHALL ADJUST THE NEW INSTALLATION AS NEEDED TO ADAPT TO THE ACTUAL CONDITIONS, AND SHALL NOTIFY THE ARCHITECT OF ANY MAJOR DISCREPANCIES. VERIFY THE EXACT LOCATION OF ALL EXISTING EQUIPMENT, DUCTWORK, PIPING, DIFFUSERS, AND GRILLES AT JOBSITE. CONTRACTOR SHALL WALK THE SITE AND BECOME FAMILIAR WITH ALL EXISTING SYSTEMS AND INSTALLATIONS. CONTRACTOR SHALL TAKE CARE TO PROTECT ALL OPERATIONAL SYSTEMS. ANY EXISTING SYSTEMS THAT ARE DAMAGED DURING CONSTRUCTION SHALL BE REPAIRED OR

REPLACED AT THE EXPENSE OF THE CONTRACTOR. FOR ALL ITEMS SHOWN TO BE REMOVED, REMOVE ALL ASSOCIATED ITEMS INCLUDING HANGERS, SUPPORTS, DUCT RUNOUTS, PIPE RUNOUTS, ELECTRICAL WIRING, CONTROL WIRING, ECT. THE OVERALL INTENT OF THE DEMOLITION SHALL BE TO CLEAN UP THE EXISTING

AREA AS MUCH AS POSSIBLE OF OLD ITEMS THAT ARE NO LONGER BEING UTILIZED FOR THE NEW SCOPE OF WORK. CONTRACTOR SHALL COORDINATE ALL MECHANICAL DISCONNECTIONS AND INTERRUPTIONS WITH BUILDING OWNER ANY SHUT DOWNS OF EXISTING SYSTEMS THAT ARE REQUIRED SHALL BE COORDINATE WITH THE BUILDING OWNER MINIMUM 7 DAYS IN ADVANCE, AND SHALL

BE DONE TO MINIMIZE THE DISTURBANCE TO THE BUILDING OCCUPANTS. 5. VERIFY EXACT SCHEDULE AND PHASING OF PROJECT WITH THE ARCHITECT.

6. THE BUILDING OWNER SHALL RETAIN THE FULL RIGHTS OF SALVAGE FOR ALL MECHANICAL EQUIPMENT INDICATED TO BE REMOVED. THE CONTRACTOR SHALL COORDINATE WITH OWNER ON ALL SALVAGED ITEMS. THE CONTRACTOR SHALL DELIVER THESE PIECES OF EQUIPMENT TO A LOCATION AS DIRECTED BY THE OWNER. FOR ALL ITEMS THAT THE OWNER DOES NOT SALVAGE, THE CONTRACTOR SHALL DISPOSE OF OFF SITE AS REQUIRED.

SEAL PENETRATIONS THROUGH FLOORS, WALLS, CEILINGS AND ROOFS WHERE MECHANICAL COMPONENTS ARE REMOVED AND WHERE THE EXISTING PENETRATION IS NOT USED FOR THE NEW INSTALLATION. REPAIR DAMAGED SURFACES TO MATCH ADJACENT AREAS OR AS INDICATED ON THE ARCHITECTURAL DRAWINGS. INSTALL PERMANENT CAPS WHERE DUCTWORK AND PIPING IS REMOVED AND THE EXISTING TAPS ARE NOT USED FOR THE NEW INSTALLATION.

INSPECT EXISTING EQUIPMENT TO REMAIN TO VERIFY THAT EQUIPMENT IS OPERATING PROPERLY. NOTIFY OWNER OF DAMAGED AND/OR MALFUNCTIONING COMPONENTS.

. REMOVAL. RECOVERY, RECYCLING, AND DISPOSAL OF REFRIGERANT, CONTAINED IN ANY EXISTING MECHANICAL EQUIPMENT TO BE REMOVED, SHALL BE PERFORMED IN STRICT ACCORDANCE WITH CURRENT EPA GUIDELINES.

10. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO REVIEW THESE PLANS AND SPECIFICATIONS IN ADDITION TO THE RELATED PLUMBING, ELECTRICAL, STRUCTURAL, ARCHITECTURAL, AND CIVIL ENGINEERING DRAWINGS TO BECOME FAMILIAR WITH THE ENTIRE SCOPE OF THE PROJECT. IN ADDITION, THE CONTRACTOR MUST COORDINATE WITH THE OWNER OR OWNER'S REPRESENTATIVE TO FULLY UNDERSTAND ALL REQUIREMENTS WHICH MAY NOT BE SPECIFIED HEREIN AND WHICH THE OWNER MAY CONSIDER PART OF THIS CONTRACT. DURING THE COURSE OF CONSTRUCTION, IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO WORK CLOSELY WITH ALL ACCOMPANYING CONTRACTORS AND TRADESMEN IN ORDER TO ENSURE A SMOOTH RUNNING AND CAREFULLY COORDINATED INSTALLATION.

1. ALL WORK SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF ALL APPLICABLE CODES AND REGULATIONS INCLUDING, BUT NOT LIMITED TO, NATIONAL, CITY, STATE, AND ANY LOCAL ORDINANCES WHICH MAY BE IN EFFECT. ALL MATERIALS, INSTALLATION PROCEDURES, AND SYSTEM LAYOUTS SHALL BE APPROVED BY ALL APPLICABLE CODE ENFORCEMENT AUTHORITIES HAVING JURISDICTION, AND IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO PAY FOR ALL NECESSARY PERMITS AND APPROVALS FOR THIS WORK

12. THE CONTRACTOR SHALL PROVIDED ALL NECESSARY COMPONENTS FOR A COMPLETE AND FULLY OPERATIONAL SYSTEM FOR THE BUILDING OWNER, MATERIALS, EQUIPMENT OR LABOR NOT INDICATED, BUT WHICH CAN BE REASONABLY INFERRED TO BE NECESSARY FOR A COMPLETE INSTALLATION SHALL BE PROVIDED. THE DRAWINGS AND SPECIFICATIONS DO NOT UNDERTAKE TO INDICATE EVERY ITEM OF MATERIAL, EQUIPMENT OR LABOR REQUIRED TO PRODUCE A SAFE, COMPLETE AND PROPERLY OPERATING SYSTEM.

13. THE DRAWING SHEETS SHALL BE PRINTED USING THE CORRECT PAPER SIZE IN ORDER FOR ANY SCALED ITEMS TO BE ACCURATE. HOWEVER, THE CONTRACTOR SHALL NOT RELY ON THE SCALED DRAWINGS FOR EXACT MEASUREMENTS. THE LOCATIONS, ARRANGEMENT AND EXTENT OF EQUIPMENT, PIPING, DUCTWORK, AND ITEMS RELATED TO THE INSTALLATION OF THE MECHANICAL WORK SHOWN ARE APPROXIMATE. THE DRAWINGS ARE DIAGRAMMATIC IN NATURE.

14. ANY DISCREPANCIES OR INADEQUACIES WITHIN THESE BID DOCUMENTS OR BETWEEN THESE BID DOCUMENTS AND THE RELATED PLUMBING, FIRE PROTECTION, ELECTRICAL, STRUCTURAL, ARCHITECTURAL, INTERIOR, AND CIVIL ENGINEERING DRAWINGS, OR BETWEEN THESE BID DOCUMENTS AND FIELD CONDITIONS MUST BE BROUGHT TO THE ATTENTION OF THE ARCHITECT. SHOULD THE CONTRACTOR REQUIRE FURTHER CLARIFICATION, AN RFI SHALL BE SUBMITTED FOR CLARIFICATION. WHERE CONFLICTS DO EXIST, THE PROJECT ENGINEER OF RECORD, THROUGH THE ARCHITECT, SHALL HAVE SOLE DISCRETION AND RIGHT TO PROVIDE INTERPRETATION OF INTENT OF THE CONTRACT DOCUMENTS AS REQUIRED. THIS INTERPRETATION SHALL SERVE TO DIRECT THE CONTRACTOR IN ACCORDANCE WITH THE IMPLIED INTENT OF THE CONSTRUCTION DOCUMENTS WITHOUT ADDITIONAL COST TO THE PROJECT.

15. THE CONTRACTOR SHALL PROVIDE THE BUILDING OWNER WITH A COMPLETE SET OF "AS BUILT" DRAWINGS SHOWING ALL FIELD MODIFICATIONS THAT DEVIATE FROM THE CONSTRUCTION SET OF PLANS AT THE COMPLETION OF THE PROJECT.

16. DURING CONSTRUCTION, THE CONTRACTOR SHALL PROVIDE ALL MECHANICAL UNITS WITH NEW AIR FILTERS THROUGHOUT THE CONSTRUCTION DURATION TO PROTECT THE EQUIPMENT FROM DEBRIS. PROVIDE A NEW SET OF FILTERS UPON TESTING AND BALANCING, AND ANOTHER NEW SET OF FILTERS FOR OWNER'S FIRST FILTER CHANGE AFTER OCCUPANCY.

17. DURING CONSTRUCTION, ALL OPEN ENDED DUCTS AND PIPES SHALL BE COVERED TO PREVENT DEBRIS FROM GETTING INSIDE. THE CONTRACTOR SHALL ALSO PROVIDE TEMPORARY HEATING INSIDE THE BUILDING IF REQUIRED TO AVOID FREEZING OF WATER PIPING SYSTEMS

18. HANDLE AND STORE MATERIALS IN ACCORDANCE WITH MANUFACTURER'S AND SUPPLIER'S RECOMMENDATIONS AND IN A MANNER TO PREVENT DAMAGE TO MATERIALS DURING STORAGE AND HANDLING. REPLACE DAMAGED MATERIALS AS NEEDED AT NO ADDITIONAL COST TO THE OWNER. EQUIPMENT AND MATERIALS SHALL NOT BE INSTALLED UNTIL SUCH TIME AS THE ENVIRONMENTAL CONDITIONS OF THE JOB SITE ARE SUITABLE TO PROTECT THE EQUIPMENT OR MATERIALS. EQUIPMENT OR MATERIALS DAMAGED, OR WHICH ARE SUBJECTED TO THESE ELEMENTS. ARE UNACCEPTABLE AND SHALL BE REMOVED FROM THE PREMISES AND REPLACED.

19. ORDER OF PRECEDENCE SHALL BE OBSERVED IN LAYING OUT THE PIPE, DUCTWORK, MATERIAL, AND CONDUIT IN ORDER TO FIT THE MATERIAL INTO THE SPACE ABOVE THE CEILING AND IN THE CHASES AND WALLS. THE FOLLOWING ORDER SHALL GOVERN TING THE VISUAL APPEARANCE OF THE INSIDE OF THE BUILDING SUCH AS LIGHTING FIXTURES, DIFFUSERS, GRILLES, 1 ITEMS AFE

OUTLETS PANELBOARDS FTC. COORDINATE ALL ITEMS TO AVOID CONFLICTS AT THE SITE 2. LINES REQUIRING GRADE TO FUNCTION SUCH AS SEWERS, ROOF DRAINS AND CONDENSATE DRAINS.

3. LARGE DUCTS AND PIPES WITH CRITICAL CLEARANCES. 4. FIRE SPRINKLER LINES, CONDUIT, WATER LINES, AND OTHER LINES WHOSE ROUTING IS NOT CRITICAL AND WHOSE FUNCTION WOULD NOT BE IMPAIRED BY BENDS AND OFFSETS.

20. ROUTE DUCTS AND PIPES PARALLEL AND PERPENDICULAR TO THE BUILDING STRUCTURE UNLESS OTHERWISE SHOWN ON PLANS. INSTALL ALL DUCTS AND PIPING AS HIGH AS POSSIBLE WITHIN THE AVAILABLE SPACE. MECHANICAL EQUIPMENT, DUCTS, AND PIPES SHALL BE INDEPENDENTLY SUPPORTED FROM THE BUILDING STRUCTURE. INSTALL DUCTS AND PIPES TO ALLOW FOR THE REMOVAL OF ALL CEILING TILES. REFER TO ARCHITECTURAL REFLECTED CEILING PLAN FOR LOCATION OF ALL CEILING MOUNTED AIR DISTRIBUTION DEVICES AND LIGHT FIXTURES. COORDINATE AS REQUIRED TO AVOID CONFLICTS.

21. LOCATE ALL THERMOSTATS, HUMIDISTATS, CONTROLLERS, AND SENSORS AT 48" A.F.F. UNLESS NOTED OTHERWISE. MOUNT AT MINIMUM OF SIX INCHES FROM WALL CORNERS, COORDINATE THE MOUNTING LOCATIONS WITH ARCHITECT PRIOR TO INSTALLATION, PROVIDE LABEL AT EACH THERMOSTAT INDICATED THE UNIT MARK. MECHANICAL CONTRACTOR TO PROVIDE AND INSTALL ALL THERMOSTATS AND INSTALL ALL THERMOSTAT WIRING. ELECTRICIAN TO PROVIDE BACK BOX WITH CONDUIT UP TO ACCESSIBLE CEILING AT ALL THERMOSTAT/SENSOR LOCATIONS

22. MAINTAIN MINIMUM 25'-0" SEPARATION BETWEEN OUTSIDE AIR INTAKES AND ALL EXHAUST FANS, FLUES, AND PLUMBING VENTS. 23. PROVIDE P-TRAP AND CONDENSATE DRAIN LINE AT ALL UNITS, REFER TO DETAILS AND SPECIFICATIONS. CONDENSATE DRAINS SHALL BE ROUTED TO THE NEAREST APPROVED MOP SINK, FLOOR SINK, FLOOR DRAIN, OR OTHER APPROVED RECEPTOR WITH AN INDIRECT

CONNECTION AS SHOWN ON PLANS. CONDENSATE SHALL NOT BE ALLOWED TO DRAIN ONTO ANY WALKWAY AREA THAT WOULD CAUSE A NUISANCE. 24. REFRIGERANT PIPING IS SHOWN FOR DIAGRAMMATIC PURPOSES ONLY. CONTRACTOR SHALL COORDINATE EXACT ROUTING OF PIPING AT

JOBSITE. PROVIDE ALL REQUIRED OFFSETS AND ELBOWS AS REQUIRED FOR A COMPLETE OPERATIONAL SYSTEM. THE CONTRACTOR SHALL OBSERVE THE UNIT MANUFACTURER'S MAXIMUM LINE LENGTH REQUIREMENTS. 25. CONTRACTOR SHALL FIELD VERIFY EXACT ROUTING OF DUCTWORK AT JOBSITE WITH ALL FIELD CONDITIONS PRIOR TO DUCT

FABRICATION. ROUTE DUCTS AS REQUIRED, PROVIDE OFFSETS AS REQUIRED, AND CHANGE DUCT SIZES IF REQUIRED WHILE MAINTAINING EQUAL FREE AREA IN DUCT. CONTRACTOR SHALL UTILIZE THE STRAIGHTEST DUCT ROUTING PATH POSSIBLE TO MINIMIZE UNNECESSARY PRESSURE DROP WITHIN THE SYSTEM.

26. WHEREVER THE MANUAL BALANCING DAMPERS ARE RENDERED INACCESSIBLE BEHIND NON REMOVABLE CEILINGS OR FURRINGS, OR OTHER CONSTRUCTION THAT IS NOT EASILY REMOVABLE TO PERMIT ACCESS TO THE DAMPERS, THE DAMPERS SHALL BE EQUAL TO YOUNG REGULATOR NO. 1200 RIGHT ANGLE WORM GEAR REGULATOR, FLEX SHAFT, AND 301-FS CONCEALED DAMPER REGULATOR WITH PRIMER COVER PLATE FOR FIELD PAINTING TO MATCH CEILING.

27. ALL DUCT DIMENSIONS SHOWN ON DRAWINGS ARE CLEAR INSIDE DIMENSIONS. NO ALLOWANCE HAS BEEN MADE FOR INTERNAL LINER OR EXTERNAL WRAP.

28. ALL DUCT AND PIPE PENETRATIONS THROUGH WALLS, CEILINGS, FLOORS, AND ROOFS SHALL BE FULLY SEALED APPROPRIATELY. INSTALL SLEEVES FOR PIPING PENETRATIONS FOR RATED WALLS AND FLOORS. INSTALL CHROME PLATED ESCUTCHEONS FOR PIPING PENETRATIONS OF WALLS, CEILINGS, AND FLOORS THAT ARE OPENLY VISIBLE TO BUILDING OCCUPANTS.

29. ALL MECHANICAL EQUIPMENT SHALL BE INSTALLED PER THE MANUFACTURE'S INSTRUCTIONS WITH PROPER SUPPORTS OR MOUNTING DEVICES. MAINTAIN MANUFACTURER'S RECOMMENDED SERVICE CLEARANCES AROUND EQUIPMENT AT A MINIMUM. PROVIDE VIBRATION ISOLATION FOR ALL MOVING PIECES OF EQUIPMENT, DO NOT ROUTE PIPING, DUCTWORK, CONTROL WIRE, ETC, THROUGH THE SERVICE CLEARANCE AREAS. UNITS LOCATED IN ATTICS, MEZZANINES, OR DECKED AREAS SHALL HAVE A 3' WIDE BY 5' TALL CLEAR WALKWAY TO EACH UNIT. COORDINATE THESE REQUIREMENTS WITH ALL TRADES IN THE FIELD. ALL MECHANICAL EQUIPMENT SHALL BE LABELED WITH A PERMANENT 2" TALL LABEL WITH 1" TALL TEXT. BLACK LABEL WITH WHITE TEXT, OR WHITE LABEL WITH BLACK TEXT

30. ANY COST INCURRED AS A RESULT OF VALUE ENGINEERING OR DEVIATIONS FROM THE BASIS OF DESIGN INDICATED IN THE CONTRACT DOCUMENTS (E.G. ELECTRICAL MODIFICATIONS TO ACCOMMODATE ALTERNATE EQUIPMENT SELECTIONS, DESIGN RELATED EXPENSES FOR REQUIRED DRAWING MODIFICATIONS, ETC.) SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR. NO INCREASE IN CONTRACT COST WILL BE GRANTED UNLESS APPROVED IN WRITING BY THE OWNER. CONTRACT DOCUMENTS ARE DEFINED TO INCLUDE ALL DISCIPLINES AND DIVISIONS OF THE CONTRACT.

31. EXPOSED DUCTWORK SHALL HAVE PAINT GRIP FINISH, AND PAINTED AS DIRECTED BY ARCHITECT.

THAT ALLOWS FOR THE LEAST AMOUNT OF VISIBILITY THROUGH THE GRILLE BY THE BUILDING OCCUPANTS.

32. PIPING SHALL NOT BE ROUTED THROUGH ELECTRICAL OR I.T. ROOMS, OR DIRECTLY ABOVE ELECTRICAL PANELS OR ELECTRICAL EQUIPMENT.

33. ANY PORTIONS OF DUCTWORK VISIBLE THROUGH AIR DISTRIBUTION DEVICES IN FINISHED AREAS SHALL BE PAINTED FLAT BLACK. 34. ALL RETURN AND EXHAUST GRILLES THAT ARE LOUVERED BLADE TYPE SHALL BE INSTALLED WITH THE BLADES ORIENTED IN THE ANGLE

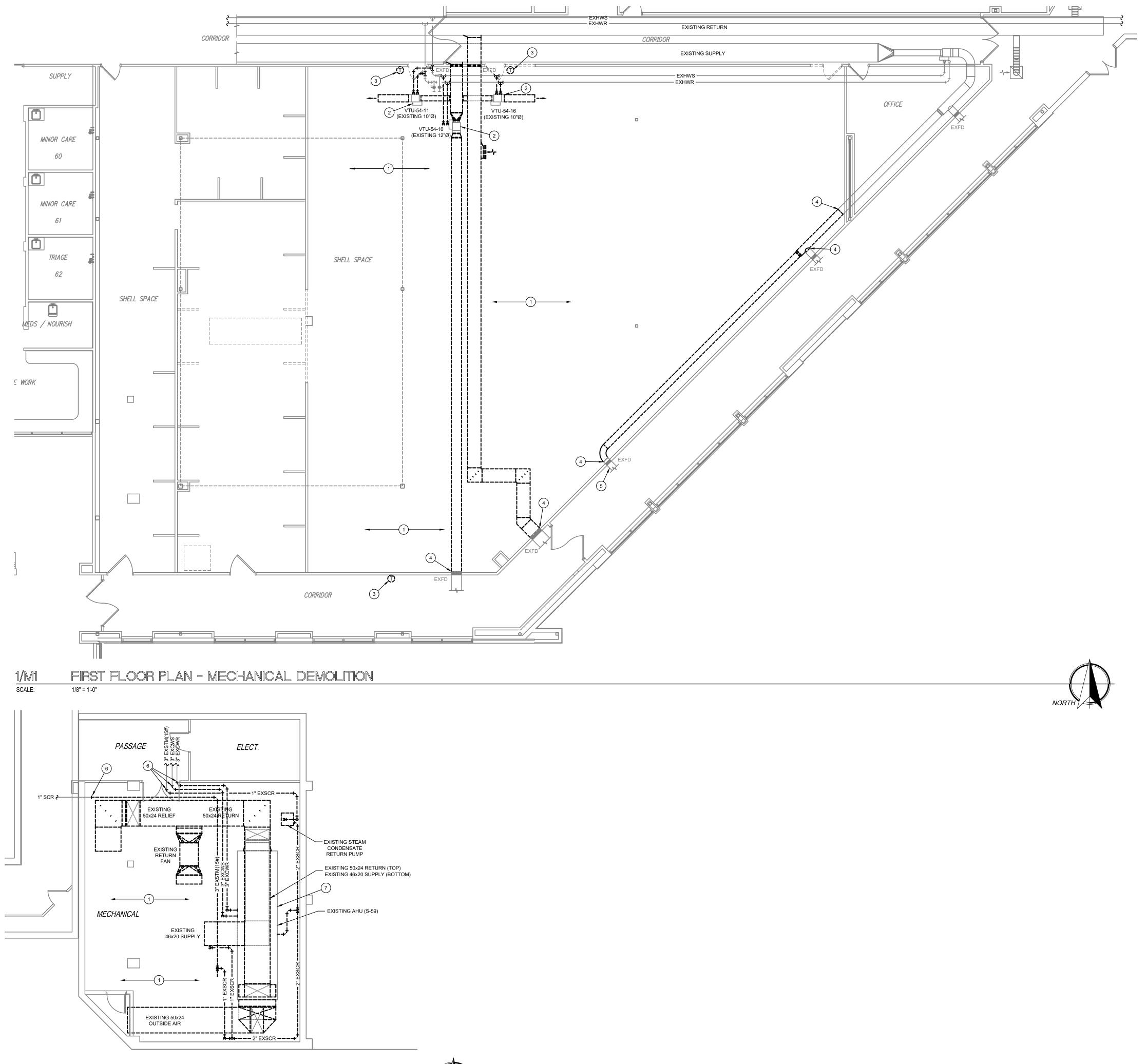
35. PROVIDE ACCESS PANELS IN NON-ACCESSIBLE CEILINGS TO ALLOW ADEQUATE ROOM FOR MAINTENANCE OF MECHANICAL EQUIPMENT AND FIRE DAMPERS. PROVIDE LABEL ON ACCESS DOOR INDICATED THE EQUIPMENT.

GENE	ERAL SYMBOLS						
	AL EQUIPMENT MARK (SEE ION LIST AND SCHEDULES)						
	Ē						
	TO EXISTING						
	BER	F					
T THERMOSTAT	(H) HEATER CONTROLLER						
H HUMIDISTAT		-					
S SENSOR	(P) ROOM PRESSURE SENSOR	_					
© CONTROLLER	(SP) STATIC PRESSURE SENSOR	2					
F FAN CONTROLLER							
		F					
	EFERENCE DICATES THE DETAIL NUMBER						
M-XXX INE	DICATES THE DRAWING SHEET						
SECTION	REFERENCE	Σ					
	DICATES THE SECTION NUMBER						
INDICATES THE DRAWING SHEET							
PIP	E SYMBOLS	١ŗ					
	ELBOW DOWN						
——ю	ELBOW UP	Σ					
	TEE UP						
181	TEE DOWN	Ľ					
EXXX	EXISTING LINE (XX = SYSTEM)	V-					
	DEMO LINE (XX = SYSTEM) CONDENSATE DRAIN LINE	Ľ					
s	REFRIGERANT SUCTION LINE						
L	REFRIGERANT LIQUID LINE						
_	REFRIGERANT SUCTION AND						
S/L	LIQUID LINE (SHOWN SINGLE LINE FOR CLARITY)						
S/S/L	REFRIGERANT SUCTION, LIQUID, AND HOT GAS LINES (SHOWN SINGLE LINE FOR CLARITY)	Σ					
CWS	CHILLED WATER SUPPLY LINE						
CWR	CHILLED WATER RETURN LINE	l y					
HWS ——							
HWR							
	STEAM LINE (PSI)						
	STEAM CONDENSATE RETURN LINE						
	RALL VALVE						
b	BALL VALVE FLOW DIRECTION						

AC AFF	AIR CONDITIONER ABOVE FINISHED FLOOR	FCU FCU	FAN COIL UNIT FURNACE AND COIL UNIT	NC NEC	NOISE CRITERIA NATIONAL ELECTRICAL CODE
AFF AHJ	ABOVE FINISHED FLOOR AUTHORITY HAVING JURISDICTION		FURNACE AND COIL UNIT		NATIONAL ELECTRICAL CODE NATIONAL ELECTRICAL MANUFACTURERS
		FD	FIRE DAMPER FABRIC DUCT DIFFUSER	NEMA	
HU NSI	AIR HANDLING UNIT AMERICAN NATIONAL STANDARDS INSTITUTE	FDD		NFPA NTS	NATIONAL FIRE PROTECTION ASSOCIATIO NOT TO SCALE
STM	AMERICAN NATIONAL STANDARDS INSTITUTE AMERICAN SOCIETY FOR TESTING AND MATERIALS	FPB FPM	FAN POWERED BOX FEET PER MINUTE	N15	NUT TO SCALE
51101	AMERICAN SOCIETT FOR TESTING AND MATERIALS	FPM	FEET	OA	OUTSIDE AIR
	BOILER	FI	FEEI	OBD	OPPOSED BLADE DAMPER
AS	BUILDING AUTOMATION SYSTEM	GPM	GALLON PER MINUTE	OBD	OUTDOOR HEAT PUMP
TU	BRITISH THERMAL UNIT	GUH	GALLON PER MINUTE GAS-FIRED UNIT HEATER	OU	OUTDOOR HEAT PUMP OUTDOOR UNIT
DD	BOTTOM OF DUCT	GUH	GAS-FIRED UNIT HEATER	00	OUTDOOR UNIT
)P	BOTTOM OF PIPE			P	
JF TUH	BRITISH THERMAL UNIT PER HOUR	Н	HUMIDIFIER	P	
HP	BRAKE HORSEPOWER	HP	HEAT PUMP	PD	PRESSURE DROP
	BRARE HORSEFOWER	HP	HORSEPOWER	PH	PHASE
	CHILLER	HRB		PH	
D		HSPF	HEATING SEASONAL PERFORMANCE FACTOR	PVC	POLY VINYL CHLORIDE
		HVAC	HEATING, VENTILATION, AND AIR CONDITIONING	PRV	PRESSURE REDUCING VALVE
FM		HVLS	HIGH VOLUME LOW SPEED FAN	PSI	POUNDS PER SQUARE INCH
H		HWP	HEATING WATER PUMP		
0		HWS	HEATING WATER SUPPLY	RA	RETURN AIR
02		HWR	HEATING WATER RETURN	RH	RELATIVE HUMIDITY (%)
OP	COEFFICIENT OF PERFORMANCE			RH	RADIANT HEATER
RP	CONDENSATE RETURN PUMP	IBC	INTERNATIONAL BUILDING CODE	RH	RANGE HOOD
Т	COOLING TOWER	IMC	INTERNATIONAL MECHANICAL CODE	RH	ROOF HOOD
U	CONDENSING UNIT	IHP	INDOOR HEAT PUMP	RPM	REVOLUTIONS PER MINUTE
V	CONSTANT VOLUME	IN	INCHES	RTU	ROOFTOP UNIT
WP	CHILLED WATER PUMP	INWC	INCHES OF WATER COLUMN	RV	RETURN AIR VALVE
WS	CHILLED WATER SUPPLY	IU	INDOOR UNIT		
WR	CHILLED WATER RETURN			S	SUCTION (REFRIGERANT)
		KEF	KITCHEN EXHAUST FAN	SA	SUPPLY AIR
	DRAIN	KEH	KITCHEN EXHAUST HOOD	SCR	STEAM CONDENSATE RETURN
3	DECIBEL (SOUND)	KSF	KITCHEN SUPPLY FAN	SEER	SEASONAL ENERGY EFFICIENCY RATIO
В	DRY BULB	KW	KILOWATT	SP	STATIC PRESSURE
DC	DIRECT DIGITAL CONTROL			SQFT	SQUARE FEET
EMO	DEMOLITION	L	LOUVER	S.S.	STAINLESS STEEL
OAS	DEDICATED OUTSIDE AIR UNIT	L	LIQUID (REFRIGERANT)	STM	STEAM
Р	DIFFERENTIAL PRESSURE	LAT	LEAVING AIR TEMPERATURE	SV	SUPPLY AIR VALVE
Х	DIRECT EXPANSION	LBS	POUNDS		
		LWT	LEAVING WATER TEMPERATURE	Т	TEMPERATURE
Ą	EXHAUST AIR	2001			
AT	ENTERING AIR TEMPERATURE	М	MOTORIZED	UH	UNIT HEATER
СМ	ELECTRONICALLY COMMUTATED MOTOR	MAX	MAXIMUM	011	
ER	ENERGY EFFICIANTCY RATIO	MAX	MAKEUP AIR UNIT	V	VOLTS
=	EXHAUST FAN	MBD	MANUAL BALANCING DAMPER	VAV	VARIABLE AIR VOLUME
EC	ELECTRICAL	MBD	THOUSAND BTUH	VFD	VARIABLE FREQUENCY DRIVE
RV	ENERGY RECOVERY VENTILATION UNIT		MINIMUM CURRENT AMPACITY	VRF	VARIABLE REFRIGERANT FLOW
SP	EXTERNAL STATIC PRESSURE	MCA		VIN	
JH	ELECTRIC UNIT HEATER	MIN		WB	WET BULB
V	EXHAUST AIR VALVE	MOCP	MAXIMUM OVER CURRENT PROTECTION	WB	WATER SOURCE HEAT PUMP
V WT	ENTERING WATER TEMPERATURE	MS	MINI SPLIT UNIT		WITH
X	EXISTING			W/ W/O	WITH WITHOUT

	MECHANICAL LEGEND] [CONDR
	DUCT S	YMBOLS]	
DIFFUSER/ GRI	LLE LABEL AIR DISTRIBUTION MARK NECK SIZE AIRFLOW - CFM (IF NO CFM IS LISTED, THEN BALANCING IS NOT REQUIRED FOR THAT DEVICE)		SUPPLY AIRFLOW DIRECTION RETURN, EXHAUST, OR TRANSFER AIRFLOW DIRECTION SUPPLY DIFFUSER WITH PATTERN		
ROUND DUCT	CONNECTION TO DIFFUSER/ GRILLE		RETURN OR EXHAUST GRILLE		DESIGN GR
+	DIFFUSER/ GRILLE FLEXIBLE DUCT ROUND DUCT RUNOUT	R	RETURN GRILLE WITH LINED BOOT		ARCHITECTU & INTERIOR
	SPIN-IN DUCT TAP WITH MBD MAIN DUCT	Y IX	SUPPLY DUCT - CROSS SECTION		3708 UPLAND AV LUBBOCK, TX 794
			EXHAUST DUCT - CROSS SECTION		806.748.6190 www.condray.co
RECTANGULAF	R DUCT CONNECTION TO DIFFUSER/ GRILLE		RETURN DUCT - CROSS SECTION		
ţ		y xxx y	RECTANGULAR DUCT (WIDTH" X HEIGHT")		STATE OF TELY
Ĥ	ROUND FLEX DUCT (NOT SHOWN) FROM BOTTOM OF DUCT TO DIFFUSER/ GRILLE	y x"ø y	ROUND DUCT (DIAMETER")		
	RECTANGULAR DUCT RUNOUT 	Y X/X Y	FLAT OVAL DUCT (MAJOR AXIS" X MINOR AXIS")		JUSTIN M. FINCHE
	MAIN DUCT	<u> </u>	EXTERIOR RECTANGULAR DUCT		
		<u> </u>	DOUBLE WALL SPIRAL ROUND DUCT		3-14.
<u>FD</u>	1.5 HOUR FIRE DAMPER (VERTICAL)	<u> </u>	DOUBLE WALL SPIRAL FLAT OVAL DUCT		
<u>FSD</u>	1.5 HOUR COMBINATION FIRE SMOKE DAMPER (VERTICAL)	<u>x</u>	MANUAL BALANCING DAMPER		
EXFD	EXISTING 1.5 HOUR FIRE DAMPER (VERTICAL)		DUCT TRANSITION, 45° ANGLE		
EXFSD	EXISTING 1.5 HOUR COMBINATION FIRE SMOKE DAMPER (VERTICAL)	y d	DUCT TRANSITION, 45° ANGLE RECTANGULAR TO ROUND		
	1.5 HOUR FIRE DAMPER (HORIZONTAL)		MITERED ELBOW WITH TURNING VANES		TX FIRM #F-16408 5621 114TH ST., SUITE LUBBOCK, TX 7942 PH: 806-701-5109
S FSD	1.5 HOUR COMBINATION FIRE SMOKE DAMPER (HORIZONTAL)		MITERED ELBOW WITHOUT TURNING VANES		WWW.FINCHERENG.
<u>y</u> y	EXISTING DUCTWORK	A			
	EXISTING DIFFUSER/ GRILLE		RADIUS ELBOW, 1.5 x DIAMETER RADIUS		
<u>xx</u>	DEMO DUCTWORK				
$\boxtimes \square$	DEMO DIFFUSER/ GRILLE				Nieman Engineerii 1500 Broadway St, Suite 1210 Lubbock, Texas 79401 T: 806-589-3340 TBPE Firm Registration No: F- 14148

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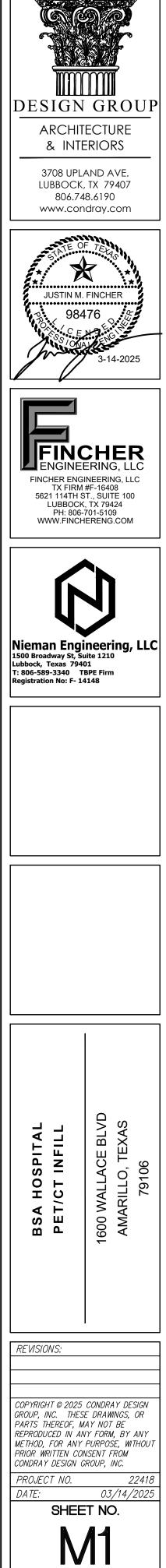


BASEMENT FLOOR PLAN - MECHANICAL DEMOLITION 1/8" = 1'-0"

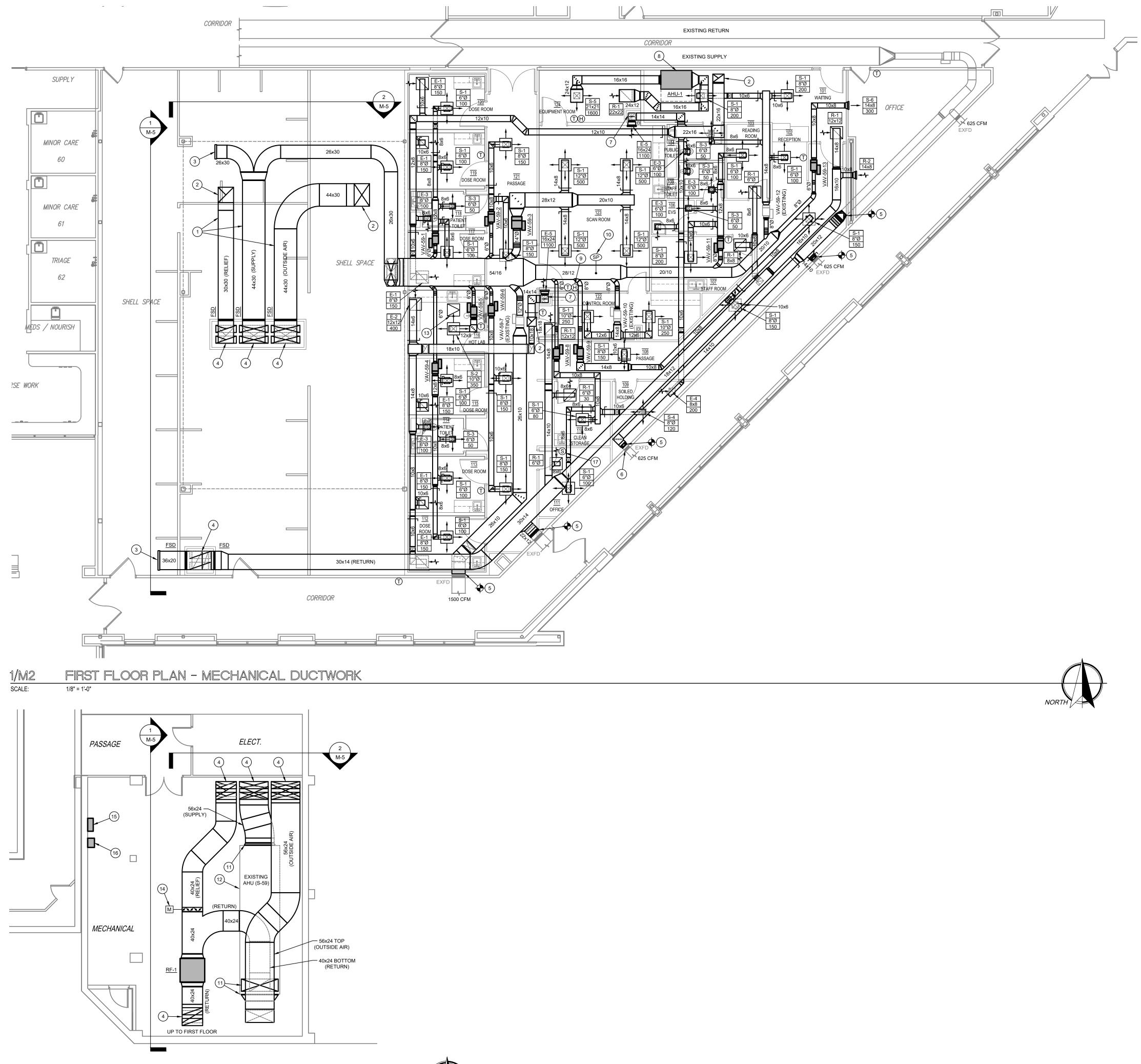


	GENERAL NOTES	CONDRAV
RE	FER TO SHEET M0 FOR ALL APPLICABLE GENERAL NOTES.	
Ο	KEYED NOTES O	
1.	REMOVE ALL DUCTWORK, PIPING, EQUIPMENT, DIFFUSERS, GRILLES, AND ALL ASSOCIATED ITEMS SHOWN DASHED.	
2.	EXISTING VAV BOX TO BE RELOCATED AND REUSED AS SHOWN ON NEW PLAN. REMOVE ALL EXISTING DUCTWORK AND PIPING AS SHOWN.	
3.	REMOVE EXISTING THERMOSTAT SHOWN DASHED. PROVIDE NEW THERMOSTAT FOR EXISTING VAV BOX AS SHOWN ON NEW FLOOR PLAN.	ARCHITECTURE & INTERIORS
4.	REMOVE EXISTING DUCTWORK BACK TO THIS LOCATION, AND PREPARE TO CONNECT TO NEW DUCTWORK AS SHOWN ON NEW PLAN.	3708 UPLAND AVE. LUBBOCK, TX 79407
5.	RELOCATE EXISTING FIRE DAMPER AND ASSOCIATED DUCTWORK TO ACCOMMODATE THE NEW FIRE RATED WALL LAYOUT AS SHOWN ON THE NEW PLAN.	806.748.6190 www.condray.com
6.	REMOVE CHILLED WATER AND STEAM PIPING BACK TO THIS LOCATION. PREPARE TO EXTEND WITH NEW PIPING AS SHOWN ON NEW PLAN.	TATE OF TELAS

- EXISTING AIR HANDLING UNIT (S-59) LOCATED IN BASEMENT SHALL BE REFURBISHED. REFER TO SPECIFICATIONS AND NEW FLOOR PLAN.
- REMOVE ALL CONNECTED DUCTS AND PIPING, AND ALL INTERNAL COMPONENTS AS REQUIRED FOR REFURBISHMENT.



2 OF 9





BASEMENT FLOOR PLAN - MECHANICAL DUCTWORK 1/8" = 1'-0"

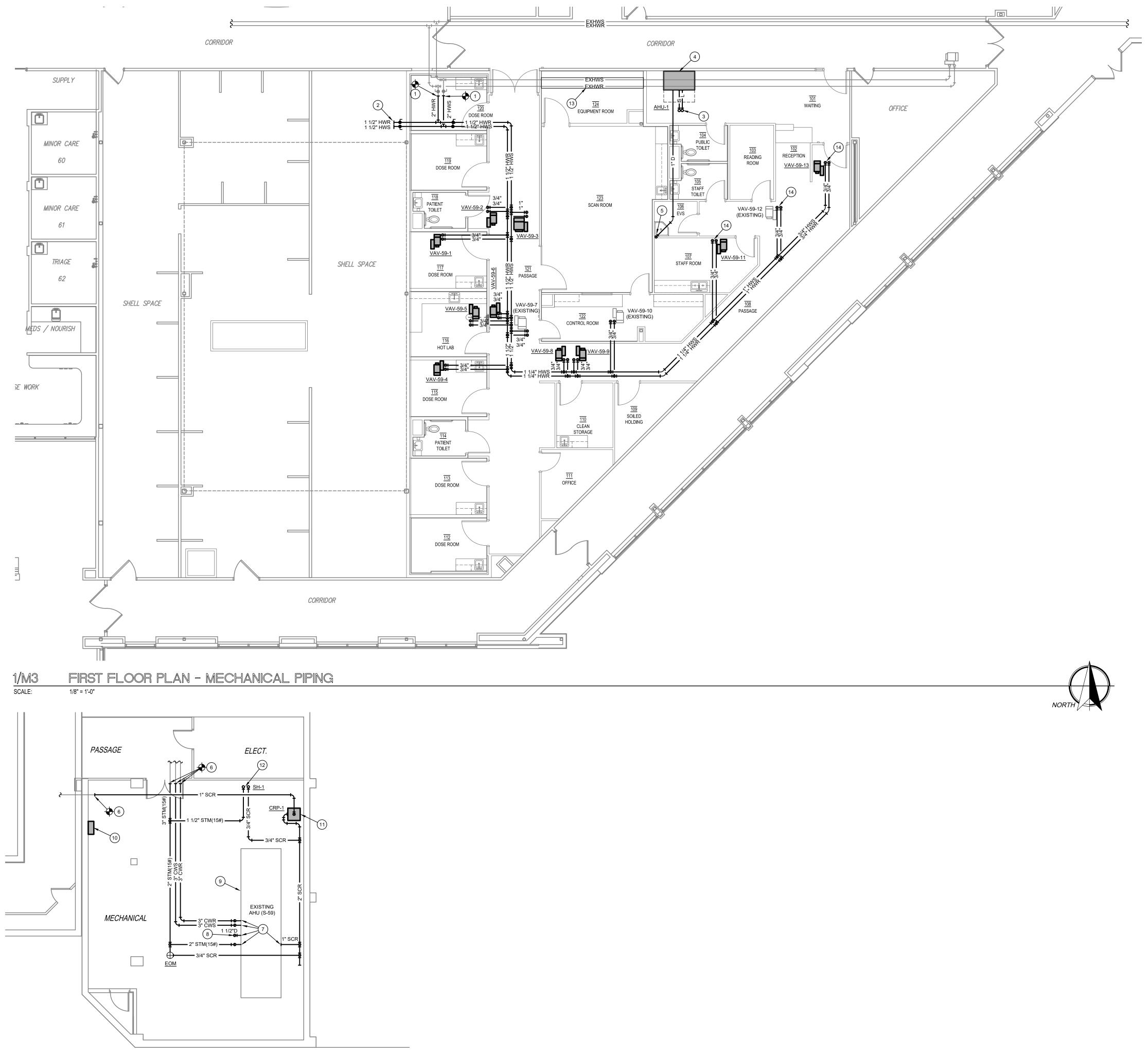


KEYED NOTES

REFER TO SHEET M0 FOR ALL APPLICABLE GENERAL NOTES.

- . ROUTE DUCTS AS HIGH AS POSSIBLE IN CLEARSTORY AREA.
- 2. ROUTE DUCT UP TO ROOF, REFER TO ROOF PLAN FOR CONTINUATION.
- 3. CAP DUCT FOR FUTURE EXTENSION.
- 4. ROUTE DUCT DOWN INSIDE NEW SHAFT TO BASEMENT BELOW. PROVIDE FIRE SMOKE DAMPERS IN ALL DUCT PENETRATIONS AT SHAFT WALL. DUCTS PASSING THROUGH THE FIRST FLOOR SHALL SPLIT INTO 2 DUCTS TO AVOID FLOOR JOISTS. DUCT SIZES THRU THE FLOOR SHALL BE (x2) 56x14 FOR SUPPLY AND OUTSIDE AIR, AND (x2) 40x14 FOR RETURN AND RELIEF DUCTS.
- 5. CONNECT NEW DUCTWORK TO EXISTING DUCT AT THIS LOCATION. RE-BALANCE EXISTING AIRFLOW IF INDICATED ON PLAN.
- NEW LOCATION FOR EXISTING FIRE DAMPER. MODIFY EXISTING DUCTWORK IN CORRIDOR AS REQUIRED TO CONNECT BACK TO NEW FIRE DAMPER LOCATION. RE-BALANCE EXISTING AIRFLOW AS SHOWN.
- 7. ROUTE 14x14 EXHAUST DUCT DOWN IN CHASE, THEN TRANSITION TO 16x24 LOW EXHAUST GRILLE MOUNTED AT 6" ABOVE FLOOR.
- 8. EQUIPMENT ROOM SPLIT SYSTEM, MAINTAIN CLEARANCE AREA SHOWN DASHED.
- 9. HUMIDITY SENSOR FOR STEAM HUMIDIFIER SERVING S-59.
 10. DUCT STATIC PRESSURE SENSOR FOR S-59 LOCATED
- APPROXIMATELY 2/3 DOWN THE MAIN SUPPLY DUCT.11. CONNECT NEW DUCT TO EXISTING AIR HANDLING UNIT S-59, PROVIDE TRANSITION AND FLEX CONNECTION.
- 12. EXISTING AIR HANDLING UNIT S-59 TO BE REFURBISHED, REFER TO SPECIFICATIONS AND SCHEDULES.
- 13. PROVIDE 24x24 HINGED AND GASKETED CEILING PANEL FOR VAV BOXES LOCATED ABOVE HARD CEILING.
- 14. ECONOMIZER RELIEF DAMPER, REFER TO TEMPERATURE CONTROL SPECIFICATIONS.
- 15. BAS PANEL, COORDINATE WITH JOHNSON CONTROLS.
- 16. WALL-MOUNTED VFD FOR RETURN FAN (RF-1).
- 17. EMERGENCY HVAC SHUTDOWN BUTTON FOR AHU S-59, COORDINATE WITH ELECTRICAL CONTRACTOR.

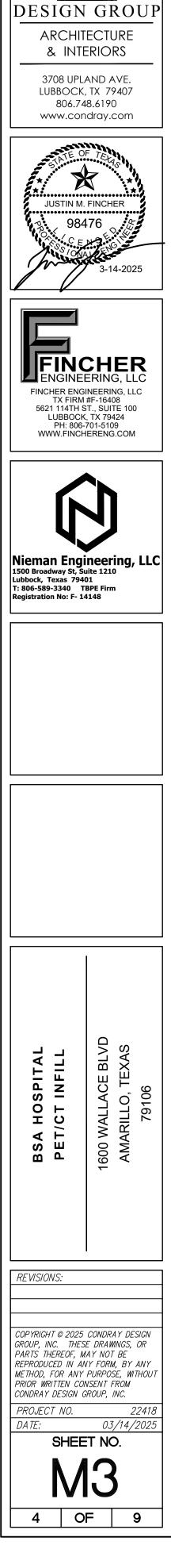
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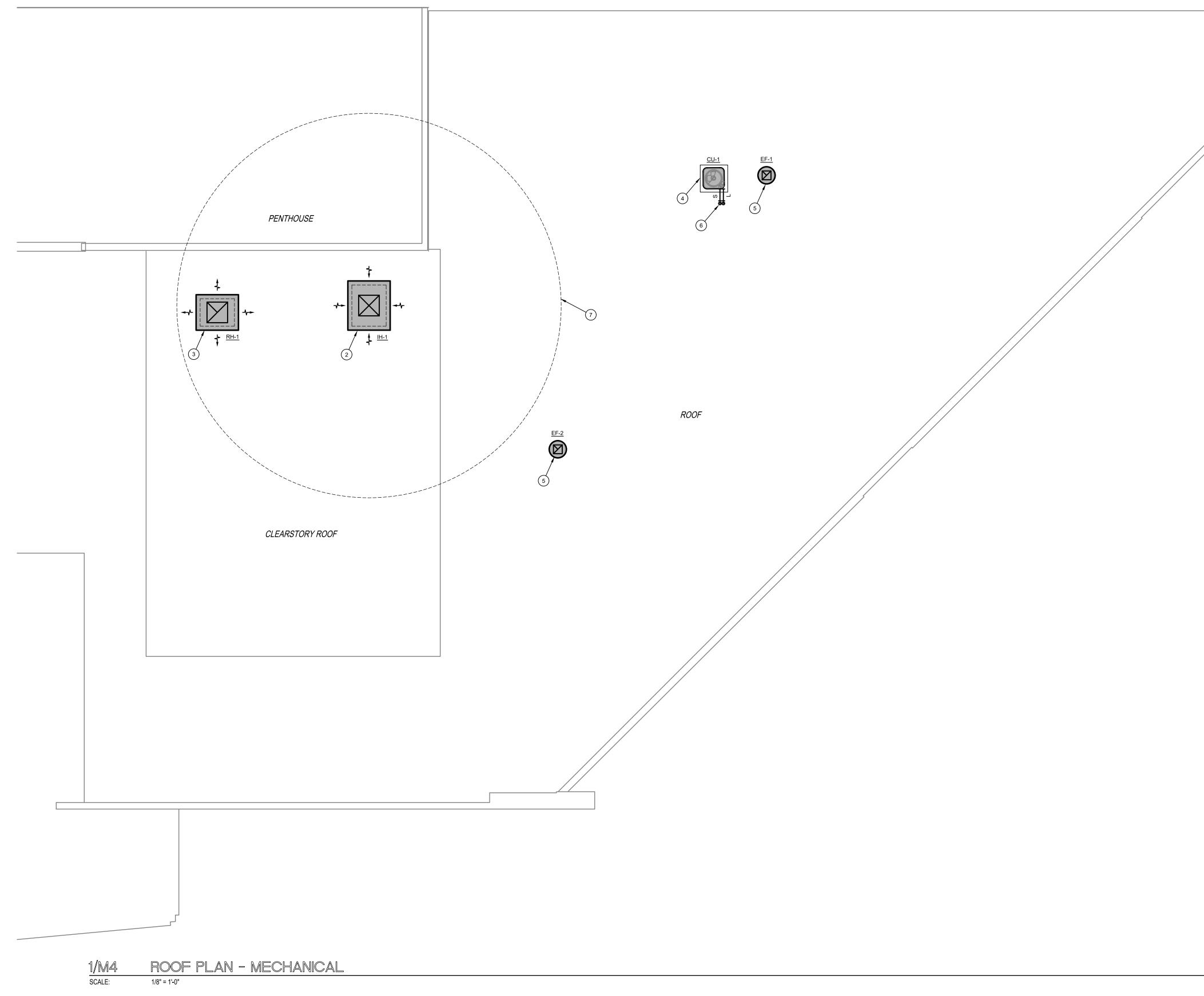


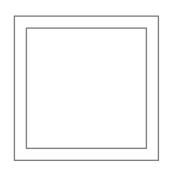


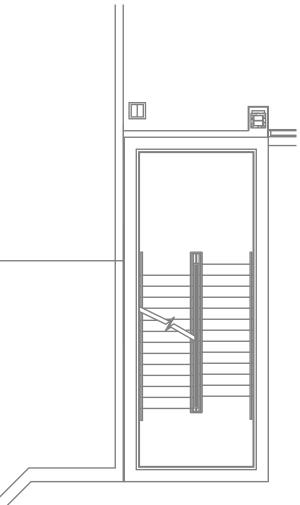


	GENERAL NOTES	CONDRAY
RE	FER TO SHEET M0 FOR ALL APPLICABLE GENERAL NOTES.	
Ο	KEYED NOTES O	
1.	CONNECT NEW 2" HEATING WATER SUPPLY AND RETURN LINES TO EXISTING MAIN LINES.	
2.	VALVE AND CAP 1 1/2" HEATING WATER SUPPLY AND RETURN LINES TO BE EXTENDED IN FUTURE FINISH OUT.	
3.	REFRIGERANT LINES UP THRU ROOF TO CONDENSING UNIT.	DESIGN GROUP
4.	EQUIPMENT ROOM AIR HANDING UNIT. CONNECT REFRIGERANT LINES AND 1" CONDENSATE DRAIN LINE.	ARCHITECTURE & INTERIORS
5.	ROUTE 1" CONDENSATE DRAIN LINE DOWN IN WALL TO SPILL TO MOP BASIN WITH 1" AIR GAP.	3708 UPLAND AVE.
6.	CONNECT NEW 3" CHILLED WATER SUPPLY AND RETURN, 3" STEAM (15#), AND 1" SCR LINES TO EXISTING LINES IN BASEMENT.	LUBBOCK, TX 79407 806.748.6190 www.condray.com
7.	CONNECT NEW PIPING TO EXISTING AIR HANDLING UNIT S-59. REFER TO DETAILS FOR COIL CONNECTIONS.	
8.	SPILL 1 1/2" DRAIN LINE TO EXISTING FLOOR DRAIN WITH 1" GAP.	STATE OF TELYS
9.	EXISTING AIR HANDLING UNIT S-59 TO BE REFURBISHED, REFER TO SPECIFICATIONS.	JUSTIN M. FINCHER
10.	BAS PANEL, COORDINATE WITH JOHNSON CONTROLS.	98476 ×
11.	STEAM CONDENSATE RETURN PUMP, REFER TO DETAIL.	
12.	STEAM HUMIDIFIER WITH DISPERSION TUBE MOUNTED IN SUPPLY DUCT MAIN, REFER TO DETAIL.	35/044
13.	PROVIDE DRAIN PAIN UNDERNEATH EXISTING HEATING WATER PIPING ROUTING OVER EQUIPMENT ROOM. PROVIDE LEAK SENSOR IN LOWEST PART OF DRAIN PAN, AND CONNECT TO BAS SYSTEM.	
14.	PROVIDE VAV BOX WITH 3-WAY CONTROL VALVE. ALL OTHER CONTROL VALVES SHALL BE 2-WAY.	





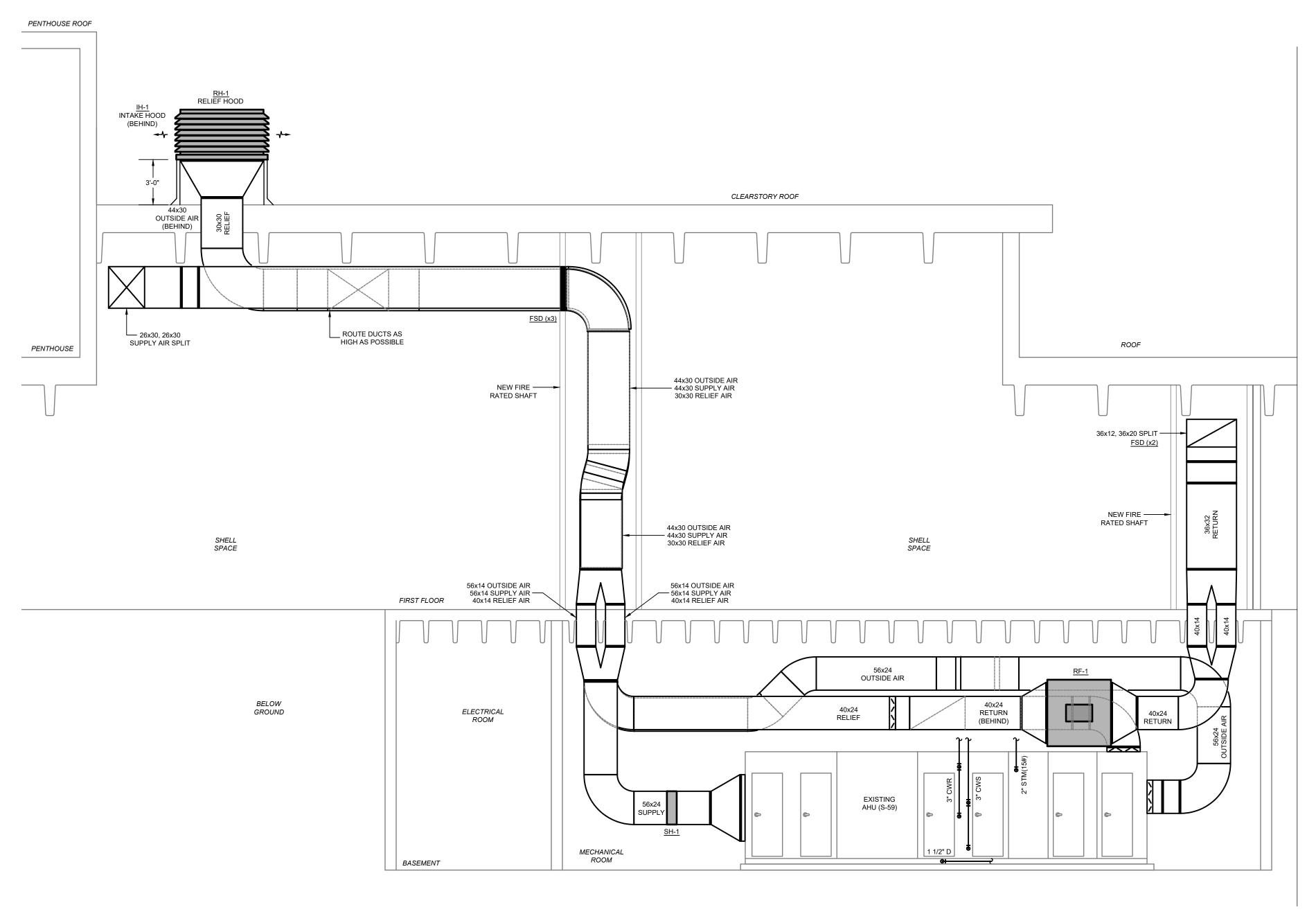




	GENERAL NOTES	
RE	EFER TO SHEET M0 FOR ALL APPLICABLE GENERAL NOTES.	
Ο	KEYED NOTES O	
1.	NEW RELIEF HOOD TO SERVE AIR HANDLING UNIT S-59.	
2.	NEW OUTSIDE AIR INTAKE HOOD TO SERVE AIR HANDLING UNIT S-59. PROVIDE MOUNTING CURB WITH HEIGHT TO ALLOW FOR GREATER THAN 36" SEPARATION BETWEEN THE ROOF AND AIR INTAKE.	DESIGN GROUP
3.	NEW RELIEF HOOD TO SERVE AIR HANDLING UNIT S-59. PROVIDE MOUNTING CURB WITH HEIGHT TO ALLOW FOR GREATER THAN 36" SEPARATION BETWEEN THE ROOF AND RELIEF AIR.	ARCHITECTURE & INTERIORS
4.	EQUIPMENT ROOM CONDENSING UNIT MOUNTED ON ROOF PLATFORM, REFER TO DETAIL.	3708 UPLAND AVE.
5.	NEW GENERAL EXHAUST FAN MOUNTED ON ROOF.	LUBBOCK, TX 79407 806.748.6190
6.	ROUTE REFRIGERANT LINES DOWN THRU ROOF IN ENCLOSURE SYSTEM, REFER TO DETAIL.	www.condray.com
7.	MAINTAIN 25'-0" CLEARANCE FROM INTAKE HOOD TO ANY NEW OR EXISTING EXHAUSTS, FLUES, AND PLUMBING VENTS.	STATE OF TELE
		JUSTIN M. FINCHER

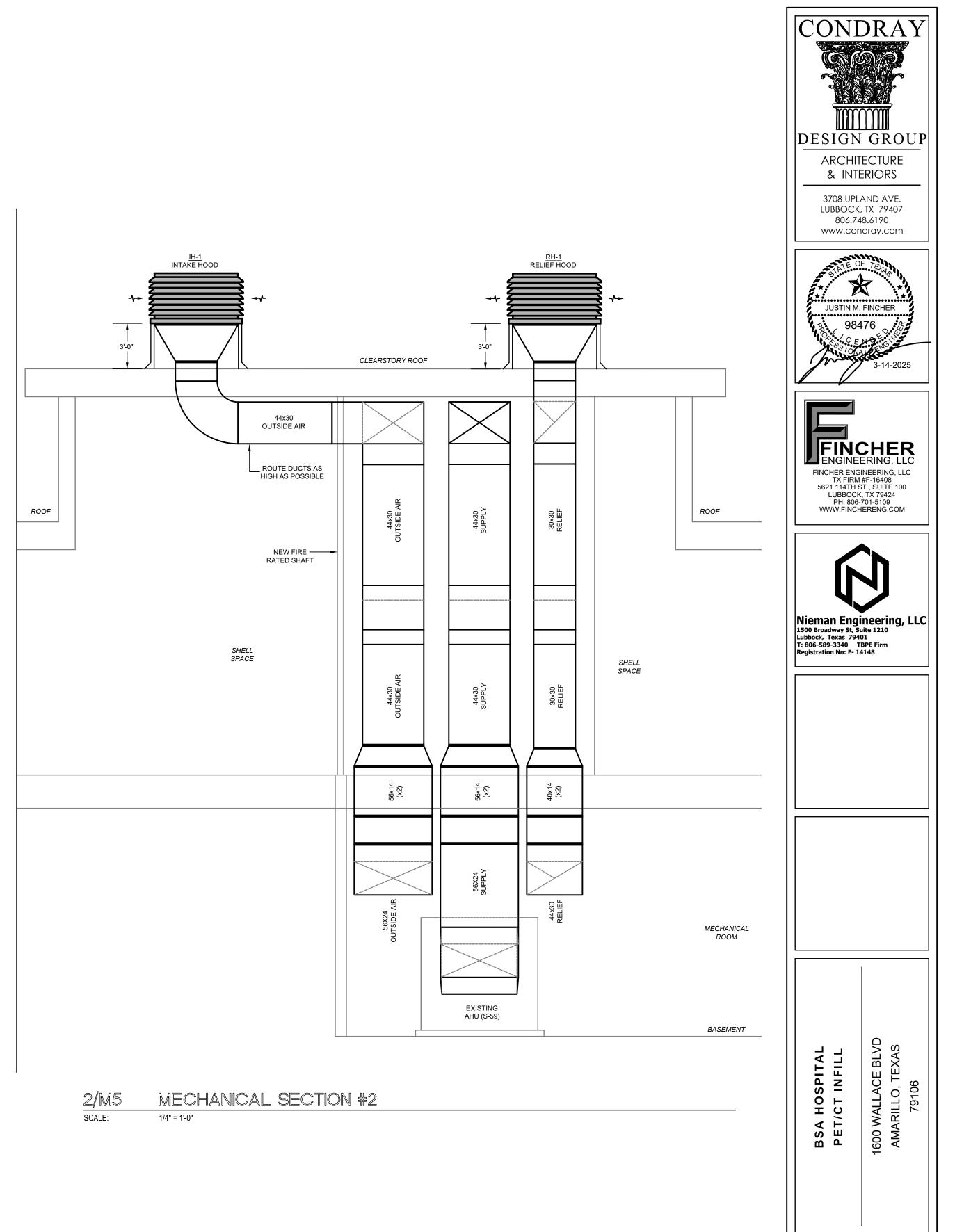
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MECHANICAL SECTION #1 1/M5 SCALE:

1/4" = 1'-0"



REVISIONS:

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SHEET NO. M5

6 OF 9

MARK	TYPE	BASIS O	F D
WANN		MANUFACTURER	
RF-1	INLINE MIXED FLOW	PENN BARRY	

B. ALL SELECTIONS BASED ON JOBSITE ELEVATION.

C. PROVIDE ALL FANS WITH THE FOLLOWING ACCESSORIES:

• WALL-MOUNTED VFD.

• BACKDRAFT DAMPER.

• SPRING ISOLATOR MOUNTS.

	AIR DISTRIBUTION SCHEDULE												
MARK	TYPE	BASIS OF DE	ESIGN	FACESIZE	LOCATION	FRAME	FINISH	MATERIAL	MAXNC	MAX PD	DAMPER	PATTERN	DESCRIPTION
WARN		MANUFACTURER	MODEL	FACESIZE	LOCATION	(NOTEC)	FINISH					PATIERN	DESCRIPTION
S-1	SUPPLY	TITUS	OMNI	24x24	CEILING	TB	WHITE	STEEL	20	0.08"	NONE	4-WAY	SQUARE PLAQUE DIFFUSER
S-2	SUPPLY	TITUS	OMNI	24x24	CEILING	PF	WHITE	STEEL	20	0.08"	NONE	4-WAY	SQUARE PLAQUE DIFFUSER
S-3	SUPPLY	TITUS	OMNI	12x12	CEILING	ТВ	WHITE	STEEL	20	0.08"	NONE	4-WAY	SQUARE PLAQUE DIFFUSER
S-4	SUPPLY	TITUS	OMNI	12x12	CEILING	PF	WHITE	STEEL	20	0.08"	NONE	4-WAY	SQUARE PLAQUE DIFFUSER
S-5	SUPPLY	TITUS	TDC	24x24	CEILING	ТВ	WHITE	STEEL	25	0.08"	NONE	4-WAY	SQUARE LOUVERED DIFFUSER
S-6	SUPPLY	TITUS	300RS	ON PLAINS	SIDEWALL	SM	WHITE	STEEL	25	0.08"	NONE		DOUBLE DEFECTION GRILLE
R-1	RETURN	TITUS	PAR	24x24	CEILING	ТВ	WHITE	STEEL	25	0.09"	NONE	PERFORA TED	SQUA RE PERFORA TED GRILLE
R-2	RETURN	TITUS	350RL	ON PLAINS	SIDEWALL	SM	WHITE	STEEL	20	0.06"	NONE		LOUV ERED BLA DE GRILLE
E-1	EXHAUST	TITUS	PAR	24x24	CEILING	TB	WHITE	STEEL	25	0.09"	NONE	PERFORATED	SQUA RE PERFORA TED GRILLE
E-2	EXHAUST	TITUS	PAR	24x24	CEILING	PF	WHITE	STEEL	25	0.09"	NONE	PERFORATED	SQUA RE PERFORA TED GRILLE
E-3	EXHAUST	TITUS	PAR	12x12	CEILING	ТВ	WHITE	STEEL	25	0.09"	NONE	PERFORATED	SQUA RE PERFORA TED GRILLE
E-4	EXHAUST	TITUS	PAR	12x12	CEILING	PF	WHITE	STEEL	25	0.09"	NONE	PERFORA TED	SQUA RE PERFORA TED GRILLE
E-5	EXHAUST	TITUS	350RS-SS	ON PLAINS	SIDEWALL	SM	WHITE	STAINLESS	25	0.06"	NONE		LOUVERED BLADE GRILLE

NOTES:

A. BORDER TY PES AND MOUNTING REQUIREMENTS SHALL BE COORDINATED WITH ARCHITECTURAL REFLECTED CEILING PLAN. B. PROVIDE TRANSITIONS (INCLUDING SQUARE TO ROUND) WHERE REQUIRED TO TRANSITION FROM DUCT SIZE SHOWN TO AIR DEVICE NECK SIZE C. MOUNTING AND FRAMING NOTES:

• TB = LAY-IN DEVICE FOR INSTALLATION IN LAY-IN CEILINGS

• PF = LAY-IN DEVICE WITH MOUNTING FRAME FOR HARD CEILINGS EQUAL TO TITUS RAPID MOUNT FRAME

• DM = A IR DEVICE MOUNTED DIRECTLY TO DUCT OR DUCT TAP AS SHOWN ON DRAWING. • SM = SURFACE MOUNT FOR MOUNTING DIRECTLY TO CEILING OR SIDEWALL.

								AIR HANDL	ING UNI	T REFURBIS	SHMENT S	CHEDU	LE						
MARK SUPPLY FAN ARRAY DATA					COOLING COIL DATA (CHILLED WATER)				PRE-HEAT COIL DATA (STEAM)					FILTER DATA					
S-59	S.A. CFM	MIN. O.A.	FAN HP x QUANTITY	E.S.P. (INWC)	T.S.P (INWC)	MOTOR ELEC.	GPM	CAPACITY (TOTAL / SENSIBLE)	EWT/ LWT (°F)	EAT (DB,WB) / LAT (DB,WB) (°F)	NO. OF ROWS/ FINS PER INCH	STEAM PRESSURE	CAPACITY (TOTAL)	LBS/HR	CFM	EAT (DB) / LAT (DB) (°F)	NO. OF ROWS/ FINS PER INCH	PRE-FILTERS	FINAL FILTERS
	15,000	5,000	3.69 HP (x6) = 22.18 HP	3.0"	5.58"	480 V, 3Ø, 60 Hz	76.5	462 MBH/ 405 MBH	45 / 57	81.3, 63.5/ 52.7, 52.0	6 / 8	15 PSI	347 MBH	367.0	15,000	46.0 / 70.3	1/6	2" - MERV 8	12" - MERV 14
NOTES: 1. UNIT SHALL BE FULLY REFURBISHED AS SCHEDULED. EXISTING UNIT IS TEMTROL. 2. ALL COMPONENTS SHALL BE TRANSPORTED THROUGH EXISTING BUILDING, THEN INSTALLED IN EXISTING UNIT IN BASEMENT MECHANICAL ROOM. 3. REFER TO SPECIFICATIONS FOR INFORMATION OF WHICH COMPONENTS ARE TO BE REPLACED WITH NEW, AND WHICH COMPONENTS ARE TO REMAIN. 4. THE PERFORMANCE DATA LISTED IN THIS SCHEDULE IS THE CRITERIA THAT ALL NEW COMPONENTS SHALL MEET. 5. ALL SELECTIONS ARE BASED ON JOBSITE ELEVATION.																			

MARK

VAV-59-1

VAV-59-2 VAV-59-3

VAV-59-4

VAV-59-5

VAV-59-6

VAV-59-7

6. COOLING COIL VELOCITIES SHALL BE 500 FPM OR LESS.

7. ESP EXCLUDES COILS, CASING, OR DAMPER PRESSURE LOSSES. 8. SUPPLY FANS SHALL BE ECM FAN ARRAY, WITH N+1 REDUNDANCY. THE DESIGNED FAN ARRAY HAS 5 FANS HANDLING 100% OF THE LOAD, 1 FAN ON STANDBY.

	ROOF HOOD SCHEDULE								
MARK	BASIS OF DESIGN		SERVES	CFM	DIM ENSIONS	THROAT	P.D. MAX	SERVES	
	MANUFACTURER	MODEL				VELOCITY			
IH-1	PENN BARRY	PH	INTA KE	15,000	60"x72"	500 FPM	0.05"	AHU S-59	
RH-1	PENN BARRY	PH	RELIEF	10,000	60"x48"	500 FPM	0.05"	AHU S-59	
NOTES:									

A. PROVIDE BIRDSCREEN WITH RELIEF HOODS, AND INSECT SCREEN WITH INTAKE HOODS.

B. PROVIDE ROOF MOUNTING CURB, A IRFLOW TO BE MINIMUM 36" FROM ROOF LEVEL.

C. HOODS SHALL BE FACTORY PRIMED, AND THEN FIELD PAINTED WITH COLOR SELECTED BY ARCHITECT.

	STEAM HUMIDIFIER SCHEDULE									
MARK	BASIS OF DE	SIGN	LBS/HR	#TUBES	DUCT SIZE	AIRFLOW CFM	STEAM PRESSUR			
	MANUFACTURER	MODEL		#IUDES			STEAM FRESSOR			
SH-1	DRI STEAM	MP	273.3	4	56"Wx24"H	15000	15 PSI			

A. MODULATING

NOTES

B. VERIFY ALL [

C. WALL MOUNTED HUMIDISTAT PROVIDED BY BAS CONTRACTOR.

	F	RETU	RN FA	N SCHEI	DULE				
ESIGN	CFM	ESP	RPM	MOTOR SIZE	MOTOR	CONTROL	SONES	ELECTRICAL DATA	WEIGHT (LBS)
MODEL		L3F		MOTORSIZE	DRIVE/TYPE	CONTROL	301123	VOLTS/PH	
MXI 222 DD-SC	10,000	2.0"	1,382	7.5 HP	DIRECT W/ VFD	THRU BAS	25.7	480/3	110

ANY CHANGES TO THE ELECTRICAL POWER REQUIREMENTS DUE TO EQUIPMENT SUBSTITUTIONS SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR, AND SHALL BE PROVIDED WITH NO ADDITIONAL A. COST TO THE OWNER. A CCEPTA BLE MANUFACTURERS A RE GREENHECK, COOK, PENN BARRY, OR A PPROVED EQUAL.

	EXHAUST FAN SCHEDULE											
MARK	TYPE	BASIS O	BASIS OF DESIGN		ESP	RPM	MOTOR SIZE	MOTOR	CONTROL	SONES	ELECTRICAL DATA	WEIGHT (LBS)
WARA	ITFE	MANUFACTURER	MODEL	CFM	LOF		MOTOR SIZE	DRIVE/TYPE	CONTROL	SONES	VOLTS/PH	
EF-1	ROOF UPBLAST	PENN BARRY	PRU 165-050 DGP	2,150	1.5"	1,842	1 HP	DIRECT W/ VFD	THRU BAS	15.4	480/3	200
EF-2	ROOF UPBLAST	PENN BARRY	PRU 165-050 DGP	2,050	1.5"	1,802	1 HP	DIRECT W/ VFD	THRU BAS	14.8	480/3	200

NOTES:

ANY CHANGES TO THE ELECTRICAL POWER REQUIREMENTS DUE TO EQUIPMENT SUBSTITUTIONS SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR, AND SHALL BE PROVIDED WITH NO ADDITIONAL A. COST TO THE OWNER. A CCEPTABLE MANUFACTURERS A RE GREENHECK, COOK, PENN BARRY, OR A PPROVED EQUAL.

B. ALL SELECTIONS BASED ON JOBSITE ELEVATION. C. PROVIDE ALL FANS WITH THE FOLLOWING ACCESSORIES: DISCONNECT SWITCH.

• INTEGRAL FAN-MOUNTED V FD. TEST AND BALANCE CONTRACTOR SHALL ADJUST FAN PERFORMANCE THROUGH THE V FD. • BACKDRAFT DAMPER.

• 14" TALL ROOF CURB (VERIFY COMPATIBILITY WITH ROOF SLOPE AND TYPE)

	C	ON
BASIS OF DE	ESIGN	
MANUFACTURER	MODEL	
SKIDMORE	10MX-20	
CONFIGURATION SHA	LL DUPLEX PUN	IPAR
PROVIDE WITH FLOOP	R-MOUNTED CAS	ST IRO
PROVIDE WITH CONTR GATE VALVE	ROL PANEL, THE	RMOI
	MANUFACTURER SKIDMORE CONFIGURATION SHA PROVIDE WITH FLOOF PROVIDE WITH CONTF	BASIS OF DESIGN MANUFACTURER MODEL SKIDMORE 10MX-20 CONFIGURATION SHALL DUPLEX PUM PROVIDE WITH FLOOR-MOUNTED CASE PROVIDE WITH CONTROL PANEL, THE

MARK	СЕМ	ESP	MOTOR	CONFIG.	COOLIN	IG DATA	HUMIDIFI	ER DATA	ELECTRICAL	EXAMPLE
		201		0011110	TOTAL	SENSIBLE	LOAD	TYPE	DATA	
AHU-1	1600	0.5"	3/4 HP	HORIZONTAL	48.0 MBH	48.0 MBH	15 LBS/HR	CANISTER	480 V, 3 Ø, 60 Hz	ABOVE AIR HKH-014S5
 PROVIDE WITH STEAM GENERATING HUMIDIFIER (CANISTER TYPE). PROVIDE WITH PROGRAMMABLE WALL MOUNTED CONTROL PANEL. PROVIDE WITH REFRIGERANT DETECTION AND MITIGATION SYSTEM. EQUIPMENT ROOM CONDENSING UNIT SCHEDULE										
	MARK SERVES CAPACITY ELECTRICAL DATA REFRIGERANT REFRIGERANT LINE SIZES EXAMPLE									
MARK	SE	RVES	CAPACI	TY ELECTE		ILLI NIGLIVAN		IGERANT LINE	SIZES EXAN	IPLE

		LBS/HR	#IUBES			STEAM PRESSURE	
TURER	MODEL		#TODLO				
EAM	MP	273.3	4	56"Wx24"H	15000	15 PSI	
G STEAM CONTROL.							
. DUCT SIZES AND STEAM PRESSURE PRIOR TO ORDERING HUMIDIFIER.							
	IDISTAT PROV			CTOR			

					VAV-59-8	
					VAV-59-9	
					VAV-59-10	
					VAV-59-11	
)	IFIER	SCHED	ULE		VAV-59-12	
					VAV-59-13	
	#TUBES	DUCT SIZE	AIRFLOW CFM	STEAM PRESSURE		
	4	56"Wx24"H	15000	15 PSI	NOTES:	
	-	00 11/24 11	10000		A.	IF RE
					В	PRO'
					C.	INLE

VAV BOX IS EXISTING, TO BE RELOCATED AND REUSED. RELABEL UNIT AS LISTED IN SCHEDULE. REBALANCE AIRFLOWS AND HEATING WATER FLOW AS SCHEDULED. BAS ^{D.} CONTRACTOR SHALL NEW THERMOSTAT TO CONTROL EXISTING VAV BOX, MODEL TO MATCH OTHER NEW THERMOSTATS.

I TITUS DESV 350 350 350 0.4" 6" 13.2 1.3 55°F/90°F 180°F/160°F 2-W/ 2 TITUS DESV 300 300 300 0.4" 6" 11.3 1.1 55°F/90°F 180°F/160°F 2-W/ 3 TITUS DESV 2000 2,000 2,000 0.4" 14" 75.6 7.6 55°F/90°F 180°F/160°F 3-W/ 4 TITUS DESV 350 350 350 0.4" 6" 13.2 1.3 55°F/90°F 180°F/160°F 2-W/ 5 TITUS DESV 350 350 350 0.4" 6" 13.2 1.3 55°F/90°F 180°F/160°F 2-W/ 5 TITUS DESV 350 350 0.4" 6" 13.2 1.3 55°F/90°F 180°F/160°F 2-W/ 5 TITUS DESV 300 300 0.4" 6" 11.3 1.1 55°F/90°F 180°F/160°F 2-W/ 6 TITUS DESV 300 <th></th>													
MANUFACTURER MODEL MAX CFM MIN. CFM ESP NULL CAP. (MBH) GPM EAT/LAT ENT/LWT C.V. 1 TITUS DESV 350 350 350 0.4" 6" 13.2 1.3 55°F/90°F 180°F/160°F 2-W/ 2 TITUS DESV 300 300 300 0.4" 6" 11.3 1.1 55°F/90°F 180°F/160°F 2-W/ 3 TITUS DESV 2000 2,000 2,000 0.4" 6" 11.3 1.1 55°F/90°F 180°F/160°F 2-W/ 4 TITUS DESV 2000 2,000 2,000 0.4" 6" 11.3 1.1 55°F/90°F 180°F/160°F 2-W/ 5 TITUS DESV 350 350 350 0.4" 6" 13.2 1.3 55°F/90°F 180°F/160°F 2-W/ 5 TITUS DESV 300 300 0.4" 6" 11.3 1.1		V	AV BC	X SCH	EDULE	(SINGL	e duc	CT WI	ТН НОТ У	WATE	R COIL)		
MANUFACTURER MODEL MAX CFM MAX CFM SIZE CAP. (MBH) GPM EAT/LAT EWT/LWT C.N. 1 TITUS DESV 350 350 350 0.4" 6" 13.2 1.3 55°F/90°F 180°F/160°F 2-W/ 2 TITUS DESV 300 300 0.4" 6" 11.3 1.1 55°F/90°F 180°F/160°F 2-W/ 3 TITUS DESV 300 2,000 2,000 0.4" 14" 75.6 7.6 55°F/90°F 180°F/160°F 2-W/ 4 TITUS DESV 350 350 350 0.4" 6" 13.2 1.3 55°F/90°F 180°F/160°F 2-W/ 5 TITUS DESV 350 350 0.4" 6" 13.2 1.3 55°F/90°F 180°F/160°F 2-W/ 5 TITUS DESV 300 300 0.4" 6" 11.3 1.1 55°F/90°F 180°F/160°F 2-W		BASIS OF DE	SIGN		HEATING		ESD	INLET			HEATING DAT	A	
Integration Desv 300 300 300 0.4" 6" 11.3 1.1 55°F/90°F 180°F/160°F 2-W/ 3 TITUS DESV 2000 2,000 2,000 0.4" 6" 11.3 1.1 55°F/90°F 180°F/160°F 2-W/ 3 TITUS DESV 2000 2,000 2,000 0.4" 14" 75.6 7.6 55°F/90°F 180°F/160°F 3-W/ 4 TITUS DESV 350 350 350 0.4" 6" 13.2 1.3 55°F/90°F 180°F/160°F 2-W/ 5 TITUS DESV 350 350 0.4" 6" 13.2 1.3 55°F/90°F 180°F/160°F 2-W/ 5 TITUS DESV 300 300 0.4" 6" 11.3 1.1 55°F/90°F 180°F/160°F 2-W/ 6 TITUS DESV 300 300 0.4" 6" 11.3 1.1 55°F/90°F		MANUFACTURER	MODEL		MAXCFM		L9F	SIZE	CAP. (MBH)	GPM	EAT/LAT	EWT/LWT	C.V.
Integration DESU Desu	1	TITUS	DESV	350	350	350	0.4"	6"	13.2	1.3	55°F/90°F	180°F/160°F	2-WAY
4 TITUS DESV 350 350 350 0.4" 6" 13.2 1.3 55°F/90°F 180°F/160°F 2-W/ 5 TITUS DESV 350 350 350 0.4" 6" 13.2 1.3 55°F/90°F 180°F/160°F 2-W/ 5 TITUS DESV 350 350 0.4" 6" 13.2 1.3 55°F/90°F 180°F/160°F 2-W/ 6 TITUS DESV 300 300 300 0.4" 6" 11.3 1.1 55°F/90°F 180°F/160°F 2-W/ 7 (EXISTING) SEE NOTE D 1500 750 450 0.4" 12" 28.4 2.8 55°F/90°F 180°F/160°F 3-W/ 8 TITUS DESV 300 300 0.4" 6" 11.3 1.1 55°F/90°F 180°F/160°F 2-W/ 9 TITUS DESV 300 300 0.4" 6" 11.3 1.1 55°F/90°F 180°F/160°F 2-W/ 9 TITUS DESV 450 450 <	2	TITUS	DESV	300	300	300	0.4"	6"	11.3	1.1	55°F/90°F	180°F/160°F	2-WAY
THOS DESV 350 000 000 0.4" 0 10.2 100 000000000000000000000000000000000000	3	TITUS	DESV	2000	2,000	2,000	0.4"	14"	75.6	7.6	55°F/90°F	180°F/160°F	3-WAY
3 TITUS DESV 300 300 300 0.4" 6" 11.3 1.1 55°F/90°F 180°F/160°F 2-W/ 7 (EXISTING) SEE NOTE D 1500 750 450 0.4" 12" 28.4 2.8 55°F/90°F 180°F/160°F 3-W/ 8 TITUS DESV 300 300 0.4" 6" 11.3 1.1 55°F/90°F 180°F/160°F 3-W/ 9 TITUS DESV 300 300 300 0.4" 6" 11.3 1.1 55°F/90°F 180°F/160°F 2-W/ 9 TITUS DESV 450 450 0.4" 8" 17.0 1.7 55°F/90°F 180°F/160°F 2-W/ 9 TITUS DESV 450 450 0.4" 8" 17.0 1.7 55°F/90°F 180°F/160°F 2-W/ 0 (EXISTING) SEE NOTE D 500 250 150 0.4" 10" 9.5 0.9 55°F/90°F 180°F/160°F 2-W/ 1 TITUS DESV 400 200 1	4	TITUS	DESV	350	350	350	0.4"	6"	13.2	1.3	55°F/90°F	180°F/160°F	2-WAY
TITUS DESV 450 750 450 0.4" 12" 28.4 2.8 55°F/90°F 180°F/160°F 3.4% 8 TITUS DESV 300 300 0.4" 6" 11.3 1.1 55°F/90°F 180°F/160°F 2.4% 9 TITUS DESV 450 450 0.4" 6" 11.3 1.1 55°F/90°F 180°F/160°F 2.4% 9 TITUS DESV 450 450 0.4" 6" 11.3 1.1 55°F/90°F 180°F/160°F 2.4% 0 (EXISTING) SEE NOTE D 500 250 150 0.4" 8" 17.0 1.7 55°F/90°F 180°F/160°F 2.4% 1 TITUS DESV 400 200 120 0.4" 8" 7.6 0.8 55°F/90°F 180°F/160°F 2.4% 2 (EXISTING) SEE NOTE D 550 275 165 0.4" 10" 10.4 1.0 55°F/90°F 180°F/160°F	5	TITUS	DESV	350	350	350	0.4"	6"	13.2	1.3	55°F/90°F	180°F/160°F	2-WAY
B TITUS DESV 300 300 300 0.4" 6" 11.3 1.1 55°F/90°F 180°F/160°F 2-W/ 9 TITUS DESV 450 450 450 0.4" 8" 17.0 1.7 55°F/90°F 180°F/160°F 2-W/ 9 TITUS DESV 450 450 0.4" 8" 17.0 1.7 55°F/90°F 180°F/160°F 2-W/ 0 (EXISTING) SEE NOTE D 500 250 150 0.4" 10" 9.5 0.9 55°F/90°F 180°F/160°F 2-W/ 1 TITUS DESV 400 200 120 0.4" 8" 7.6 0.8 55°F/90°F 180°F/160°F 2-W/ 2 (EXISTING) SEE NOTE D 550 275 165 0.4" 10" 10.4 1.0 55°F/90°F 180°F/160°F 2-W/ 2 (EXISTING) SEE NOTE D 550 275 165 0.4" 10" 10.4 1.0	6	TITUS	DESV	300	300	300	0.4"	6"	11.3	1.1	55°F/90°F	180°F/160°F	2-WAY
P TITUS DESV 450 450 450 0.4" 8" 17.0 1.7 55°F/90°F 180°F/160°F 2-W/ 0 (EXISTING) SEE NOTE D 500 250 150 0.4" 10" 9.5 0.9 55°F/90°F 180°F/160°F 2-W/ 1 TITUS DESV 400 200 120 0.4" 8" 7.6 0.8 55°F/90°F 180°F/160°F 2-W/ 2 (EXISTING) SEE NOTE D 550 275 165 0.4" 10" 10.4 1.0 55°F/90°F 180°F/160°F 2-W/	7	(EXISTING) SEE	NOTE D	1500	750	450	0.4"	12"	28.4	2.8	55°F/90°F	180°F/160°F	3-WAY
0 (EXISTING) SEE NOTE D 500 250 150 0.4" 10" 9.5 0.9 55°F/90°F 180°F/160°F 2-W/ 1 TITUS DESV 400 200 120 0.4" 8" 7.6 0.8 55°F/90°F 180°F/160°F 2-W/ 2 (EXISTING) SEE NOTE D 550 275 165 0.4" 10" 10.4 1.0 55°F/90°F 180°F/160°F 2-W/	8	TITUS	DESV	300	300	300	0.4"	6"	11.3	1.1	55°F/90°F	180°F/160°F	2-WAY
I TITUS DESV 400 200 120 0.4" 8" 7.6 0.8 55°F/90°F 180°F/160°F 2-W/ 2 (EXISTING) SEE NOTE D 550 275 165 0.4" 10" 10.4 1.0 55°F/90°F 180°F/160°F 2-W/	9	TITUS	DESV	450	450	450	0.4"	8"	17.0	1.7	55°F/90°F	180°F/160°F	2-WAY
2 (EXISTING) SEE NOTE D 550 275 165 0.4" 10" 10.4 1.0 55°F/90°F 180°F/160°F 2-W/	0	(EXISTING) SEE	NOTE D	500	250	150	0.4"	10"	9.5	0.9	55°F/90°F	180°F/160°F	2-WAY
	1	TITUS	DESV	400	200	120	0.4"	8"	7.6	0.8	55°F/90°F	180°F/160°F	2-WAY
3 TITUS DESV 300 150 90 0.4" 6" 5.7 0.6 55°F/90°F 180°F/160°F 3-W	2	(EXISTING) SEE	NOTE D	550	275	165	0.4"	10"	10.4	1.0	55°F/90°F	180°F/160°F	2-WAY
	3	TITUS	DESV	300	150	90	0.4"	6"	5.7	0.6	55°F/90°F	180°F/160°F	3-WAY

REQUIRED, CONTRACTOR TO PROVIDE TRANSITION FROM DUCT SIZE SHOWN ON PLANS TO SCHEDULED BOX SIZE

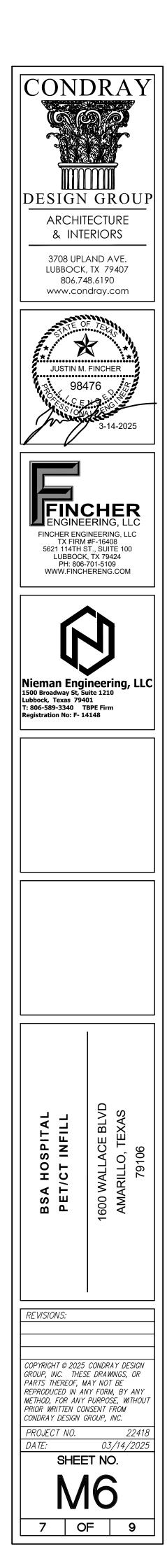
ROVIDE ALL VAV BOXES WITH TITUS 'STERILOC' LINER.

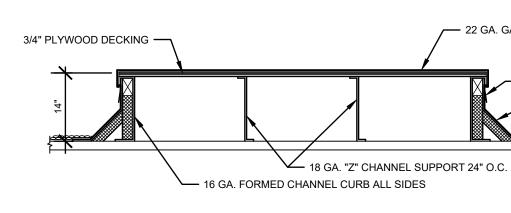
VLET DUCT SIZE SHALL MATCH SCHEDULED VAV BOX SIZE UNLESS NOTED OTHERWISSE ON PLANS WITH 6"Ø BEING MINIMUM DUCT SIZE

NDENSATE RETURN PUMP SCHEDULE - ELECTRIC							
LOCATION	CAPACITY (GPM)	DISCHARGE PRESSURE (PSIG)	RPM	RECIEVER SIZE (GAL)	MOTOR SIZE	ELECTRICAL DATA	
LOCATION	CAFACITI (GFM)	DISCHARGE FRESSORE (FSIG)			WOTOR SIZE	VOLTS/PHASE	
BASEMENT	20.0	20 PSI	3,450	21 GALLON	1/3 HP	480/3	

PARRANGEMENT. T IRON RECIEVER.

RMOMETER, FLOAT SWITCHES, MECHANICAL ALTERNATOR, INLET STRAINER, GUAGE GLASS, TWO DISCHARGE CHECK VALVES, AND DISCHARGE



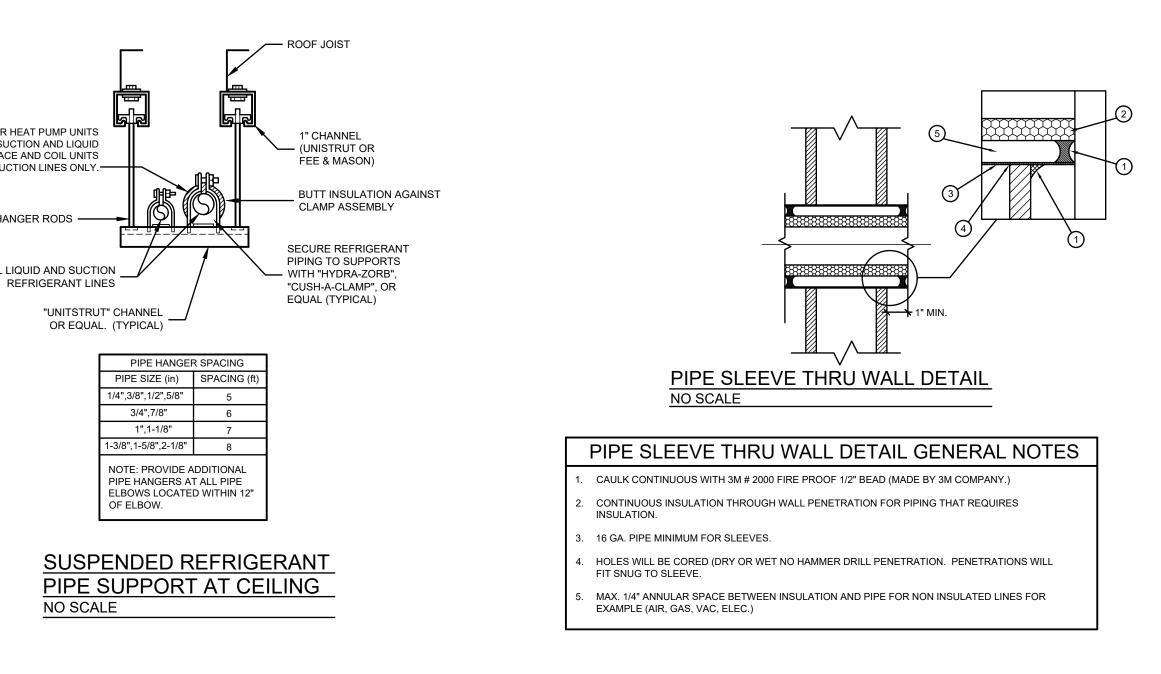


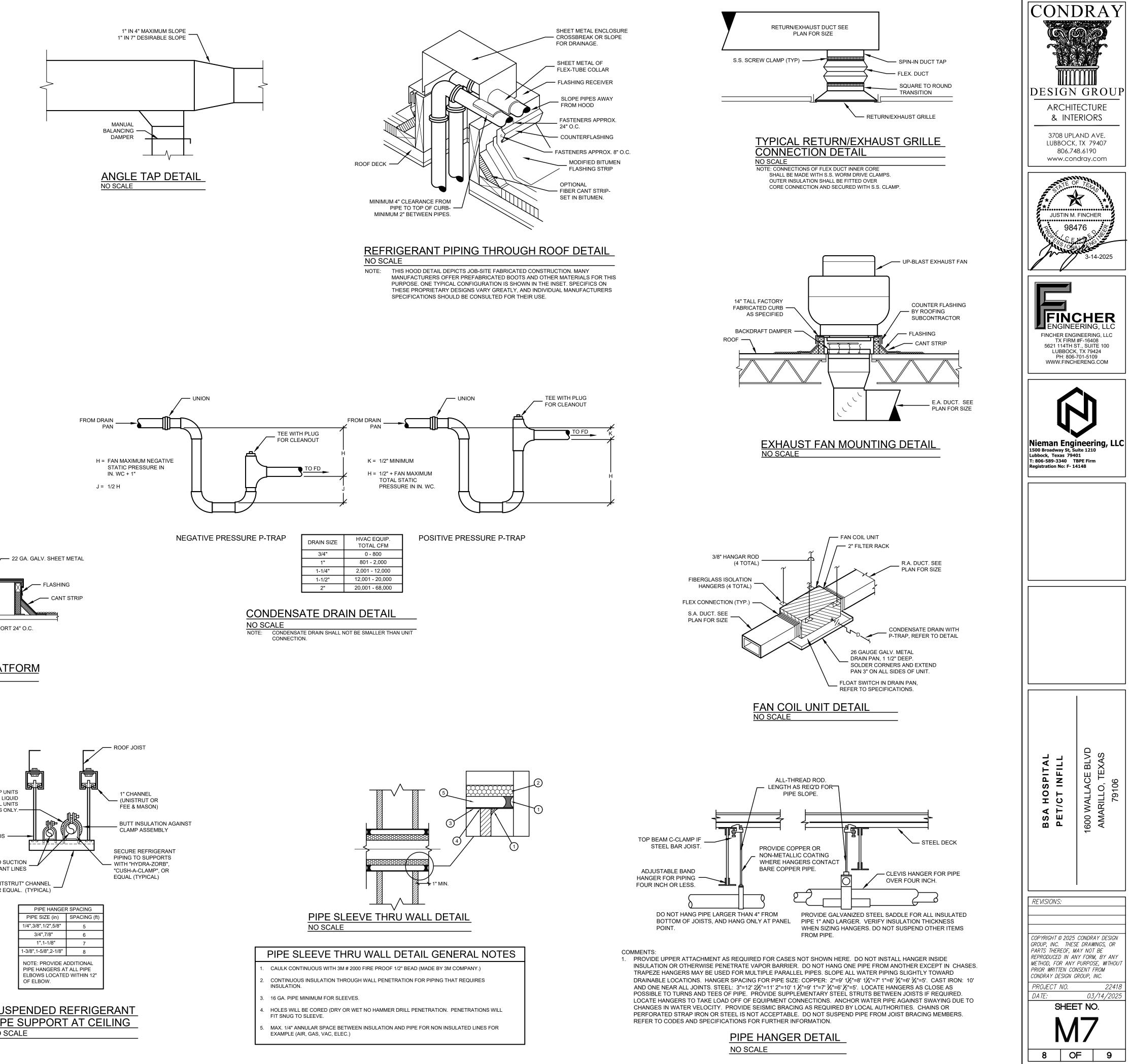
CONDENSING UNIT MOUNTING PLATFORM

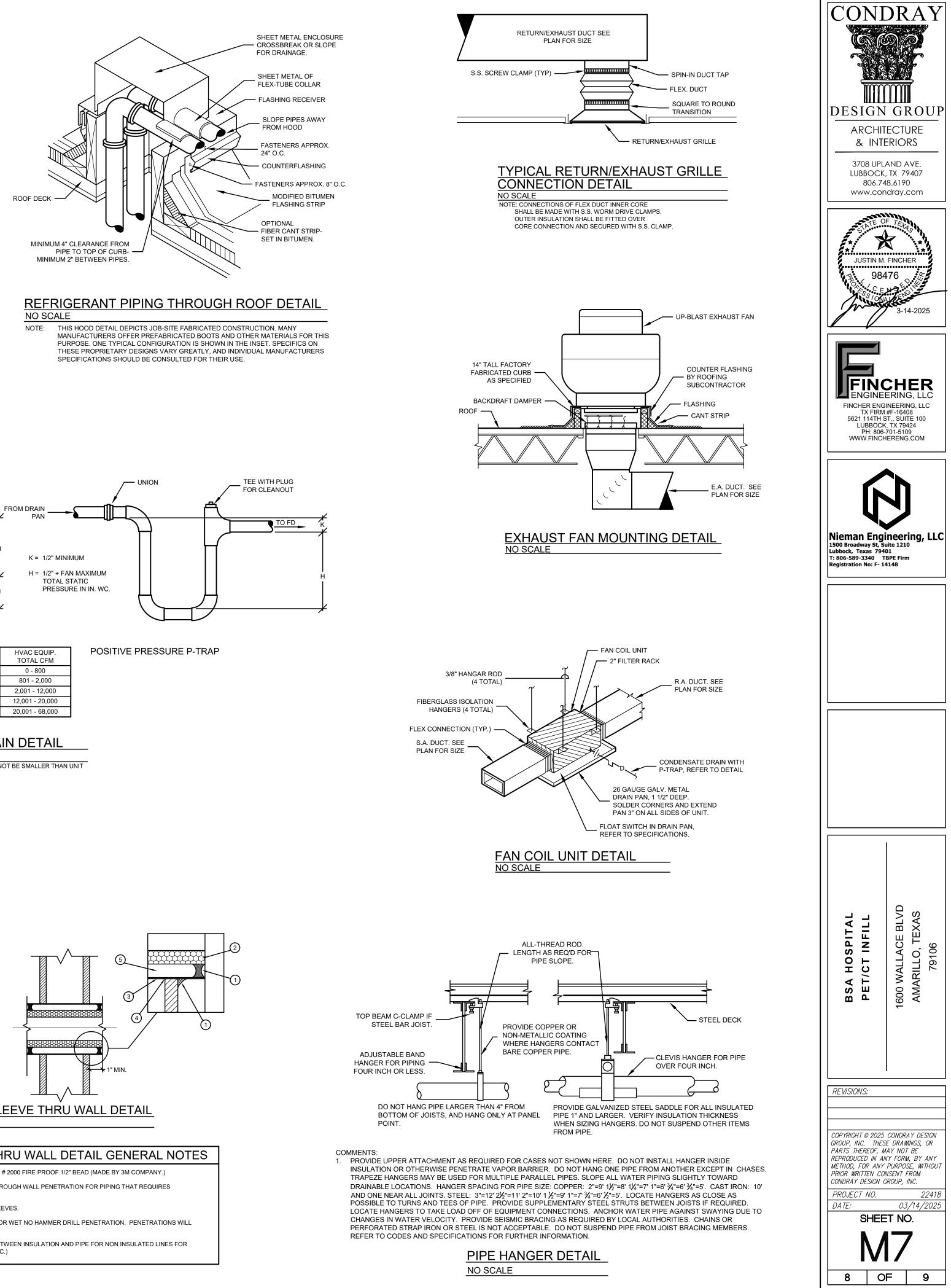
PIPE INSULATION. FOR HEAT PUMP UNITS INSULATE BOTH THE SUCTION AND LIQUID LINES. FOR FURNACE AND COIL UNITS INSULATE THE SUCTION LINES ONLY.

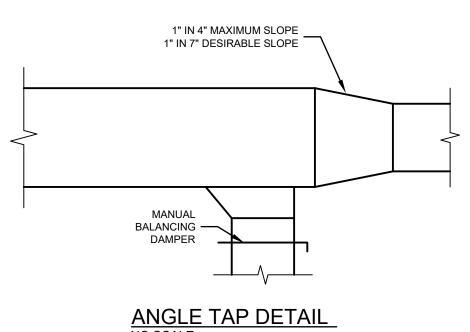
HANGER RODS -

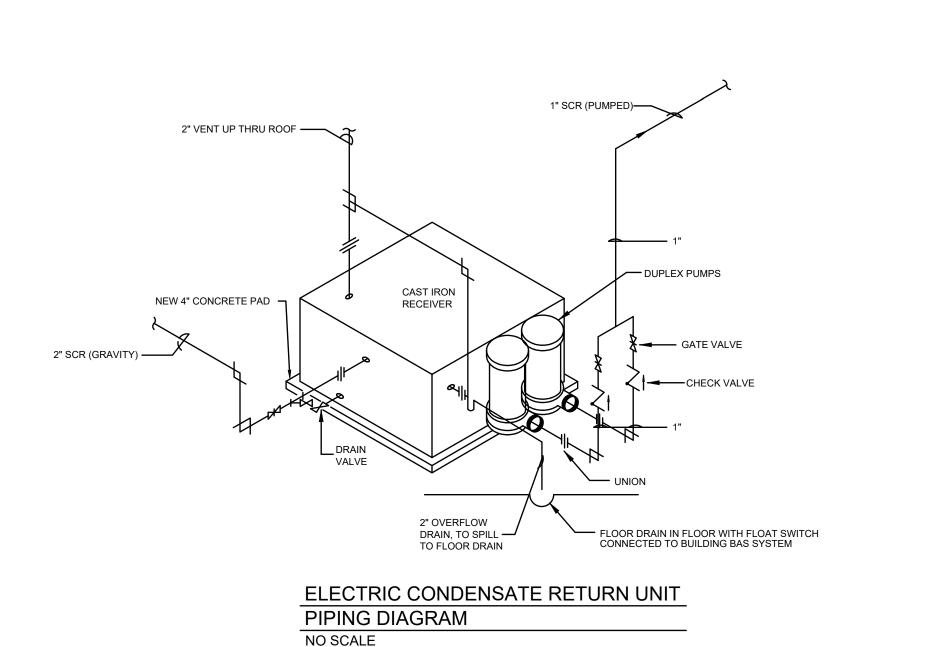
TYPICAL LIQUID AND SUCTION

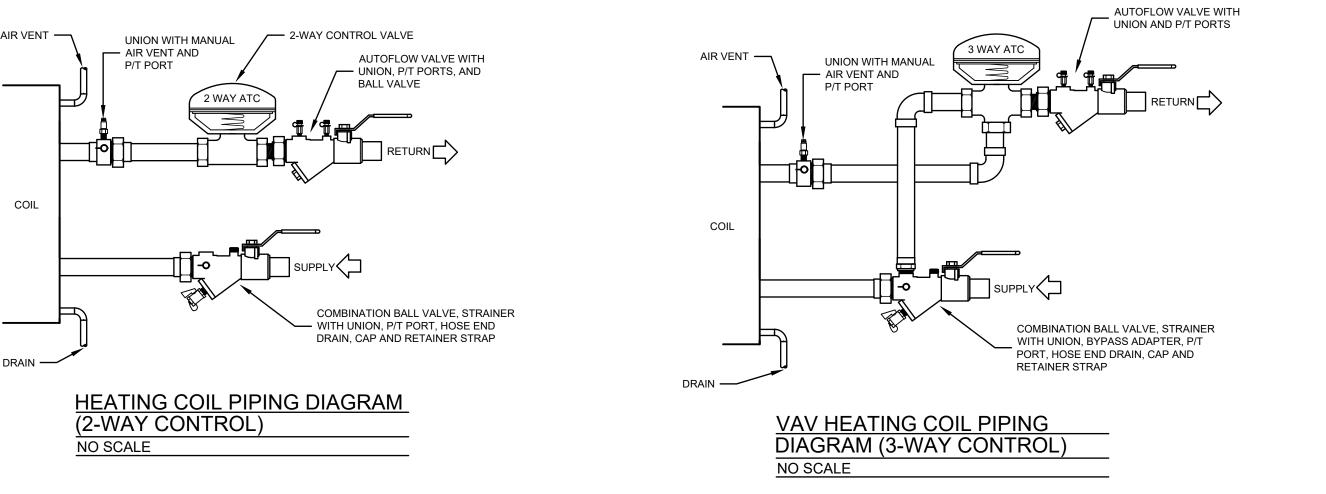


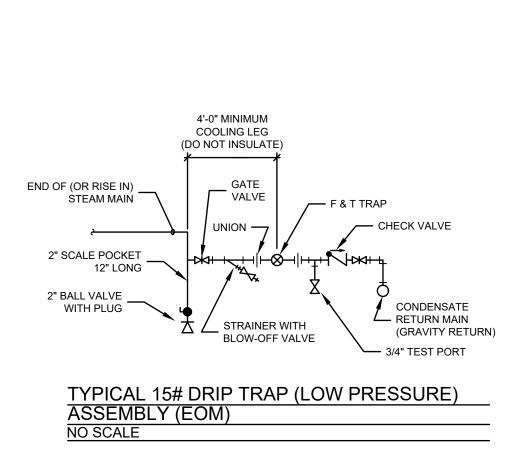


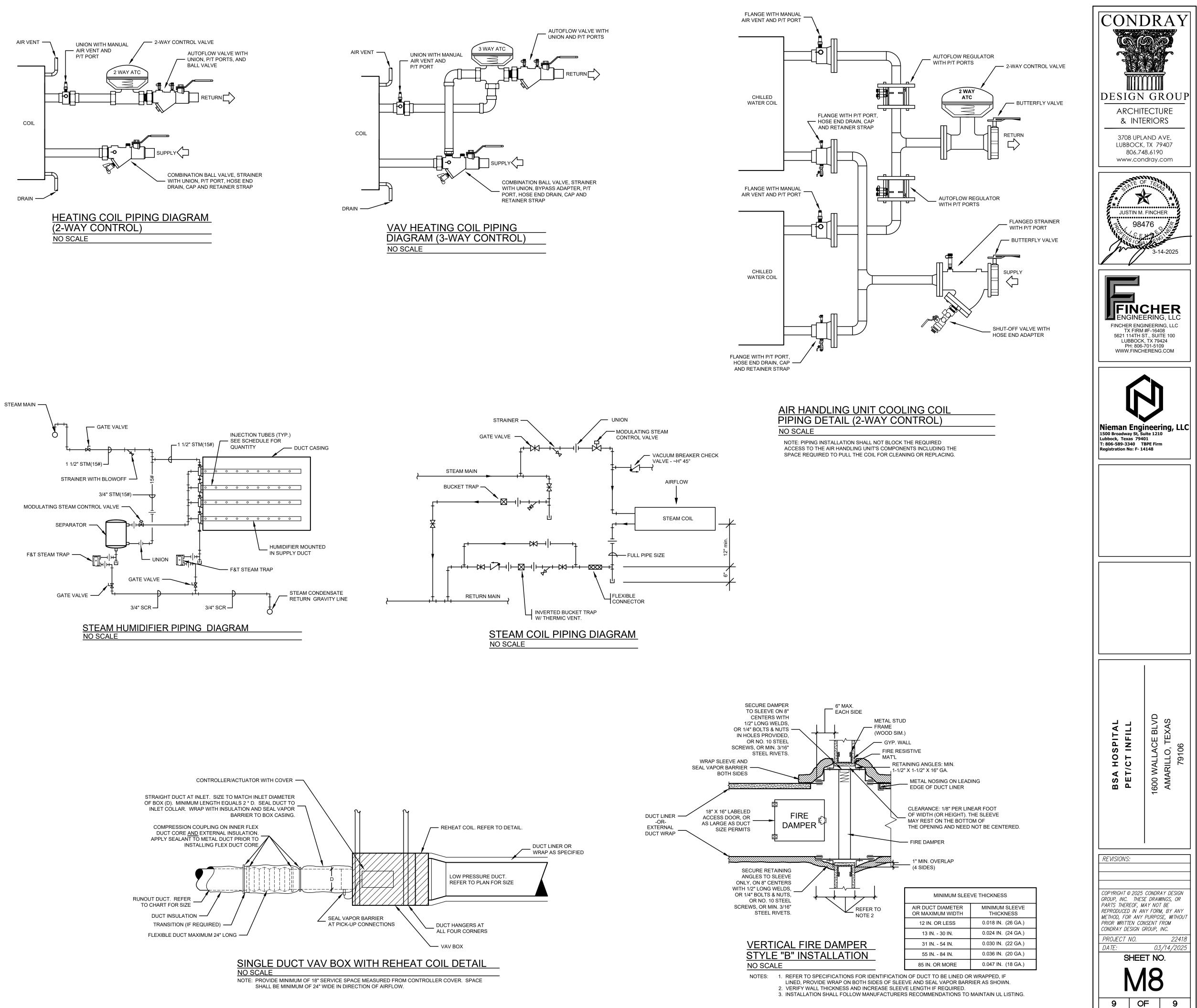


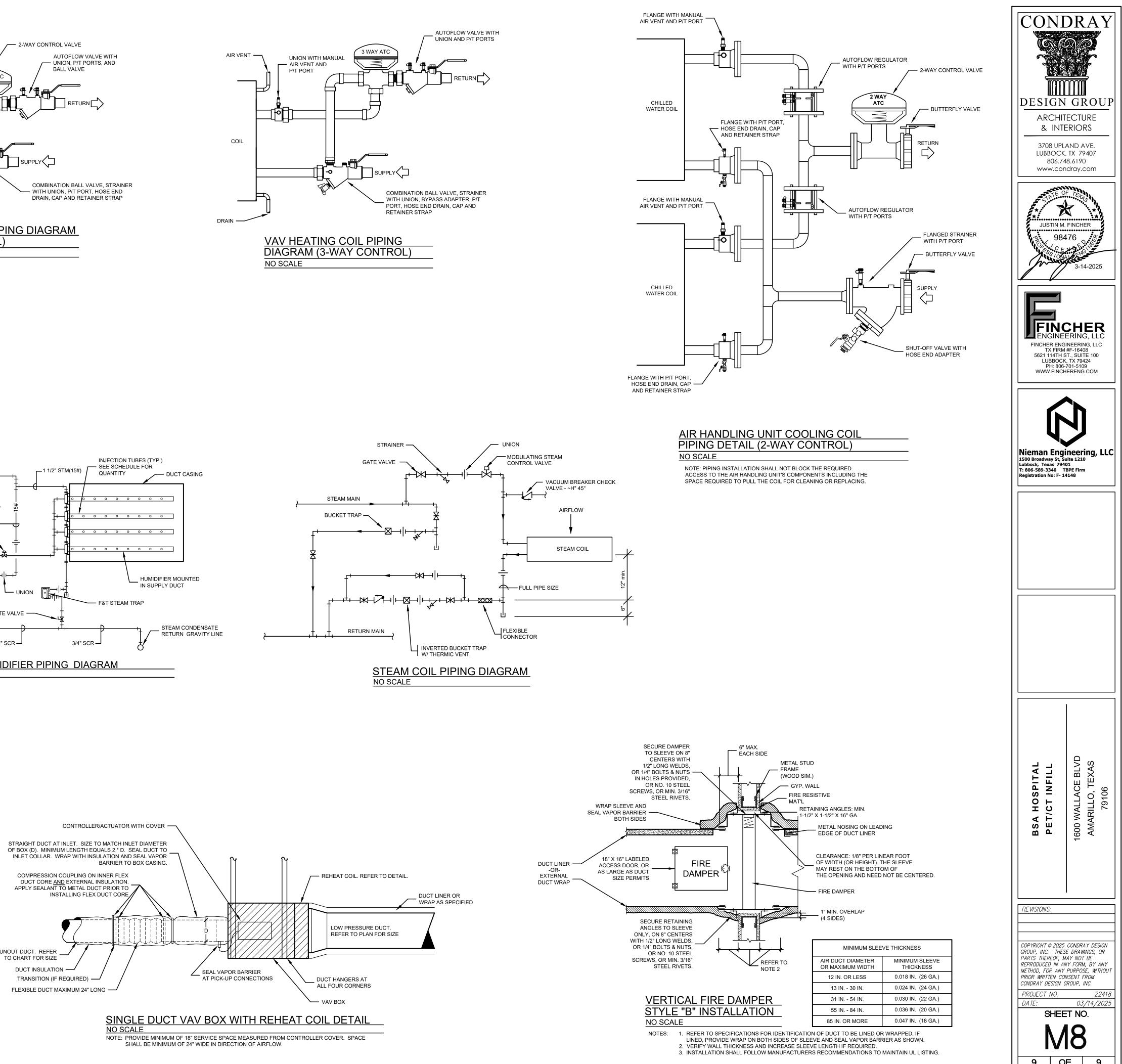












	PLUMBIN
1.	THESE DRAWINGS HAVE BEEN PRODUCED WITH LIMITED INFORMATION ABOUT THE EXISTING BUILDING AND THE EXISTING PLUMBIN SYSTEMS. THE EXISTING INFORMATION MAY BE LIMITED TO SITE SURVEYS PERFORMED BY THE ENGINEER AND/OR EXISTING AS-BU DRAWINGS. THE EXISTING PLUMBING SYSTEMS SHOWN ON THE DRAWINGS ARE DETAILED WITH THE BEST ACCURACY KNOWN BY TI ENGINEER AT THE TIME OF THE PROJECT, AND MAY NOT REFLECT THE ACTUAL EXISTING CONDITIONS ON SITE. THE CONTRACTOR SHALL ADJUST THE NEW INSTALLATION AS NEEDED TO ADAPT TO THE ACTUAL CONDITIONS, AND SHALL NOTIFY THE ARCHITECT OF MAJOR DISCREPANCIES.
2.	VERIFY THE EXACT LOCATION OF ALL EXISTING EQUIPMENT AND PIPING AT JOBSITE. CONTRACTOR SHALL WALK THE SITE AND BEC FAMILIAR WITH ALL EXISTING SYSTEMS AND INSTALLATIONS. CONTRACTOR SHALL TAKE CARE TO PROTECT ALL OPERATIONAL SYSTEMS. ANY EXISTING SYSTEMS THAT ARE DAMAGED DURING CONSTRUCTION SHALL BE REPAIRED OR REPLACED AT THE EXPEN OF THE CONTRACTOR.
3.	FOR ALL ITEMS SHOWN TO BE REMOVED, REMOVE ALL ASSOCIATED ITEMS INCLUDING HANGERS, SUPPORTS, PIPE RUNOUTS, ELECTRICAL WIRING, CONTROL WIRING, ECT. THE OVERALL INTENT OF THE DEMOLITION SHALL BE TO CLEAN UP THE EXISTING ARE/ MUCH AS POSSIBLE OF OLD ITEMS THAT ARE NO LONGER BEING UTILIZED FOR THE NEW SCOPE OF WORK.
4.	CONTRACTOR SHALL COORDINATE ALL PLUMBING DISCONNECTIONS AND INTERRUPTIONS WITH BUILDING OWNER. ANY SHUT DOWN OF EXISTING SYSTEMS THAT ARE REQUIRED SHALL BE COORDINATE WITH THE BUILDING OWNER MINIMUM 7 DAYS IN ADVANCE, AND SHALL BE DONE TO MINIMIZE THE DISTURBANCE TO THE BUILDING OCCUPANTS.
5.	VERIFY EXACT SCHEDULE AND PHASING OF PROJECT WITH THE ARCHITECT.
6.	THE BUILDING OWNER SHALL RETAIN THE FULL RIGHTS OF SALVAGE FOR ALL PLUMBING EQUIPMENT INDICATED TO BE REMOVED. T CONTRACTOR SHALL COORDINATE WITH OWNER ON ALL SALVAGED ITEMS. THE CONTRACTOR SHALL DELIVER THESE PIECES OF EQUIPMENT TO A LOCATION AS DIRECTED BY THE OWNER. FOR ALL ITEMS THAT THE OWNER DOES NOT SALVAGE, THE CONTRACTOR SHALL DISPOSE OF OFF SITE AS REQUIRED.
7.	SEAL PENETRATIONS THROUGH FLOORS, WALLS, CEILINGS AND ROOFS WHERE MECHANICAL COMPONENTS ARE REMOVED AND WHE THE EXISTING PENETRATION IS NOT USED FOR THE NEW INSTALLATION. REPAIR DAMAGED SURFACES TO MATCH ADJACENT AREAS AS INDICATED ON THE ARCHITECTURAL DRAWINGS. INSTALL PERMANENT CAPS PIPING IS REMOVED AND THE EXISTING TAPS ARE NUSED FOR THE NEW INSTALLATION.
8.	INSPECT EXISTING EQUIPMENT TO REMAIN TO VERIFY THAT EQUIPMENT IS OPERATING PROPERLY. NOTIFY OWNER OF DAMAGED AND/OR MALFUNCTIONING COMPONENTS.
9.	SAWCUT ALL EXISTING CONCRETE SLAB AS REQUIRED TO INSTALL NEW UNDER FLOOR PLUMBING LINES. PATCH AND REPAIR ALL CONCRETE SLAB AS REQUIRED TO RETURN TO EXISTING CONDITIONS AS DIRECTED BY ARCHITECT.
10.	IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO REVIEW THESE PLANS AND SPECIFICATIONS IN ADDITION TO THE RELATED MECHANICAL, ELECTRICAL, STRUCTURAL, ARCHITECTURAL, AND CIVIL ENGINEERING DRAWINGS TO BECOME FAMILIAR WITH THE ENTIRE SCOPE OF THE PROJECT. IN ADDITION, THE CONTRACTOR MUST COORDINATE WITH THE OWNER OR OWNER'S REPRESENTATIVE TO FULLY UNDERSTAND ALL REQUIREMENTS WHICH MAY NOT BE SPECIFIED HEREIN AND WHICH THE OWNER MA CONSIDER PART OF THIS CONTRACT. DURING THE COURSE OF CONSTRUCTION, IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO WORK CLOSELY WITH ALL ACCOMPANYING CONTRACTORS AND TRADESMEN IN ORDER TO ENSURE A SMOOTH RUNNING AND CAREFULLY COORDINATED INSTALLATION.
11.	ALL WORK SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF ALL APPLICABLE CODES AND REGULATIONS INCLUDING, BUT NO LIMITED TO, NATIONAL, CITY, STATE, AND ANY LOCAL ORDINANCES WHICH MAY BE IN EFFECT. ALL MATERIALS, INSTALLATION PROCEDURES, AND SYSTEM LAYOUTS SHALL BE APPROVED BY ALL APPLICABLE CODE ENFORCEMENT AUTHORITIES HAVING JURISDICTION, AND IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO PAY FOR ALL NECESSARY PERMITS AND APPROVALS FOR THIS WORK.
12.	THE CONTRACTOR SHALL PROVIDED ALL NECESSARY COMPONENTS FOR A COMPLETE AND FULLY OPERATIONAL SYSTEM FOR THE BUILDING OWNER. MATERIALS, EQUIPMENT OR LABOR NOT INDICATED, BUT WHICH CAN BE REASONABLY INFERRED TO BE NECESSAF FOR A COMPLETE INSTALLATION SHALL BE PROVIDED. THE DRAWINGS AND SPECIFICATIONS DO NOT UNDERTAKE TO INDICATE EVE ITEM OF MATERIAL, EQUIPMENT OR LABOR REQUIRED TO PRODUCE A SAFE, COMPLETE AND PROPERLY OPERATING SYSTEM.
13.	THE DRAWING SHEETS SHALL BE PRINTED USING THE CORRECT PAPER SIZE IN ORDER FOR ANY SCALED ITEMS TO BE ACCURATE. HOWEVER, THE CONTRACTOR SHALL NOT RELY ON THE SCALED DRAWINGS FOR EXACT MEASUREMENTS. THE LOCATIONS, ARRANGEMENT AND EXTENT OF EQUIPMENT, PIPING, DUCTWORK, AND ITEMS RELATED TO THE INSTALLATION OF THE PLUMBING W SHOWN ARE APPROXIMATE. THE DRAWINGS ARE DIAGRAMMATIC IN NATURE.
14.	ANY DISCREPANCIES OR INADEQUACIES WITHIN THESE BID DOCUMENTS OR BETWEEN THESE BID DOCUMENTS AND THE RELATED MECHANICAL, FIRE PROTECTION, ELECTRICAL, STRUCTURAL, ARCHITECTURAL, INTERIOR, AND CIVIL ENGINEERING DRAWINGS, OR BETWEEN THESE BID DOCUMENTS AND FIELD CONDITIONS MUST BE BROUGHT TO THE ATTENTION OF THE ARCHITECT. SHOULD THE CONTRACTOR REQUIRE FURTHER CLARIFICATION, AN RFI SHALL BE SUBMITTED FOR CLARIFICATION. WHERE CONFLICTS DO EXIST, PROJECT ENGINEER OF RECORD, THROUGH THE ARCHITECT, SHALL HAVE SOLE DISCRETION AND RIGHT TO PROVIDE INTERPRETAT OF INTENT OF THE CONTRACT DOCUMENTS AS REQUIRED. THIS INTERPRETATION SHALL SERVE TO DIRECT THE CONTRACTOR IN ACCORDANCE WITH THE IMPLIED INTENT OF THE CONSTRUCTION DOCUMENTS WITHOUT ADDITIONAL COST TO THE PROJECT.
15.	THE CONTRACTOR SHALL PROVIDE THE BUILDING OWNER WITH A COMPLETE SET OF "AS BUILT" DRAWINGS SHOWING ALL FIELD MODIFICATIONS THAT DEVIATE FROM THE CONSTRUCTION SET OF PLANS AT THE COMPLETION OF THE PROJECT
16.	CONTRACTOR SHALL COORDINATE EXACT UTILITY REQUIREMENTS WITH LOCAL UTILITY COMPANIES PRIOR TO BID AND INCLUDE AL FEES REQUIRED FOR NEW UTILITY SERVICES TO BUILDING. ALL NEW SERVICES AND TAPS SHALL BE INSTALLED ACCORDING TO STANDARDS AND REQUIREMENTS OF THE LOCAL CITY. VERIFY EXACT LOCATION OF ALL EXISTING UTILITIES AND PIPING AT THE JOBSITE. CONTRACTOR SHALL FIELD VERIFY EXACT LOCATION OF ALL UTILITIES PRIOR TO BID. SITE UTILITIES SHOWN ON DRAWING ARE SHOWN BASED ON INFORMATION PROVIDED TO ENGINEER AT THE TIME OF THE PROJECT.
17.	 ORDER OF PRECEDENCE SHALL BE OBSERVED IN LAYING OUT THE PIPE, DUCTWORK, MATERIAL, AND CONDUIT IN ORDER TO FIT THE MATERIAL INTO THE SPACE ABOVE THE CEILING AND IN THE CHASES AND WALLS. THE FOLLOWING ORDER SHALL GOVERN: 1. ITEMS AFFECTING THE VISUAL APPEARANCE OF THE INSIDE OF THE BUILDING SUCH AS LIGHTING FIXTURES, DIFFUSERS, GRILLES OUTLETS, PANELBOARDS, ETC. COORDINATE ALL ITEMS TO AVOID CONFLICTS AT THE SITE. 2. LINES REQUIRING GRADE TO FUNCTION SUCH AS SEWERS, ROOF DRAINS AND CONDENSATE DRAINS. 3. LARGE DUCTS AND PIPES WITH CRITICAL CLEARANCES. 4. FIRE SPRINKLER LINES, CONDUIT, WATER LINES, AND OTHER LINES WHOSE ROUTING IS NOT CRITICAL AND WHOSE FUNCTION WOR NOT BE IMPAIRED BY BENDS AND OFFSETS.
18.	MOUNTING HEIGHT OF ALL PLUMBING FIXTURES SHALL BE COORDINATED WITH ARCHITECT PRIOR TO INSTALLATION.
19.	ALL PIPING TO BE CONCEALED IN CEILINGS, CHASES, AND FURRED SPACES UNLESS NOTED OTHERWISE.
20.	REFER TO PLUMBING FIXTURE CONNECTION SCHEDULE FOR RUNOUT LINE SIZES TO INDIVIDUAL FIXTURES WHERE LINE SIZES ARE I INDICATED ON FLOOR PLAN.
21.	PROVIDE POINT-OF-USE MIXING VALVE BELOW ALL LAVATORIES AND HAND SINKS AND SET TO PROVIDE MAXIMUM OF 100°F WATER

PLUMBING GENERAL NOTES

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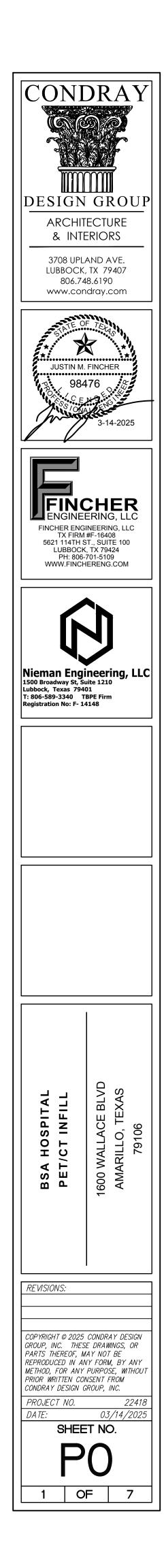
- HOT WATER SIDE OF ALL FAUCETS. VERIFY MOUNTING LOCATION OF MIXING VALVE WITH OWNER AND WITH ADA CLEARANCE. MIXING VALVE SHALL BE EQUAL TO BRADLEY S59. 22. DURING CONSTRUCTION, ALL FLOOR DRAINS AND OPEN ENDED PIPES SHALL BE COVERED TO PREVENT DEBRIS FROM GETTING INSIDE. THE CONTRACTOR SHALL ALSO PROVIDE TEMPORARY HEATING INSIDE THE BUILDING IF REQUIRED TO AVOID FREEZING OF WATER PIPING SYSTEMS.
- HANDLE AND STORE MATERIALS IN ACCORDANCE WITH MANUFACTURER'S AND SUPPLIER'S RECOMMENDATIONS AND IN A MANNER TO PREVENT DAMAGE TO MATERIALS DURING STORAGE AND HANDLING. REPLACE DAMAGED MATERIALS AS NEEDED AT NO ADDITIONAL COST TO THE OWNER. EQUIPMENT AND MATERIALS SHALL NOT BE INSTALLED UNTIL SUCH TIME AS THE ENVIRONMENTAL CONDITIONS OF THE JOB SITE ARE SUITABLE TO PROTECT THE EQUIPMENT OR MATERIALS. PVC PIPING SHALL NOT BE STORED IN THE DIRECT SUNLIGHT, PROVIDE TARPS OR SIMILAR MATERIAL AS NEEDED TO PROTECT PVC PIPING. EQUIPMENT OR MATERIALS DAMAGED, OR WHICH ARE SUBJECTED TO THESE ELEMENTS, ARE UNACCEPTABLE AND SHALL BE REMOVED FROM THE PREMISES AND REPLACED.
- 24. ROUTE PIPES PARALLEL AND PERPENDICULAR TO THE BUILDING STRUCTURE UNLESS OTHERWISE SHOWN ON PLANS. INSTALL ALL PIPING AS HIGH AS POSSIBLE WITHIN THE AVAILABLE SPACE. PLUMBING EQUIPMENT AND PIPES SHALL BE INDEPENDENTLY SUPPORTED FROM THE BUILDING STRUCTURE. INSTALL PIPES TO ALLOW FOR THE REMOVAL OF ALL CEILING TILES, REFER TO ARCHITECTURAL REFLECTED CEILING PLAN. COORDINATE AS REQUIRED TO AVOID CONFLICTS.
- 25. MAINTAIN MINIMUM 25'-0" SEPARATION BETWEEN OUTSIDE AIR INTAKES AND ALL EXHAUST FANS, FLUES, AND PLUMBING VENTS. 26. PROVIDE P-TRAP AND CONDENSATE DRAIN LINE AT ALL UNITS, REFER TO DETAILS AND SPECIFICATIONS. CONDENSATE DRAINS SHALL BE ROUTED TO THE NEAREST APPROVED MOP SINK, FLOOR SINK, FLOOR DRAIN, OR OTHER APPROVED RECEPTOR WITH AN INDIRECT CONNECTION AS SHOWN ON PLANS. CONDENSATE SHALL NOT BE ALLOWED TO DRAIN ONTO ANY WALKWAY AREA THAT WOULD CAUSE A NUISANCE.
- 27. PIPING IS SHOWN FOR DIAGRAMMATIC PURPOSES ONLY. CONTRACTOR SHALL COORDINATE EXACT ROUTING OF PIPING AT JOBSITE. PROVIDE ALL REQUIRED OFFSETS AND ELBOWS AS REQUIRED FOR A COMPLETE OPERATIONAL SYSTEM. CONTRACTOR SHALL UTILIZE THE STRAIGHTEST PIPE ROUTING PATH POSSIBLE TO MINIMIZE UNNECESSARY PRESSURE DROP WITHIN THE SYSTEM. 28. ALL PIPE PENETRATIONS THROUGH WALLS, CEILINGS, FLOORS, AND ROOFS SHALL BE FULLY SEALED APPROPRIATELY. INSTALL
- SLEEVES FOR PIPING PENETRATIONS FOR RATED WALLS AND FLOORS. INSTALL CHROME PLATED ESCUTCHEONS FOR PIPING PENETRATIONS OF WALLS, CEILINGS, AND FLOORS THAT ARE OPENLY VISIBLE TO BUILDING OCCUPANTS. 29. ALL PLUMBING EQUIPMENT SHALL BE INSTALLED PER THE MANUFACTURE'S INSTRUCTIONS WITH PROPER SUPPORTS OR MOUNTING
- DEVICES. MAINTAIN MANUFACTURER'S RECOMMENDED SERVICE CLEARANCES AROUND EQUIPMENT AT A MINIMUM. DO NOT ROUTE PIPING THROUGH THE SERVICE CLEARANCE AREAS. COORDINATE THESE REQUIREMENTS WITH ALL TRADES IN THE FIELD. ALL PIPING SHALL BE LABELED.
- 30. ANY COST INCURRED AS A RESULT OF VALUE ENGINEERING OR DEVIATIONS FROM THE BASIS OF DESIGN INDICATED IN THE CONTRACT DOCUMENTS (E.G. ELECTRICAL MODIFICATIONS TO ACCOMMODATE ALTERNATE EQUIPMENT SELECTIONS, DESIGN RELATED EXPENSES FOR REQUIRED DRAWING MODIFICATIONS, ETC.) SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR, NO INCREASE IN CONTRACT COST WILL BE GRANTED UNLESS APPROVED IN WRITING BY THE OWNER. CONTRACT DOCUMENTS ARE DEFINED TO INCLUDE ALL DISCIPLINES AND DIVISIONS OF THE CONTRACT.
- 31. ALL INTERIOR EXPOSED PIPING AND EXTERIOR GAS PIPING SHALL BE PRIMED AND PAINTED AS DIRECTED BY ARCHITECT. 32. ALL GAS LINES INSTALLED ABOVE INACCESSIBLE CEILINGS OR IN CHASES/WALLS SHALL BE FULLY WELDED. JOINTS, VALVES, AND THREADED FITTINGS ARE NOT ACCEPTABLE IN THESE AREAS. PROVIDE PVC SLEEVE OF ALL THESE GAS LINES WITH 2" VENT FROM
- SLEEVE UP THRU ROOF TO 180 DEGREE ELBOW WITH INSECT SCREEN 33. PIPING SHALL NOT BE ROUTED THROUGH ELECTRICAL OR I.T. ROOMS, OR DIRECTLY ABOVE ELECTRICAL PANELS OR ELECTRICAL EQUIPMENT.
- 34. PROVIDE ACCESS PANELS IN NON-ACCESSIBLE CEILINGS TO ALLOW ACCESS TO VALVES. PROVIDE LABEL ON ACCESS DOOR INDICATED THE EQUIPMENT.
- 35. ALL PIECES OF EQUIPMENT WITH INDIRECT WASTE LINES SHALL BE PROVIDE AS TYPE L COPPER PIPING AND EXTEND TO SPILL TO FLOOR SINK WITH 1" AIR GAP.
- 36. PROVIDE RPZ BACKFLOW PREVENTER AT WATER LINE CONNECTIONS TO ALL PIECES OF EQUIPMENT AS REQUIRED BY LOCAL JURISDICTION. ALL WATER LINE CONNECTIONS TO ICE MACHINES, SODA MACHINES, COFFEE MACHINES, AND NON-CARBONATED BEVERAGE DISPENSERS SHALL BE PROVIDED WITH SEPARATE RPZ IN WATER LINE AT EACH PIECE OF EQUIPMENT.
- 37. MEDICAL GAS LINES: REFER TO SPECIFICATIONS FOR MEDICAL GAS PIPING MATERIAL. SUPPORT ALL MEDICAL OXYGEN, AND VACUUM LINES WITH UNISTRUT SUPPORTS WITH PIPE CLAMPS EQUAL TO HYDRAZORB CUSH-A-CLAMP. ALL MEDICAL GAS LINES SHALL BE INSTALLED ACCORDING TO ALL REQUIREMENTS OF NFPA 99 CATEGORY 3 SYSTEMS. REFER TO ANY PROJECT SPECIFIC EQUIPMENT DRAWINGS FOR ADDITIONAL INSTALLATION REQUIREMENTS.
- 38. VERIFY EXACT LOCATION OF ALL EXISTING MEDICAL GAS SYSTEMS AND PIPING AT THE JOBSITE. 39. CONTRACTOR SHALL COORDINATE ALL MEDICAL GAS DISCONNECTIONS AND INTERRUPTIONS WITH BUILDING OWNER. VERIFY EXACT SCHEDULE AND PHASING WITH ARCHITECT AND OWNER. THE MEDICAL GAS SYSTEMS BEING MODIFIED SERVING AREAS OUTSIDE OF THE RENOVATED AREAS SHALL REMAIN FULLY OPERATIONAL THROUGH PROJECT EXCEPT FOR A SHORT TIME FOR SWITCHOVER TO NEW PIPING OR TO INSTALL NEW SERVICE VALVES.
- 40. PROVIDE CEILING MOUNTED ACCESS DOORS TO ACCESS ANY VALVES THAT ARE INSTALLED ABOVE INACCESSIBLE CEILINGS. 41. REFER TO MEDICAL GAS OUTLET SCHEDULE FOR RUNOUT LINE SIZES TO INDIVIDUAL MEDICAL GAS OUTLETS WHERE LINE SIZES ARE NOT SHOWN ON THE PLAN.
- 42. MOUNTING HEIGHT OF ALL MEDICAL GAS OUTLETS SHALL BE COORDINATED WITH ARCHITECT PRIOR TO INSTALLATION.
- 43. REFER TO ARCHITECTURAL ELEVATIONS FOR EXACT LOCATIONS, MOUNTING HEIGHTS, AND ORIENTATION OF ALL MEDICAL GAS OUTLETS.
- 44. MEDICAL GAS SYSTEM SHALL BE RE-CERTIFIED AT EACH PHASE OF WORK AS REQUIRED BY NFPA.
- 45. ALL MEDICAL GAS OUTLETS ARE TO MATCH EXISTING BSA MEDICAL GAS SYSTEMS.
- 46. TO AVOID SOUND TRANSMISSION FROM ROOM TO ROOM, PROVIDE SEPARATE PIPING FOR EACH ROOM SO BATT INSULATION CAN BE INSTALLED TO PREVENT SOUND TRANSMISSION.
- 47. ALL MEDICAL GAS BALL VALVES SHOWN ON PLAN SHALL BE LOCKING SERVICE VALVES.

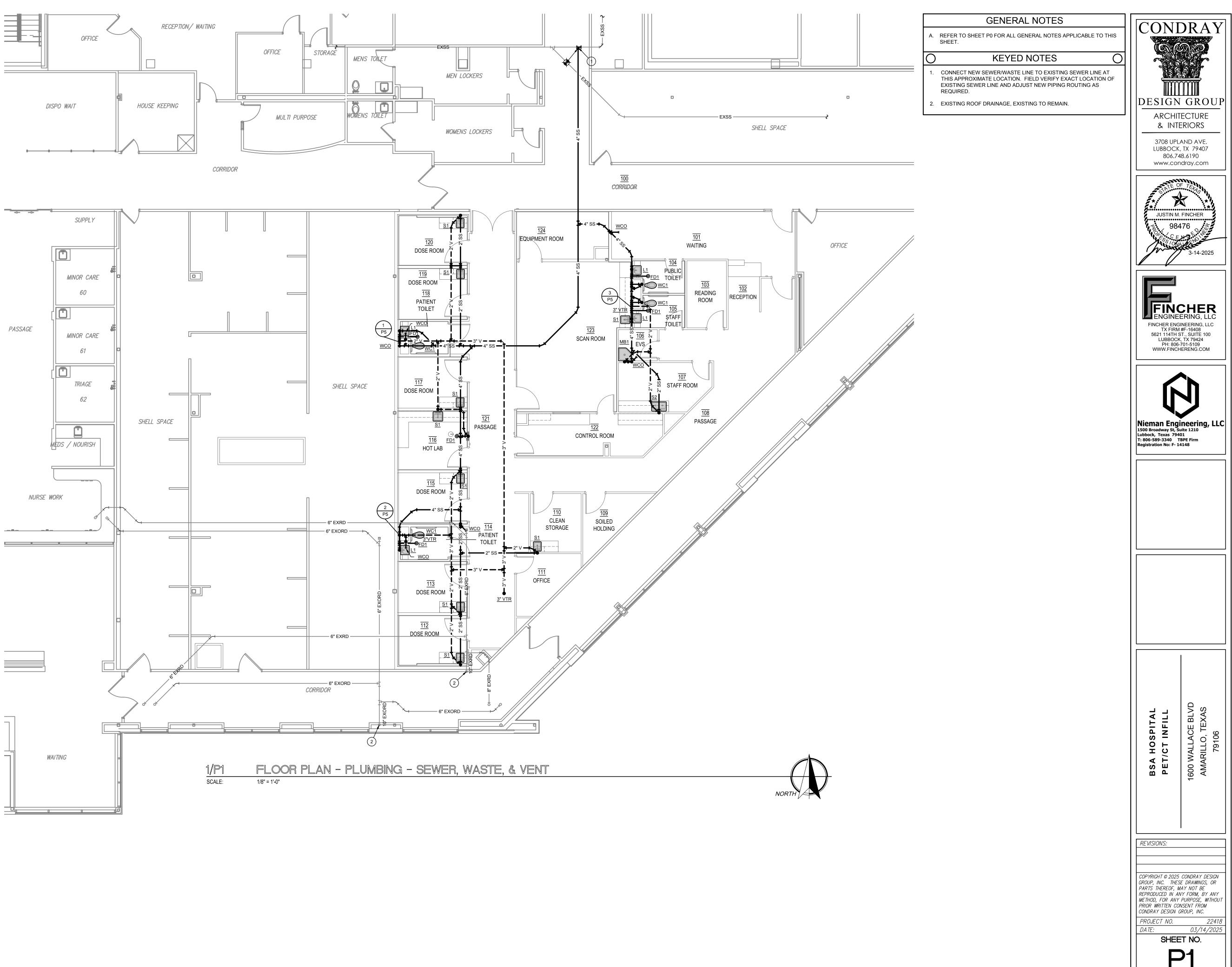
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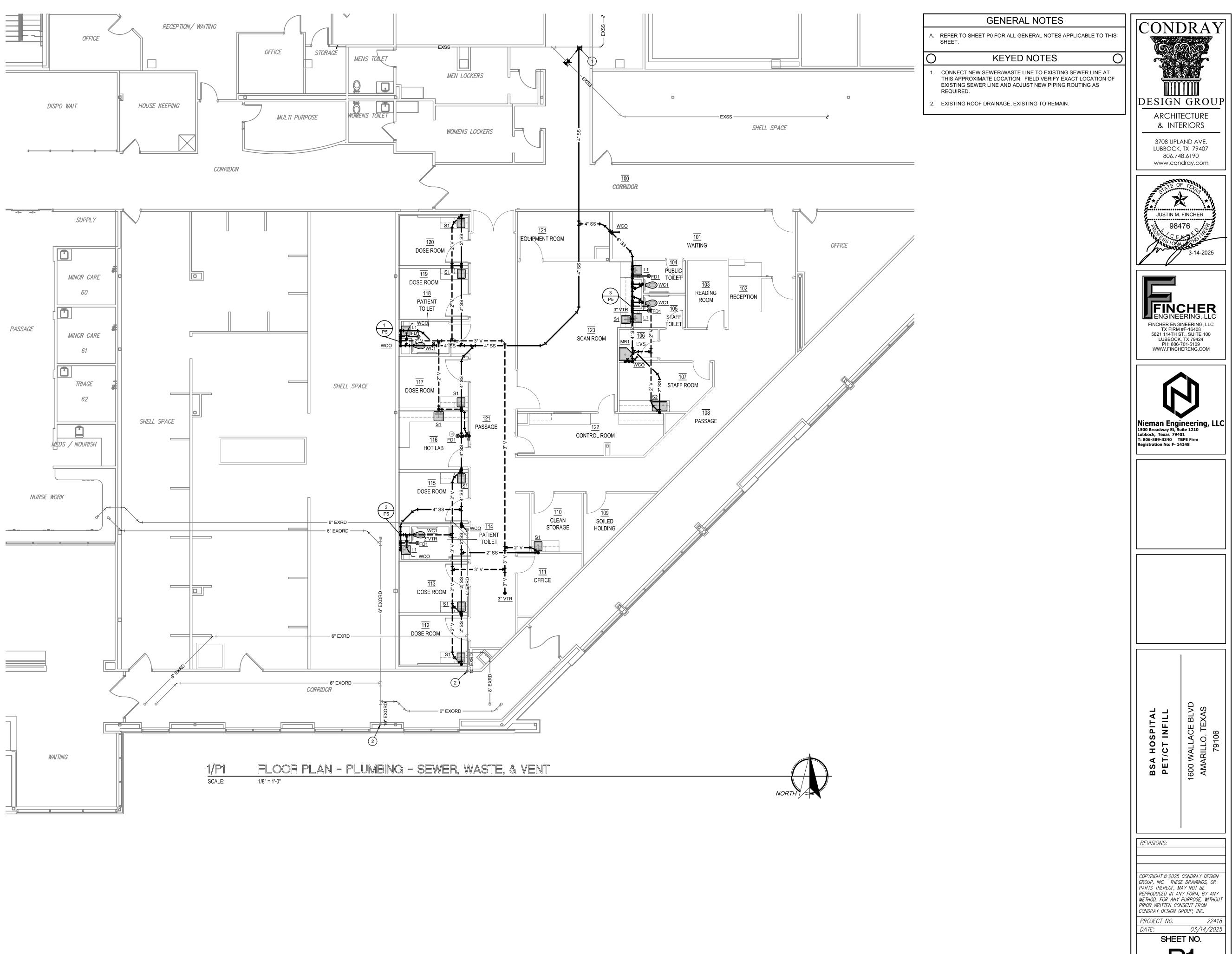
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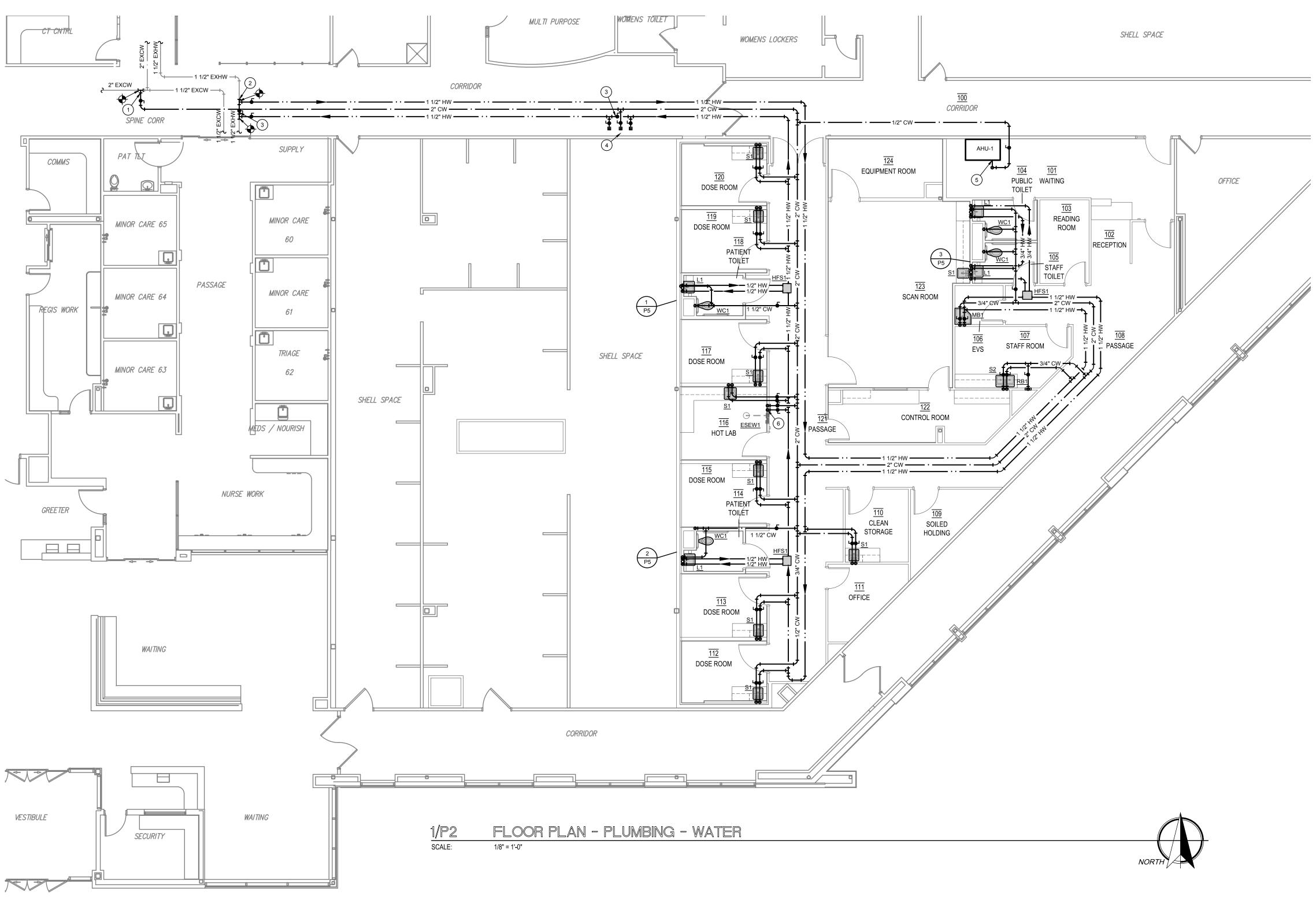
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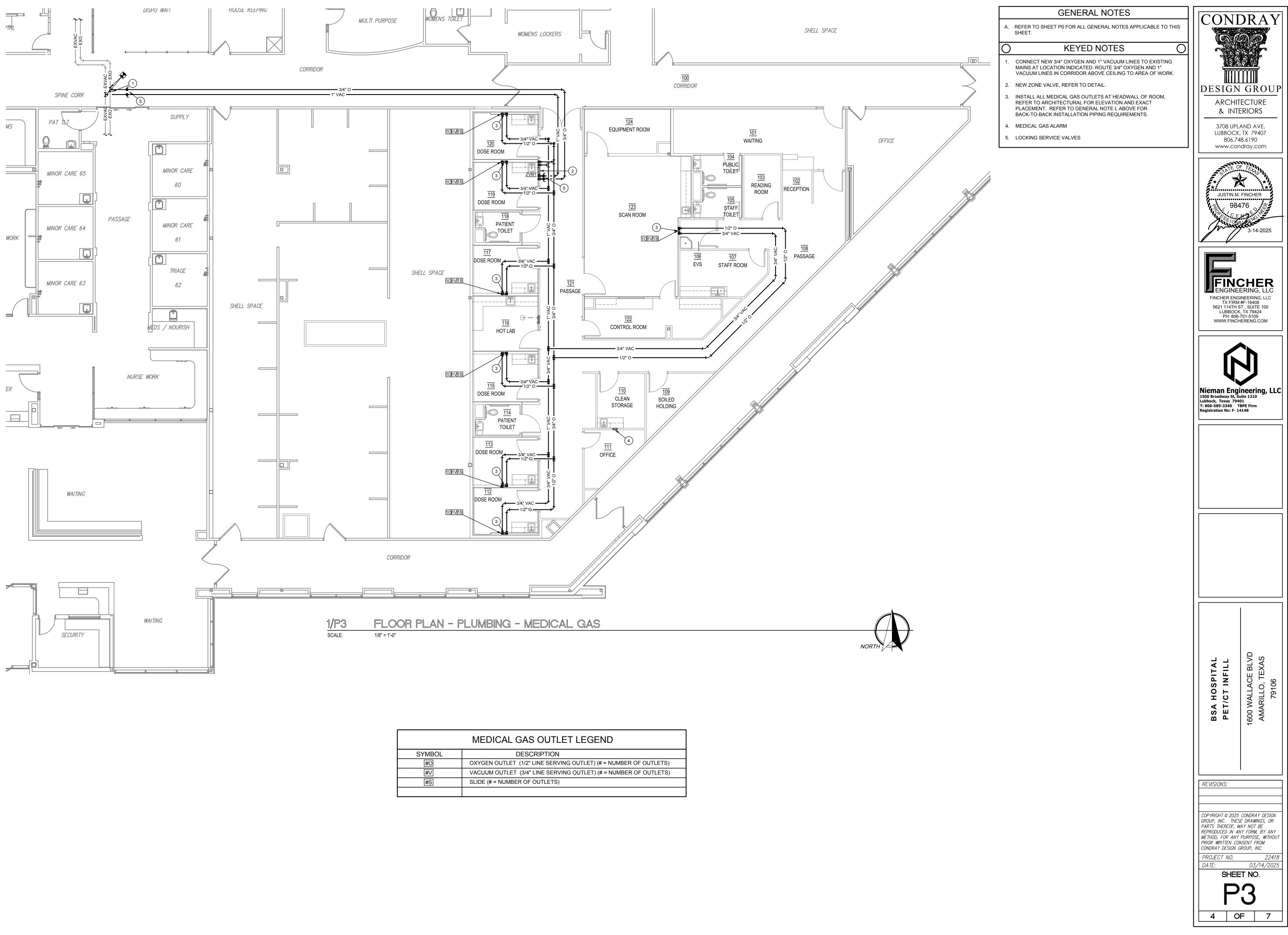




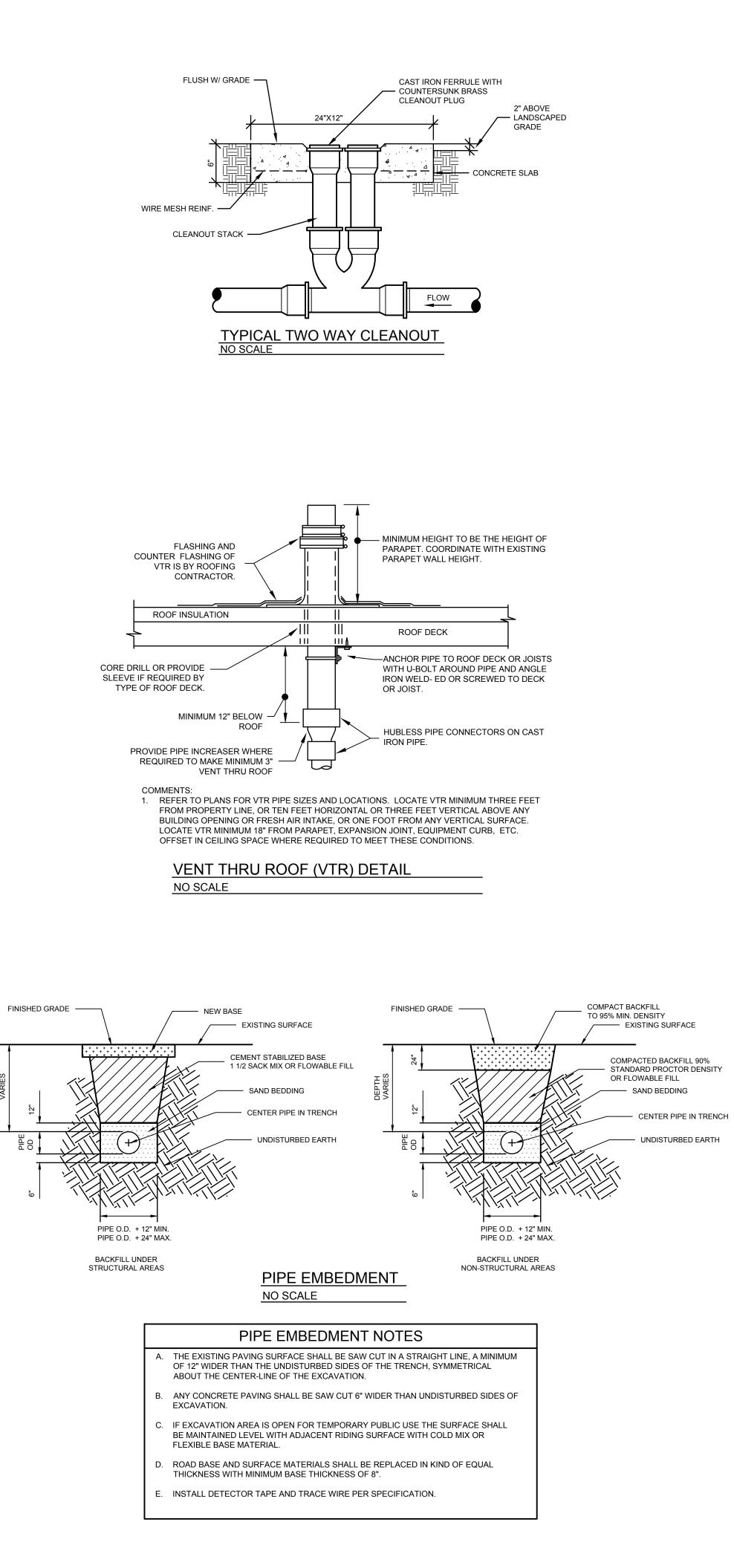
GENERAL NOTES CONDRAY A. REFER TO SHEET P0 FOR ALL GENERAL NOTES APPLICABLE TO THIS SHEET. **KEYED NOTES** CONNECT NEW 2" CW LINE TO EXISTING WATER MAIN IN CORRIDOR TO SERVE AREA OF WORK, PROVIDE NEW BALL VALVE THEN SERVE FLOOR AS SHOWN. 2. CONNECT NEW 1-1/2" HW LINE TO EXISTING HOT WATER WATER MAIN TO SERVE THIS SIDE OF THE FLOOR, PROVIDE NEW BALL DESIGN GROUP VALVE THEN SERVE FLOOR AS SHOWN. ARCHITECTURE NORMALLY CLOSED MANUAL BYPASS VALVE, PROVIDE SIGNAGE TO & INTERIORS INDICATE THE CORRECT ON/OFF CONFIGURATION OF ISOLATION VALVES IN ORDER TO ISOLATE SUB-LOOP WHILE MAIN LOOP STAYS ACTIVE. 3708 UPLAND AVE. LUBBOCK, TX 79407 TEE OFF ACTIVE MAINS WITH 1-1/2" HW, 1-1/2" HW LINE, AND 2" CW 806.748.6190 LINE . VALVE AND CAP FOR FUTURE SHELL SPACE FINISHOUT. www.condray.com 5. 1/2" CW CONNECTION TO AHU-1, REFER TO MECHANICAL. 6. TURN 1" CW, AND 1" HW AND ROUTE THRU MIXING VALVE MOUNTED ON WALL CHASE CEILING THEN CONTINUE 1-1/4" TEMPERED WATER * 🗙 LINE TO SERVE EMERGENCY SHOWER/EYEWASH. JUSTIN M. FINCHER 98476 3-14-2025 **FINCHER** ENGINEERING, LLC FINCHER ENGINEERING, LLC TX FIRM #F-16408 5621 114TH ST., SUITE 100 LUBBOCK, TX 79424 PH: 806-701-5109 WWW.FINCHERENG.COM

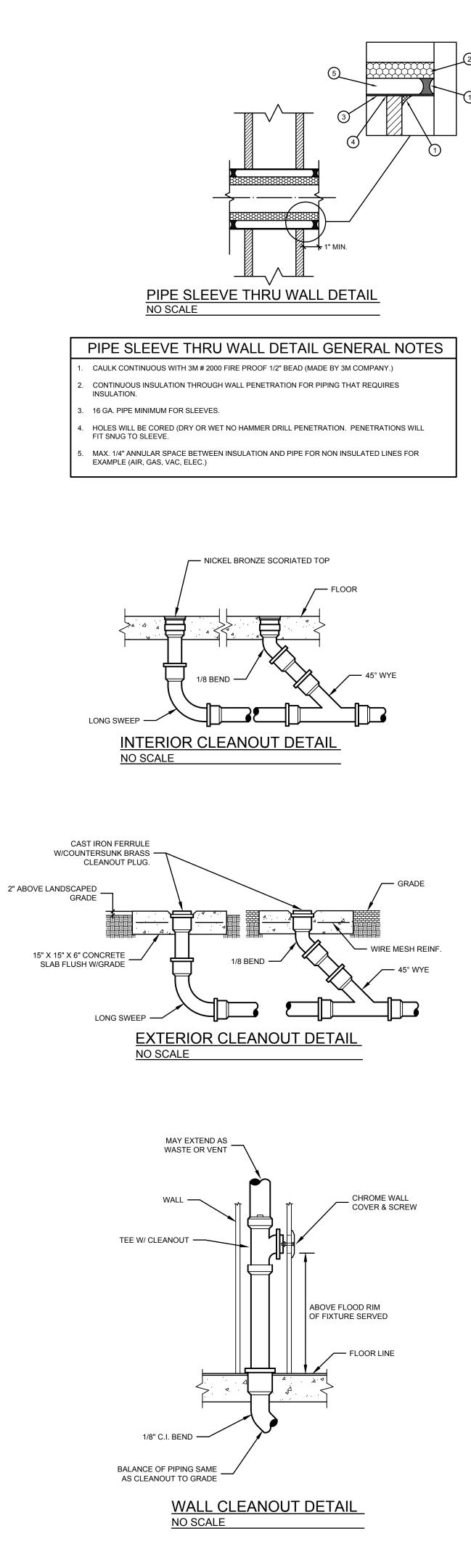


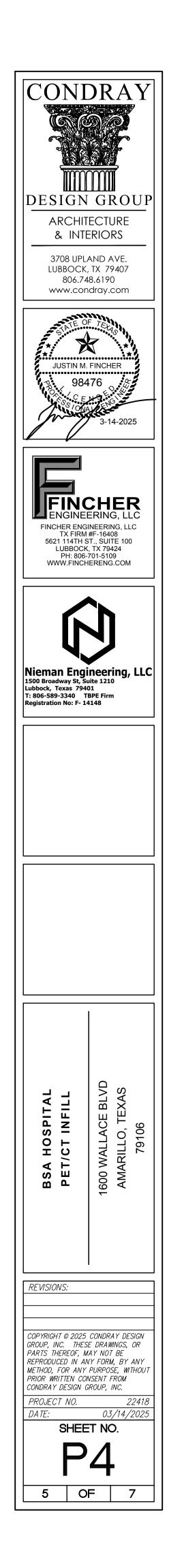
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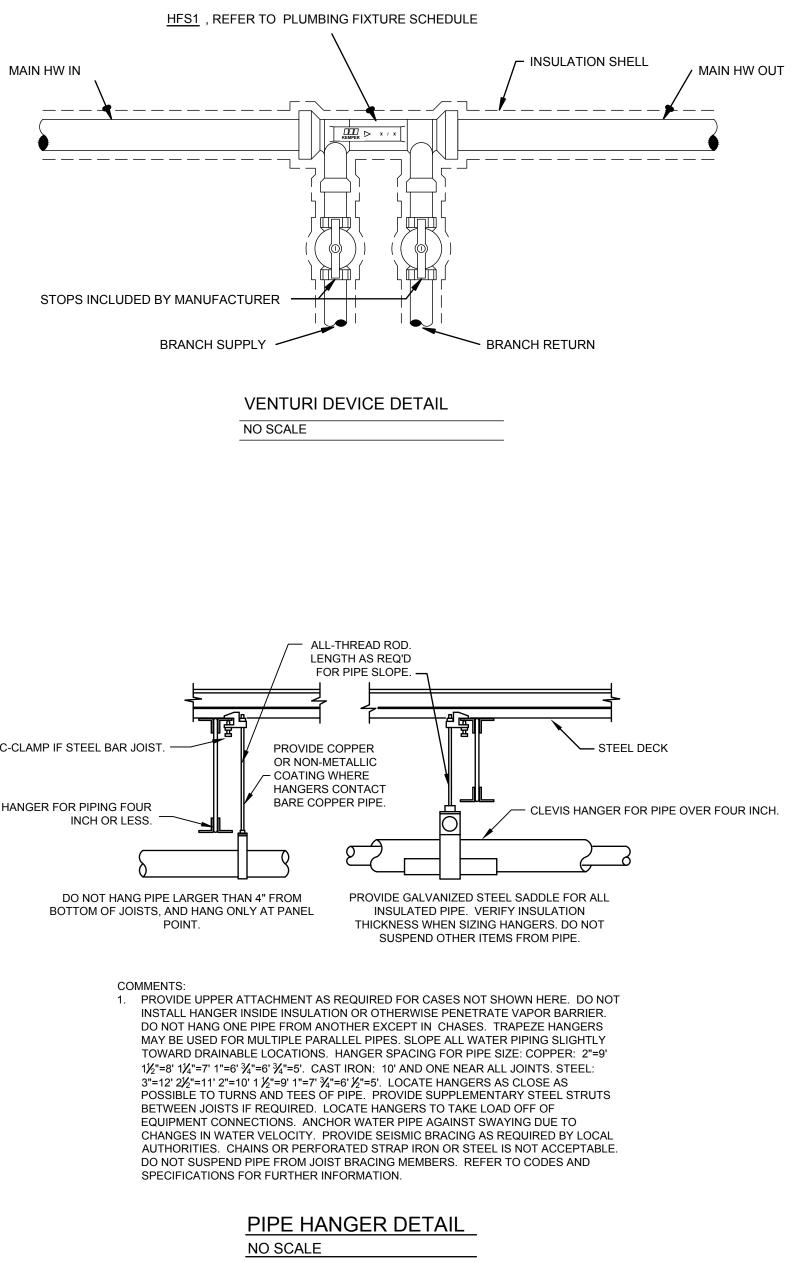


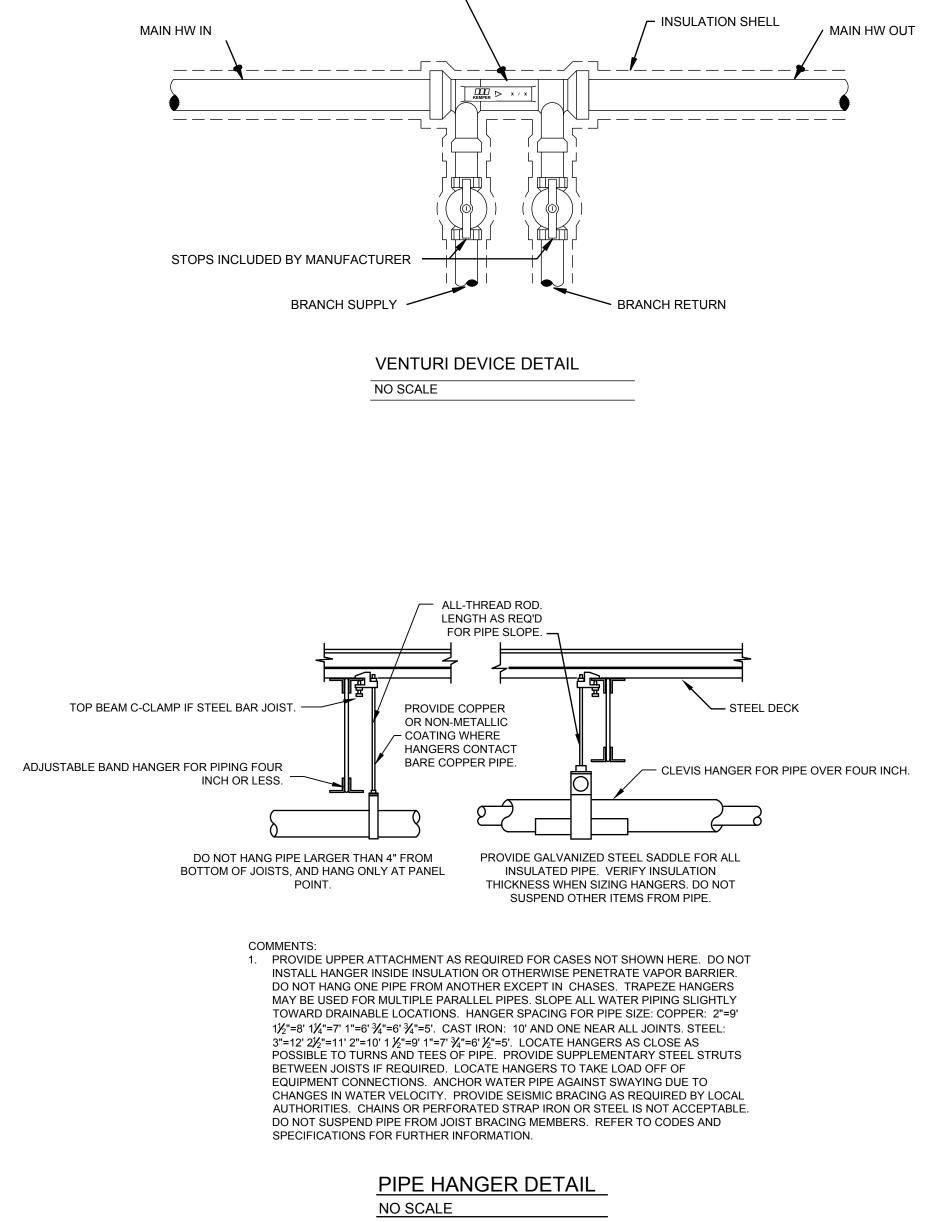
	MEDICAL GAS OUTLET LEGEND
SYMBOL	DESCRIPTION
#O	OXYGEN OUTLET (1/2" LINE SERVING OUTLET) (# = NUMBER OF OUTLETS)
#V	VACUUM OUTLET (3/4" LINE SERVING OUTLET) (# = NUMBER OF OUTLETS)
#S	SLIDE (# = NUMBER OF OUTLETS)

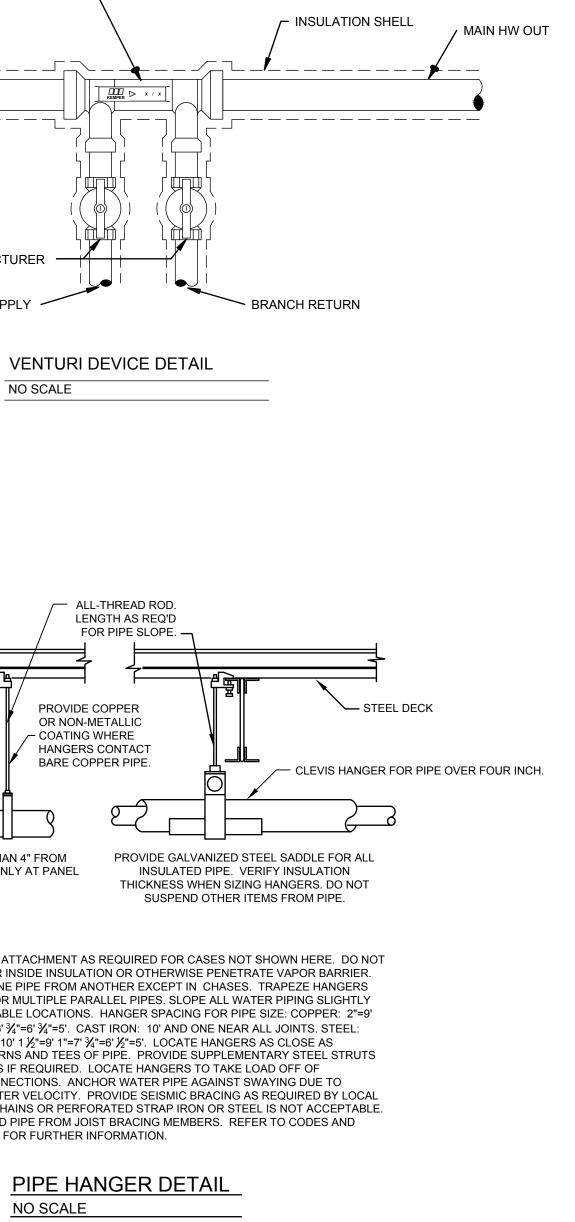


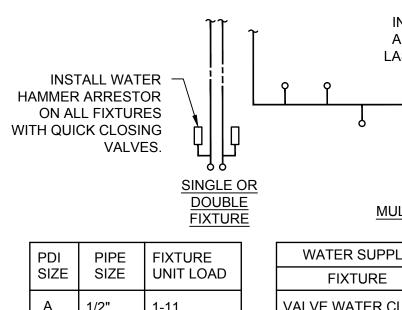










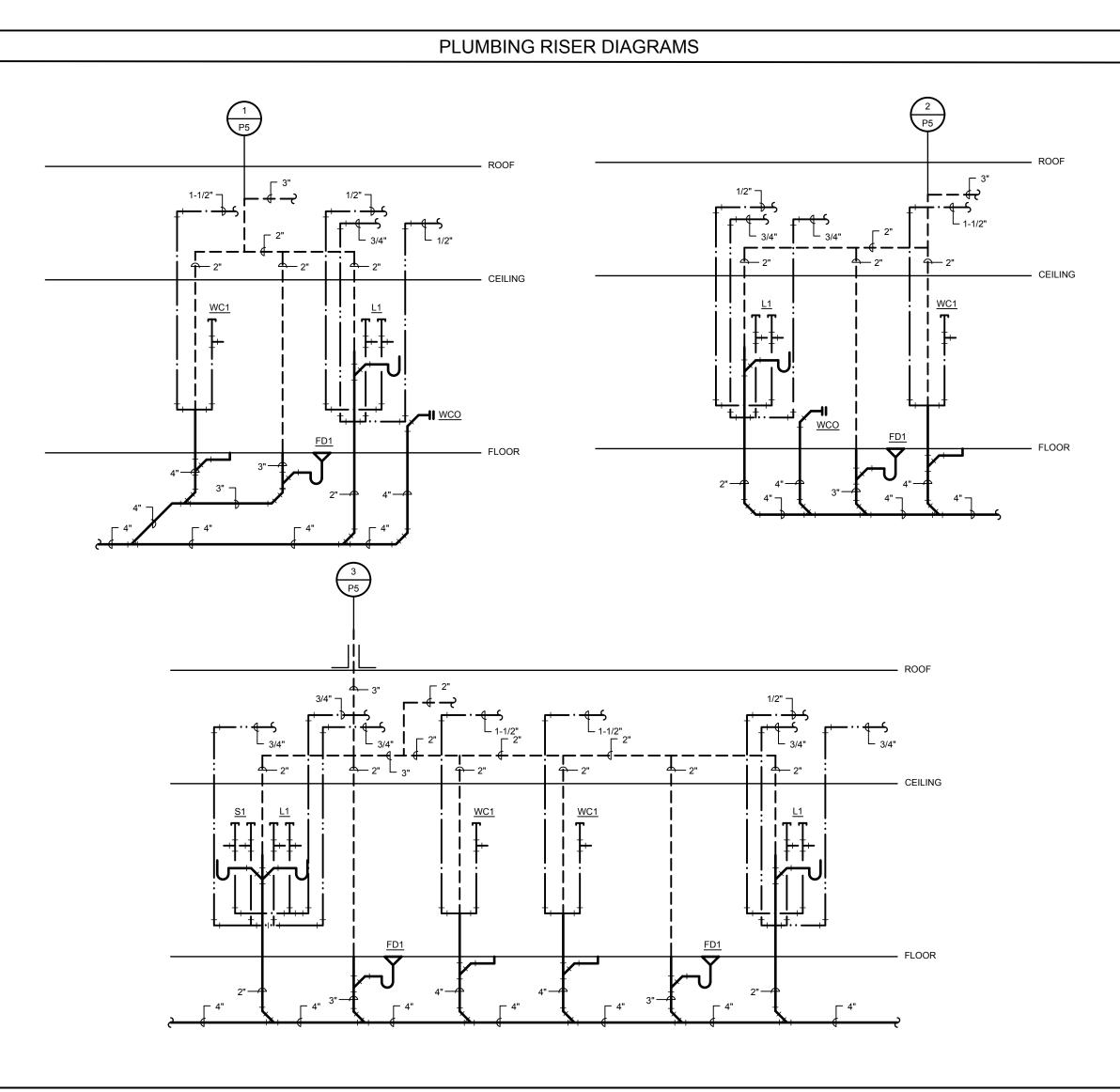


PIPE	FIXTURE		WATER SUPPLY FIXTURE		SFU)
SIZE	UNIT LOAD		FIXTURE	COLD	НОТ
1/2"	1-11		VALVE WATER CLOSET	5	
3/4"	12-32		URINAL	4	
1"	33-60		LAVATORY/SINK	1.5	1.5
1-1/4"	61-113		JANITOR'S SINK	3	3
1-1/2"	114-154				
2"	154-330				
	SIZE 1/2" 3/4" 1" 1-1/4" 1-1/2"	SIZE UNIT LOAD 1/2" 1-11 3/4" 12-32 1" 33-60 1-1/4" 61-113 1-1/2" 114-154	SIZE UNIT LOAD 1/2" 1-11 3/4" 12-32 1" 33-60 1-1/4" 61-113 1-1/2" 114-154	SIZE UNIT LOAD FIXTURE 1/2" 1-11 VALVE WATER CLOSET 3/4" 12-32 URINAL 1" 33-60 LAVATORY/SINK 1-1/4" 61-113 JANITOR'S SINK 1-1/2" 114-154	SIZE UNIT LOAD FIXTURE COLD 1/2" 1-11 VALVE WATER CLOSET 5 3/4" 12-32 URINAL 4 1" 33-60 LAVATORY/SINK 1.5 1-1/4" 61-113 JANITOR'S SINK 3 1-1/2" 114-154 — —

COMMENTS:

1. WATER HAMMER ARRESTERS SHALL BE HAVE PISTON AND 0-RING CONSTRUCTION WITH PDI #WH-201, ASSE # 1010 AND ANSI # A112.26.1M CERTIFICATION. INSTALL IN HORIZONTAL OR VERTICAL POSITION, BUT NEVER UPSIDE DOWN. SIZE THE UNITS AS SHOWN PER THE TABLES SHOWN ABOVE.

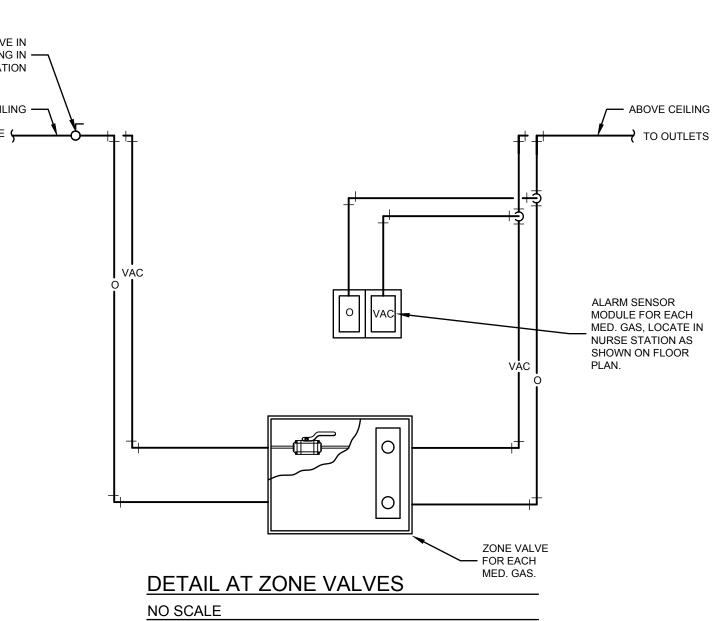
> WATER HAMMER ARRESTER DETAIL NO SCALE



RISER DIAGRAM GENERAL NOTES

A. MOUNTING HEIGHT OF ALL PLUMBING FIXTURES SHALL BE COORDINATED WITH ARCHITECT PRIOR TO INSTALLATION. B. REFER TO PLUMBING FIXTURE CONNECTION SCHEDULE FOR RUNOUT LINE SIZES TO INDIVIDUAL FIXTURES WHERE LINE SIZES ARE NOT INDICATED ON FLOOR PLAN.





NOTE: COORDINATE WITH PLANS FOR EXACT QUANTITY AND GASES OF ALL MEDICAL GAS LINES IN ZONE VALVES.

20' LONG. MULTIPLE FIXTURES WATER SUPPLY FIXTURE UNIT (WSEU)

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FINCHER ENG TX FIRM 5621 114TH S LUBBOCK PH: 806-	CHER ERING, LLC INEERING, LLC #F-16408 5T., SUITE 100 5, TX 79424 701-5109 IERENG.COM
Nieman Eng 1500 Broadway St, S Lubbock, Texas 794 T: 806-589-3340 T Registration No: F- 1	01 BPE Firm
	+140
BSA HOSPITAL PET/CT INFILL	1600 WALLACE BLVD AMARILLO, TEXAS 79106
REVISIONS:	
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PLUMBING FI			ONE	ONNECT		ייידעו	EIVT		PLUMBING FIXTURE SCHEDULE			
	REFERENCE IMAGE	MARK	1-12-0-10-0-10-0-0-0	LINE SIZ			10.5 2722-4 (pr) (25		FIXTURE SPECIFICATION		MARK	
(FIXTURES ARE EXAMPLES ONLY, EQUAL FIXTURES FRO AC		MAIN	v	SS	HW	w	cw	C	(FIXTURES ARE EXAMPLES ONLY, EQUAL FIXTURES FROM ALTERNATE MANUFACTURERS IS ACCEPTABLE. REFER TO SPECIFICATION FO ACCEPTABLE MANUFACTURERS)		MANN	
EMERGENCY SHOWER									WATER CLOSETS			
Fixture: Guardian GBF2360, Recessed Barrier-Free, combination e control, stainless steel bowl, powder-coated cast aluminum flag ha made chrome-plated brass stay-open ball valves, and polished stain dust covers, filters, and 1.6 GPM flow control orifices mounted o			2"	4"		/2"	- 1-1/2"	0	Fixture/Flushvalve: Sloan Model WETS 2020.1301-1.28, 1.28GPF, floor mounted siphon jet elongated bowl and Sloan Royal ES-S Quiet Exposed Permex Rubb Diaphragm Type Flushvalve, hard wired sensor operated flushometer with Self Adaptive Sensor, solenoid activated, over ride button and Free Spinning Stop Cap External Volume Adjustment with bolt covers. TAS compliant. Provide Sloan Model EL-154 120V/24V transformer.		WC1	
Compliant. Alarm: Guardian AP275-200 Electric Light and Alarm Horn for mount		ESEW1							Seat: Bemis 1955CT white solid plastic open front.	T		
Mixing Valve: Leonard TM-600-RF, Emergency Mixing Valve with so thermometer					1				LAVATORIES			
SF		I					_	1	Fixture: American Standard 9024.001EC, Decorum wall-hung lavatory, 20x14, vitreous china, rear overflow, and single-hole faucet drilling. TAS compliant. Supply: T&S Brass BP-2704-BN, 4" Centerset Single Lever Faucet with 1/2" IPS Male Inlet Shanks, Temperature Limit Stop, and Ceramic Cartridge, Brushed Nice Finish. TAS compliant.			
Fixture: A Thermostatic Mixing Valve shall be installed on the hot v control the temperature of the hot water. It shall have a Lead Free	9	TMV			1/2"				Tailpiece: McGuire 155WC Cast Brass Chrome Plated Offset Wheelchair Strainer with polished chrome cast brass elbow and 17 gauge 1-1/4" inch seamless boffset tailpiece.	om		
adjustment nut with locking feature and a vandal resistant lever cov with 3⁄8" male compression fittings. The valve shall be Watts model L			2"	2"		2"	1/2"	1	P-trap: McGuire 8872C-F P-trap shall be chrome plated cast brass body with cleanout, with 17 gauge seamless wall bend, slip nuts and Chrome Plated Forget Set Screw Flange. Stops, risers: McGuire BV2165-F Supply kit shall include commercial pattern chrome plated Quarter-Turn Brass Ball Valve with convertible loose key handle, C		L1	
							_	n	Plated copper riser and Chrome Plated Forged Brass Set Screw Flange. Protective Insulation: Truebro Lav Shield rigid enclosure to enclose all components (traps, mixing valve, etc.). Enclosure to be 0.093" nominal wall thickness, s resistant PVC, china white color, and secured to wall with stainless steel screws. ADA Compliant.			
Fixture: Kemper KHS Flow-Splitter Unit. Venturi principle flow sp insulation shell. Contractor shall install per manufacturer requirement		HFS1							Carrier: Mifab #MC-41 floor mounted Lavatory Carrier with concealed arms, leveling and securing screws, rectangular structural uprights and welded feet			
									SINKS			
	1								Fixture: Elkay LRAD-1918, 19" x 18" x 6" deep, single compartment, off-center drain, 18 gage type 302 self rimming stainless steel with 2 holes. TAS complia			
Fixture: Guy Gray SSIB1 stainless steel ice maker box with guarter		RB1							Supply: T&S Brass B-2742, single lever side mounted remote on/off contral base faucet, ceramic cartridge, swivel gooseneck, 16" flexible stainless steel suppl hoses and 2.2GPM aerator. TAS compliant.			
	a de la							Mixing Valve: Provide with TMV mixing valve mounted below deck. Strainer: McGuire 1151WC, adjustable brass offset sink strainer with 17 gauge seamless brass waste arm and tailpiece, cast brass slip nuts and heavy cast e				
				2"	2"	1/2"	2"	s 1/2"	A	P-trap: McGuire 8912C-F P-trap shall be chrome plated cast brass body with cleanout, with 17 gauge seamless wall bend, slip nuts and Chrome Plated Forged		S1
							_		Set Screw Flange.			
Fixture: Floor Drains shall be coated cast iron, two piece body, non to MIFAB #F1100 Series. Provide all floor drains with trap seal equal	Fillescare	FD1					e		Stops, risers: McGuire BV2165-F Supply kit shall include commercial pattern chrome plated Quarter-Turn Brass Ball Valve with convertible loose key handle, C Plated copper riser and Chrome Plated Forged Brass Set Screw Flange.			
							cw cw 1-1/2" ass 1/2" ass 1/2" me 1/2" ass 1/2" ass 1/2" ass 1/2" ass 3/4"		Protective Insulation: Plumberex X4333/X4114, Insulate per ADA 4.19.4 and or IBC all exposed lavatories drain piping, hot/cold stops and supplies. Protectors consist of molded closed cell PVC, with anti-fungal and anti-microbial properties. To be one piece continuous smooth design.			
Floor cleanouts in finished floors shall be equal to MIFAB C-1100P-R								AS	Fixture: Elkay LRAD-3321, 33"x 21-1/4", 6" deep, double compartment with off-center drain outlets, 18 gage type 304 self rimming stainless steel with 3 holes. compliant.			
Floor cleanouts in floors with thin flooring shall be equal to MIFAB C ² Floor cleanouts in tiled floors shall be equal to MIFAB C1100P-TS-3									Supply: T&S Brass B-2742, single lever side mounted remote on/off contral base faucet, ceramic cartridge, swivel gooseneck, 16" flexible stainless steel supply hoses and 2.2GPM aerator. TAS compliant.			
Floor cleanouts in carpeted floors shall be equal to MIFAB C1100P-F									Mixing Valve: Provide with TMV mixing valve mounted below deck.			
cleanout opening & round nickel bronze scoriated combined cover & 1/2" round stainless steel carpet marker. (For membrane floors, add -		CLEANOUTS	2"	2"	1/2"	2"	1/2"	^{ow.} 1	Strainers: McGuire 1151WC, adjustable brass offset sink strainer with 17 gauge seamless brass waste arm and tailpiece, cast brass slip nuts and heavy cast		S2	
Floor cleanouts in unfinished areas shall be equal to MIFAB C1100-X Seal, 4" diameter cleanout opening & round heavy duty square scoria		CO, WCO, DCO					s	rass	P-trap: McGuire 8912C-F P-trap shall be chrome plated cast brass body with cleanout, with 17 gauge seamless wall bend, slip nuts and Chrome Plated Forget Set Screw Flange.			
primary gasket seal. (For membrane floors, add Suffix -C for the men							e	ome	Stops, risers: McGuire BV2165-F Supply kit shall include commercial pattern chrome plated Quarter-Turn Brass Ball Valve with convertible loose key handle, C Plated copper riser and Chrome Plated Forged Brass Set Screw Flange.			
Exterior cleanouts subject to heavy wheel traffic shall be equal to MII heavy duty ductile iron access cover with 6 1/2" (165) clear bottom access to be a subject to be a sub									Protective Insulation: Plumberex X4333/X4114, Insulate per ADA 4.19.4 and or IBC all exposed lavatories drain piping, hot/cold stops and supplies. Protectors consist of molded closed cell PVC, with anti-fungal and anti-microbial properties. To be one piece continuous smooth design.	U.		
Wall cleanouts shall be concealed behind Stainless Steel access co			[ľ	•		MOP BASINS			
									Fixture: Acorn TNC-24-SH-SSC-KWG, 24x24x12 corner precast terrazzo, 3" integral drain body, stainless steel back wall guards and stainless steeil cap	20		
			2"	3"	3/4"	4"	3/4"	tlet 3	Supply: T&S Brass B-0665-BSTR, Service Sink Faucet with rough chrome finish, built in stops, vacuum breaker, lever handles, wall brace and ³ / ₄ " garden hose		MB1	
									Accessories: T&S Brass B-0653 & B-0654, Reinforced PVC hose and mop hanger			

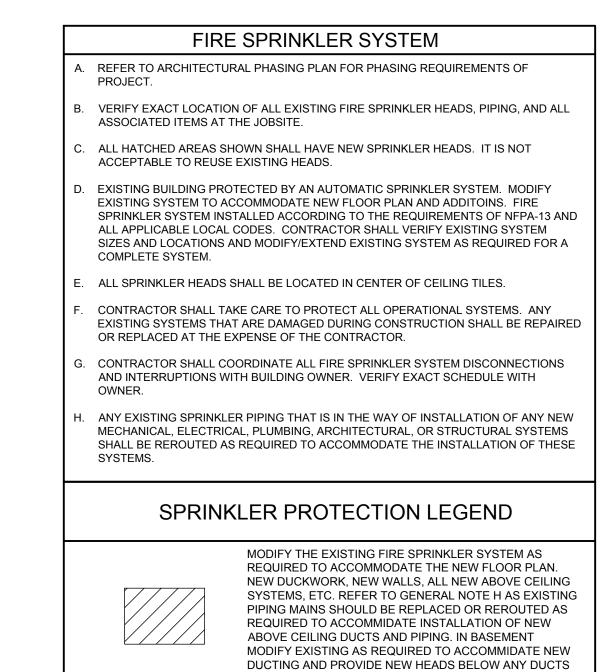
FIXTURE SCHEDULE				
FIXTURE SPECIFICATION				
FROM ALTERNATE MANUFACTURERS IS ACCEPTABLE. REFER TO SPECIFICATION FOR ACCEPTABLE MANUFACTURERS)	CW	HW	SS	V
VER AND EYEWASH COMBINATION				
on eye/face wash and shower safety station with stainless steel shower head, internal 20 GPM flow handle and floor flange, 1 ¼" IPS Schedule 40 galvanized pipe and fittings, 1" IPS and ½" IPS U.S tainless steel pull rod. Unit shall have (4) polypropylene GS-Plus™ spray heads with integral "flip-top" ed on a chrome-plated brass eyewash assembly. Unit shall include an ANSI-compliant sign. TAS		1"		
ounting on Safety Station. Mount on vertical pipe of Safety Station.	1			
solid bi-metal element, internal cold water by-pass, high temperature limit stop and outlet dial				
SPECIALTIES		1		
not water supply to the fixture. The valve shall be ASSE Standard 1070 and IAPMO cUPC listed and ree brass 4-port, "H"pattern body. The valve shall include integral check valves, integral screens, an cover to prevent accidental engagement during normal operating periods. The valve shall be provided del LFUSG.		LINE	SIZE	
v splitter, dynamic cartridge, corrosioin resistant, include with stop valves on both lines along with ments.		LINE	SIZE	
arter turn valves.	RE SPECIFICATION FIXTURE CONNECTIONS RENATE MANUFACTURERS IS ACCEPTABLE. REFER TO SPECIFICATION FOR CW HW SS V SEE MANUFACTURERS) CW HW SS V VEWASH COMBINATION wash and shower safety station with stainless steel shower head, internal 20 GPM llow, if VPS Schedule 40 galvanized pipe and fittings, 1" IPS and ½" IPS U.S or one-plated brass eyewash assembly. Unit shall include an ANSI-compliant sign. TAS after y Station. Mount on vertical pipe of Safety Station. 1" 1" 1"			
non puncturing flashing collar with weep holes and 6" adjustable Stainless Steel Square strainer equal equal to ProSet Trap Guard and install according to manufacturer's instructions.			3"	2"
P-R-3 with stainless steel cover, and ANSI/ASME 5000-7499 lbs.				
3 C1100P-UR-3 with recessed top for flooring and ANIS/ASME 5000-7499 lbs				
DP-RC-3 with lacquered cast iron body & anchor flange, secondary "O" ring Test Seal, 4" diameter er & plug top assembly with stainless steel vandal proof allen key screws, primary gasket seal and 1 dd -C for membrane clamp.).	1.0			۸"
00-XR adjustable floor cleanout with lacquered cast iron body & anchor flange, secondary "O" ring Test coriated combined cover & plug top assembly with stainless steel vandal proof allen key screws & membrane clamp.).	LII	NE OIZE		4
MIFAB C1300-MF lacquered cast iron heavy duty access housing with fixed anchor flanges, extra n access				
s cover with screw equal to Mifab C1400-RD				

DESIGN GROUP ARCHITECTURE & INTERIORS 3708 UPLAND AVE. LUBBOCK, TX 79407 806.748.6190 www.condray.com						
1500 Broadway St, S Lubbock, Texas 794 T: 806-589-3340 T	Kieman Engineering, LLC 1500 Broadway St, Suite 1210 Lubbock, Texas 79401 T: 806-589-3340 TBPE Firm Registration No: F- 14148					
BSA HOSPITAL PET/CT INFILL	1600 WALLACE BLVD AMARILLO, TEXAS 79106					
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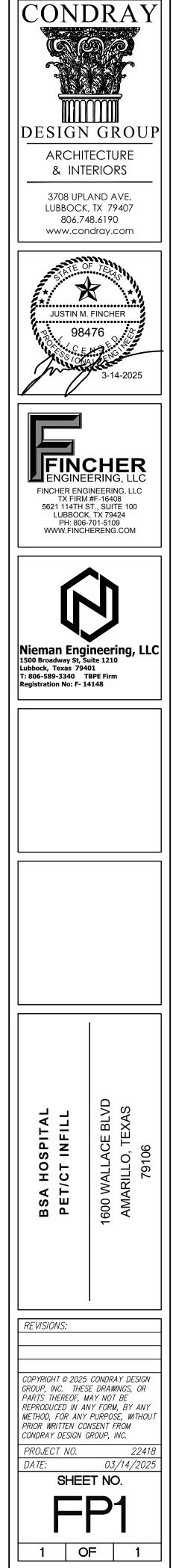








THAT ARE OBSTRUCTIONS





OFFICE

	ELECTRICAL GENERAL NOTES
A.	THESE DRAWINGS HAVE BEEN PRODUCED WITH LIMITED INFORMATION ABOUT THE EXISTING BUILDING AND THE EXISTING ELECTRICAL SYSTEMS. IT IS THE CONTRACTORS RESPONSIBILITY TO FIELD VERIFY ALL EXISTING CONDITIONS TO DETERMINE THE SCOPE AND MAGNITUDE OF DEMOLITION WORK.
В.	ALL DOWNSTREAM DEVICES NOT BEING REMOVED AS PART OF THIS PROJECT SHALL REMAIN ACTIVE. THIS INCLUDES BUT NOT LIMITED TO RECEPTACLES, LIGHTS, FIRE ALARM, DATA, AND COMMUNICATION OUTLETS/WIRING. CONTRACTOR SHALL CARE TO PROTECT AND MAINTAIN ALL EXISTING SYSTEMS AND DEVICES.
C.	ALL ELECTRICAL DEVICES SHOWN DASHED, OR ON DASHED WALLS, ALONG WITH ALL WIRING AND CONDUIT ASSOCIATED WITH DEVICE SHALL BE REMOVED BACK TO POINT OF ORIGIN UNLESS NOTED OTHERWISE. CONTRACTOR SHALL REMOVE ALL ABANDONED DEVICES, CONDUIT AND ASSOCIATED WIRING ABOVE CEILING.
D.	ALL POWER AND COMMUNICATIONS OUTAGES SHALL BE COORDINATED WITH OWNER AND ARCHITECT PRIOR TO OUTAGE. PROVIDE TEMPORARY CONNECTIONS (POWER AND COMMUNICATION WIRING) TO EQUIPMENT TO MAINTAIN SERVICE DURING CONSTRUCTION AS REQUIRED.
E.	IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO REVIEW THESE PLANS AND SPECIFICATIONS AS WELL AS ALL ASSOCIATED PROJECT DRAWINGS TO BECOME FAMILIAR WITH THE ENTIRE SCOPE OF THE PROJECT. IN ADDITION, THE CONTRACTOR MUST COORDINATE WITH THE OWNER OR OWNER'S REPRESENTATIVE TO FULLY UNDERSTAND ALL REQUIREMENTS WHICH MAY NOT BE SPECIFIED HEREIN AND WHICH THE OWNER MAY CONSIDER PART OF THIS CONTRACT.
F.	ALL WORK SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF ALL APPLICABLE CODES AND REGULATIONS INCLUDING, BUT NOT LIMITED TO, NATIONAL, CITY, STATE, AND ANY LOCAL ORDINANCES WHICH MAY BE IN EFFECT. ALL MATERIALS, INSTALLATION PROCEDURES, AND SYSTEM LAYOUTS SHALL BE APPROVED BY ALL APPLICABLE CODE ENFORCEMENT AUTHORITIES HAVING JURISDICTION, AND IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO PAY FOR ALL NECESSARY PERMITS AND APPROVALS FOR THIS WORK.
G.	THE CONTRACTOR SHALL PROVIDED ALL NECESSARY COMPONENTS FOR A COMPLETE AND FULLY OPERATIONAL SYSTEM FOR THE BUILDING OWNER. MATERIALS, EQUIPMENT OR LABOR NOT INDICATED, BUT WHICH CAN BE REASONABLY INFERRED TO BE NECESSARY FOR A COMPLETE INSTALLATION SHALL BE PROVIDED. THE DRAWINGS AND SPECIFICATIONS DO NOT UNDERTAKE TO INDICATE EVERY ITEM OF MATERIAL, EQUIPMENT OR LABOR REQUIRED TO PRODUCE A SAFE, COMPLETE AND PROPERLY OPERATING SYSTEM.
H.	HANDLE AND STORE MATERIALS IN ACCORDANCE WITH MANUFACTURER'S AND SUPPLIER'S RECOMMENDATIONS AND IN A MANNER TO PREVENT DAMAGE TO MATERIALS DURING STORAGE AND HANDLING. REPLACE DAMAGED MATERIALS AS NEEDED AT NO ADDITIONAL COST TO THE OWNER. EQUIPMENT AND MATERIALS SHALL NOT BE INSTALLED UNTIL SUCH TIME AS THE ENVIRONMENTAL CONDITIONS OF THE JOB SITE ARE SUITABLE TO PROTECT THE EQUIPMENT OR MATERIALS. EQUIPMENT OR MATERIALS DAMAGED, OR WHICH ARE SUBJECTED TO THESE ELEMENTS, ARE UNACCEPTABLE AND SHALL BE REMOVED FROM THE PREMISES AND REPLACED.
I.	COORDINATE WITH THE UTILITY SERVICE PROVIDERS FOR ALL REQUIREMENTS FOR DELIVERING POWER AND COMMUNICATION UTILITIES.
J.	VERIFY EXACT LOCATION OF ALL ELECTRICAL EQUIPMENT WITH OWNER AND ARCHITECT PRIOR TO INSTALLATION.
	VERIFY AND COORDINATE EXACT LOCATION OF ALL LIGHT FIXTURE LOCATIONS AND MOUNTING HEIGHTS WITH ARCHITECTURAL REFLECTED CEILING PLAN.
L.	ANY OUTLET, SWITCH, RECEPTACLE, FIXTURE OR PANEL MAY BE RELOCATED WITHIN A TEN (10) FOOT RADIUS OF THE INDICATED LOCATION WITHOUT ADDITIONAL CHARGE TO OWNER.
M.	PROVIDE AN UN-SWITCHED HOT (BALLAST/DRIVER) TO ALL EMERGENCY FIXTURES ROUTED THRU LIGHTING CONTROLS TO PROVIDE EMERGENCY OPERATION.
N.	PROVIDE DEDICATED NEUTRAL WIRE FOR EACH 120V CIRCUIT BREAKER.
-	LIGHTING CONTROL WIRING SHALL BE ROUTED IN SEPARATE CONDUIT/PATHWAY FROM POWER WIRING.
Ρ.	THE ELECTRICAL CONTRACTOR SHALL FIELD VERIFY EXACT POWER REQUIREMENTS FOR OWNER FURNISHED EQUIPMENT PRIOR TO ROUGH-IN. TERMINATE AS DIRECTED BY EQUIPMENT NAME PLATES. COORDINATE EXACT LOCATION FOR INSTALLATIONS WITH OWNER PRIOR TO ROUGH-IN. NOTIFY ENGINEER IF ALTERNATE POWER IS REQUIRED.
Q.	VERIFY EXACT LOCATION OF ALL MECHANICAL EQUIPMENT AND TEMPERATURE CONTROLS WITH MECHANICAL PLANS. PROVIDE 1" CONDUIT AT EACH THERMOSTAT. REFER TO MECHANICAL PLANS FOR LOCATIONS.
R.	PROVIDE MOTOR RATED SWITCHES FOR EACH 120V HVAC CONNECTIONS. OVERLOADS SHALL MATCH MOTOR RATING.
S.	CONTRACTOR SHALL PROVIDE NEMA 3R DISCONNECT SWITCHES FOR ALL EXTERIOR HVAC EQUIPMENT. INTERIOR DRY LOCATION DISCONNECT ENCLOSURES SHALL BE RATED NEMA 1.
Т.	ALL CONDUITS SERVING ROOF-MOUNTED EQUIPMENT SHALL BE EXTENDED INSIDE THE UNIT CURBS TO AVOID ADDITIONAL PITCHPANS. ALL EXTERIOR CONDUIT SHALL BE RIGID GALVANIZED STEEL OR LIQUID TIGHT FLEXIBLE CONDUIT AS SPECIFIED.
U.	DATA/TELEPHONE/TV OUTLETS SHALL BE INSTALLED WITH 3/4" CONDUIT EXTENDED TO AN ACCESSIBLE POINT ABOVE CEILING AND PROVIDED WITH PULL STRING. COORDINATE ALL TELEPHONE, TV AND DATA LOCATIONS WITH OWNER. PROVIDE INSULATED BUSHING ON BOTH ENDS OF CONDUIT.
V.	WHERE GFCI PROTECTION IS REQUIRED BY CODE AND CONNECTION IS LOCATED BEHIND EQUIPMENT. CONTRACTOR SHALL PROVIDE GFCI CIRCUIT BREAKER IN LIEU OF GFCI OUTLET.
W.	PROVIDE DUCT MOUNTED SMOKE DETECTORS/SAMPLING TUBES IN THE SUPPLY AND RETURN AIR DUCTS OF ALL OF THE HVAC OPERATING OVER 2000 CFM. THE CONTRACTOR SHALL FIELD VERIFY THE NUMBER AND LOCATION OF THE UNITS. CONNECT DUCT DETECTORS TO SHUT DOWN INDIVIDUAL HVAC UNIT UPON DETECTOR ALARM. PROVIDE FIRE ALARM CONNECTION TO SMOKE DETECTORS AND FIRE/SMOKE DAMPERS. REFER TO MECHANICAL FOR SMOKE AND FIRE/SMOKE DAMPER LOCATIONS AND SHUT DOWN FANS REGARDLESS OF UNIT CFM. REFER TO MECHANICAL EQUIPMENT ELECTRICAL SCHEDULE FOR HVAC UNITS REQUIRING DUCT MOUNTED SMOKE DETECTORS. PROVIDE 120V CONNECTION TO ALL FIRE/SMOKE DAMPERS
X.	PROVIDE A DUCT MOUNTED SMOKE DETECTOR FOR EACH FIRE/SMOKE DAMPER. DUCT DETECTOR SHALL BE LOCATED IN UPSTREAM DUCTWORK WITHIN 5'-0" OF FIRE /SMOKE DAMPER. WHERE FIRE/SMOKE DAMPER IS LOCATED IN OPEN AIR PLENUM, CONTRACTOR SHALL PROVIDE A SPOT TYPE SMOKE DETECTOR. CONNECT DETECTOR TO SHUT DOWN CORRESPONDING HVAC UNIT AND FIRE/SMOKE DAMPER. PROVIDE REMOTE TEST/RESET SWITCH ADJACENT TO DUCT DETECTOR IN CEILING OR IN MECHANICAL ROOM.
М.	REFER TO ARCHITECTURAL ELEVATIONS FOR EXACT DEVICE PLACEMENTS IN ALL SPACES.
	PROVIDE GROUND TEST FOR RECEPTACLES IN PATIENT ROOMS IN ACCORDANCE WITH NEC ARTICLE 517 AND NFPA 99.
-	WIRING AND INSTALLATION SHALL MEET REQUIREMENTS OF NFPA 70, 99, AND TDH/TDLR.
P.	CONTRACTOR SHALL PROVIDE TWO(2) SEPARATE EQUIPMENT GROUND WIRES FOR RECEPTACLE CIRCUITS IN PATIENT CARE AREAS IN ACCORDANCE WITH NEC ARTICLE 517.
Q.	PROVIDE #10 AWG GREEN INSULATED GROUND CONNECTION SHALL BE BONDED FROM THE NORMAL PANEL TO EMERGENCY PANEL GROUND BUS SERVING PATIENT CARE VICINITY AS REQUIRED BY NEC AND TDH. THE GROUND WIRE SHALL BE CONTINUOUS WITH NO LOOPS OR PASSING THROUGH OTHER EQUIPMENT OR WIRING.
R.	THE NEW FIRE ALARM DEVICES SHALL MATCH THE EXISTING NOTIFIER FIRE ALARM EQUIPMENT AND SHALL BE U.L. LISTED FOR USE WITH THE EXISTING FIRE ALARM EQUIPMENT. ALL NEW DEVICES SHALL MATCH THE EXISTING FUNCTIONALITY OF THE EXISTING EQUIPMENT AND SHALL MATCH IN APPEARANCE.PROVIDE UPGRADES TO THE EXISTING EQUIPMENT AS NECESSARY TO SUPPORT THE NUMBER AND TYPE OF NEW DEVICES AS REQUIRED. THIS SHALL INCLUDED BUT NOT BE LIMITED TO ADDING MODULES, EXPANDERS, POWER SUPPLIES OR COMPLETE REPLACEMENT OF THE EQUIPMENT AS REQUIRED. ALL WIRING, CLASSIFICATION AND CONNECTIONS SHALL MATCH THE EXISTING CLASS AND STYLE OF WIRING. THE ENTIRE FIRE ALARM SYSTEM SHALL BE RE-CERTIFIED AFTER THE COMPLETION OF THE WORK.
	THE NEW NURSE CALL DEVICES SHALL MATCH THE EXISTING RAULAND RESPONSER EQUIPMENT. ALL NEW DEVICES SHALL MATCH THE EXISTING FUNCTIONALITY OF THE EXISTING EQUIPMENT AND SHALL MATCH IN APPEARANCE.PROVIDE UPGRADES TO THE EXISTING EQUIPMENT AS NECESSARY TO SUPPORT THE NUMBER AND TYPE OF NEW DEVICES AS REQUIRED. THIS SHALL INCLUDED BUT NOT BE LIMITED TO ADDING MODULES, EXPANDERS, POWER SUPPLIES OR COMPLETE REPLACEMENT OF THE EQUIPMENT AS REQUIRED.ALL WIRING, CLASSIFICATION AND CONNECTIONS SHALL MATCH THE EXISTING CLASS AND STYLE OF WIRING.
S.	ALL SWITCHES, RECEPTACLES, DISCONNECTS, FACEPLATES, AND PANELS SHALL BE PROVIDED WITH A LABEL(NON-REMOVABLE) INDICATING PANEL AND CIRCUIT NUMBER SERVING DEVICE AS REQUIRED BY NFPA AND TDH. "RED" FOR EMERGENCY POWER AND "BLACK" FOR NORMAL POWER. LABEL SHALL BE APPROVED BY BSA PERSONNEL AND ARCHITECT.
т	FIFLD VERIEY LOCATIONS OF EXISTING LAN RACKS/ROOMS. COORDINATE DATA AND TV REQUIREMENTS WITH BSA IT PERSONNEL

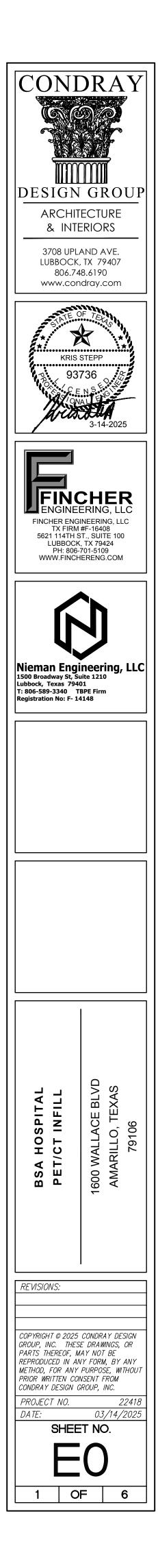
T. FIELD VERIFY LOCATIONS OF EXISTING LAN RACKS/ROOMS. COORDINATE DATA AND TV REQUIREMENTS WITH BSA IT PERSONNEL.

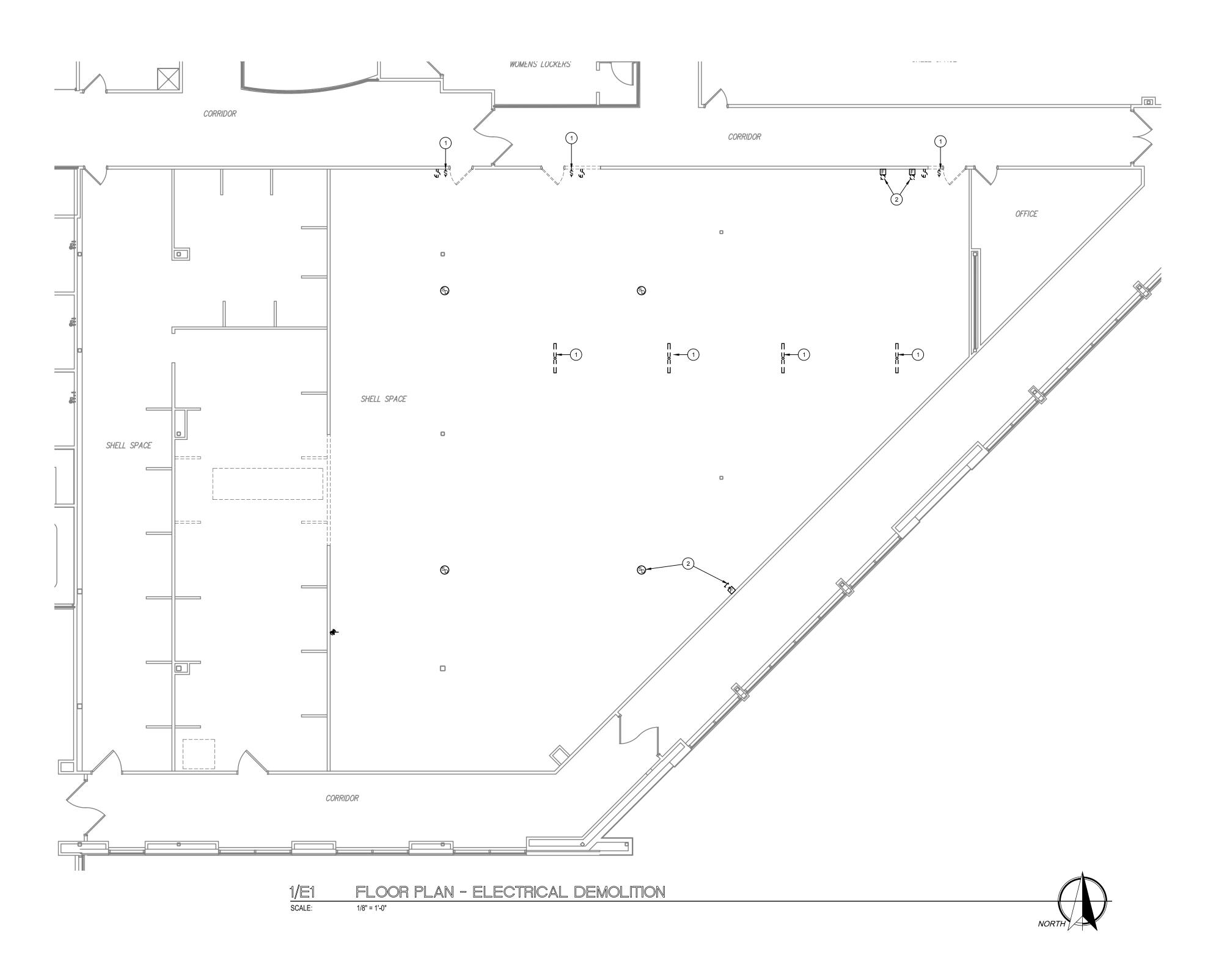
	ELECTRICA	L SYMBOL SCHEDUL	_E	ELECTR	ICAL A	BREVIATIONS	
O ^A	2x4 RECESSED LIGHT FIXTURE	J	JUNCTION BOX	ABOVE COUNTER ABOVE FINISHED FLOOR	AC AFF	KILOVOLT KILOVOLT AMP	kV kV/
AE	2x4 RECESSED LIGHT FIXTURE WITH BATTERY BACK-UP		DISCONNECT SWITCH	ABOVE FINISHED FLOOR ALTERNATING CURRENT AMERICAN NATIONAL STANDARDS INSTITUTE	AC ANSI	KILOVOLT AMP KILOWATT KILOWATT HOUR	kV kW kW
0 ^A	2x2 RECESSED LIGHT FIXTURE		CIRCUIT RUN TO PANELBOARD - NUMBER OF WIRES SHOWN	AMERICAN SOCIETY FOR TESTING AND MATERIALS AMERICAN WIRE GAUGE	ASTM AWG	LIQUIDTIGHT FLEXIBLE METAL CONDUIT	LF
				AMPERE AMPHOUR	AMP AH	LIQUIDTIGHT FLEXIBLE NONMETALLIC CONDUIT LOW VOLTAGE	LF LV
• AE	2x2 RECESSED LIGHT FIXTURE WITH BATTERY BACK-UP		CIRCUIT INDICATOR	AMPERE INTERRUPTING CAPACITY ARC FAULT CIRCUIT INTERRUPTER	AIC AFCI	LUMEN LUMENS PER WATT	l I
• A	SURFACE MOUNTED LIGHT FIXTURE		SURFACE MOUNTED LIGHTING AND APPLIANCE PANELBOARD	AUTHORITY HAVING JURISDICTION AUTOMATIC TRANSFER SWITCH	AHJ ATS		
X	EXIT SIGN - NUMBER OF FACES INDICATED BY SHADING		RECESSED MOUNTED LIGHTING AND APPLIANCE PANELBOARD	BATTERY BUILDING AUTOMATION SYSTEM	BAT BAS		
×=×				CEILING	С	MINIMUM CIRCUIT AMPS MOTOR CONTROL CENTER	
\$	SPST WALL SWITCH	V	DATA OUTLET WITH PHONE AND DATA CABLE	COAXIAL CABLE COLOR RENDERING INDEX	COAX CRI	NATIONAL ELECTRICAL CODE	
\$ _D	DIMMING SWITCH	▼	DATA OUTLET WITH DATA CABLE	COMMUNICATIONS CONDUIT	COMM C	NATIONAL ELECTRICAL CODE NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION NATIONAL FIRE CODE	
<u>_</u>	OCCUPANCY SENSOR SWITCH	 T√	TELEVISION OUTLET	CONTROL COPPER	CTRL CU	NATIONAL FIRE PROTECTION ASSOCIATION NOTIFICATION APPLIANCE CIRCUIT	
\$ ₀				CURRENT TRANSFORMER.	СТ	PANELBOARD	
\$ ₃	THREE-WAY SWITCH	E	FIRE ALARM PULL STATION	DECIBEL (SOUND) DEMOLITION	dB DEMO	PHASE POLY VINYL CHLORIDE	
03	OCCUPANCY SENSOR	固	FIRE ALARM AUDIBLE/STROBE UNIT	DIRECT CURRENT DOUBLE POLE, DOUBLE THROW DOUBLE POLE, SINGLE THROW	DC DPDT DPST	POWER FACTOR PUBLIC ADDRESS	
Þ	POWER PACK	Ŭ	FIRE ALARM STROBE UNIT	ELECTRIC	ELEC	RECEPTACLE RIGID GALVANIZED STEEL	
	TIME CLOCK	DH	FIRE ALARM DOOR HOLD OPEN	ELECTRICAL METALLIC TUBING ELECTRICAL NONMETALLIC TUBING	EMT ENT	RIGID GALVANIZED STEEL RIGID NONMETALLIC CONDUIT	
		•		FIRE ALARM ANNUNCIATOR PANEL	FAAP	SINGLE PHASE SINGLE POLE, DOUBLE THROW	
φ	DUPLEX RECEPTACLE - 20A, 125V, 2P, 3W, GROUNDING	MS	NURSE CALL MASTER STATION	FIRE ALARM CONTROL PANEL FLEXIBLE METALLIC CONDUIT	FACP FMC	SINGLE POLE, SINGLE THROW SWITCHBOARD	
φ	CRITICAL VOLTAGE DUPLEX RECEPTACLE	CB	NURSE CALL CODE BLUE STATION	FOOTCANDLE FULL LOAD AMPS	FC FLA	THREE PHASE	
Фас	ABOVE COUNTER (VERIFY WITH ARCHITECTURAL)	PC	NURSE CALL PULL CORD STATION	GAUGE GROUND	GA GND	TELEPHONE TERMINAL BOARD	
				GROUND FAULT CIRCUIT INTERRUPTER	GFCI	VARIABLE FREQUENCY DRIVE	
	DUPLEX RECEPTACLE WITH GFCI		NURSE CALL MULTICOLOR DOME LIGHT	HORSEPOWER	HP	VOLT, VOLTS, VOLTAGE VOLT AMPERE	
₽ 42"	DUPLEX RECEPTACLE MOUNTED AT INDICATED HEIGHT	SS	NURSE CALL STAFF STATION	INTERMEDIATE METAL CONDUIT INTERNATIONAL BUILDING CODE	IMC IBC	WEATHERPROOF	
		N	NURSE CALL STATION				

WIRE A	WIRE AND CONDUIT SIZING CHART																			
BREAKER	BREAKER 15 20 25 30 35 40 45 50 60 70 80 90 100 125 150 175 200 225 300												400							
PHASE	#12	#12	#10	#10	#8	#8	#6	#6	#6	#4	#4	#2	#2	#1	#1/0	#2/0	#3/0	#4/0	#350 KCMIL	#500 KCMIL
NEUTRAL	#12	#12	#10	#10	#8	#8	#6	#6	#6	#4	#4	#2	#2	#1	#1/0	#2/0	#3/0	#4/0	#350 KCMIL	#500 KCMIL
GROUND	#12	#12	#10	#10	#10	#10	#10	#10	#10	#8	#8	#8	#8	#6	#6	#6	#6	#4	#4	#3
CONDUIT	3/4"	3/4"	3/4"	3/4"	1"	1"	1"	1"	1"	1-1/4"	1-1/4"	1-1/4"	1-1/4"	1-1/2"	2"	2"	2"	2-1/2"	3"	4"

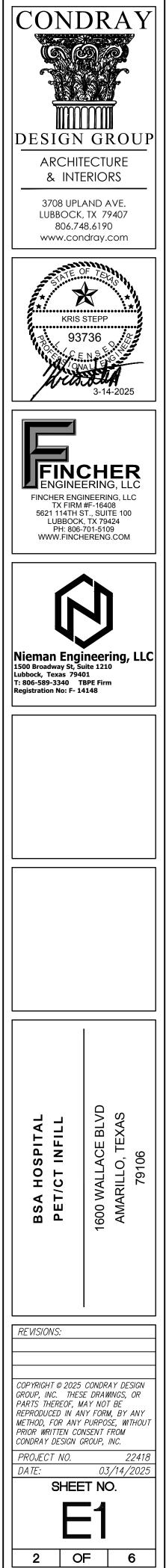
NOTES: 1. UNLESS OTHERWISE INDICATED ON THE DRAWINGS, ALL CONDUCTORS AND CONDUIT SHALL BE SIZED FROM THIS CHART.

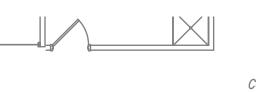
2. ALL 120V LIGHTING AND POWER CIRCUITS OVER 75' SHALL BE #10 THHN. 3. LOCAL DISCONNECT SIZES SHALL BE BASED ON CIRCUIT BREAKER RATING/SIZE.

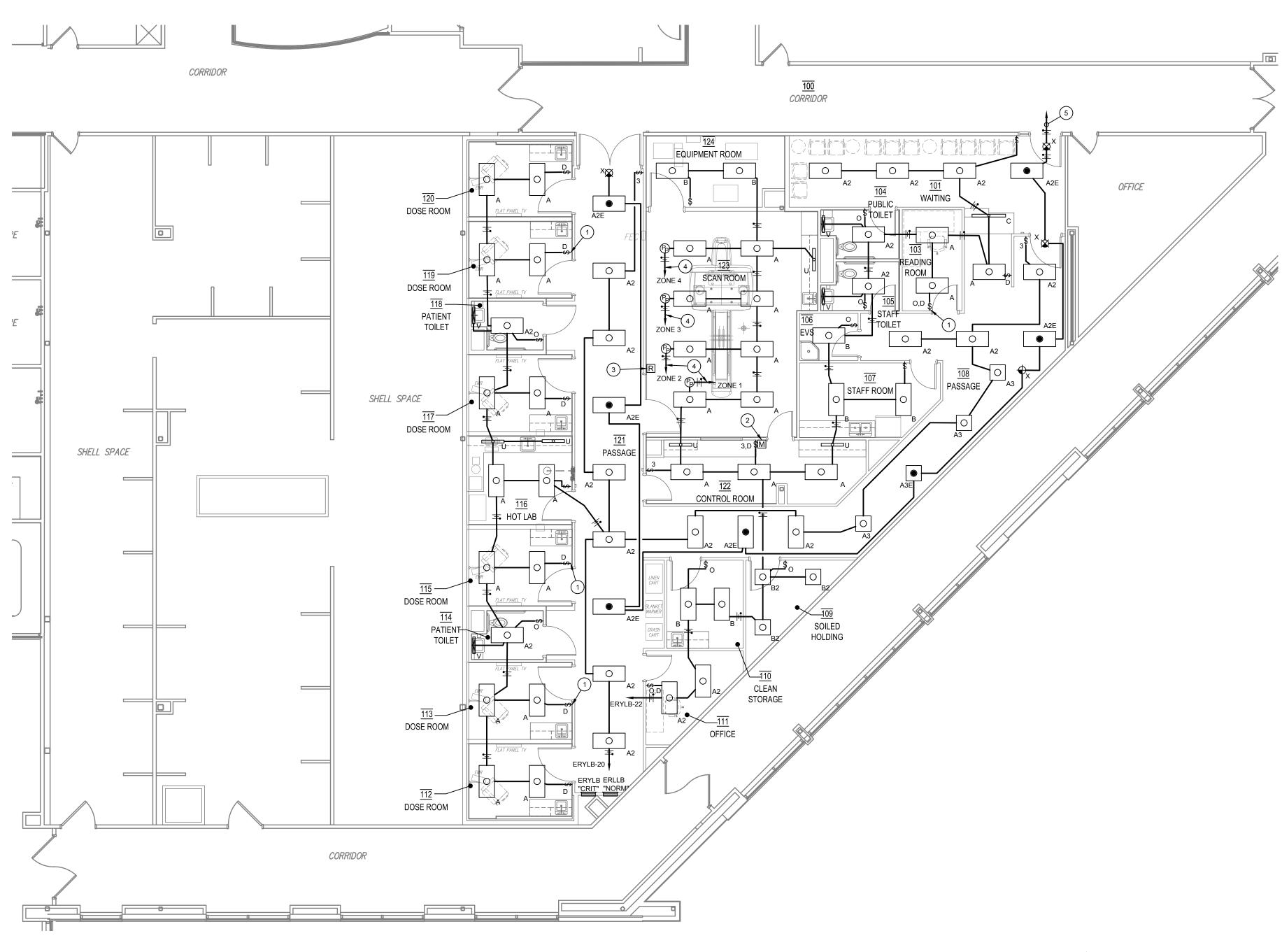




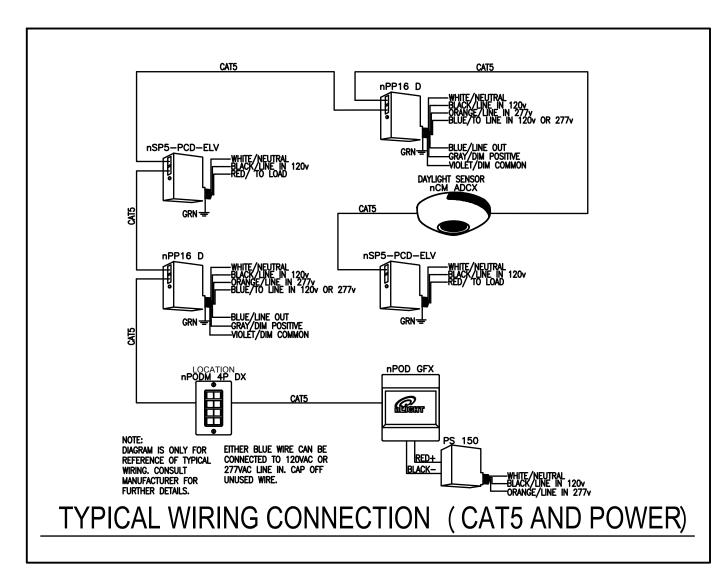
A. REFER TO SHEET E0 FOR ALL GENERAL NOTES APPLICABLE TO THIS SHEET.	
O KEYED NOTES (
1. EXISTING LIGHTING AND SWITCHES SHALL BE REMOVED.	
2. EXISTING FIRE ALARM DEVICE SHALL BE REMOVED. (TYPICAL)	
	-











FLOOR PLAN - LIGHTING 1/8" = 1'-0"

NOF

		LIGHTING CONTROL DETAILS				
ROOMS WITH THESE LIGHTING CONTROL SYMBOLS (REFER TO PLAN FOR EXACT QUANTITIES)	TYPICAL LOCATION (REFER TO PLAN FOR EXACT LOCATIONS)	LIGHTING CONTROL DESCRIPTION	EXAMPLE MODEL #'S			
	SCAN ROOM	NLIGHT LIGHTING CONTROLS WITH 0-10V AND LINE VOLTAGE DIMMING. CAT5 TO ROUTE THRU EACH CONTROL DEVICE BACK TO LIGHTING GFX CONTROLLER "M". POWER PACKS MOUNTED ABOVE CEILING OR AT CEILING HEIGHT (COORDINATE TYPE WITH MANUFACTURER). 4-CHANNEL KEYPADS "R" FOR OVERRIDE OF GFX CONTROLLER. CONSULT MANUFACTURER FOR ADDITIONAL REQUIRMENTS.	POWER PACK: NLIGHT NPP16-D (0-10V DIMMING) POWER PACK: NLIGHT NS-P5-PCD-ELV (LINE VOLTAGE DIMMING) MASTER CONTROLLER "M": NLIGHT NPOD-GFX-WH REMOTE CONTROL "R": NLIGHT NPODM-4P-DX-WH (CAT5 POWERED)			
\$ _{VD} \$ _V \$ _O	OFFICE AND STORAGE	WALL MOUNTED WALL BOX CONTROL WITH OCCUPANCY/VACANCY SENSOR	WALLBOX (VAC): NLIGHT WSX PDT-SA-WH WALLBOX (OCC): NLIGHT WSX PDT-WH WALLBOX (VAC/DIM): NLIGHT WSX PDT-D-SA-WH			
NOTES:						

NOTES: A. REFER TO MANUFACTURER'S DETAILS FOR LIGHTING CONTROL WIRING DIAGRAMS.

B. COORDINATE WITH LIGHTING CONTROLS MANUFACTURER PRIOR TO ROUGH-IN OF ANY CONDUIT OR WIRING FOR LIGHTING SYSTEM TO VERIFY WIRING REQUIREMENTS WITH LIGHTING CONTROL SYSTEM PROVIDED ON PROJECT.SENSOR SHALL PROVIDE COVERAGE OF ROOM/AREA. PROVIDE ADDITIONAL SENSORS AS REQUIRED BY MANUFACTURER.

C. LIGHTING CONTROL SYSTEM TO BE FULLY COMMISSIONED AND PROGRAMMED BY FACTORY TRAINED MANUFACTURERS REPRESENTATIVE. PROVIDE COMPLETE TRAINING TO OWNER. CONTRACTOR SHALL CONTACT MANUFACTURER AT LEAST 3 WEEKS PRIOR TO COMPLETION OF WORK TO SCHEDULE COMMISSIONING.

$NTROL \qquad \qquad \qquad \qquad \qquad \qquad \qquad \qquad \qquad \qquad \qquad \qquad \qquad \qquad \qquad \qquad \qquad $
ARCHITECTURE
& INTERIORS
WITH AS UBBOCK, TX 79407 806.748.6190 www.condray.com
KRIS STEPP



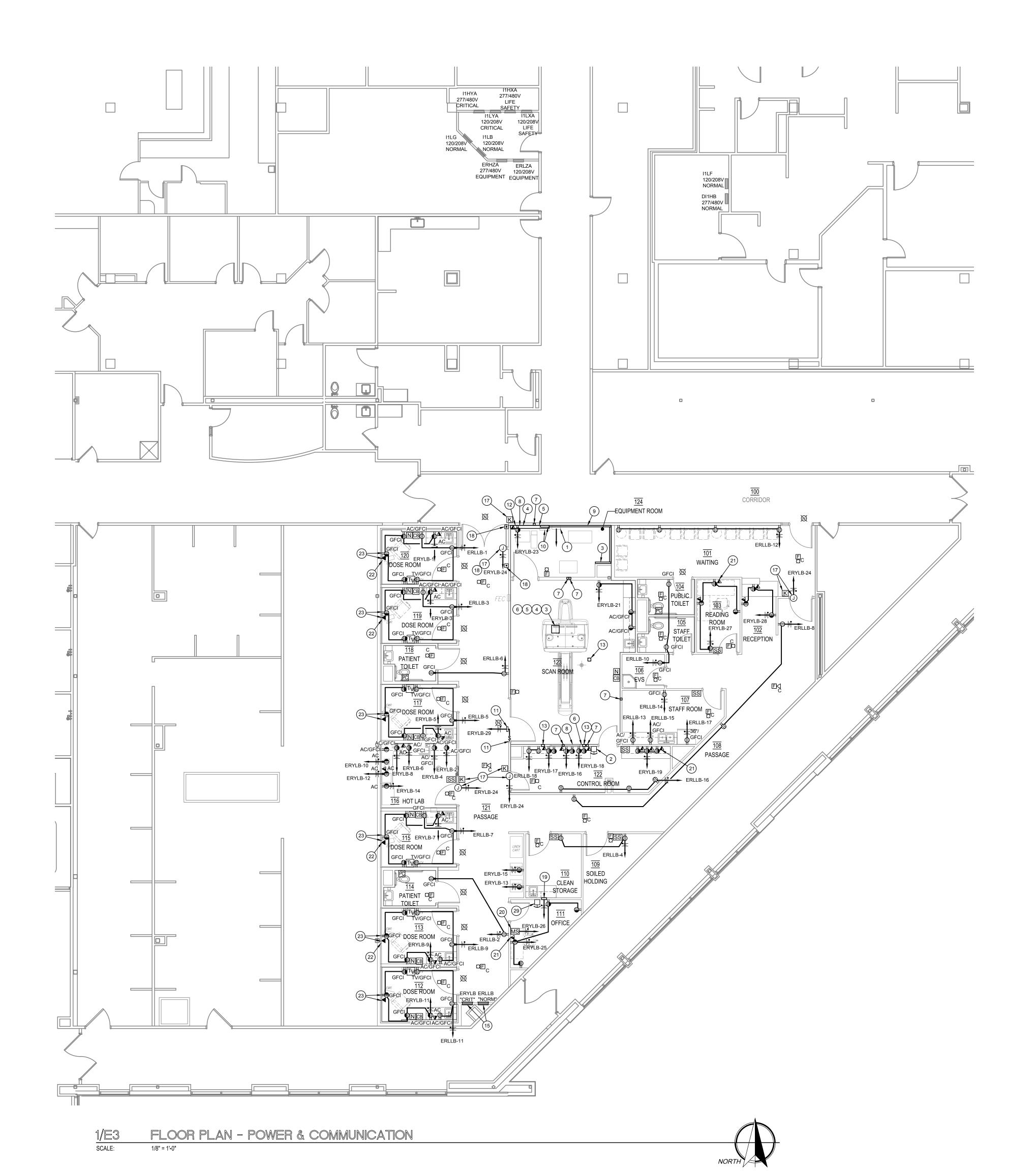
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DRTH	V

Nieman Eng 1500 Broadway St, S Lubbock, Texas 794 T: 806-589-3340 Registration No: F- 1	FBPE Firm
BSA HOSPITAL PET/CT INFILL	1600 WALLACE BLVD AMARILLO, TEXAS 79106
REVISIONS:	
PARTS THEREOF, M REPRODUCED IN A	SE DRAWINGS, OR MAY NOT BE NY FORM, BY ANY PURPOSE, WITHOUT INSENT FROM GROUP, INC. 22418 03/14/2025
3 C	0F 6

3-14-2025

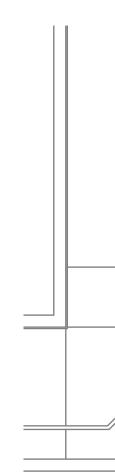
FINCHER ENGINEERING, LLC

FINCHER ENGINEERING, LLC TX FIRM #F-16408 5621 114TH ST., SUITE 100 LUBBOCK, TX 79424 PH: 806-701-5109 WWW.FINCHERENG.COM



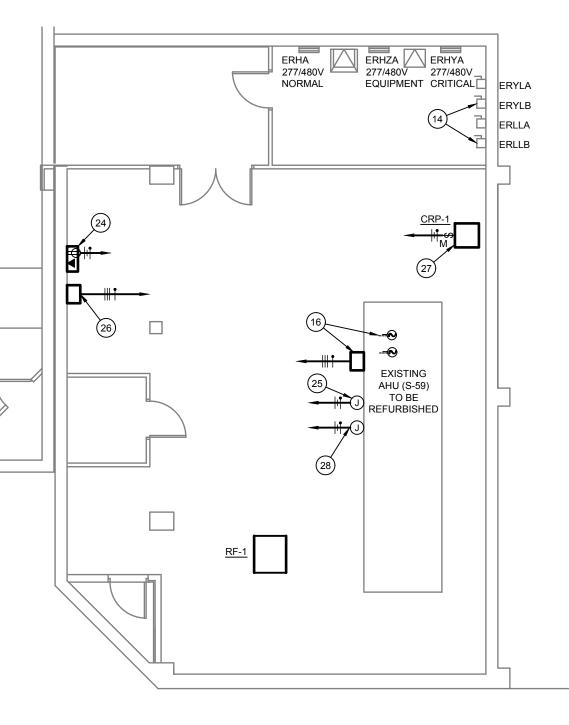
A. REFER TO SHEET E0 F B. REFER TO GE CONSU PROVIDE 480V, 90A, 3 PANEL(SUPPLIED BY IN BASEMENT. PROVI (MATCH EXISTING). 2. EMERGENCY SHUTOF REQUIREMENTS WITH 3. PROVIDE (2) - 3" CONE CONDUIT FROM GANT DUCT. 4. PROVIDE 2-1/2" COND 5. PROVIDE (2) - 3-1/2" C SERVE PDU. 6. PROVIDE 3-1/2" COND 7. PROVIDE 4"X4"X4" PU CONSULTANT DRAWI 8. PROVIDE 2-1/2" COND 9. PROVIDE 10"X3-1/2" S REFER TO GE CONSU INFORMATION. 10. PROVIDE 18"X3-1/2" S DIVIDERS. REFER TO INFORMATION. 11. PROVIDE "X-RAY IN U LE-P-W-1-R-AC-SW16) FOR CONTROL. COOF REPRESENTATIVE

- 12. PROVIDE 18"X6" WITH SERVE EQUIPMENT. ADDITIONAL INFORMA
- 13. PROVIDE 6"X6"X4" PU CONSULTANT DRAWI 14. PROVIDE 150A FUSES
- PANEL. 15. CONNECT TO EXISTIN CORRESPONDING NA EXISTING CONDUIT M
- 16. EXISTING AHU S-59. F NEW 35A/3P CIRCUIT PROVIDE NEW DUCT
- 17. PROVIDE 120V CONNI REQUIRED TO SUPPO REQUIREMENTS WITH HARDWARE.

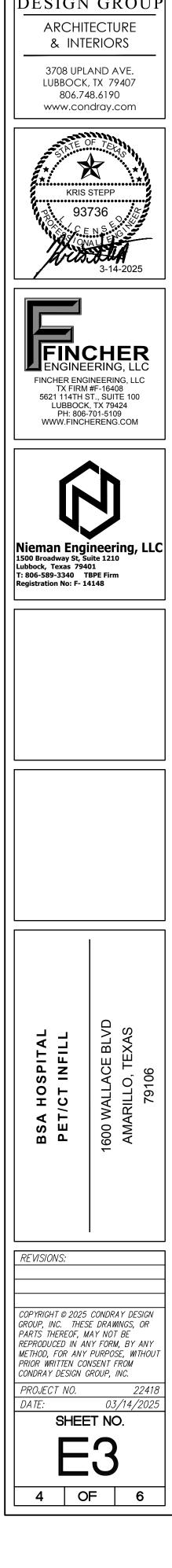


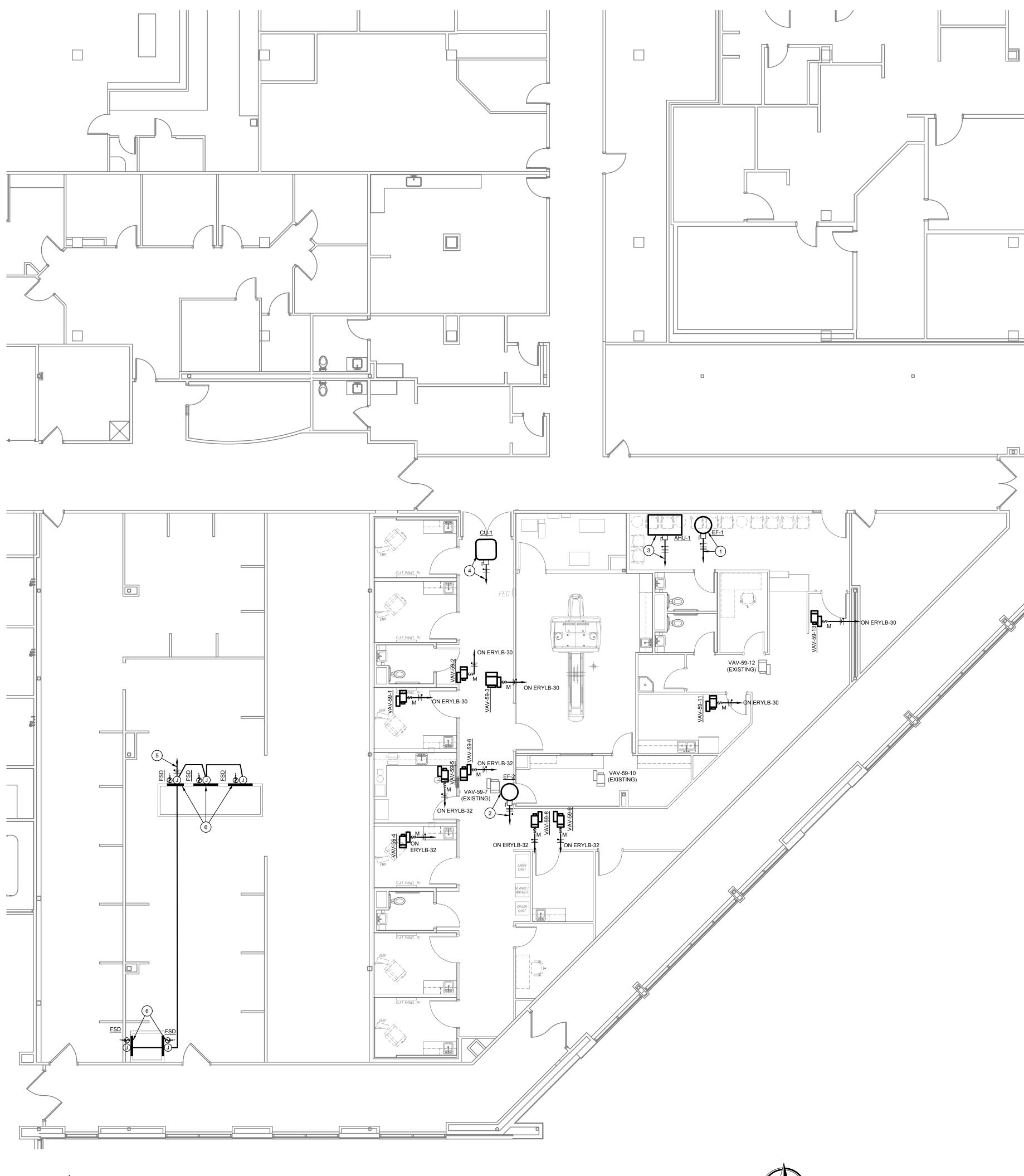
2/E3 SCALE:

	GENER	AL NOTES	CONDRA
	REFER TO SHEET E0 FOR ALL GENERAL NOTES APPLICABLE TO THIS S	GHEET.	
	REFER TO GE CONSULTANT DRAWINGS FOR ALL CONDUIT, WIRING, A		
)	KEYEI	O NOTES O	
-	PROVIDE 480V, 90A, 3PH CONNECTION TO SERVE MAIN DISCONNECT PANEL(SUPPLIED BY GE). EXTEND AND CONNECT TO PANEL "ERHYA" IN BASEMENT. PROVIDE 90A/3P CIRCUIT BREAKER AS REQUIRED (MATCH EXISTING).	18. PROVIDE 120V CONNECTION, BACKBOX AND PATHWAYS AS REQUIRED TO SUPPORT POWER DOOR OPERATOR AND CONTROL BUTTON. COORDINATE REQUIREMENTS WITH MANUFACTURER.	
-	EMERGENCY SHUTOFF BUTTON. COORDINATE CONNECTION REQUIREMENTS WITH GE REPRESENTATIVE.	19. MED GAS ALARM, 120V. EXTEND AND CONNECT TO "LIFE SAFETY" EMERGENCY PANEL WITH AVAILABLE CAPACITY. PROVIDE 20A/1P CIRCUIT BREAKER AS REQUIRED. (MATCH EXISTING). FIELD VERIFY EXISTING CONDITIONS.	DESIGN GROU ARCHITECTURE
	PROVIDE (2) - 3" CONDUITS TO SERVE WATER LINES AND (1) 2-1/2" CONDUIT FROM GANTRY TO CHILLER.EXTEND CONDUIT TO WALL DUCT.	20. NURSE CALL MASTER STATION. EXTEND AND CONNECT TO EXISTING RAULAND RESPONDER SYSTEM. FIELD VERIFY LOCATION	3708 UPLAND AVE.
	PROVIDE 2-1/2" CONDUIT FROM GANTRY TO WALL DUCT.	AND CONNECTION REQUIREMENTS AS REQUIRED. CONNECT ALL ASSOCIATED NURSE CALL EQUIPMENT, POWER SUPPLIES,	LUBBOCK, TX 79407
-	PROVIDE (2) - 3-1/2" CONDUITS FROM GANTRY TO WALL DUCT TO SERVE PDU.	BATTERIES, ETC TO "CRITICAL" PANEL. COORDINATE REQUIREMENTS WITH RAULAND CONTRACTOR, ARCHITECT, AND HOSPITAL PERSONNEL.	806.748.6190 www.condray.com
-	PROVIDE 3-1/2" CONDUIT FROM GANTRY TO OPERATORS CONSOLE.	21. COMBINATION TELEPHONE AND DATA OUTLET (TYPICAL). PROVIDE	
	PROVIDE 4"X4"X4" PULL BOX TO SERVE EQUIPMENT. REFER TO GE CONSULTANT DRAWINGS FOR ADDITIONAL INFORMATION.	TWO(2) CATEGORY 6 RJ-45 JACKS, TWO(2) CATEGORY 6 CABLES. EXTEND AND CONNECT TO PATCH PANEL IN LAN RACK. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.	
	PROVIDE 2-1/2" CONDUIT FROM CONSOLE TO WALL DUCT.	22. DATA OUTLET (TYPICAL). PROVIDE CATEGORY 6 RJ-45 JACK AND	KRIS STEPP
	PROVIDE 10"X3-1/2" SURFACE WALL DUCT WITH TWO DIVIDERS. REFER TO GE CONSULTANT DRAWINGS FOR ADDITIONAL INFORMATION.	CATEGORY 6 CABLE. EXTEND AND CONNECT TO PATCH PANEL IN LAN RACK. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.	93736 90 90 93736 90 93736
0.	PROVIDE 18"X3-1/2" SURFACE VERTICAL WALL DUCT WITH TWO DIVIDERS. REFER TO GE CONSULTANT DRAWINGS FOR ADDITIONAL INFORMATION.	23. RECEPTACLE AND DATA OUTLET TO SERVE EMR. COORDINATE MOUNTING HEIGHT AND EXACT LOCATION WITH ARCHITECTURAL ELEVATIONS.	0104 0105 014-2025
1.	PROVIDE "X-RAY IN USE" WARNING LIGHT (LITHONIA LE-P-W-1-R-AC-SW16) AND DOOR JAMB SWITCH. CONNECT TO PDU FOR CONTROL. COORDINATE CONTROL REQUIREMENTS WITH GE REPRESENTATIVE	24. RECEPTACLE AND DATA OUTLET TO SERVE HVAC CONTROL. COORDINATE MOUNTING HEIGHT WITH MECHANICAL CONTRACTOR.EXTEND AND CONNECT TO NEAREST AVAILABLE 120V "CRITICAL" EMERGENCY PANEL. PROVIDE 20A/1P CIRCUIT BREAKER (MATCH EXISTING).	
2.	PROVIDE 18"X6" WITH GROMMETED OPENINGS AS REQUIRED TO SERVE EQUIPMENT. REFER TO GE CONSULTANT DRAWINGS FOR ADDITIONAL INFORMATION.	25. PROVIDE 120V CONNECTION TO SERVE LIGHTS AND CONTROLS. FIELD VERIFY EXISTING CONDITIONS. COORDINATE CONNECTION REQUIREMENTS WITH MECHANICAL CONTRACTOR. EXTEND AND	
3.	PROVIDE 6"X6"X4" PULL BOX TO SERVE EQUIPMENT. REFER TO GE CONSULTANT DRAWINGS FOR ADDITIONAL INFORMATION.	CONNECT TO NEAREST AVAILABLE 120V "EQUIPMENT" OR "CRITICAL" EMERGENCY PANEL. PROVIDE 20A/1P CIRCUIT BREAKER (MATCH EXISTING).	FINCHER ENGINEERING, LLC TX FIRM #F-16408 5621 114TH ST., SUITE 100
	PROVIDE 150A FUSES IN EXISTING DISCONNECT TO SERVE NEW PANEL.	26. NEW VFD TO SERVE RF-1. EXTEND AND CONNECT TO EXISTING 20A/3P CIRCUIT BREAKER IN PANEL ERHZA. COORDINATE	LUBBOCK, TX 79424 PH: 806-701-5109 WWW.FINCHERENG.COM
5.	CONNECT TO EXISTING DISCONNECT IN BASEMENT WITH CORRESPONDING NAME. PROVIDE (4) #1/0 + #6 GND IN 2" CONDUIT. EXISTING CONDUIT MAY BE REUSED IF IN GOOD WORKING CONDITION. FIELD VERIFY.	CONNECTION REQUIREMENTS WITH MECHANICAL CONTRACTOR. 27. NEW CRP-1, 120V, 1PH, 1/3 HP. EXTEND AND CONNECT TO EXISTING "EQUIPMENT" EMERGENCY CIRCUIT SERVING EQUIPMENT. FIELD VERIFY EXISTING CONDITIONS.	
5.	EXISTING AHU S-59. FIELD VERIFY EXISTING CONDITIONS. PROVIDE NEW 35A/3P CIRCUIT BREAKER IN PANEL ERHZA (MATCH EXISTING). PROVIDE NEW DUCT DETECTORS AS REQUIRED.	28. PROVIDE 120V CONNECTION TO SERVE UV LIGHT. FIELD VERIFY EXISTING CONDITIONS. COORDINATE CONNECTION REQUIREMENTS WITH MECHANICAL CONTRACTOR. EXTEND AND CONNECT TO	
' .	PROVIDE 120V CONNECTION, BACKBOX AND PATHWAYS AS REQUIRED TO SUPPORT SECURE DOOR. COORDINATE REQUIREMENTS WITH SECURITY CONTRACTOR AND DOOR	NEAREST AVAILABLE 120V "EQUIPMENT" OR "CRITICAL" EMERGENCY PANEL. PROVIDE 20A/1P CIRCUIT BREAKER (MATCH EXISTING).	Nieman Engineering, 1500 Broadway St, Suite 1210
	HARDWARE.	29. HVAC EMERGENCY SHUT-OFF. CONNECT TO DE-ENERGIZE AHU S-59 IN BASEMENT. COORDINATE CONNECTION REQUIREMENTS WITH MECHANICAL CONTRACTOR.	1500 Broadway St, Suite 1210 Lubbock, Texas 79401 T: 806-589-3340 TBPE Firm Registration No: F- 14148





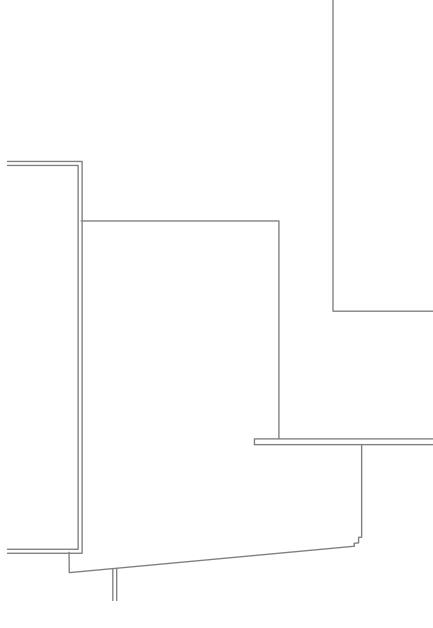


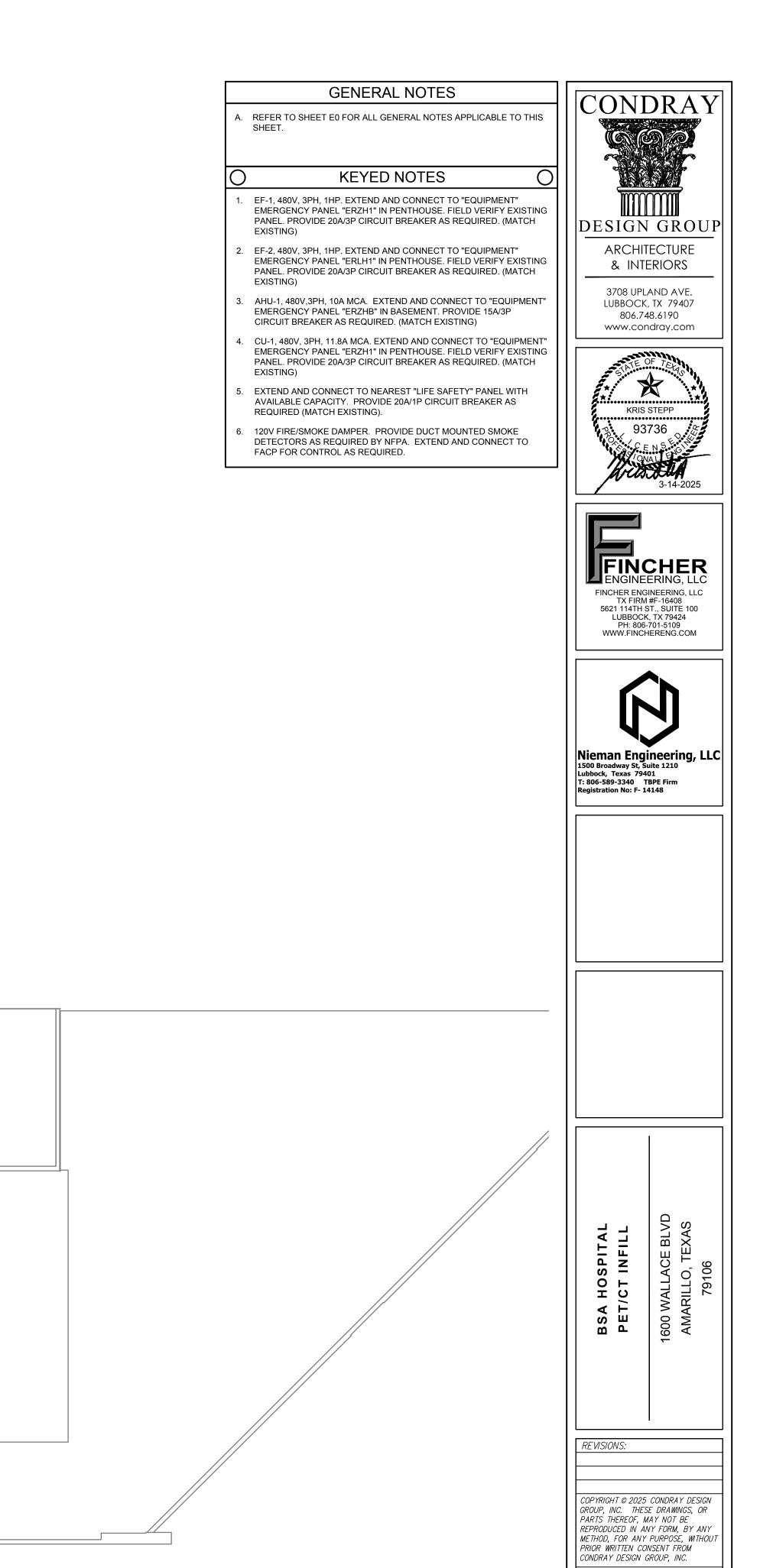


FLOOR PLAN - MECHANICAL POWER 1/E4 scale: 1/8" = 1'-0"

ERZL1 ERZH1 277/480V EQUIPMENT 120/208V CRITICAL ERLY3 120/208V CRITICAL ERL2 120/208V NORMAL ERL3 120/208V NORMAL

NORTH





PENTHOUSE	FLOOR	PLAN -	ELECTRICAL
1/16" = 1'-0"			



PROJECT NO. DATE:

SHEET NO.

E4

5 OF 6

22418

03/14/2025

			. <u></u>	LIGHT FIXTU	JRE SCHE	EDULE								PANEL "ERLLB"	
MARK	REFERENCE IMAGE	MANUFACTURER	MODEL	DESCRIPTION	MOUNTING	FINISH	TYPE V	OLTS W	VATTS	LUMENS	TEMP(°K)	DIMMING	NOTES	MOUNTING RECESSED FANEL ENCLO 120/208 VOLTS 3 PHASE 4 WIRE + GR.	MAINS 225 MLO BUS 225 AMPS.
A		ACUITY	ENVX-2X4-HRG-4800LM- 80CRI-40K-MIN10-MVOLT	CURVED LENS RECESSED 2'X4' PANEL	RECESSED	WHITE	LED	120	40	4800	4000	0-10V		NORMAL NORMAL DESCRIPTION LOAD / PHASE A B C NO.	LOAD / PHASE DESCRIPTION
A2		ACUITY	ENVX-2X4-HRG-3000LM- 80CRI-40K-MIN10-MVOLT	CURVED LENS RECESSED 2'X4' PANEL	RECESSED	WHITE	LED	120	23	3000	4000	0-10V		RECEPTACLE 1000 20 1 2 20 RECEPTACLE 1000 20 3 4 20 RECEPTACLE 1000 20 5 6 20 RECEPTACLE 1000 20 7 8 20	400 RECEPTACLE 400 RECEPTACLE 400 RECEPTACLE 400 RECEPTACLE 400 RECEPTACLE
A2E		ACUITY	ENVX-2X4-HRG-3300LM- 80CRI-40K-MIN10-MVOLT	SAME AS TYPE "A2" EXCEPT SERVED FROM "LIFE SAFETY" EMERGENCY PANEL	RECESSED	WHITE	LED	120	23	3000	4000	0-10V		RECEPTACLE 1000 20 11 12 20 RECEPTACLE 200 20 13 14 20 RECEPTACLE 200 20 15 16 20 RECEPTACLE 200 200 17 18 20	800 RECEPTACLE 200 RECEPTACLE 600 RECEPTACLE 600 RECEPTACLE 400 RECEPTACLE
A3		ACUITY	ENVX-2X2-HRG-3300LM- 80CRI-40K-MIN10-MVOLT	CURVED LENS RECESSED 2'X2' PANEL	RECESSED	WHITE	LED	120	30	3300	4000	0-10V		SPARE 20 19 20 20 SPARE 20 21 22 20 SPARE 20 23 24 20 SPARE 20 25 26 20 SPARE 20 27 28 20	SPARE SPARE SPARE SPARE
A3E		ACUITY	ENVX-2X2-HRG-3300LM- 80CRI-40K-MIN10-MVOLT	SAME AS TYPE "A3" EXCEPT SERVED FROM "LIFE SAFETY" EMERGENCY PANEL	SURFACE	WHITE	LED	120	30	3300	4000	0-10V		SPARE 20 29 30 20 SPACE 20 31 32 20 SPACE 20 33 34 20 SPACE 20 35 36 20 SPACE 20 37 38 20	SPACE
В		ACUITY	CPX 2X4 AL06 SWW7 M2	2'X4' FLAT PANEL	RECESSED	WHITE	LED	120	36	4000	4000	0-10V		SPACE 20 39 40 20 SPACE 20 41 42 20 CONNECTED LOAD: 10,800 AMPS 12 12	SPACE
B2		ACUITY	CPX 2X2 AL06 SWW7 M4	2'X2' FLAT PANEL	RECESSED	WHITE	LED	120	41	4400	4000	0-10V		PHASE B: 3800 AMPS 14 PHASE C: 3800 AMPS 14 NOTES: Image: Market State Sta	
с		AXIS	B2SQRLED-500-80-40-SO- S(4')-W-UNV-DP-1-DS	4' LINEAR SLOT LIGHT FIXTURE	RECESSED	WHITE	LED	120	20	2000	4000	0-10V	VERIFY EXACT LENGTH WITH ARCHITECTURAL CEILING PLAN PRIOR TO ORDERING.	MOUNTING RECESSED PANEL "ERYLB" <u>120/208</u> VOLTS 3 PHASE 4 WIRE + GR.	MAINS <u>225</u> MLO BUS <u>225</u> AMPS.
U		JUNO	UCES-36IN-SWW6-90CRI- WH-M6	3' LED UNDERCABINET LIGHT WITH ROCKER SWITCH	SURFACE	WHITE	LED	120	17	1200	2700-3500	N/A		DESCRIPTION LOAD / PHASE BKR CKT NOTES CKT BKR A B C NO. NO.	INIMUM AIC.10000AMPS.LOAD / PHASEDESCRIPTIONABC
V		BLACK JACK	VEC-24-SN-27U-40K	VANITY LIGHT FIXTURE	WALL	BRUSHED NICKEL	LED	120	14	1000	4000	N/A		RECEPTACLE 1000 20 1 2 20 RECEPTACLE 1000 20 3 4 20 RECEPTACLE 1000 20 5 6 20 RECEPTACLE 1000 20 7 8 20 RECEPTACLE 1000 20 9 10 20	200RECEPTACLE200RECEPTACLE200200200RECEPTACLE200RECEPTACLE200RECEPTACLE
x	EXIT	LITHONIA	EDGR-1-R-EL-SD	SINGLE FACED EXIT SIGN WITH EMERGENCY BATTERY	RECESSED	ALUMINUM	LED	120	2	LED	N/A	N/A		RECEPTACLE 1000 20 11 12 20 CRASH CART 500 20 13 14 20 BLNKT WRMR 500 20 15 16 20 RECEPTACLE 200 20 17 18 20	200200RECEPTACLE200200RECEPTACLE200RECEPTACLE200RECEPTACLE200RECEPTACLE
			L	GHT FIXTURE SCH	EDULE GEN	NERAL NOT	ES							RECEPTACLE 200 20 19 20 20 RECEPTACLE 200 20 21 22 20	963 LIGHTING 905 LIGHTING
			RCHITECT DURING SUBMITTA											RECEPTACLE 200 20 23 24 20 RECEPTACLE 800 20 25 26 20	200 POWER DOOR 200 NURSE CALL
			FOR EXACT LIGHT FIXTURE L						DELED		TUDAL			RECEPTACLE 800 20 27 28 20	800 RECEPTACLE
U. FUR P	LE SOSI LINDED FIXIURES		CABL	L, OTLIN, LTO. JAS REQUIRE				JUTURE.	NEFER		LUTUINAL			WARN LGT 200 20 29 30 20 SPARE 20 31 32 20	500 VAV 500 VAV
														SPARE 20 33 34 20 SPARE 20 35 36 20	SPACE SPACE
														SPARE 20 37 38 20	SPACE
														SPARE 20 39 40 20 SPARE 20 41 42 20	SPACE SPACE
														CONNECTED LOAD: 15,468 PHASE A: 5763 AMPS 21	
														PHASE B: 5805 AMPS 21 PHASE C: 3900 AMPS 14	
														NOTES: 1. PROVIDE INTEGRAL MOUNTED SURGE PROTECTION DEVICE(SPD) 80KA. MODES	S: L-L, L-G, L-N, N-G

