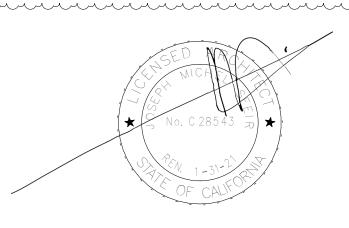


Tri-City Medical Center

4002 VISTA WAY
OCEANSIDE CA,
92056
100% CONSTRUCTION DOCUMENTS 3/11/2020

- DELTA 1 OSHPD COMMENTS 8/3/2020
- DELTA 2 DESIGN CHANGES 8/10/2020
- **DELTA 3 OSHPD COMMENTS 10/2/2020**
- DELTA 4 OSHPD COMMENTS 11/24/2020
- **DELTA 5 DESIGN CHANGES 11/24/2020**

ACD 001 DELTA 6 DESIGN CHANGES 4/10/2021



ARCHITECTURE:

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MRI CORPORATION

3554 Buisness Park Dr., Ste B Costa Mesa, CA 92626 P: 714-545-7700 INTERIOR DESIGNER:

ISLEY DESIGN & PLANNING

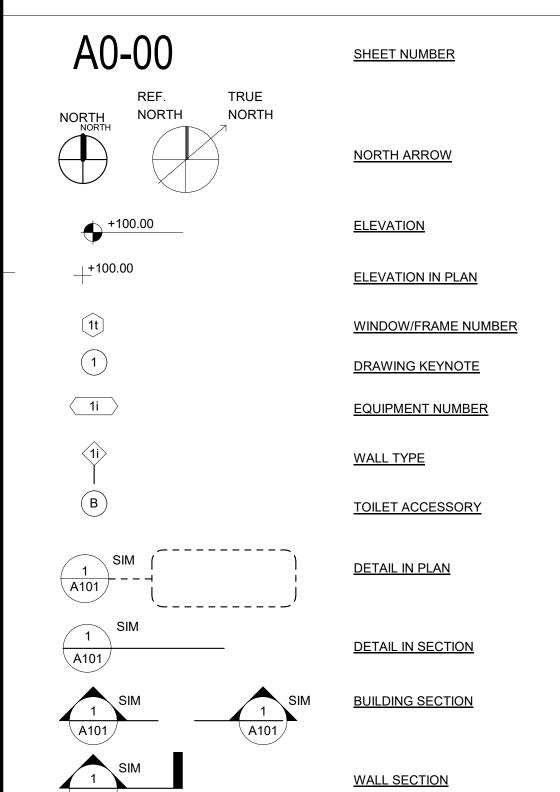
1982 Palsero Avenue Escondido, CA 92029 P: 760-484-0455

OSHPD PROJECT NUMBER: S200813-37-00

ABBREVIATIONS: ACOUSTICAL CEILING TILE **HORIZONTAL** ADJ ADJACENT INSIDE DIAMETER AFF ABOVE FINISHED FLOOR INSUL INSULATION ALUM **ALUMINUM** INT INTERIOR ALTERNATE **JANITOR** JAN **ACCESS PANEL** LAMINATE LLH ARCH ARCHITECT LONG LEG HORIZONTAL BOARD LLV LONG LEG VERTICAL BLDG BUILDING LGT W LIGHT WEIGHT BLK'G **BLOCKING** MAX MAXIMUM BEAM MECH **MECHANICAL** BOT BOITOM MIN MINIMUM BTWN CAB BETWEEN MISC **MISCELLANEOUS** CABINET NIC NOT IN CONTRACT CAR NO / # CARPET NUMBER CEM CEMENT NTS NOT TO SCALE **CERAMIC TILE** NOT RATED CLG OC CEILING ON CENTER CLR CLEAR OD **OUTSIDE DIAMETER** CTR COUNTER OPNG OPENING COL COLUMN OPP OPPOSITE CONSTI CONSTRUCTION PLATE/PROPERTY LINE CONT **CONTINUOUS** PL LAM PLASTIC LAMINATE CORR CORRIDOR PLWD PLYWOOD DBL DOUBLE POL POLISHED DEPT DEPARTMENT PAIR PT PRESSURE TREATED DRINKING FOUNTAIN PTD DIA DIAMETER PAINTED DIM DIMENSION QTY QUANTITY DISP **DISPENSER** RADIUS DOWN **ROOF DRAIN** DRAIN REF REFERENCE DET **DETAIL** REINF REINFORCING RMDWG **DRAWING** ROOM DWR RO DRAWER **ROUGH OPENING** RUB EACH RUBBER **EXPANSION JOINT** SC SOLID CORE ELECT **ELECTRICAL** SCHED **SCHEDULE ENCLOSURE** SHR **ENCL** SHOWER EQ EQUAL SHT SHEET EW **EACH WAY** SIM SIMILAR **EXISTING** SMS SHEET METAL SCREW EXG EXISTING TO REMAIN ETR, (E) SPEC **SPECIFICATIONS** EXT **EXTERIOR** SQUARE ST STL FLOOR DRAIN STAINLESS STEEL FEC FIRE EXTINGUISHER CAB. STD STANDARD FHC STOR FIRE HOSE CABINET STORAGE **FINISH** STL STEEL FIXT STRUC1 **FIXTURE** STRUCTURE FLR FLOOR SUSP SUSPENDED F.O.F FACE OF FINISH TELE **TELEPHONE** FEET TEMP **TEMPORARY** FURR FURRING THK THICK FIELD VERIFY TYP **TYPICAL** UON/UNO **UNLESS OTHERWISE NOTED** GAUGE GALV **GALVANIZED** VCT VINYL COMPOSITE TILE VERT **GRAB BAR VERTICAL** VEST GLASS **VESTIBULE** GYP GYPSUM GWB WD WOOD GYPSUM WALL BOARD HDR HEADER W/O WITHOUT HDWD **HARDWOOD** WGT WEIGHT **HDWR HARDWARE** -HGT-INTERIM LIFE SAFETY MEASURES ALL EXIT DOORS SHALL BE OPENABLE FROM THE INSIDE WITHOUT USE OF A KEY OR ANY SPECIAL KNOWLEDGE OR EFFORT. PANIC HARDWARE AT EXITS SHALL BE PROVIDED AS REQUIRED BY PRIOR TO THE START OF WORK CONSULT WITH FIELD FIRE MARSHAL ON AN ACCEPTABLE EXITING

- ARRANGEMENT. A FIRE WATCH MAY BE REQUIRED AT THE DISCRETION OF THE FIRE MARSHAL. INTERIM LIFE SAFETY MEASURES ARE REQUIRED TO TEMPORARILY COMPENSATE FOR DEFICIENCIES IN NORMAL LIFE SAFETY REQUIREMENTS DUE TO PROJECT ACTIVITIES AND SHALL
- ENSURE THAT EXITS PROVIDE FREE AND UNOBSTRUCTED EGRESS. PERSONNEL SHALL RECEIVE TRAINING IF ALTERNATE EXITS MUST BE DESIGNATED. AREAS UNDER CONSTRUCTION MUST MAINTAIN ESCAPE FACILITIES FOR CONSTRUCTION WORKERS AT ALL TIMES. MEANS OF EGRESS MUST BE INSPECTED DAILY.
- ENSURE THAT FIRE ALARM, DETECTION, & SUPPRESSION SYSTEMS ARE NOT IMPAIRED.
- ENSURE THAT TEMPORARY CONSTRUCTION PARTITIONS ARE SMOKE-TIGHT AND CONSTRUCTED OF NON-COMBUSTIBLE MATERIALS.
- PROVIDE ADDITIONAL FIREFIGHTING EQUIPMENT AND TRAIN PERSONNEL IN ITS USE.

SYMBOL LEGEND:



SEISMIC BRACING

- SEISMIC BRACING CBC 2019 CHAPTER 16A/ASCE 7-16 HVAC DUCTWORK PLUMBING/ PIPING AND CONDUIT SYSTEMS.
- ALL PIPES, DUCTS AND CONDUIT SHALL BE BRACED TO RESIST THE FORCES PRESCRIBED IN 2019 CBC CHAPTER 16A/ASCE 7-16. DUCTWORK SHALL BE CONSTRUCTED IN ACCORDANCE WITH PROVISIONS CONTAINED IN PART 4. TITLE 24, CALIFORNIA MECHANICAL CODE. WHERE POSSIBLE, PIPES, CONDUIT, AND THEIR CONNECTIONS SHALL BE CONSTRUCTED OF DUCTILE MATERIALS (COPPER, DUCTILE IRON, STEEL OR ALUMINUM AND BRAZED, WELDED OR SCREWED CONNECTIONS). PIPES, CONDUITS AND THEIR CONNECTIONS, CONSTRUCTED OF NONDUCTILE MATERIALS (E.G., CAST IRON NO-HUB PIPE AND PLASTIC), SHALL HAVE THE BRACE SPACING REDUCED TO SATISFY REQUIREMENTS OF ASCE 7-16, CHAPTER 13 AND NOT TO EXCEED ONE-HALF OF THE SPACING ALLOWED FOR DUCTILE MATERIALS.
- 3. NOT USED.
- COMPONENTS THAT ARE INSTALLED IN-LINE WITH THE DUCT SYSTEM AND HAVE AN OPERATING WEIGHT GREATER THAN 75 LB. (334N), SUCH AS FANS, HEAT EXCHANGERS. AND HUMIDIFIERS. SHALL BE SUPPORTED AND LATERALLY BRACED INDEPENDENT OF THE DUCT SYSTEM AND SUCH BRACES SHALL MEET THE FORCE REQUIREMENTS OF SECTION 13.3.1. APPURTENANCES SUCH AS DAMPERS, LOUVERS, AND DIFFUSERS SHALL BE POSITIVELY ATTACHED WITH MECHANICAL FASTENERS. UNBRACED PIPING ATTACHED TO IN-LINE EQUIPMENT SHALL BE PROVIDED WITH ADEQUATE FLEXIBILITY TO ACCOMMODATE DIFFERENTIAL DISPLACEMENTS.
- PIPING SYSTEMS SHALL SATISFY THE REQUIREMENTS OF THIS SECTION EXCEPT THAT ELEVATOR SYSTEM PIPING SHALL SATISFY THE REQUIREMENTS OF SECTION 13.6.10.
- EXCEPT FOR PIPING DESIGNED AND CONSTRUCTED IN ACCORDANCE WITH NFPA 13, SEISMIC SUPPORTS SHALL NOT BE REQUIRED FOR OTHER PIPING SYSTEMS WHERE ONE OF THE FOLLOWING CONDITIONS IS MET:
- PIPING IS SUPPORTED BY ROD HANGERS: HANGERS IN THE PIPE RUN ARE 12 IN. (305 MM) OR LESS IN LENGTH FROM THE TOP OF THE PIPE TO THE SUPPORTING STRUCTURE; HANGERS ARE DETAILED TO AVOID BENDING OF THE HANGERS AND THEIR ATTACHMENTS; AND PROVISIONS ARE MADE FOR PIPING TO ACCOMMODATE EXPECTED DEFLECTIONS.
- HIGH-DEFORMABILITY PIPING IS USED: PROVISIONS ARE MADE TO AVOID IMPACT WITH LARGER PIPING OR MECHANICAL COMPONENTS OR TO PROTECT THE PIPING IN THE EVENT OF SUCH IMPACT: AND THE FOLLOWING SIZE REQUIREMENTS ARE SATISFIED: A. FOR SEISMIC DESIGN CATEGORIES D, E, OR F WHERE ID IS GREATER THAN 1.0, THE NOMINAL PIPE SIZE SHALL BE 1 IN. (25 MM) OR LESS.
- FOR SEISMIC DESIGN CATEGORIES D, E, OR F WHERE IP IS EQUAL TO 1.0, THE NOMINAL PIPE SIZE SHALL BE 3 IN. (76 MM)
- WHERE LATERAL RESTRAINTS ARE OMITTED, THE PIPING, DUCTS, OR CONDUIT SHALL BE INSTALLED SUCH THAT LATERAL MOTION OF THE PIPING OR DUCT WILL NOT CAUSE DAMAGING IMPACT WITH OTHER SYSTEMS OR STRUCTURAL MEMBERS, OR LOSS OF VERTICAL SUPPORT.
- ALL TRAPEZE ASSEMBLIES SUPPORTING PIPES, DUCTS, AND CONDUIT SHALL BE BRACED TO RESIST THE FORCES OF CHAPTER 16A/ASCE 7, CONSIDERING THE TOTAL WEIGHT OF THE ELEMENTS ON THE TRAPEZE.
- PIPES, DUCTS AND CONDUIT SUPPORTED BY A TRAPEZE WHERE NONE OF THOSE ELEMENTS WOULD INDIVIDUALLY BE BRACED NEED NOT BE BRACED IF CONNECTIONS TO THE PIPE/CONDUIT/DUCTWORK OR DIRECTIONAL CHANGES DO NOT RESTRICT THE MOVEMENT OF THE TRAPEZE. IF THIS FLEXIBILITY IS NOT PROVIDED, BRACING WILL BE REQUIRED WHEN THE AGGREGATE WEIGHT ○ OF THE PIPES AND CONDUIT EXCEEDS 10 POUNDS/ FEET (10 PLF). THE WEIGHT SHALL BE DETERMINED ASSUMING ALL PIPES AND CONDUIT ARE FILLED WITH WATER.
- **EQUIPMENT SUPPORTS AND ATTACHMENTS:** SUPPORTS AND ATTACHMENTS OF ALL EQUIPMENT TO BE INSTALLED AS PART OF THIS PROJECT SHALL BE DETAILED ON CONSTRUCTION DOCUMENTS, EXCEPT THOSE EXEMPT BY THE CBC
- SECTION 1617A.1.18. EQUIPMENT SUPPORTS AND ATTACHMENTS SHALL BE APPROVED BY THE APPROPRIATE DESIGN PROFESSIONAL OF RECORD (RDP) AND OSHPD AS PART OF FIELD REVIEWS/OBSERVATIONS. THE INSPECTOR OR RECORD (IOR) SHALL ASSURE THAT THE ABOVE REQUIREMENTS ARE ENFORCED.
- REFERENCE: CBC SECTIONS 107 AND 1617A.

B. NOT USED.

- SEISMICALLY RESTRAIN ALL SLISPENDED LITH ITY SYSTEMS IN CONFORMANCE WITH REQUIREMENTS OF THE 2019 CALIFORNIA BUILDING CODE, CHAPTER 16A/ASCE 7-16. AS THE BASIS FOR THE RESTRAINT REQUIREMENTS, CALCULATE AND SUBMIT TOTAL DESIGN LATERAL FORCE(S) SPECIFIC TO THE PROJECT PER OSHPD REQUIREMENTS OF THE CBC AND ASCE 7-16 SECTION 13.5.6.
- TYPICAL PRE-APPROVED SYSTEMS INCLUDE THE FOLLOWING:
- OPM-0043-13 MASON INDUSTRIES, INC. SEISMIC RESTRAINT GUIDELINES FOR SUSPENDED
- REFERENCE: 2019 CAC SECTIONS 7-115, 7-126, AND CBC 2019 SECTION 107.
- APPROVAL SHALL BE SUBMITTED TO THE REGISTERED DESIGN PROFESSIONAL (RDP) IN RESPONSIBLE CHARGE OF THE PROJECT FOR REVIEW TO VERIFY THAT THE DETAILS ARE IN CONFORMANCE WITH ALL CODE REQUIREMENTS. THE LAYOUT DRAWINGS SHALL AS A MINIMUM SATISFY THE REQUIREMENTS OF ASCE SECTION 13.6 AS MODIFIED BY THE CBC 2019 SECTION
- $\stackrel{ op}{}$ a. $\;\;$ THE STRUCTURAL ENGINEER OF RECORD (SEOR) SHALL VERIFY THAT THE SUPPORTING STRUCTURE IS ADEQUATE FOR THE LOADS IMPOSED ON IT BY THE SUPPORTS AND BRACES INSTALLED IN ACCORDANCE WITH THE PRE- APPROVAL IN ADDITION TO ALL OTHER LOADS. THE SEOR SHALL FORWARD THE ANCHORAGE AND BRACING DRAWINGS (INCLUDING APPROVED CHANGE ORDERS FOR SUPPLEMENTARY FRAMING WHERE REQUIRED) TO TH DISCIPLINE IN RESPONSIBLE CHARGE WITH A NOTATION INDICATING THAT THE DRAWINGS HAVE BEEN REVIEWED AND ARE IN GENERAL CONFORMANCE WITH THE PRE-APPROVAL AND THE DESIGN OF THE PROJECT.
- A "SHOP DRAWING STAMP" MAY BE USED TO INDICATE COMPLIANCE WITH THIS REQUIREMENT
- THE REGISTERED DESIGN PROFESSIONAL (OTHER THAN SEOR) MAY PROVIDE A SHOP DRAWING STAMP FOR SMALL PROJECTS AT THE DISCRETION OF THE DISTRICT STRUCTURAL ENGINEER
- THE SEOR SHALL DESIGN ANY SUPPLEMENTARY FRAMING THAT IS NEEDED TO RESIST LOADS, MAINTAIN STABILITY AND/OR IS REQUIRED FOR INSTALLATION OF THE PRE-APPROVED SYSTEM a. THE SUPPLEMENTARY FRAMING SHALL BE SUBMITTED TO OSHPD AS A CHANGE ORDER. C. THE LAYOUT DRAWINGS (WITH THE SHOP DRAWING STAMP) SHALL BE SUBMITTED TO OSHPD TO
- STRUCTURE SUPPORTING THE DISTRIBUTION SYSTEM HAS ADEQUATE CAPACITY.
- SEISMIC DESIGN FORCES (FP) ARE IN ACCORDANCE WITH CBC, AND CERTIFY SUBMITTAL IS WITHIN THE SCOPE OF OSHPD PRE-APPROVAL OF MANUFACTURER'S CERTIFICATION (OPM): ·SIZE OF DISTRIBUTION SYSTEM COMPONENTS ·SPACING OF BRACING AND FLEX JOINTS, AND
- ·SUBSTRATE FOR ATTACHMENTS THE LAYOUT DRAWINGS (W/ SHOP DRAWINGS STAMP) SHALL BE KEPT ON THE JOBSITE & CAN THEN BE USED FOR INSTALLATION OF THE SUPPORT & BRACING a. OSHPD FIELD STAFF WILL REVIEW THE INSTALLATION
- A COPY OF THE CHOSEN BRACING SYSTEM(S) INSTALLATION GUIDE/OPM MANUAL SHALL BE ON THE JOBSITE PRIOR TO STARTING THE INSTALLATION OF HANGERS AND/OR BRACES. a. IT IS THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN COPIES OF OPM AND FURNISH THE IOR WITH ONE COPY OF EACH COMPONENTS OF TWO OR MORE PRE-APPROVED BRACING SYSTEMS SHALL NOT BE MIXED.
- ONLY ONE PRE-APPROVED BRACING SYSTEM MAY BE USED FOR A RUN OF PIPE, DUCT, OR ANY SUBSTITUTION OF COMPONENT OF A PRE-APPROVED BRACING SYSTEM SHALI REQUIRE OSHPD REVIEW AND APPROVAL
- REFERENCE: CAC SECTIONS 7-115, 7-126, 7-153, AND CBC 2019 SECTION 107.

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NOTE:

GC TO SUBMIT COORDINATION DRAWING BETWEEN STRUCTURAL FRAMING, MECHANICAL, ELECTRICAL PLUMBING, FIRE PROTECTION, FIRE ALARM SHIELDING, AND GE BEFORE SHOP DRAWING APPROVALS.

GC TO CLARIFY IN BID DOCUMENTS HOW COORDINATION DRAWINGS WILL BE PRODUCED.

REQUIREMENTS FOR ACCESSIBILITY

- IN ADDITION TO ALL LOCAL REQUIREMENTS AND THE AMERICANS WITH DISABILITIES ACT (ADA), ACCESSIBLE FEATURES SHALL COMPLY WITH THE STATE OF CALIFORNIA ADMINISTRATIVE CODE OF REGULATIONS, BUILDING CODE, TITLE 24, PART 2.
- DURING ALL HOURS THE BUILDING IS OPEN TO THE PUBLIC, ALL PRIMARY ENTRANCES TO THE BUILDING, THE PRIMARY PATH OF TRAVEL FROM THE ENTRANCES TO ALL PORTIONS OF THE BUILDING INCLUDING SANITARY FACILITIES. DRINKING FOUNTAINS AND PUBLIC TELEPHONES SERVING THE BUILDING MUST BE ACCESSIBLE TO THE DISABLED.
- ALL BUILDING ENTRANCES SHALL BE IDENTIFIED WITH AT LEAST ONE STANDARD SIGN AND WITH ADDITIONAL DIRECTIONAL SIGNS, AS REQUIRED, TO BE VISIBLE TO PERSONS ALONG APPROACHING PEDESTRIAN WAYS.
- HAND-ACTIVATED DOOR OPENING HARDWARE SHALL BE CENTERED BETWEEN 34 INCHES AND 44 INCHES ABOVE THE FLOOR. LATCHING AND LOCKING DOORS THAT ARE HAND-ACTIVATED AND WHICH ARE IN A PATH OF TRAVEL SHALL BE OPERABLE WITH A SINGLE EFFORT BY LEVER-TYPE HARDWARE, PANIC BARS PUSH-PULL ACTIVATING BARS OR OTHER HARDWARE DESIGNED TO PROVIDE PASSAGE WITHOUT REQUIRING THE ABILITY TO GRASP THE OPENING HARDWARE. LOCKED EXIT DOORS SHALL OPERATE AS ABOVE IN EGRESS DIRECTION. (CBC SECTION 11B-404.2.7)
- MAXIMUM EFFORT TO OPERATE DOORS SHALL NOT EXCEED 5 POUNDS FOR EXTERIOR DOORS AND 5 POUNDS FOR INTERIOR DOORS, SUCH PULL OR PUSH EFFORT BEING APPLIED AT RIGHT ANGLES TO HINGED DOORS AND AT THE CENTER PLANE OF SLIDING OR FOLDING DOORS. COMPENSATING DEVICES OR AUTOMATIC DOOR OPERATORS MAY BE UTILIZED TO MEET THE ABOVE STANDARDS. WHEN FIRE DOORS ARE REQUIRED. THE MAXIMUM EFFORT TO OPERATE THE DOOR MAY BE INCREASED TO THE MINIMUM ALLOWABLE BY THE APPROPRIATE ADMINISTRATIVE AUTHORITY, NOT TO EXCEED 15 POUNDS. (CBC SECTION 11B-404.2.9)
- THE BOTTOM 10 INCHES OF ALL DOORS EXCEPT AUTOMATIC AND SLIDING SHALL HAVE A SMOOTH, UNINTERRUPTED SURFACE TO ALLOW THE DOOR TO BE OPENED BY A WHEELCHAIR FOOTREST WITHOUT CREATING A TRAP OR HAZARDOUS CONDITION. WHERE NARROW FRAME DOORS ARE USED, A 10-INCH HIGH SMOOTH PANEL SHALL BE INSTALLED ON THE PUSH SIDE OF THE DOOR, WHICH WILL ALLOW THE DOOR TO BE OPENED BY A WHEELCHAIR FOOTREST WITHOUT CREATING A TRAP OR HAZARDOUS CONDITION. (CBC SECTION 11B-404.2.10)
- FOR HINGED DOORS, THE OPENING WIDTH SHALL BE MEASURED WITH THE DOOR POSITIONED AT AN ANGLE OF 90 DEGREES FROM ITS CLOSED POSITION. AT LEAST ONE OF A PAIR OF DOORS SHALL MEET THIS OPENING WIDTH REQUIREMENT. (CBC SECTION 11B-404.2.2 & 11B-404.2.3)
- MANUALLY OPERATED EDGE OR SURFACE MOUNTED FLUSH BOLTS ARE NOT ALLOWED. WHEN EXIT DOORS ARE USED IN PAIRS AND APPROVED FLUSH BOLTS ARE USED, THE DOOR LEAF HAVING THE AUTOMATIC FLUSH BOLTS SHALL HAVE NO DOOR KNOB OR SURFACE-MOUNTED HARDWARE. THE UNLATCHING OF ANY LEAF SHALL NOT REQUIRE MORE THAN ONE OPERATION.
- THERE SHALL BE A LEVEL AND CLEAR FLOOR OR LANDING ON EACH SIDE OF A DOOR. THE LEVEL AREA SHALL HAVE A LENGTH IN THE DIRECTION OF DOOR SWING OF A LEAST 60 INCHES AND THE LENGTH OPPOSITE THE DIRECTION OF THE DOOR SWING OF 48 INCHES AS MEASURED AT RIGHT ANGLES TO THE PLANE OF THE DOOR IN ITS CLOSED POSITION.
- 10. THE WIDTH OF THE LEVEL AREA ON THE SIDE TO WHICH THE DOOR SWINGS SHALL EXTEND 24 INCHES PAST THE STRIKE EDGE OF THE DOOR FOR EXTERIOR DOORS AND 18 INCHES PAST THE STRIKE EDGE FOR INTERIOR DOORS. THE WIDTH OF THE AREA ON THE SIDE OPPOSITE THE SWING SHALL EXTEND 12 INCHES PAST THE STRIKE EDGE OF THE DOOR WHEN THE DOOR IS EQUIPPED WITH BOTH A CLOSER AND A LATCHSET.
- ABRUPT CHANGES IN LEVEL ALONG ANY ACCESSIBLE ROUTE SHALL NOT EXCEED 1/2 INCH. WHEN CHANGES IN LEVEL DO OCCUR, THEY SHALL BE BEVELED WITH A SLOPE NO GREATER THAN 1:2 EXCEPT THAT LEVEL CHANGES NOT EXCEEDING 1/4 INCH MAY BE VERTICAL. WHEN CHANGES IN LEVELS GREATER THAN 1/2 INCH ARE NECESSARY THEY SHALL COMPLY WITH THE REQUIREMENTS FOR RAMPS. MINIMUM WIDTH SHALL BE 48".
- 12. MOUNTING HEIGHTS: THE MAXIMUM HEIGHT FOR HIGH REACH SHALL BE 48 INCHES AND THE MINIMUM LOW REACH SHALL BE 15 INCHES ABOVE FINISHED
- 13. DOORS LEADING TO MEN'S SANITARY FACILITIES SHALL BE IDENTIFIED BY AN EQUILATERAL TRIANGLE 1/4" THICK, WITH EDGES 12" LONG AND A VERTEX POINTING UPWARD. WOMEN'S SANITARY FACILITIES SHALL BE IDENTIFIED BY A CIRCLE 1/4" THICK AND 12" IN DIAMETER.
- ALL-GENDER SANITARY FACILITIES SHALL BE IDENTIFIED BY A CIRCLE 1/4" THICK, 12" DIA., WITH A 1/4" THICK TRIANGLE SUPERIMPOSED ON THE CIRCLE AND WITHIN THE 12" DIAMETER.
- 15. GEOMETRIC (CIRCLE AND TRIANGLE) SYMBOLS SHALL BE CENTERED ON THE DOOR AT A HEIGHT OF 60" ABOVE FINISHED FLOOR AND THEIR COLOR AND CONTRAST SHALL BE DISTINCTLY DIFFERENT FROM THE COLOR AND CONTRAST OF THE DOOR.
- ADDITIONAL SIGNAGE REQUIREMENTS: RAISED LETTERS SHALL BE PROVIDED AND SHALL BE ACCOMPANIED BY BRAILLE IN CONFORMANCE WITH SECTION 11B-703. THEY SHALL BE INSTALLED ON THE WALL ADJACENT TO THE LATCH OUTSIDE OF THE DOOR. WHERE THERE IS NO WALL SPACE ON THE LATCH SIDE, INCLUDING DOUBLE LEAF DOORS, SIGNS SHALL BE PLACED ON THE NEAREST ADJACENT WALL AND SIGNS SHALL BE MOUNTED 48" MINIMUM ABOVE FINISH FLOOR, MEASURED FROM THE BASELINE OF THE LOWEST LINE OF BRAILLE AND 60" MAXIMUM ABOVE THE FINISH FLOOR, MEASURED FROM THE BASELINE OF THE HIGHEST LINE OF RAISED CHARACTERS. CBC 11B-703.4.1

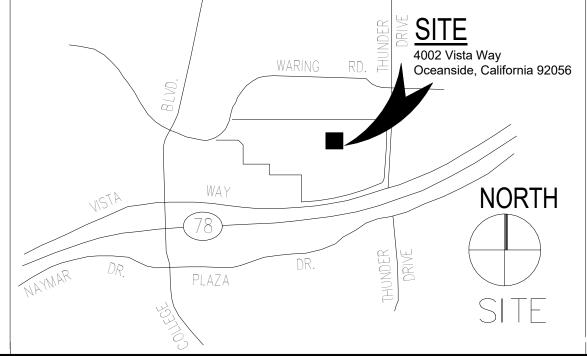
OSHPD INTENT STATEMENT

THE INTENT OF THE CONSTRUCTION DOCUMENTS IS TO RECONSTRUCT THE HOSPITAL BUILDING IN ACCORDANCE WITH THE 2019 CBSC. SHOULD ANY CONDITION DEVELOP NOT COVERED BY THE APPROVED CONSTRUCTION DOCUMENTS. WHEREIN THE FINISHED WORK WILL NOT COMPLY WITH THE 2019 CBSC, AMENDED CONSTRUCTION DOCUMENTS (ACDS) DETAILING AND SPECIFYING THE REQUIRED WORK SHALL BE SUBMITTED TO AND APPROVED BY OSHPD BEFORE PROCEEDING WITH THE WORK.

OSHPD APPROVAL:

S200813-37-00 **APPLICATION NUMBER:**

VICINITY MAP



GENERAL NOTES

- 1. THE GENERAL CONTRACTOR IS RESPONSIBLE FOR CHECKING CONTRACT DOCUMENTS, FIELD CONDITIONS AND DIMENSIONS FOR ACCURACY, AND CONFIRMING THAT WORK IS BUILDABLE AS SHOWN BEFORE PROCEEDING WITH CONSTRUCTION. IF THERE ARE ANY QUESTIONS REGARDING THESE OR OTHER COORDINATION ISSUES, THE GENERAL CONTRACTOR IS RESPONSIBLE FOR OBTAINING A CLARIFICATION FROM THE OWNERS' REPRESENTATIVE BEFORE PROCEEDING WITH WORK IN QUESTION OR RELATED WORK.
- THE GENERAL CONTRACTOR SHALL INFORM THE OWNERS' REPRESENTATIVE PRIOR TO CONSTRUCTION, OF ANY CONFLICTS THAT EXIST IN ANY AND ALL MECHANICAL, TELEPHONE, ELECTRICAL, LIGHTING, PLUMBING AND SPRINKLER 1 A1-04 EQUIPMENT LOCATIONS INCLUDING ALL PIPING, DUCTWORK AND CONDUIT, AND INSURE THAT ALL REQUIRED CLEARANCES FOR INSTALLATION AND MAINTENANCE ARE PROVIDED.
- THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ALL WORK AND MATERIALS IN ACCORDANCE WITH ALL CODES AND REQUIREMENTS OF
- STATE AND LOCAL REGULATORY AGENCIES. ALL WORK NOT SPECIFICALLY COVERED IN THE CONTRACT DOCUMENTS SHALL BE FURNISHED AND INSTALLED IN ACCORDANCE WITH CONSTRUCTION INDUSTRY
- DRAWINGS, THOUGH NOTED TO SCALE, ARE DIAGRAMMATICAL. DO NOT SCALE DRAWINGS.
- ALL HEIGHTS ARE DIMENSIONED FROM TOP OF SLAB UNLESS OTHERWISE

STANDARDS.

- THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR DOCUMENTING ALL CHANGES TO THE CONSTRUCTION DOCUMENTS, NO MATTER HOW MINOR, FOR ASBUILT RECORD DOCUMENTS. THESE DOCUMENTS ARE TO BE GIVEN TO THE OWNERS' REPRESENTATIVE WITHIN 2 WEEKS AFTER FINAL COMPLETION.
- THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING ALL UTILITIES INDICATED ON THE INTERIOR ELEVATIONS WITH THE ELECTRICAL AND PLUMBING SUBCONTRACTORS.
- IN THE CASE OF CONFLICTS OR AMBIGUITIES NOT CLARIFIED PRIOR TO THE BIDDING DEADLINE, USE THE MOST COSTLY ALTERNATIVE (BETTER QUALITY, GREATER QUANTITY AND LARGER SIZE) IN PREPARING THE BID. A CLARIFICATION WILL BE ISSUED TO THE SUCCESSFUL BIDDER AS SOON AS FEASIBLE AFTER THE AWARD AND, IF APPROPRIATE, A DEDUCTIVE CHANGE ORDER WILL BE ISSUED.
- 10. ALL PENETRATIONS THROUGH FIRE RESISTIVE PARTITION AND SLAB, INCLUDING, BUT NOT LIMITED TO, CONDUITS AND PIPING, EXISTING OR NEW, SHOWN IN THE CONSTRUCTION DOCUMENTS SHALL BE CONSTRUCTED TO MEET APPROVED U.L.
- ALL PENETRATIONS INTO SOUND RATED PARTITIONS, INSULATED PARTITIONS OR CEILING ASSEMBLIES SHALL BE SEALED WITH APPROVED PERMANENT RESILIENT SEALANT. OR OTHERWISE TREATED TO MAINTAIN INTEGRITY OF THE ACOUSTICAL ASSEMBLY.
- CORROSION BY INSULATING METALS AND OTHER MATERIALS FROM DIRECT CONTACT WITH INCOMPATIBLE MATERIALS. THE GENERAL CONTRACTOR SHALL SEPARATE DISSIMILAR METALS WITH BUILDING PAPER OR PLASTIC SHIM. 13. THE CONTRACTOR SHALL PERFORM ALL CUTTING, PATCHING, AND FINISHING

12. CONTRACTOR TO PREVENT GALVANIC ACTION AND OTHER FORMS OF

EXISTING PORTIONS OF THE BUILDING AFFECTED BY HIS WORK. TO THE SATISFACTION OF THE OWNER'S REPRESENTATIVE 14. WHEN INSTALLING DRILLED-IN ANCHORS AND OR POWDER DRIVEN PINS IN EXISTING NON-PRESTRESSED REINFORCED CONCRETE, USE CARE AND CAUTION | S1-1 TO AVOID CUTTING OR DAMAGING THE EXISTING REINFORCING STEEL. MAINTAIN S1-2

A MINIMUM CLEARANCE OF ONE INCH BETWEEN THE REINFORCEMENT STEEL

NECESSARY TO RESTORE THE ORIGINAL CONDITION OF THE BUILDING TO ALL

- AND THE DRILLEDIN ANCHOR AND OR PIN. 15. THE CONTRACTOR SHALL COORDINATE ALL PHASING, ACCESS, DEBRIS, STAGING AREAS, AND HOURS OF CONSTRUCTION WITH OWNERS PRIOR TO START OF
- 16. CONTRACTOR TO PROVIDE REQUIRED DUST AND INFECTION CONTROL PROTECTION SYSTEM ABOVE AND BELOW CEILING TO ISOLATE THE CONSTRUCTION AREA WITH NEGATIVE PRESSURE. MEANS AND METHODS TO BE COORDINATED WITH OWNER.
- 17. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE SECURITY OF THE AREA OF THE PROJECT WORK AND SHALL ALSO BE RESPONSIBLE FOR THE DISCIPLINE OF ALL CONSTRUCTION WORKERS ON THE PROJECT.
- 18. THE GENERAL CONTRACTOR SHALL COORDINATE WITH STRUCTURAL, MEP, FIRE | M1-01 ALARM, FIRE PROTECTION, NURSE CALL, INTERIORS AND EQUIPMENT DRAWINGS PRIOR TO STARTING CONSTRUCTION. THE PROJECT MANUAL AND ALL DRAWINGS | M1-02 IN THE CONSTRUCTION DRAWINGS SHALL BE PART OF THE CONSTRUCTION
- 19. THE GENERAL CONTRACTOR SHALL X-RAY AND/OR ULTRASOUND THE EXISTING CONCRETE FLOORS, WALLS AND STRUCTURAL SLAB ABOVE ANY POSSIBLE EMBEDDED CONDUITS, STRUCTURAL REBAR UNFORESEEN CONDITION THAT IS OUTSIDE THE SCOPE OF WORK AND MIGHT IMPEDE THE ANCHORING OF EQUIPMENT OR CONFLICT WITH TRENCHING PRIOR TO CONSTRUCTION.
- 20. CONTRACTOR STAGING TO BE IN THE ROOMS UNDER REMODEL.
- 21. CONTRACTOR PARKING TO BE IN CONTRACTOR DESIGNATED PARKING AREA.
- 22. THE CONTRACTOR SHALL ENSURE THAT THE AREA UNDER REMODEL IS LOCKED AND OTHERWISE SECURED AFTER HOURS.
- REQUIRED AS SPECIFIED IN THE FIRE ALARM DRAWINGS.
- 2000 CONCRETE SEALER OR APPROVED EQUAL ON SLAB ON GRADE.
- PENETRATION REQUIREMENTS.

CONSTRUCTION.

PROJECT INFORMATION:

DEMOLITION OF EXISTING WALLS, DOORS, FLOORS, ELECTRICAL, AND HVAC INSTALLATION OF NEW MRI IN SHIELDED MRI ROOM WITH ASSOCIATED EQUIPMENT AND CONTROL STATION. CREATION OF OFFICE, OUTPATIENT WAITING AREA, DRESSING ROOM, TRANSFER AREA, AND MRI HOLDING AREA. ADA UPGRADE OF PUBLIC RESTROOMS. NEW CHILLER, SPLIT SYSTEMS, EXHAUST, AND QUENCH VENT ON ROOF.

AREA OF REMODEL **BUILDING DESCRIPTION:** OSHPD FACILITY # 12372 BLD-02871 - PERINATAL UNIT / WOMENS CENTER - BLDG 15A NUMBER OF STORIES: 2 STORIES BUILDING TYPE - STEEL MOMENT RESISTING FRAME BUILDING CONSTRUCTION TYPE: I-A, SPRINKLERD

OCCUPANCY TYPE: I-2 CONSTRUCTION CLASSIFICATION 3-HR STRUCTURAL FRAME 2-HR FLOOR-CEILING/ROOF 2-HR ROOF

INDEX OF DRAWINGS:

1/4" PARTIAL DEMO RCP

1/4" PARTIAL DEMO RCP

1/4" INTERIOR ELEVATIONS

1/4" INTERIOR ELEVATIONS

1/4" INTERIOR ELEVATIONS

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FIRE RATED ASSEMBLIES

TYPICAL RATED PARTITION

1/4" PARTIAL RCP

1/4" PARTIAL RCP

SECTIONS

SECTIONS

ASSEMBLIES

PLAN DETAILS

SCHEDULE

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FINISH DETAILS

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DETAILS

DETAILS

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1/4" PARTIAL FLOOR PLAN

1/4" PARTIAL FLOOR PLAN

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TYPICAL STEEL STUD DETAILS

TYPICAL STEEL & METAL DECK

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E0-01

E0-00 ELECTRICAL COVER SHEET SINGLE-LINE DIAGRAMS, NOTES 8 LOAD CALCS LIGHTING FIXTURE SCHEDULE, NOTES & WIRING DIAGRAMS E0-03 PANEL SCHEDULES & SINGLE LINE SIDE YARD & STAFF ENTRY DEMO E1-10 SIDE YARD & STAFF ENTRY PLAN 1/4" PARTIAL DEMO PLAN

E4-00 E4-01 1/4" PARTIAL DEMO PLAN E4-10 1/4" PARTIAL FLOOR PLAN E4-11 1/4" PARTIAL FLOOR PLAN E4-12 1/4" PARTIAL FLOOR PLAN MECHANICAL

1/4" UPPER ROOF DEMO PLAN 1/4" LOWER ROOF DEMO PLAN 1/4" UPPER ROOF PLAN 1/4" PARTIAL FLOOR PLAN MECHANICAL 1/4" LOWER ROOF PLAN 1/4" PARTIAL DEMO RCP **ROOF DETAILS PLAN & SECTION** E4-20 1/4" PARTIAL DEMO RCP E4-21 1/4" PARTIAL RCP E4-30 PLAN AND SECTION DETAILS 1/4" PARTIAL RCP GYP. BOARD CEILING DETAILS E4-31 E4-32 1/8" OVERALL LIGHTING LAY-IN CEILING DETAILS

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ABBREVIATIONS

ARFA A

MECHANICAL ISOMETRIC VIEW

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M1-09

M3-06

M6-02

P1-02

23. THE GENERAL CONTRACTOR IS RESPONSIBLE TO CUT & PATCH TO MATCH ALL EXISTING PARTITIONS WHERE NEW FIRE ALARM AND ELECTRICAL DEVICES ARE

24. CONTRACTOR TO INCLUDE AN ALLOWANCE TO FURNISH AND APPLY CRETESEAL

25. SEE GENERAL NOTES ON SHEET A5-00 and A5-10 FOR ADDITIONAL RATED

DEFERRED APPROVAL:

↑ MEP PIPE, DUCT, AND CONDUIT SUPPORTS & ATTACHMENTS

SCOPE OF WORK:

2-HR SHAFT ENCLOSURE

BUILDING CONSTRUCTION YEAR: 1960 BUILDING ADDITION YEAR: 1995

SEISMIC: RISK CATEGORY VI, CLASS D-STIFF SOIL 1

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<u>FOR REFERENCE ONLY, FOUND</u> IN SPECIFICATION MANUAL:

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CALIFORNIA ADMINISTRATIVE CODE (CAC) (PART 1, TITLE 24, CCR) CALIFORNIA BUILDING CODE (CBC) (PART 2, TITLE 24, CCR)

CALIFORNIA ELECTRICAL CODE (CEC) (PART 3, TITLE 24, CCR) CALIFORNIA MECHANICAL CODE (CMC) (PART 4, TITLE 24, CCR) CALIFORNIA PLUMBING CODE (CPC) (PART 5, TITLE 24, CCR)

2019 CALIFORNIA FIRE CODE (CFC) (PART 9, TITLE 24, CCR)

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SAN DIEGO, CALIFORNIA 92122 TEL(619)299-3917 STRUCTURAL: MIYAMOTO INTERNATIONAL, INC. 5550 BALTIMORE DRIVE, SUITE 100 /6 LA MESA, CA 91942 TEL(858)457-3001 MECHANICAL SC ENGINEERS. INC.

17075 VIA DEL CAMPO

1982 PALSERO AVENUE

ESCONDIDO, CA 92029

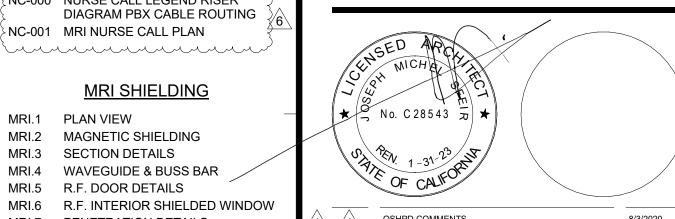
TEL(760)484-0455

SAN DIEGO, CALIFRONIA 92127

TEL(858)946-0333 ELECTRICAL: AG DESIGN, INC. 171 S. ANITA DR. SUITE 111 ORANGE, CALIFRONIA 92868 TEL(714)769-9900 EXT. 201

&PLUMBING:

SHIELDING: MRI SHIELDING CORPORATION 3554 BUISNESS PARK DR., SUITE B COSTA MESA, CA 92626 TEL(714)545-7700 INTERIORS: **ISLEY DESIGN & PLANNING**



OSHPD COMMENTS 8/3/2020 8/10/2020 OSHPD COMMENTS 10/2/2020 11/24/2020 ACD 0001 DESIGN CHANGES

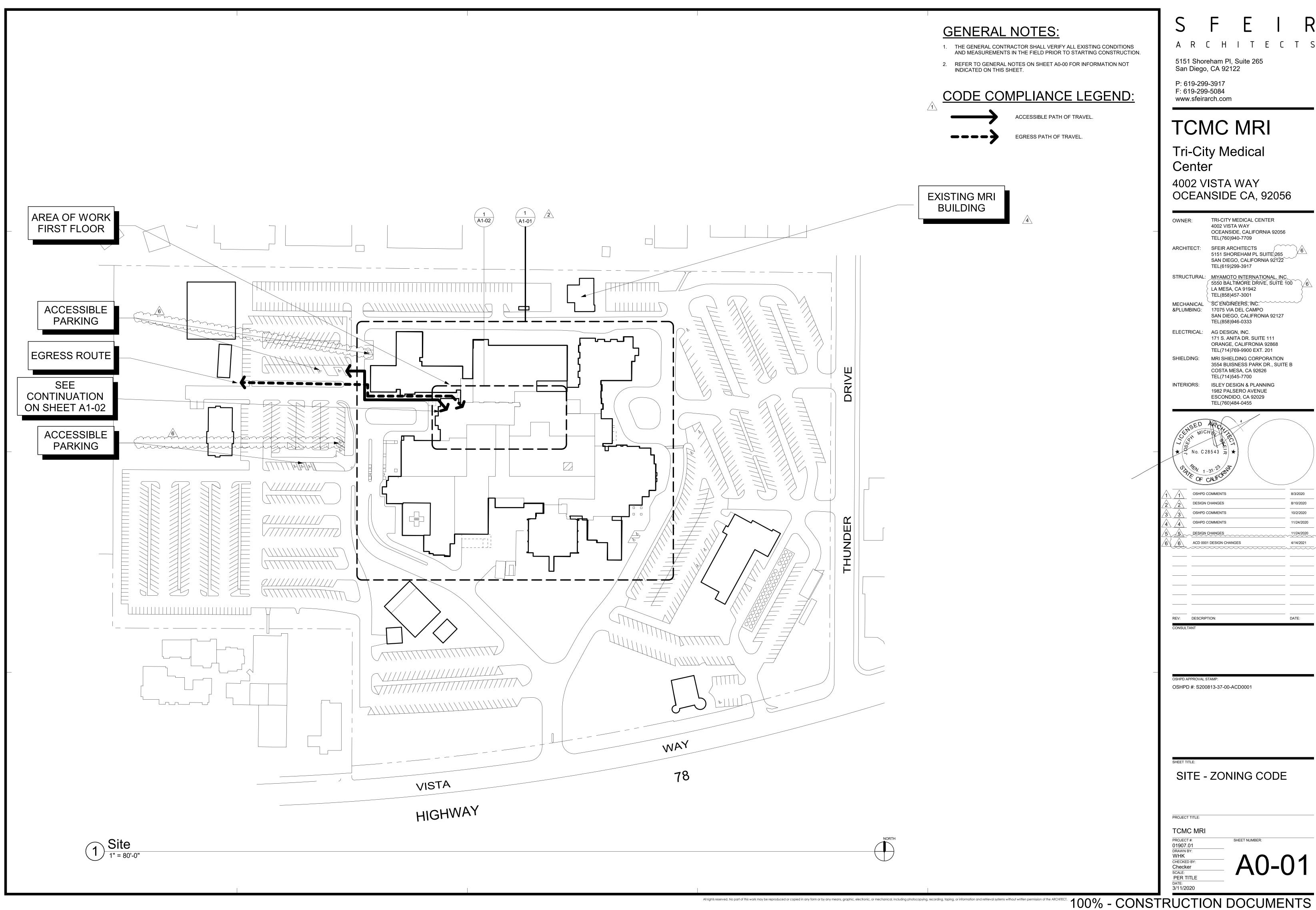
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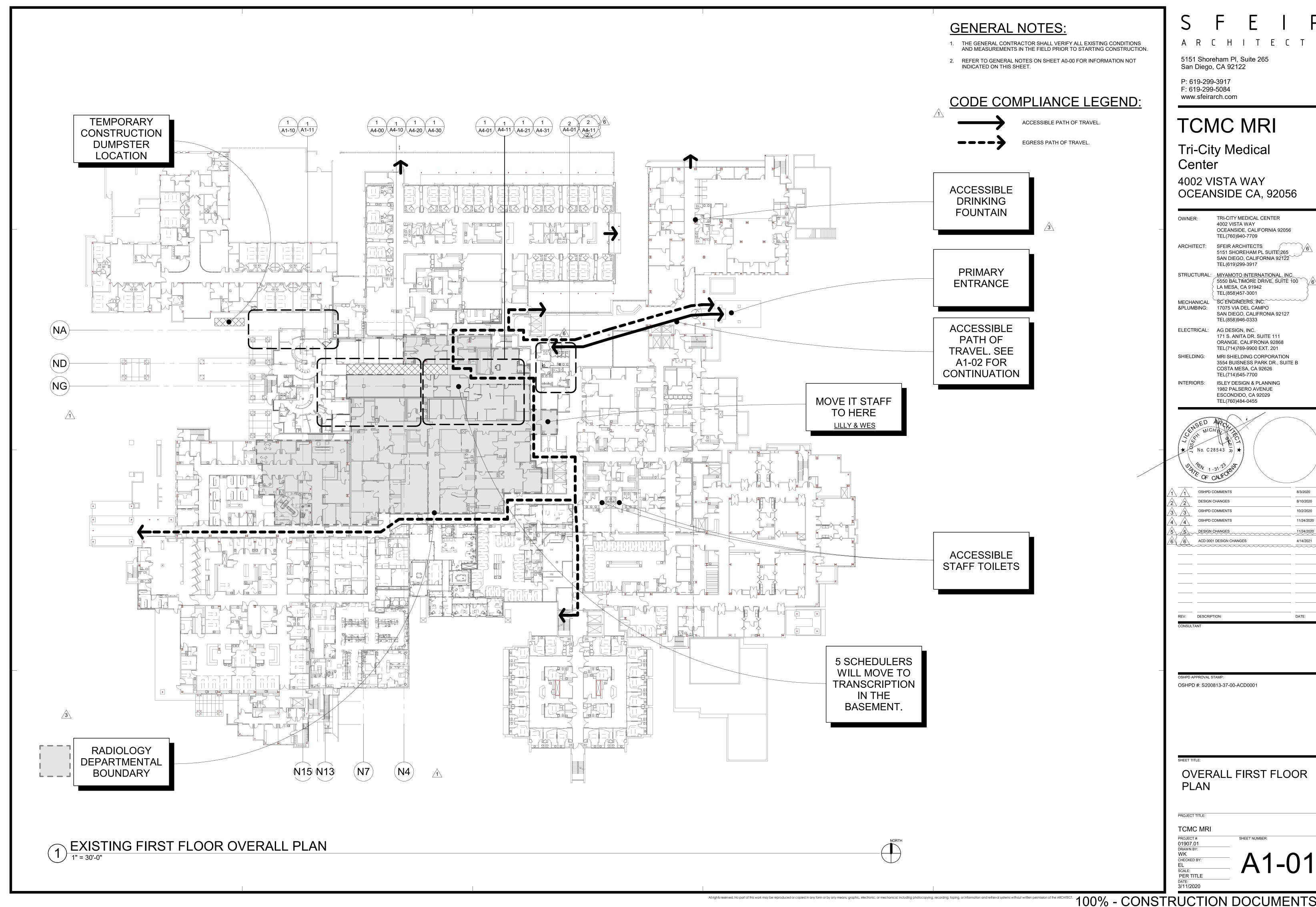
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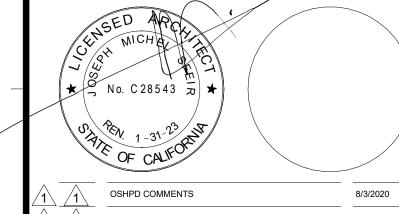
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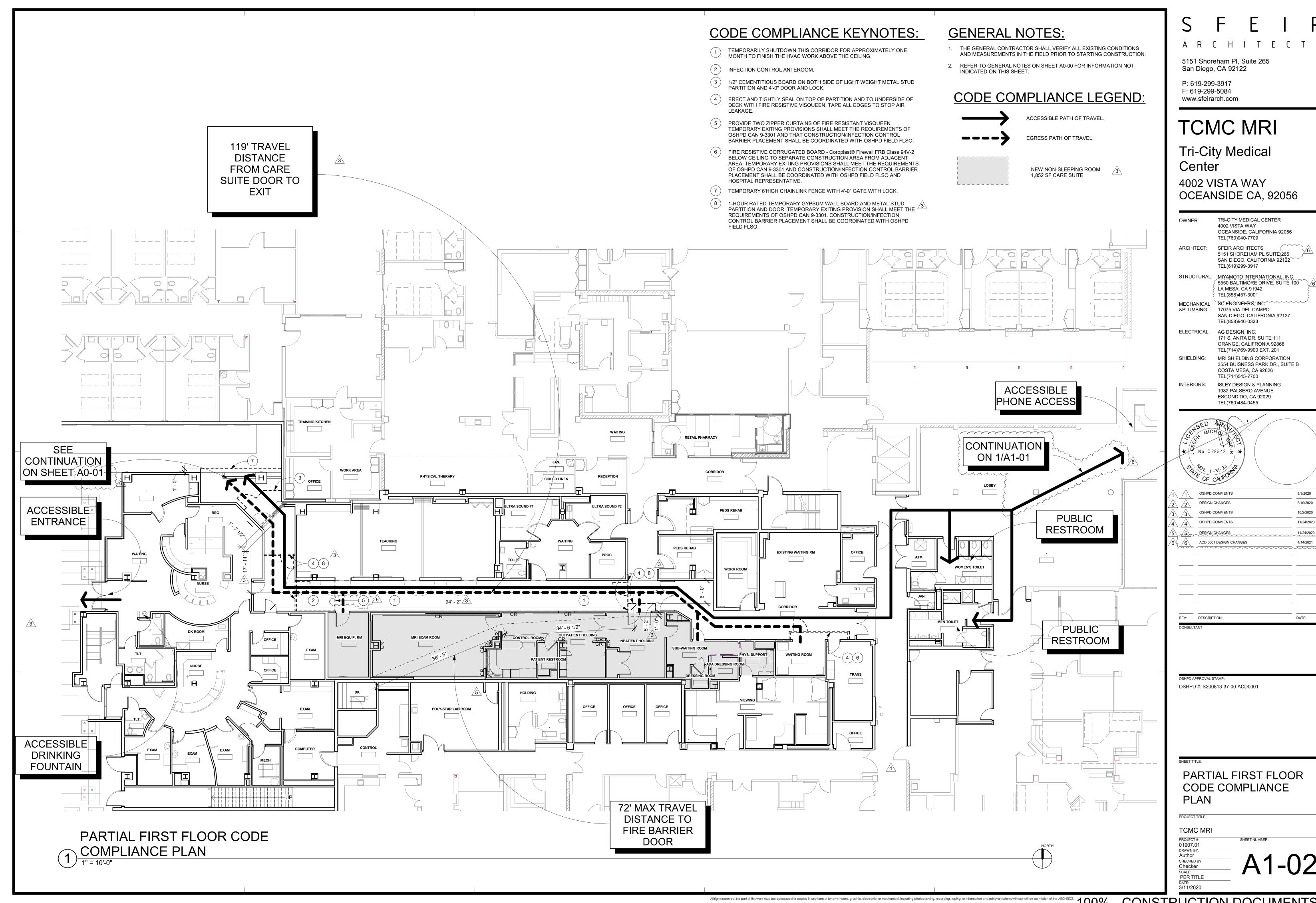
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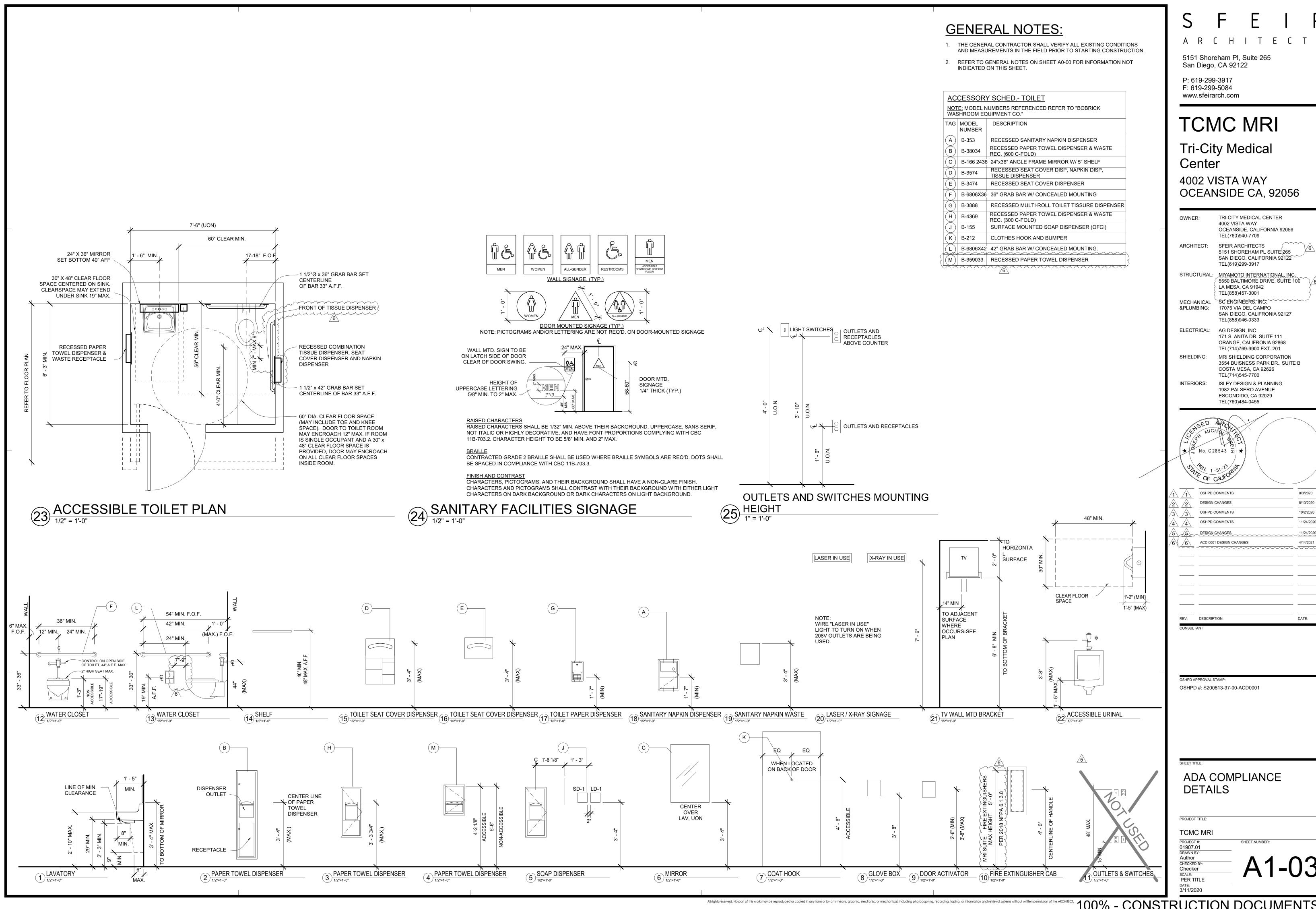
> CHECKED BY PER TITLE 3/11/2020





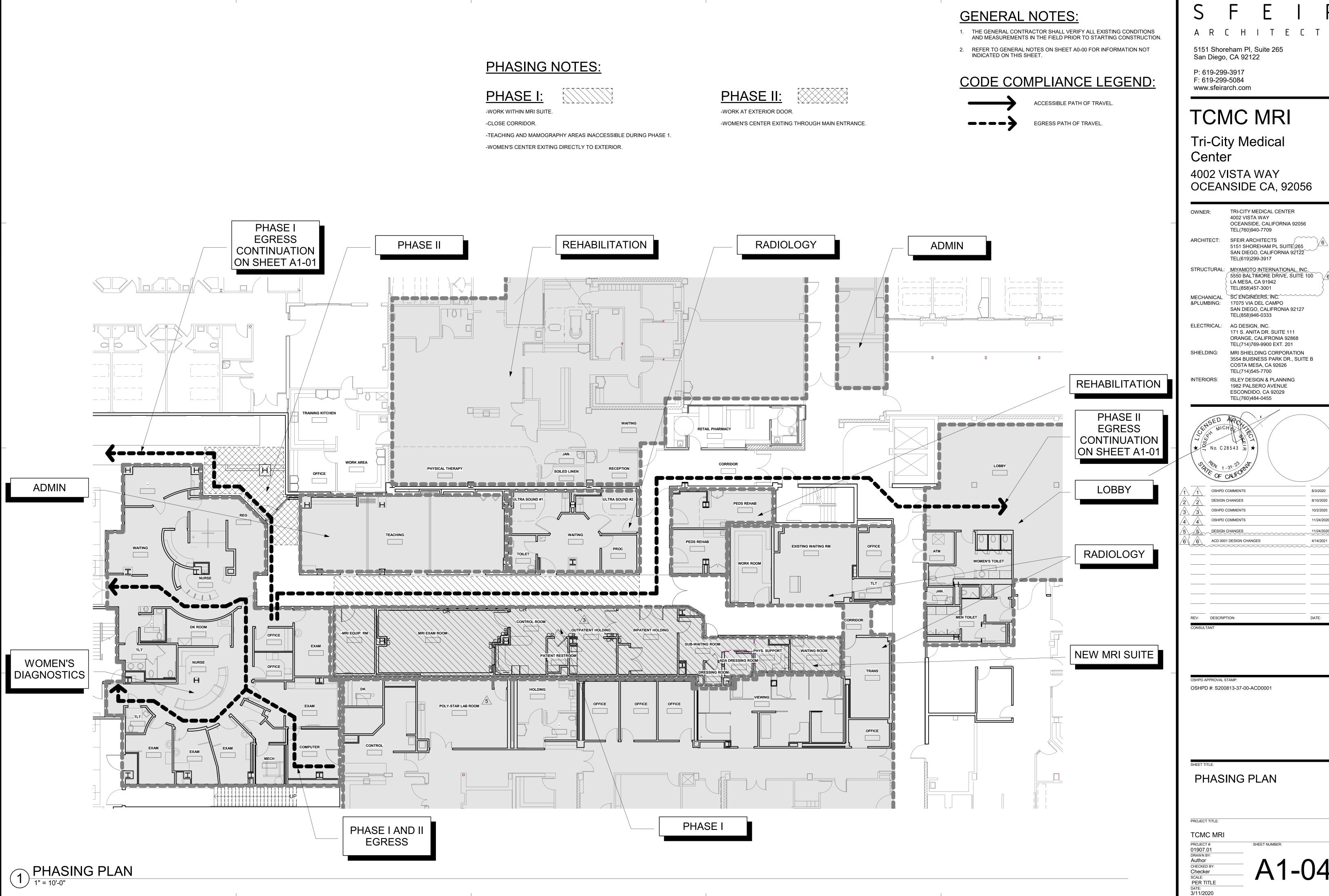








10/2/2020 11/24/2020



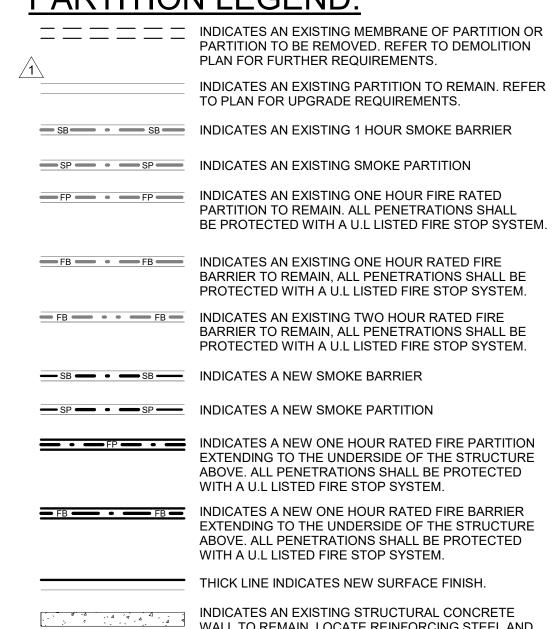
DEMOLITION KEYNOTES:

- PROTECT IN PLACE THE EXISTING SIDEWALK TO THE DOOR ENTRY. $\sqrt{3}$
- REMOVE ADA DOOR OPENER. SALVAGE TO BE REINSTALLED.
- REMOVE EXISTING DOOR, DOOR FRAME, & DOOR HARDWARE.
- DEMO CURB AND RAILING.
- REMOVE A PORTION OF THE FRAMING AROUND THE STRUCTURAL COLUMN KEEP STRUCTURAL COLUMN IN PLACE.
- REMOVE LIGHT BOLLARD. SALVAGE TO BE REINSTALLED.
- REMOVE THE EXISTING VEGETATION.
- REMOVE EXISTING HAND RAIL. SALVAGE TO BE REINSTALLED.
- PROTECT IN PLACE THE EXISTING PALM TREES.
- WIDTH OF THE MRI MACHINE DURING DELIVERY.
- (11) ETR. WALL PATH LIGHTING.
- REMOVE THE EXISTING ADA AUTOMATIC BUTTON. SALVAGE TO BE REINSTALLED.
- PROTECT IN PLACE EXISTING ARBOR AND VINE.
- PROTECT IN PLACE EXISTING SHRUBS.
- (15) EDGE OF SIDEWALK.
- (16) ETR. BUILDING EXPANSION JOINT.
- MRI DELIVERY PATHWAY. GC TO PROTECT EXISTING SIDE WALK WITH STEEL PLATE & REPAIR ANY DAMAGED PORTION OF SIDEWALKS, EXTERIOR WALLS, EXISTING LANDSCAPING & EXTERIOR LIGHTING.

GENERAL NOTES:

- THE GENERAL CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS AND MEASUREMENTS IN THE FIELD PRIOR TO STARTING CONSTRUCTION.
- 2. REFER TO GENERAL NOTES ON SHEET A0-00 FOR INFORMATION NOT INDICATED ON THIS SHEET.

PARTITION LEGEND:



PARTITION NOTES:

- 1. ALL DIMENSIONS SHOWN ARE TO FINISHED SURFACE OF FINISHES
- INSTALLED ON GYP. BOARD, TYPICAL U.O.N. REFER TO SHEET A5-10 FOR GENERAL NOTES AND REQUIREMENTS FOR PARTITIONS. EXISTING WALLS WERE CONSTRUCTED WITH MANY PERMITS AND/OR CONTRACTS, FIELD VERIFY CONSTRUCTION AND WIDTH PRIOR TO FABRICATION OF DOOR FRAMES OR COMPONENTS WHICH REQUIRE THE

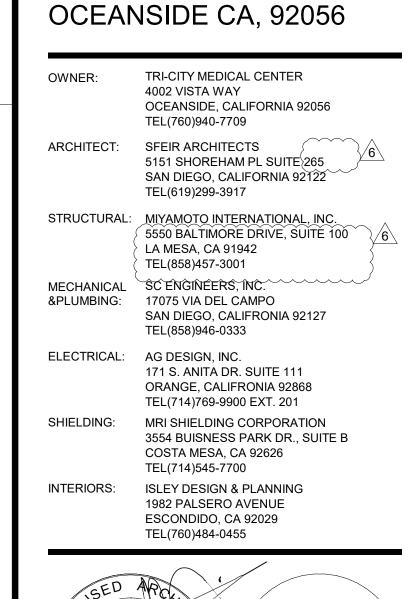
WALL TYPE REFERENCE REFER TO SHEET A5-10.

WALL TO REMAIN. LOCATE REINFORCING STEEL AND

OBTAIN APPROVAL FROM STRUCTURAL ENGINEER

PRIOR TO CORING AND/ OR CUTTING.

WIDTH OF WALL TO BE SET. 3. SEE SHEET A5-00 FOR FIRE PENETRATION DETAILS.



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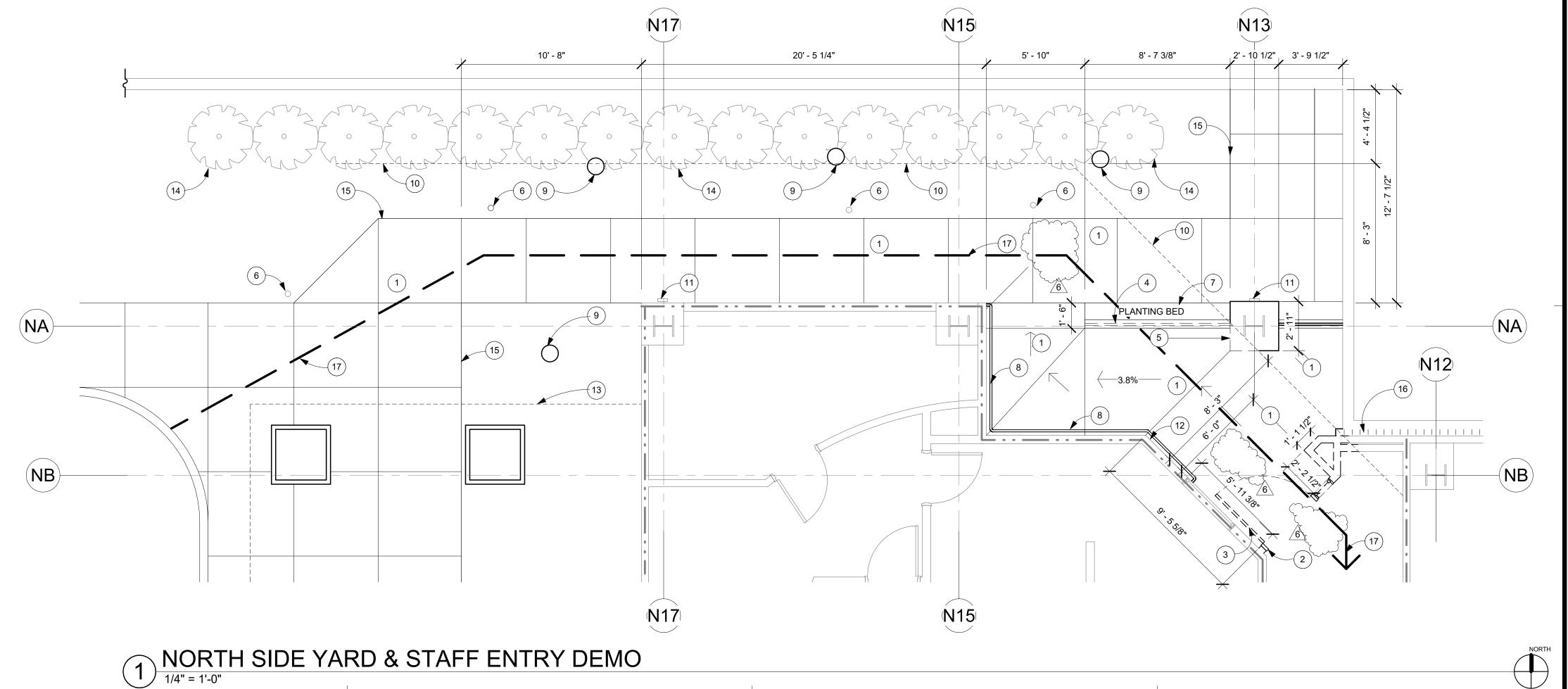
OSHPD #: S200813-37-00-ACD0001

No. C 28543 7

OF CALFOR

SIDE YARD & STAFF **ENTRY DEMO PLAN**

PROJECT TITLE: TCMC MRI PROJECT #: 01907.01 PER TITLE

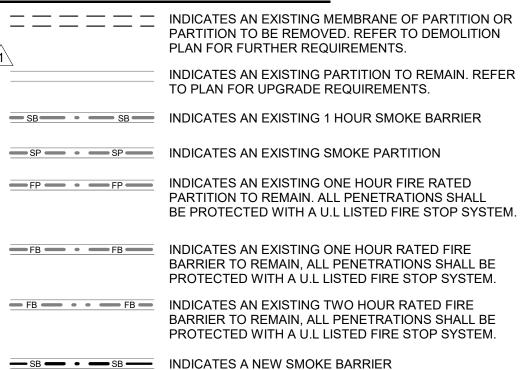


(1) REINSTALL EXISTING HAND RAIL. PRIME AND PAINT. 2 NEW GAURD RAIL AND CURB. PRIME AND PAINT TO MATCH. EXISTING COLOR. (3) REINSTALL EXISTING BOLLARD PATH LIGHTS. PRIME AND PAINT. 4 PLANT NEW SHRUBS. AND ADD NEW IRRIGATION SYSTEM IF THE EXISTING IS DAMAGED. TIE INTO THE EXISTING SYSTEM. (5) REPAIR THE COLUMN TO MATCH EXISITNG, STUCCO, PRIME, & PAINT. 6 NEW THRESHOLD. \wedge NOT USED. Y6 8 ETR. SHRUB. (9) ETR. CONCRETE SIDEWALK. (10) ETR. PALM TREE. (11) ETR. BUILDING EXPANISON JOINT. (12) ETR. TILE OVER CONCRETE SIDEWALK. FIELD VERIFY LESS THAN 8.3% SLOPE AND 2% CROSS SLOPE. (13) ETR. ARBOR. (14) NOT USED. William Willia

SIDE YARD KEYNOTES: **GENERAL NOTES:**

- 1. THE GENERAL CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS AND MEASUREMENTS IN THE FIELD PRIOR TO STARTING CONSTRUCTION.
- 2. REFER TO GENERAL NOTES ON SHEET A0-00 FOR INFORMATION NOT INDICATED ON THIS SHEET.

PARTITION LEGEND:



— SP — • — SP — INDICATES A NEW SMOKE PARTITION INDICATES A NEW ONE HOUR RATED FIRE PARTITION EXTENDING TO THE UNDERSIDE OF THE STRUCTURE

WITH A U.L LISTED FIRE STOP SYSTEM. FB FB FB INDICATES A NEW ONE HOUR RATED FIRE BARRIER EXTENDING TO THE UNDERSIDE OF THE STRUCTURE ABOVE. ALL PENETRATIONS SHALL BE PROTECTED WITH A U.L LISTED FIRE STOP SYSTEM.

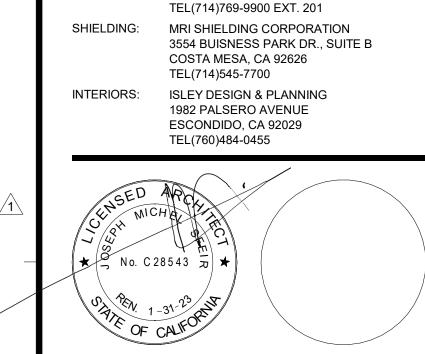
THICK LINE INDICATES NEW SURFACE FINISH. INDICATES AN EXISTING STRUCTURAL CONCRETE WALL TO REMAIN. LOCATE REINFORCING STEEL AND OBTAIN APPROVAL FROM STRUCTURAL ENGINEER

ABOVE. ALL PENETRATIONS SHALL BE PROTECTED

PRIOR TO CORING AND/ OR CUTTING. WALL TYPE REFERENCE REFER TO SHEET A5-10.

PARTITION NOTES:

- 1. ALL DIMENSIONS SHOWN ARE TO FINISHED SURFACE OF FINISHES INSTALLED ON GYP. BOARD, TYPICAL U.O.N. REFER TO SHEET A5-10 FOR GENERAL NOTES AND REQUIREMENTS FOR PARTITIONS. 2. EXISTING WALLS WERE CONSTRUCTED WITH MANY PERMITS AND/OR CONTRACTS. FIELD VERIFY CONSTRUCTION AND WIDTH PRIOR TO FABRICATION OF DOOR FRAMES OR COMPONENTS WHICH REQUIRE THE
- WIDTH OF WALL TO BE SET. 3. SEE SHEET A5-00 FOR FIRE PENETRATION DETAILS.



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OWNER:

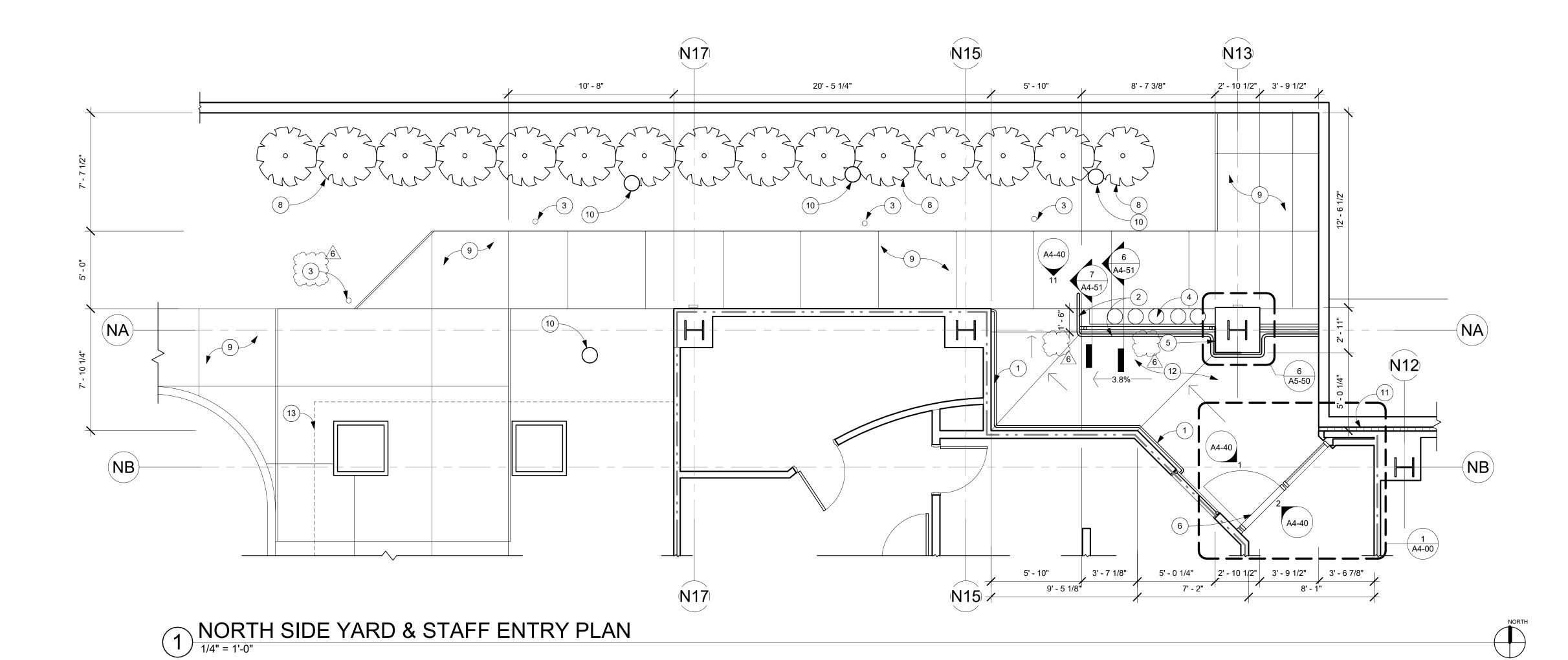
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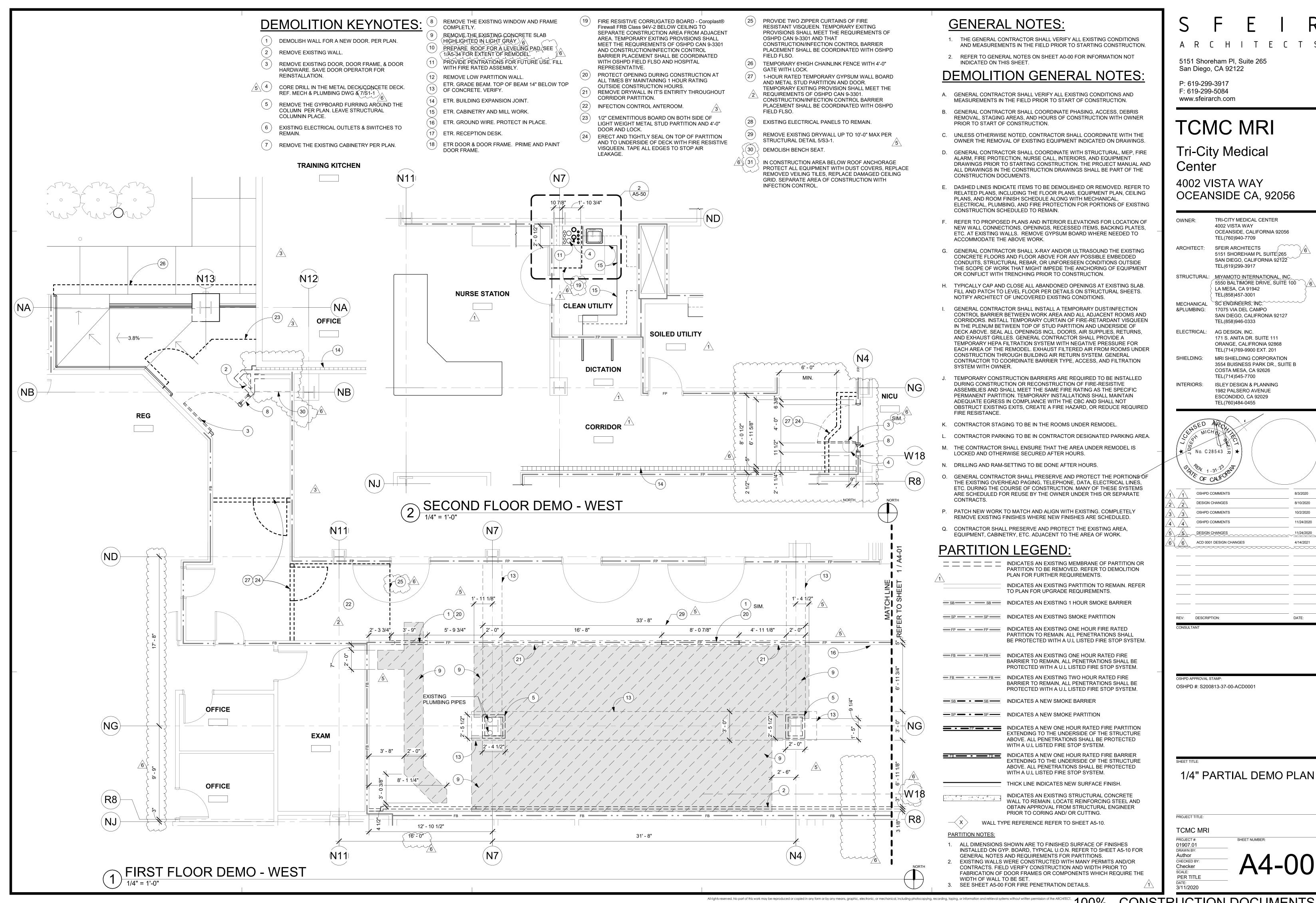
ACD 0001 DESIGN CHANGES

OSHPD #: S200813-37-00-ACD0001

SIDE YARD & STAFF **ENTRY PLAN**

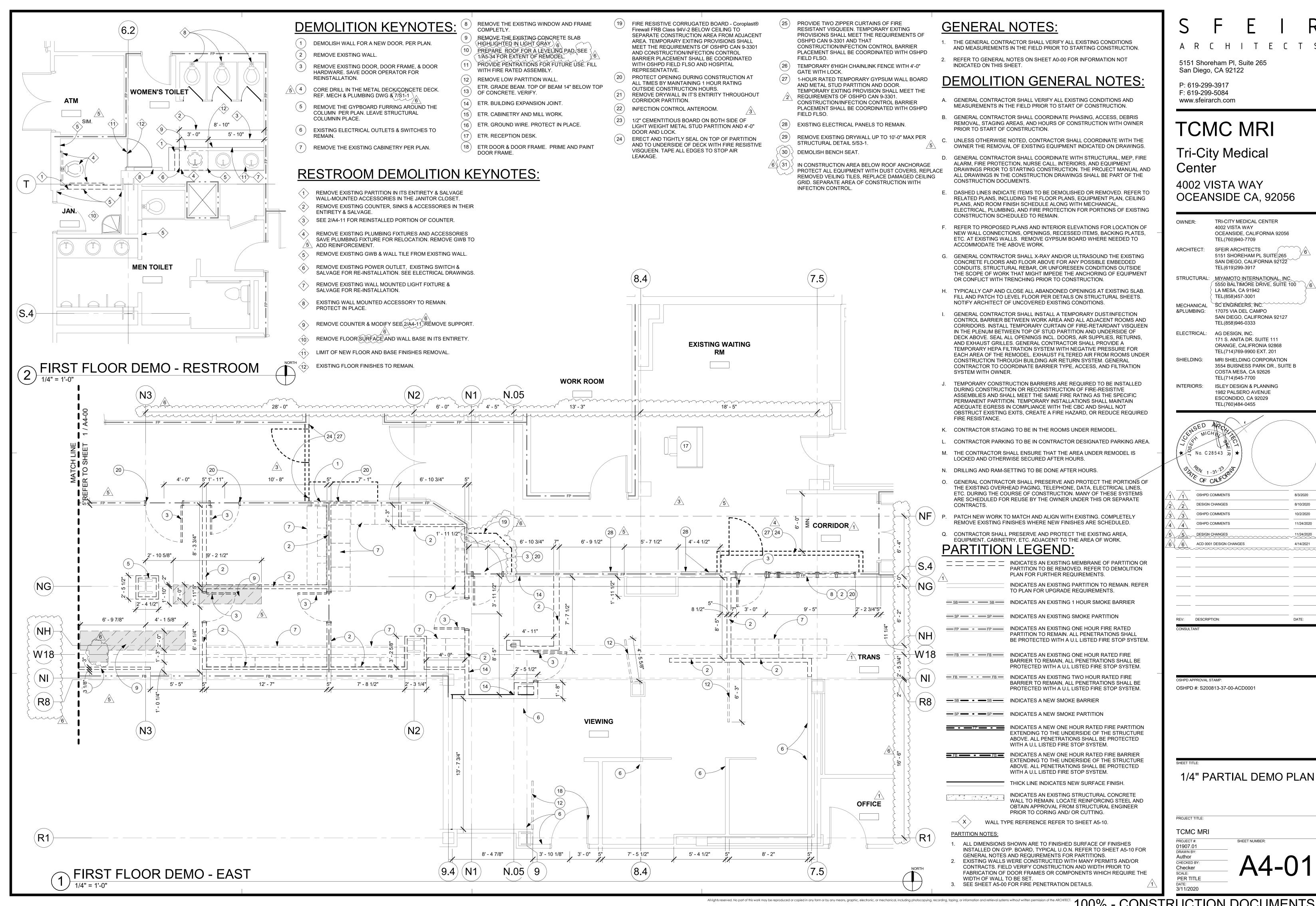
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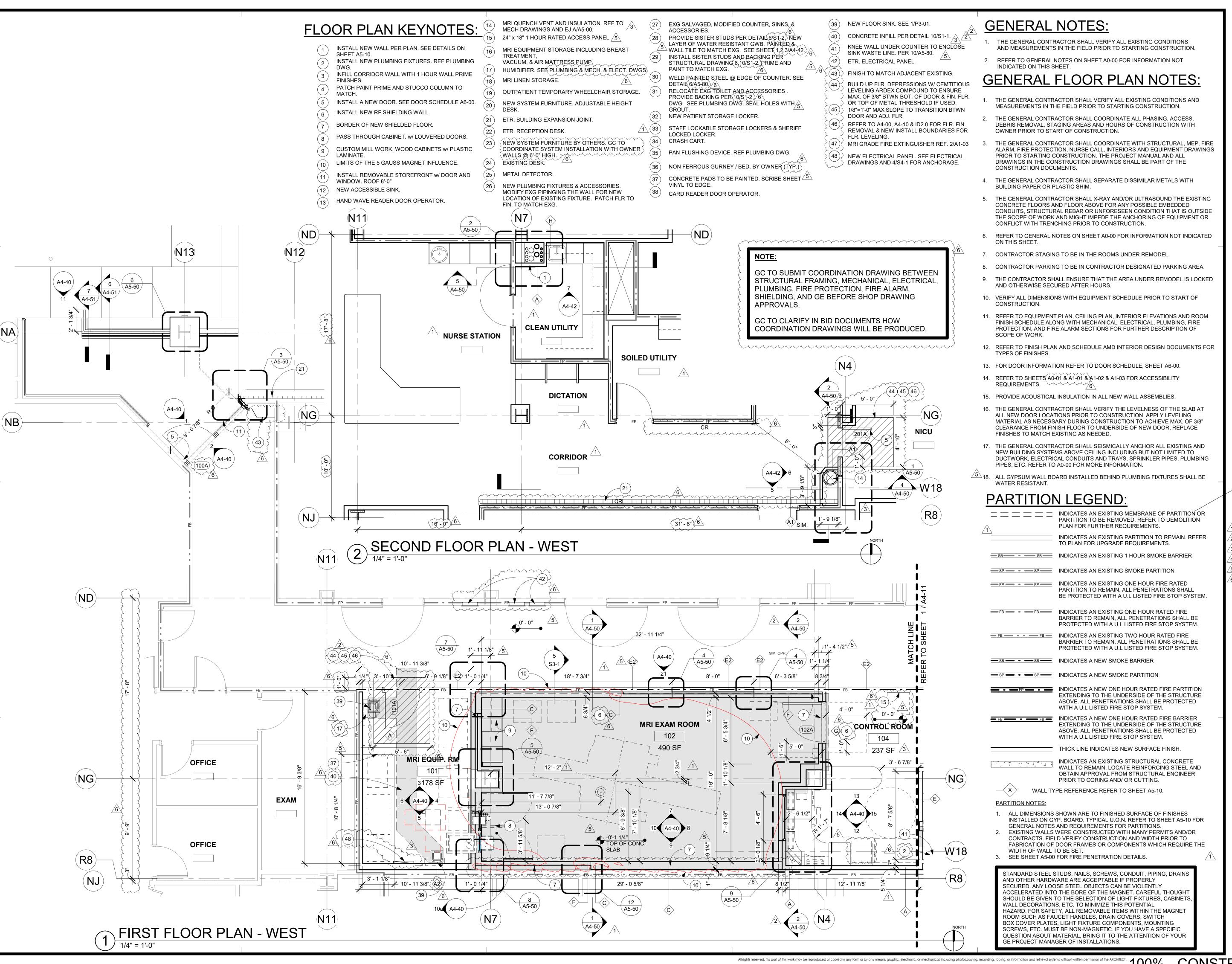




5550 BÁLŤIMOŘE ĎŘIVĚ, ŠUÍTĚ 100

10/2/2020





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MECHANICAL ŠC ĚNĜINĚEŘŠ, ÎNČ.

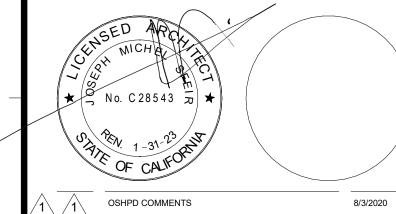
4PLUMBING: 17075 VIA DEL CAMPO SAN DIEGO, CALIFRONIA 92127

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TEL(858)946-0333

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3554 BUISNESS PARK DR., SUITE B
COSTA MESA, CA 92626
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ERIORS: ISLEY DESIGN & PLANNING 1982 PALSERO AVENUE ESCONDIDO, CA 92029 TEL(760)484-0455



DESIGN CHANGES

8/10/2020

3 OSHPD COMMENTS

10/2/2020

4 OSHPD COMMENTS

11/24/2020

5 DESIGN CHANGES

11/24/2020

6 ACD 0001 DESIGN CHANGES

4/14/2021

REV: DESCRIPTION: DA

OSHPD APPROVAL STAMP:

OSHPD #: S200813-37-00-ACD0001

1/4" PARTIAL FLOOR
PLAN

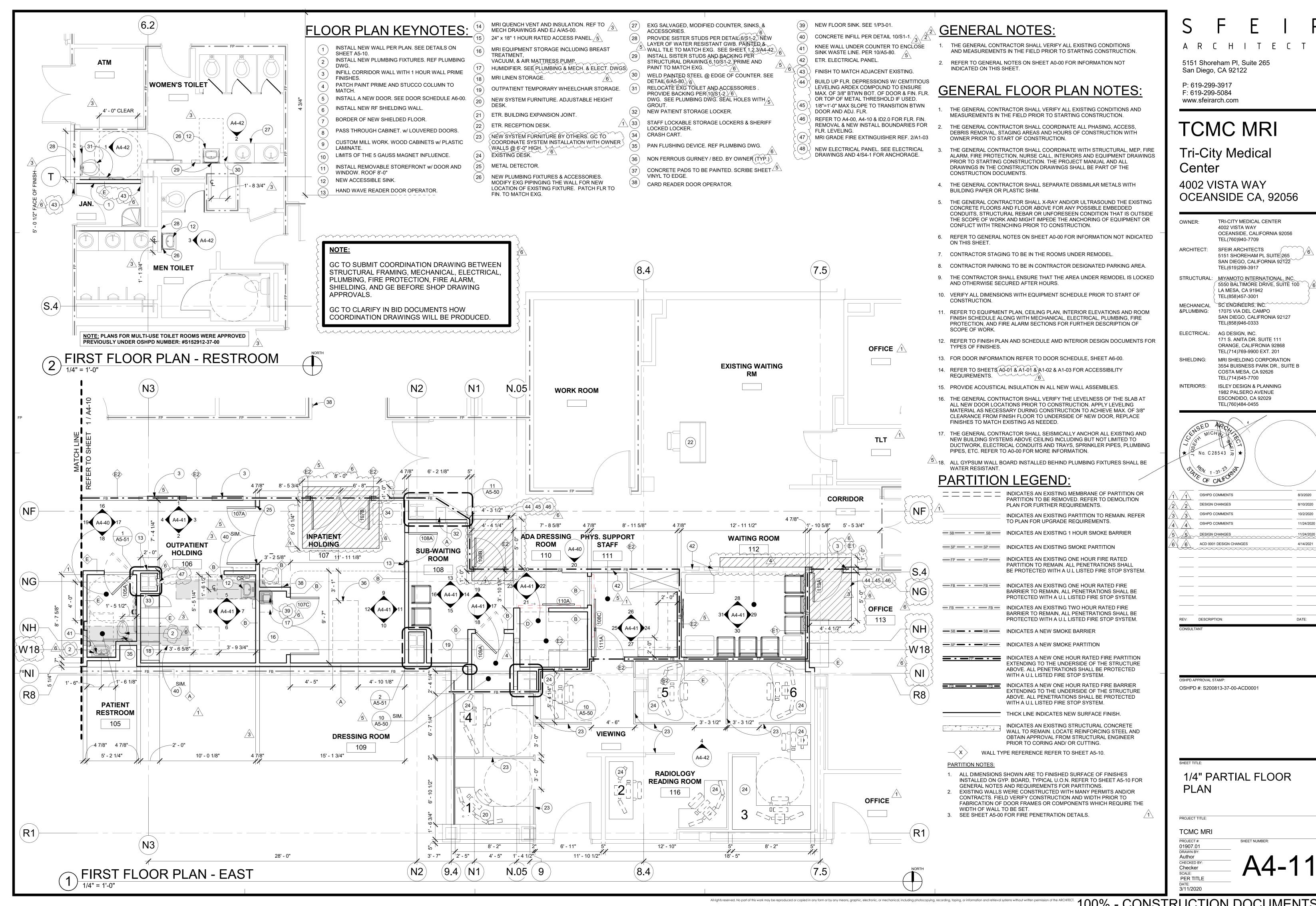
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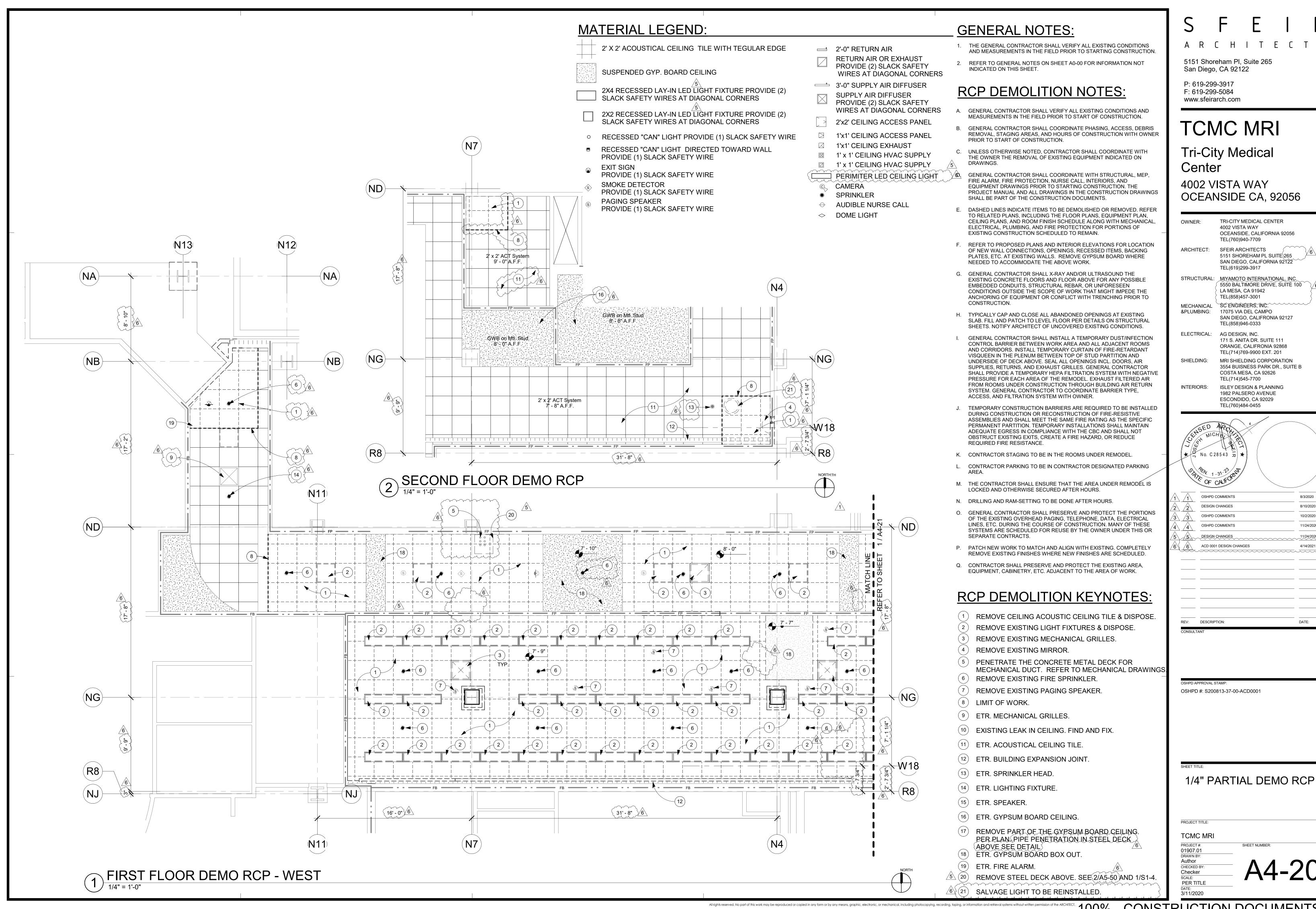
TCMC MRI

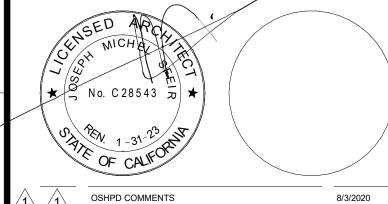
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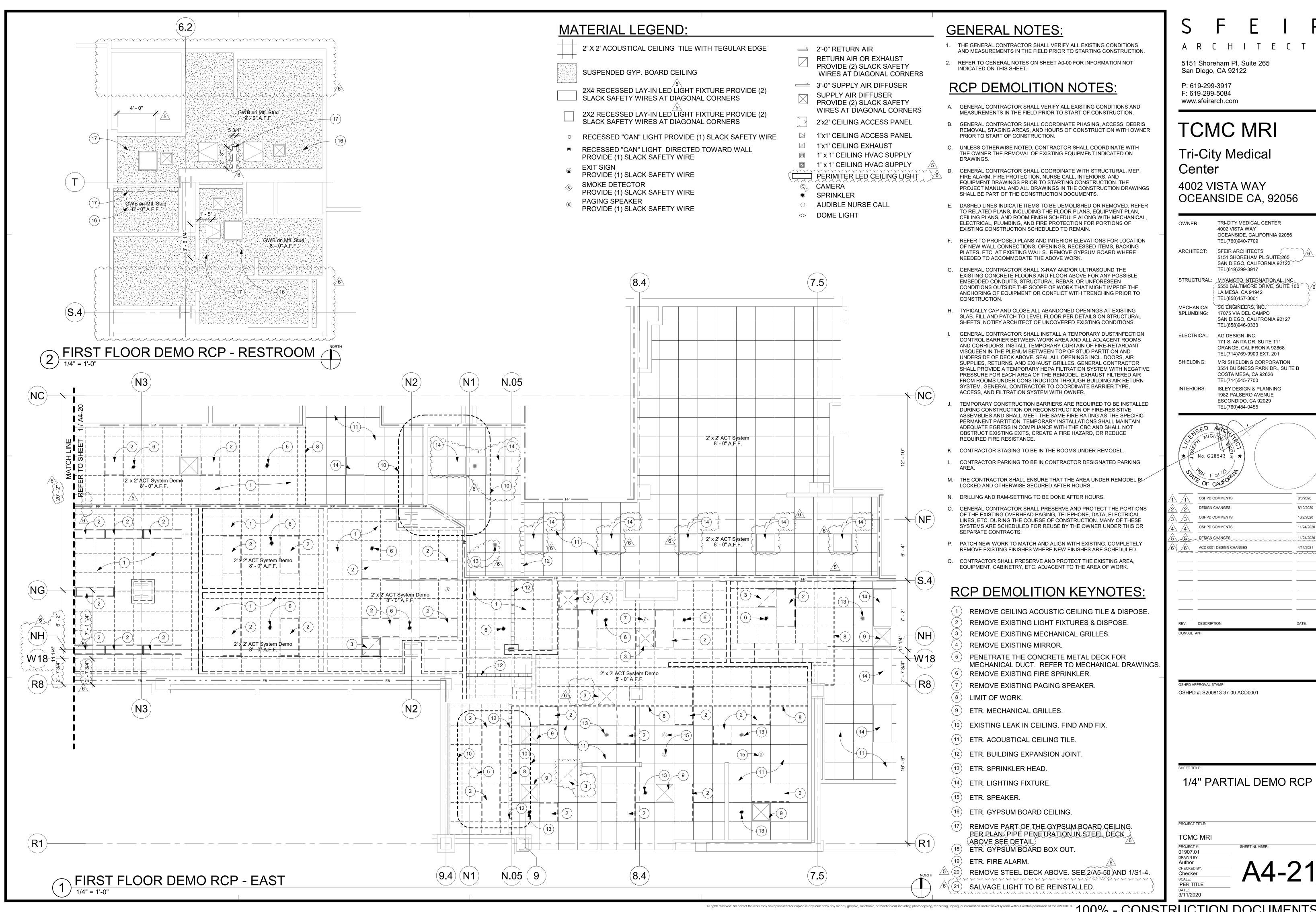
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Author
CHECKED BY:
Checker
SCALE:
PER TITLE

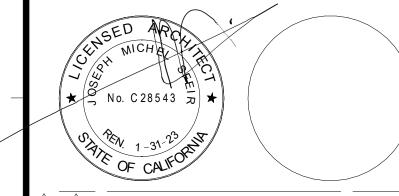
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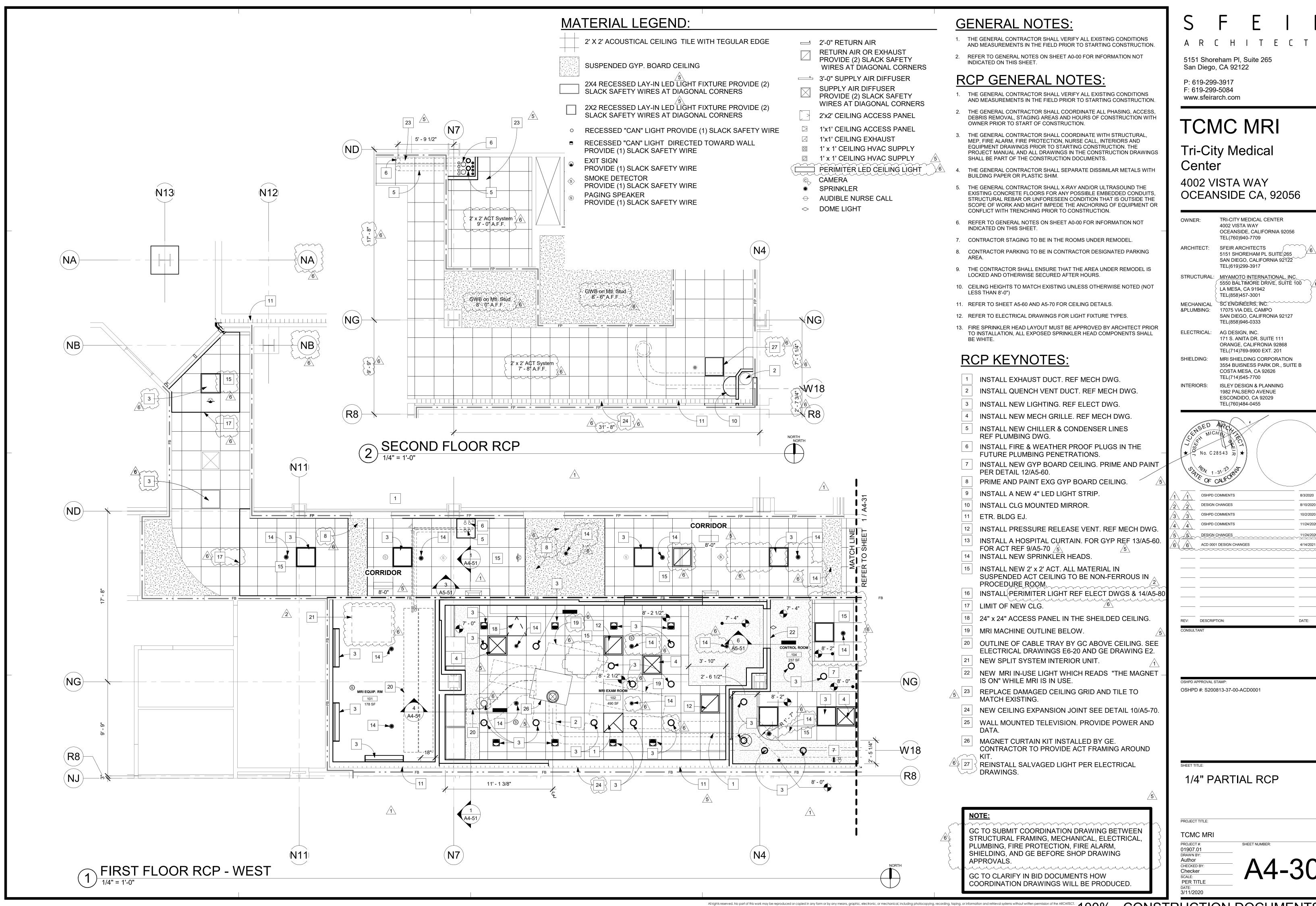


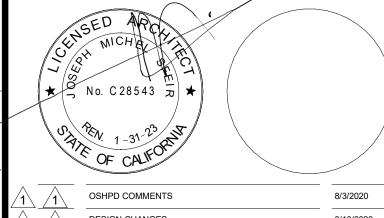




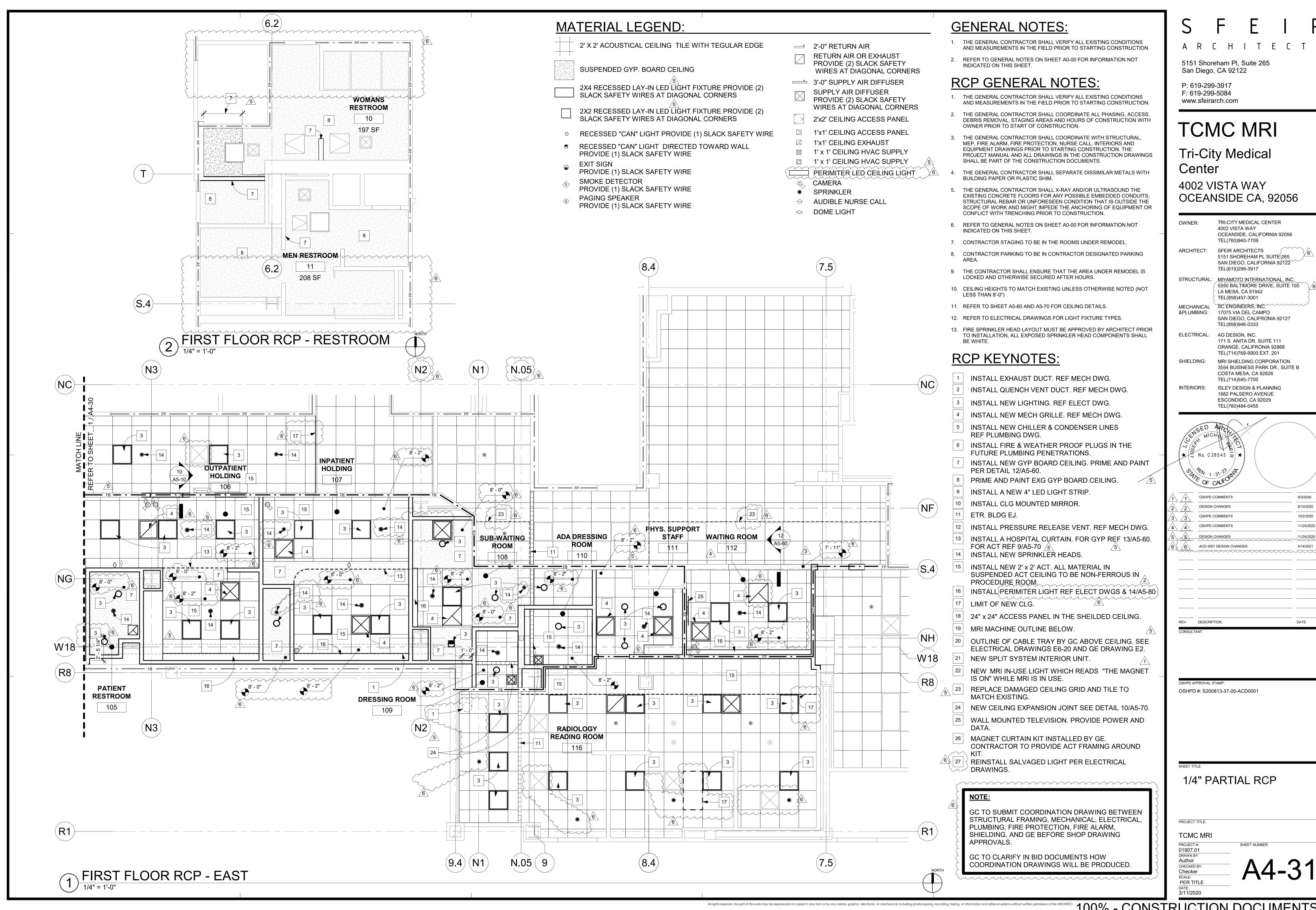


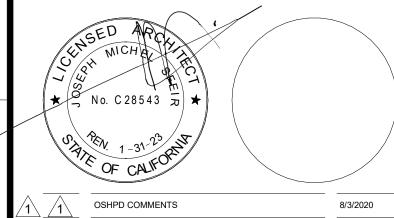


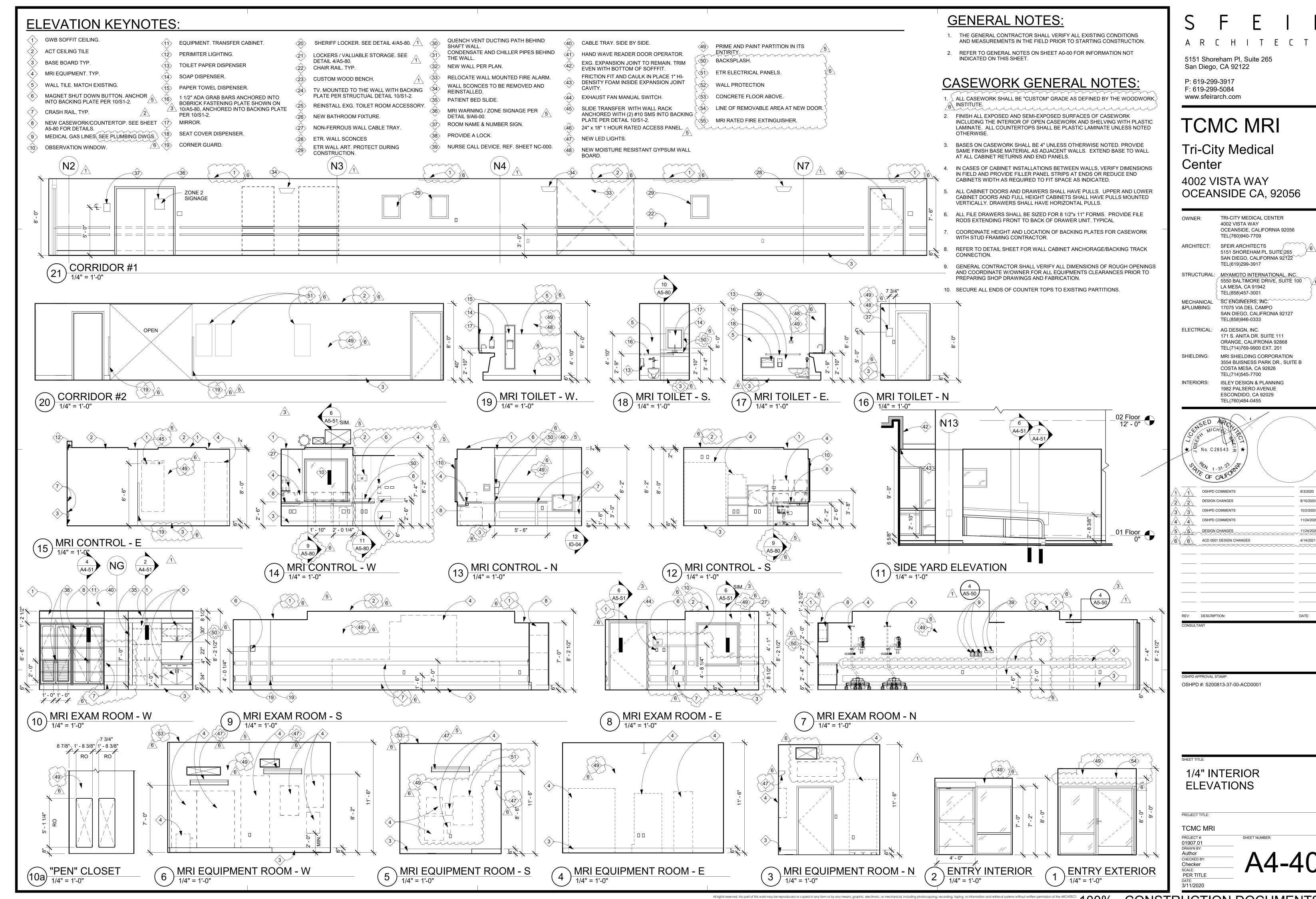


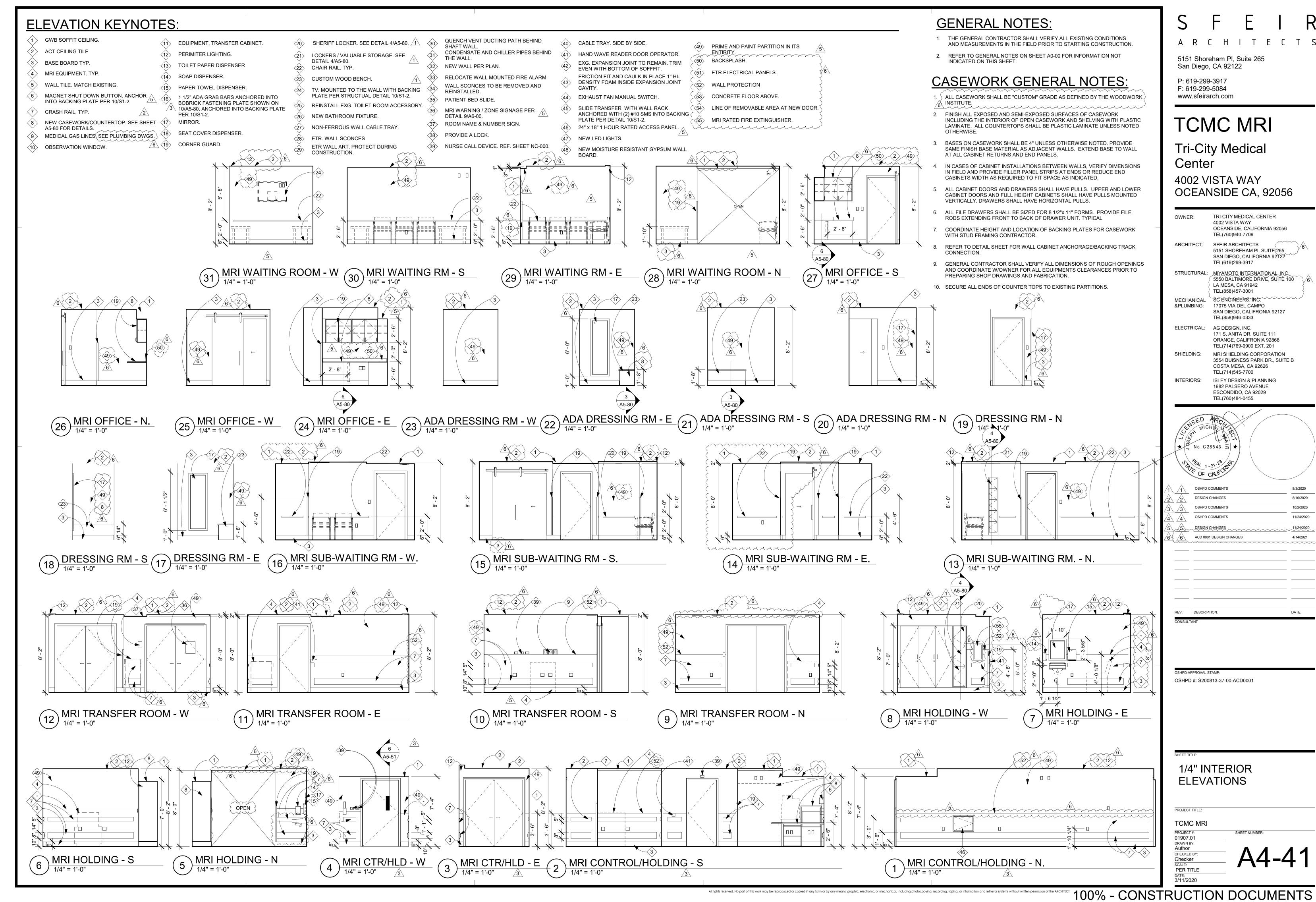


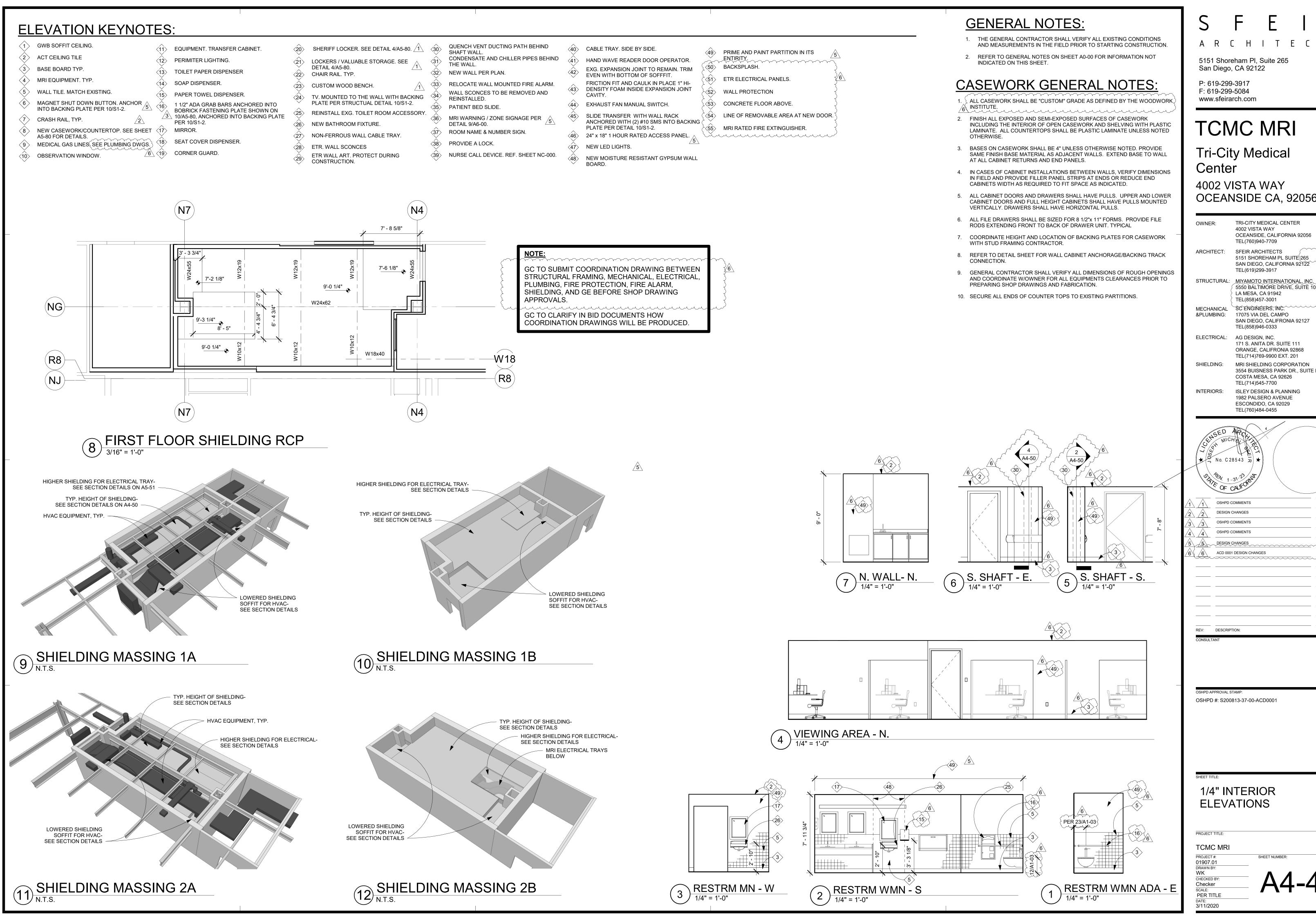
10/2/2020











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Tri-City Medical

4002 VISTA WAY OCEANSIDE CA, 92056

TRI-CITY MEDICAL CENTER 4002 VISTA WAY OCEANSIDE, CALIFORNIA 92056

SFEIR ARCHITECTS 5151 SHOREHAM PL SUITE 265 SAN DIEGO, CALIFORNIA 92122 TEL(619)299-3917

STRUCTURAL: MIYAMOTO INTERNATIONAL, INC. Ś5550 BÁLŤIMORE DŘIVE, ŠUĬTĚ 100 🌂 🖯 LA MESA, CA 91942 TEL(858)457-3001

TEL(858)946-0333 ELECTRICAL: AG DESIGN, INC. 171 S. ANITA DR. SUITE 111 ORANGE, CALIFRONIA 92868

MRI SHIELDING CORPORATION 3554 BUISNESS PARK DR., SUITE B COSTA MESA, CA 92626

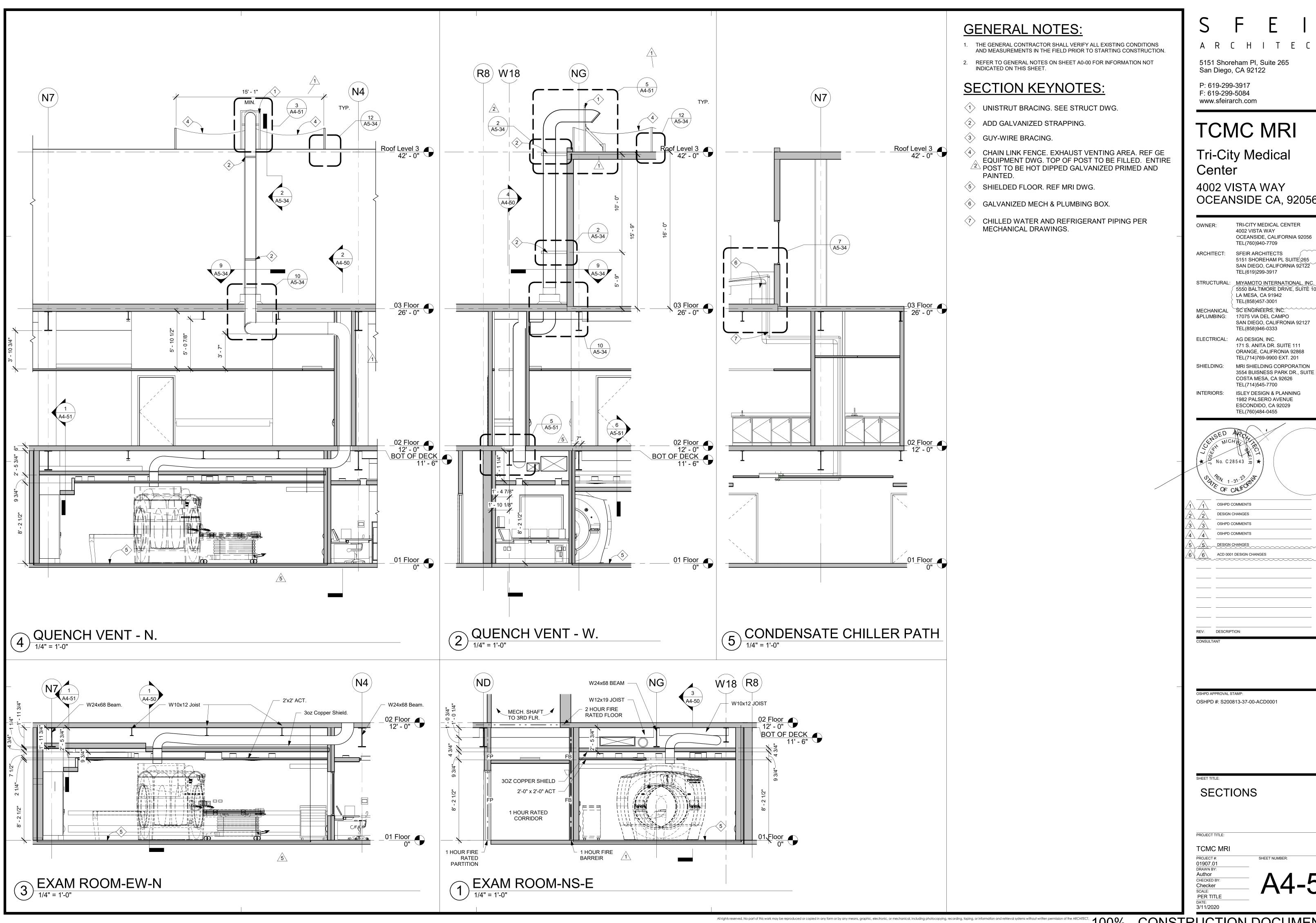
TEL(714)545-7700 ISLEY DESIGN & PLANNING 1982 PALSERO AVENUE

ESCONDIDO, CA 92029 TEL(760)484-0455



10/2/2020

1/4" INTERIOR



5151 Shoreham PI, Suite 265 San Diego, CA 92122

P: 619-299-3917 F: 619-299-5084

TCMC MRI

Tri-City Medical

4002 VISTA WAY OCEANSIDE CA, 92056

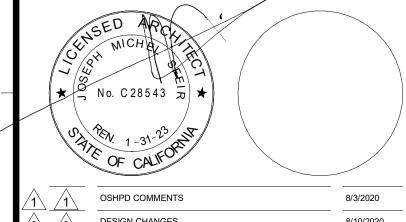
TRI-CITY MEDICAL CENTER 4002 VISTA WAY OCEANSIDE, CALIFORNIA 92056 TEL(760)940-7709 ARCHITECT: SFEIR ARCHITECTS 5151 SHOREHAM PL SUITE 265 SAN DIEGO, CALIFORNIA 92122 TEL(619)299-3917

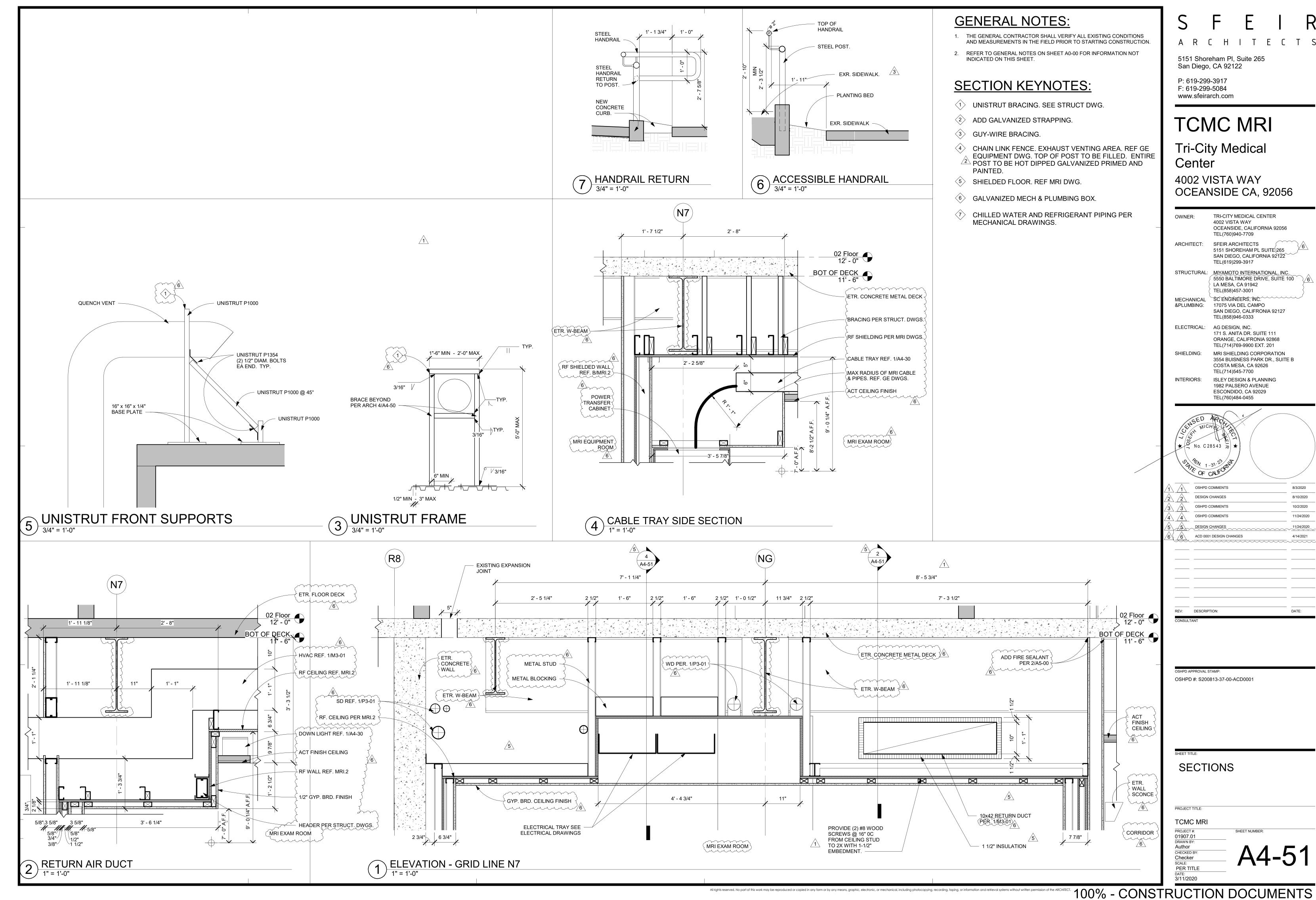
5550 BÁLŤIMOŘĚ DŘIVĚ, ŠUÍTĚ 100 LA MESA, CA 91942 TEL(858)457-3001 MECHANICAL SC ENGINEERS, INC. 17075 VIA DEL CAMPO SAN DIEGO, CALIFRONIA 92127

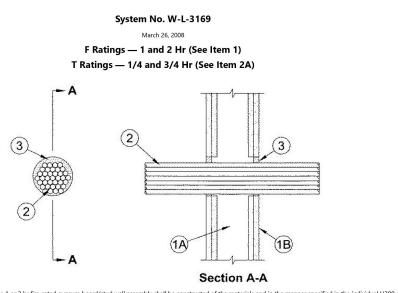
ELECTRICAL: AG DESIGN, INC. 171 S. ANITA DR. SUITE 111 ORANGE, CALIFRONIA 92868 TEL(714)769-9900 EXT. 201

> MRI SHIELDING CORPORATION 3554 BUISNESS PARK DR., SUITE B COSTA MESA, CA 92626 TEL(714)545-7700

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1. Wall Assembly — The 1 or 2 hr fire-rated gyp: Series Wall or Partition Design in the UL Fire Resistance Directory and shall include the following construction features:

A. Studs — Wall framing may consist of either wood studs or steel channel studs. Wood studs to consist of nom 2 by 4 in. (51 by 102 mm) lumber spaced 16 in. (406 mm) OC. Steel studs to be min 3-5/8 in. (92 mm) wide and spaced max 24 in. (610 mm) OC.

The hourly F Rating of the firestop system is equal to the hourly fire rating of the wall assembly in which it is installed

8. Gypsum Board* — Thickness, type, number of layers and fasteners as specified in the individual Wall and Partition Design. Max diam of opening is 5 in. (127 mm

2. Cables — Max 4-1/2 in, diam tight bundle of cables to be installed eccentrically or concentrically within the opening. The annular space between the cables and the ery of the opening shall be min 0 in. (0 mm, point contact) to max 1/2 in. (13 mm). Cable bundle to be rigidly supported on both sides of the floor or wall assemb following types and sizes of cables may be used:

A. Max 200 pair No. 24 AWG (or smaller) copper conductor with polyvinyl chloride (PVC) insulation and jacketing material.

C. Max 7/C No. 12 AWG (or smaller) copper conductor power and control cables with XLPE or PVC insulation with XLPE or PVC jacket. D. Max 3/C No. 2/0 AWG (or smaller) copper or aluminum conductor SER cables with PVC insulation and jacket

E. Max 3/C No. 2/0 AWG (or smaller) copper conductor PVC jacketed aluminum clad or steel clad TEK cable.

F. Max 110/125 fiber optic (F.O.) cable with PVC insulation and jacket G. Max 3/C with ground No. 8 AWG (or smaller) copper conductor NM cable (Romex) with PVC insulation and jack

J. Max 4/C (with ground) No. 300 kcmil (or smaller) aluminum conductor SER cables with PVC insulation and jacket.

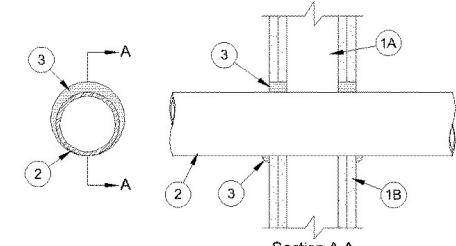
H. Max RG/U coaxial cable with fluorinated ethylene insulation and jacket. I. Max 4 pair No. 24 AWG (or smaller) copper conductor data cable with Hylar jacket and insulation.

2A. Through Penetrating Product* — As an alternate to the cables (Item 2), max 4 in. (102 mm) diam tight bundle of max 4/C No. 2/0 AWG (or smaller) aluminum or steel Armored Cable+ or Metal Clad Cable+ installed within the opening. Annular space between through-penetrating products and periphery of opening to be min 0 in. (0 min) point contact) to max 1 in. (25 mm). Through penetrating product rigidly supported on both sides of floor or wall assembly. When Armored Cable or Metal Clad Cable is

3. Fill, Void or Cavity Material* — Sealant — Min 5/8 in. (16 mm) thickness of fill material applied within annulus, flush with both surfaces of wall assembly. Sealant to be



Decembe	1 20, 2013
ANSI/UL1479 (ASTM E814)	CAN/ULC S115
F Ratings - 1 and 2 Hr (See Item 1)	F Rating - 1 and 2 Hr (See Item 1)
T Rating - 0 Hr	FT Rating - 0 Hr
L Rating At Ambient - Less Than 1 CFM/sq ft	FH Rating - 1 and 2 Hr (See Item 1)
L Rating At 400 F - Less Than 1 CFM/sq ft	FTH Rating - 0 Hr
	L Rating At Ambient - Less Than 1 CFM/sq ft
	L Rating At 400 F - Less Than 1 CFM/sg ft



Section A-A

1. **Wall Assembly —** The 1 or 2 hr fire-rated gypsum wallboard/stud wall assembly shall be constructed of the materials and ir the manner described in the individual U300 or U400 Series Wall or Partition Design in the UL Fire Resistance Directory and shall include the following construction features:

A. Studs — Wall framing may consist of either wood studs or steel channel studs. Wood studs to consist of nom 2 by 4 in. (51 by 102 mm) lumber spaced 16 in. (406 mm) OC. Steel studs to be min 3-5/8 3-1/2 in. (89 mm) wide and spaced max 24 in. (610 mm) OC. When steel studs are used and the diam of opening exceeds the width of stud cavity, the $opening\ shall\ be\ framed\ on\ all\ sides\ using\ lengths\ of\ steel\ stud\ installed\ between\ the\ vertical\ studs\ and\ screw-attached$ to the steel studs at each end. The framed opening in the wall shall be 4 to 6 in. (102 to 152 mm) wider and 4 to 6 in. (102 to 152 mm) higher than the diam of the penetrating item such that, when the penetrating item is installed in the opening, a 2 to 3 in. (51 to 76 mm) clearance is present between the penetrating item and the framing on all four sides.

B. Gypsum Board* — 5/8 in. (16 mm) thick, 4 ft (1.22 m) wide with square or tapered edges. The gypsum board type, thickness, number of layers, fastener type and sheet orientation shall be as specified in the individual U300 or U400 Series Design in the UL Fire Resistance Directory. Max diam of opening is 26 in. (660 mm) for steel stud walls. Max diam of opening is 14-1/2 in. (368 mm) for wood stud walls. The hourly F and FH Ratings of the firestop system are equal to the hourly fire rating of the wall assembly in which it is

1A. Metallic Sleeve — (Optional, Not Shown) - Cylindrical sleeve fabricated from min 0.016 in. (0.41 mm) to max 0.105 in. (2.7 mm) thick sheet steel. Length of steel sleeve to be equal to the thickness of wall. Longitudinal seam of sleeve welded or overlapped min 1 in. (25 mm). The ends of the steel sleeve shall be flush or recessed max 1/4 in. (6 mm) from wall surfaces.

. Through Penetrant — One metallic pipe, conduit or tubing to be installed either concentrically or eccentrically within the firestop system. Pipe, conduit or tubing may be installed at an angle not greater than 45 degrees from perpendicular. The innular space between pipe, conduit or tubing and periphery of opening shall be min 0 in. (0 mm, point contact) to max 2 ir (51 mm). For maximum 16 in. (406 mm) diam (or smaller) pipes, annular space shall be min 0 in. (0 mm, point contact) to max 2 in. (51 mm). Pipe, conduit or tubing to be rigidly supported on both sides of wall assembly. The following types and sizes of metallic pipes, conduits or tubing may be used: A. Steel Pipe — Nom 36 in. (914 mm) diam (or smaller) Schedule 10 (or heavier) steel pipe.

B. Iron Pipe — Nom 36 in. (914 mm) diam (or smaller) cast or ductile iron pipe.

SPECIFIED TECHNOLOGIES INC — SpecSeal Series SSS Sealant or SpecSeal LCI Sealant

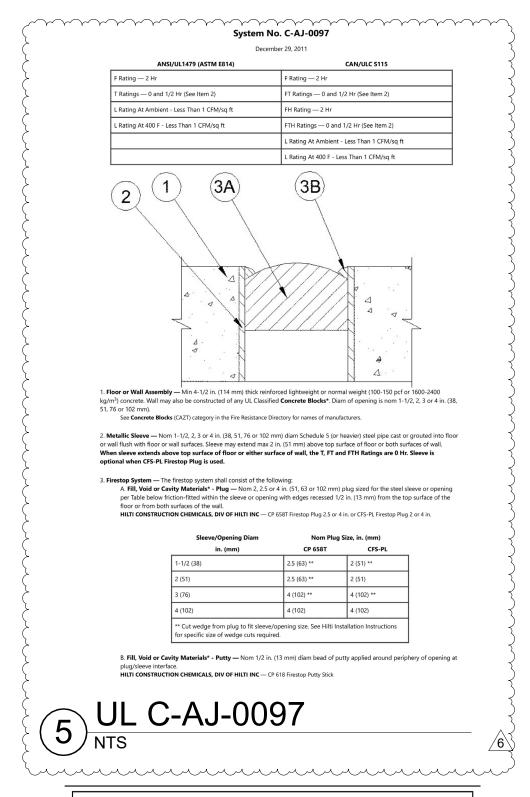
C. Conduit — Nom 4 in. (102 mm) diam (or smaller) steel electrical metallic tubing, nom 6 in. (152 mm) diam (or smaller) steel conduit or nom 1 in. (25 mm) diam (or smaller) flexible steel conduit.

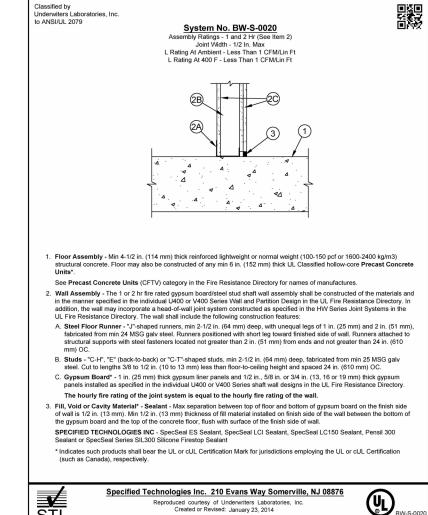
D. **Copper Tubing** — Nom 6 in. (152 mm) diam (or smaller) Type L (or heavier) copper tubing.

E. Copper Pipe — Nom 6 in. (152 mm) diam (or smaller) Regular (or heavier) copper pipe.

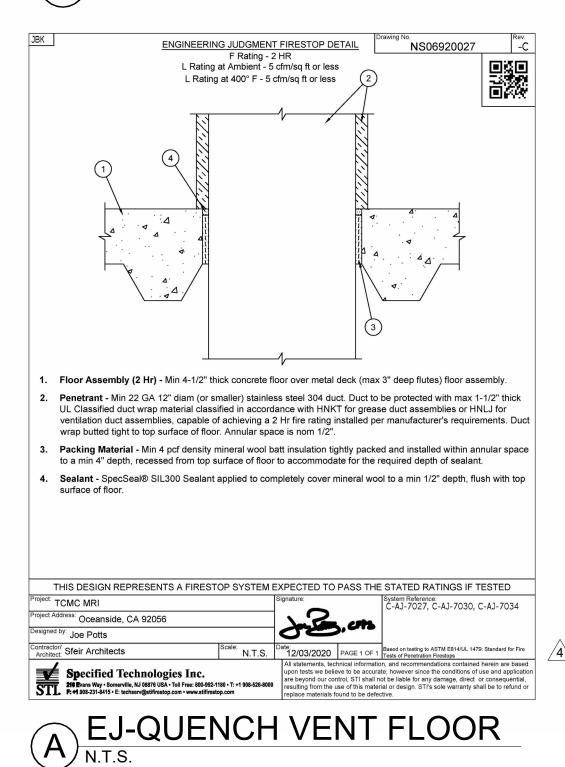
8. Fill, Void or Cavity Material* — Sealant — Min 5/8 in. (16 mm) thickness of fill material applied within annulus, flush with both surfaces of wall. At the point contact location between through penetrant and gypsum board, a min 3/8 in. (10 mm) diam bead of fill material shall be applied at the gypsum board/through penetrant interface on both surfaces of wall.

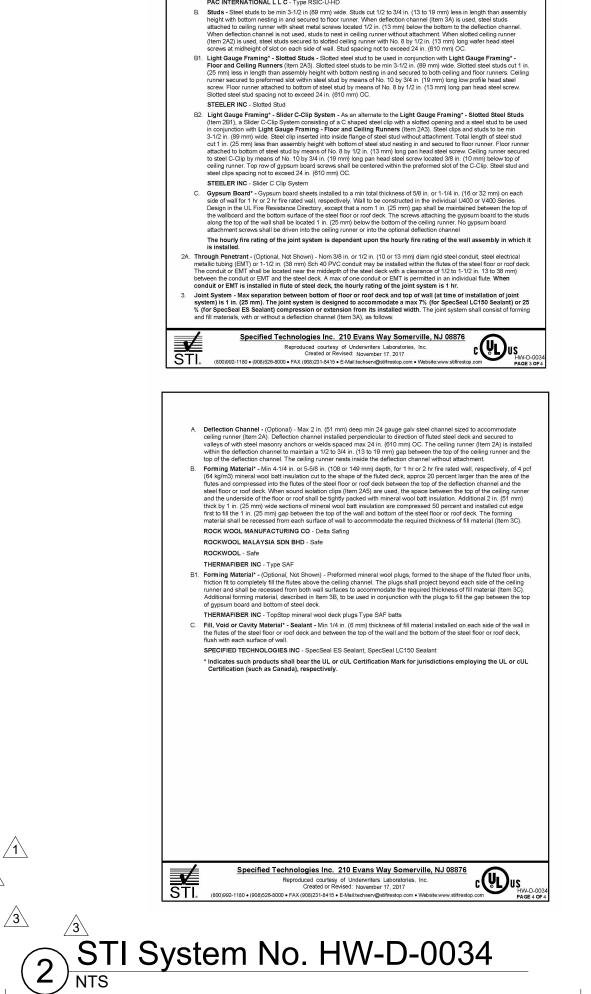
B UL-CONDUIT & PIPE IN GYP





3 STI System No. BW-S-0020





assified by derwiters Laboratories, Inc. ANSI/UL 2079 and CAN/ULC S115

Assembly Ratings - 1 and 2 Hr (See Item:

Nominal Joint Width - 1 In

Extension (See Items 1C, 1A-D) L Rating At Ambient - Less Than 1 CFM/sq ft

L Rating At 400 F - Less Than 1 CFM/sq ft

ISOLATEK INTERNATIONAL - Type 300

GCP APPLIED TECHNOLOGIES INC - MK-6/HY

A. Steel Roof Deck - Max 3 in. (76 mm) deep galv steel fluted roof deck.

GCP APPLIED TECHNOLOGIES INC - MK-6/HY

CALIFORNIA EXPANDED METAL PRODUCTS CO - CST

RAM SALES L L C - RAM Slotted Track

mm) long steel masonry anchors

PAC INTERNATIONAL L L C - Type RSIC-U-HD

SCAFCO STEEL STUD MANUFACTURING CO

STEELER INC - Steeler Slotted Ceiling Runner

CLARKDIETRICH BUILDING SYSTEMS - Type SLT, SLT-H

MARINO/WARE, DIV OF WARE INDUSTRIES INC - Type SLT

TELLING INDUSTRIES L L C - True-Action Deflection Track

direction of fluted steel deck and secured to valleys with steel mason ceiling runner is used, deflection channel (Item 3A) shall not be used.

QUAIL RUN BUILDING MATERIALS INC - Slotted Deflection Track

ISOLATEK INTERNATIONAL - Type 300

└

nanner described in the individual Floor-Leiling Design in the OL File Teachers and Single Plane of the floor units.

A. Steel Floor And Form Units* - Max 3 in. (76 mm) deep galv steel fluted floor units.

B. Concrete - Min 2-1/2 in. (64 mm) thick reinforced concrete, as measured from the top plane of the floor units.

C. Spray-Applied Fire Resistive Material* - (Optional, Not Shown) - After installation of the ceiling runner (Item 2A) or deflection channel (Item 3A), steel floor units to be sprayed with a min 5/16 in. (8 mm) to max 11/16 in. (17 mm) thickness of material in accordance with the specifications in the individual D700 or D800 Series Design. When spray and the provided with 2 in. (51 mm) flanges.

When Spray-Applied Fire Resistance Material is used, Class II Movement Capabilities restricted to COMPRESSION ONLY.

Specified Technologies Inc. 210 Evans Way Somerville, NJ 08876

Roof Covering* - Hot-mopped or cold-application materials compatible with insulating concrete.

D. Spray-Applied Fire Resistive Material* - (Optional, Not Shown) - After installation of the ceiling runner (Item 2A) or deflection channel (Item 3A), steel floor units to be sprayed with a min 5/16 in. (8 mm) to max 11/16 in. (17 mm) thickness of material in accordance with the specifications in the individual P700 or P800 Series Design Aymen spray applied fire resistive material is used, ceiling runner or deflection channel to be provided with 2 in. (51 mm) flanges.

Excess material to be scraped from flanges of ceiling runner or deflection channel prior to installation of gy, When Spray-Applied Fire Resistance Material is used, Class II Movement Capabilities restricted to COMPRESSION ONLY.

Floor Assembly - (Not Shown) - As an alternate to the floor assembly (Item 1), min 4-1/2 in. (114 mm) thick structural concrete (100-150 pcf or 1600-2400 kg/m3) or min 6 in. (152 mm) thick hollow-core **Precast Concrete Units***.

Wall Assembly - The 1 or 2 hr fire rated gypsum board/stud wall assembly shall be constructed of the materials and in the manner described in the individual U400 or V400 Series Wall and Partition Design in the UL Fire Resistance Directory and

shall include the following construction features:
A. Steel Floor and Celling Runners - Floor and celling runners of wall assembly shall consist of galv steel channels sized to accommodate steel studs. Celling runner to be provided with min 1-1/4 in. (32 mm) to max 2 in. (51 mm) flanges. When deflection channel (Item 3A) is used, flange height of celling runner is to be equal to or greater than flange height of deflection channel with a 1/2 to 3/4 in. (13 to 19 mm) gap maintained between the top of the ceiling runner and the top of the deflection channel. When deflection channel with is not used, ceiling runner to be provided with min 1-1/2 in. (38 mm) flanges. Ceiling runner installed perpendicular to direction of fluted steel deck and secured to valleys with steel masonry anchors or welds spaced max 24 in. (610 mm) OC.

Light Gauge Framing* --Slotted Ceiling Runner - As an alternate to the ceiling runner in Item 2A, ceiling runner to consist of galv steel channel with slotted flanges sized to accommodate steel studs (Items 2B). Ceiling runner installed perpendicular to direction of fluted steel deck and secured to valleys with steel masonry anchors spaced max 24 in. (6 mm) OC. When slotted ceiling runner is used, deflection channel (Item 3A) shall not be used.

TELLING INDUSTRIES L. C - I TURE-ACURD DETICEMENT IN THE ACT AND A TURE ACT AND A

A3. Light Gauge Framing* - Notched Ceiling Runner - As an alternate to the ceiling runners in Items 2A through 2A3, notched ceiling runners to consist of C-shaped galv steel channel with notched return flanges sized to accommodate steel studes (Item 2B). Notched ceiling runner installed perpendicular to direction of fluted steel deck and secured to valleys with steel masonry anchors spaced max 24 in. (610 mm) OC. When notched ceiling runner is used, deflection

A4. Steel Framing Members* - Sound Isolation Clips - (Not Shown) - As an alternate attachment means for the ceiling

runner to the bottom of the floor or roof assembly when no deflection channel (Item 3A) is used, sound isolation clips installed in accordance with the accompanying installation instructions. Sound isolation clip installed through nom 1 installed in accordance with the accompanying installation instructions.

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Created or Revised: November 17, 2017

Light Specified Technologies Inc. 210 Evans Way Somerville, NJ 08876

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Created or Revised: November 17, 2017

See Precast Concrete Units (CFTV) category in Fire Resistance Directory for names of manufacturers.

Class II Movement Capabilities - 7% or 25% Compres

F Ratings - 1 and 2 Hr (See Item 2

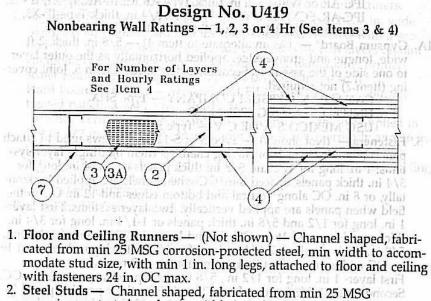
T Ratings - 1 and 2 Hr (See Item 2

FH Ratings - 1 and 2 Hr (See Item 2

Nominal Joint Width - 1 In. Novement Capabilities - 7% or 25% Compression Extension (See Items 1C, 1A-D)

L Rating At Ambient - Less Than 1 CFM/sq f L Rating At 400 F - Less Than 1 CFM/sq

FTH Ratings - 1 and 2 Hr (See Item 2)



 Steel Studs — Channel shaped, fabricated from min 25 MSG corrosion-protected steel, min width as indicated under Item 4, min 1-1/4 in. flanges and 1/4 in. return, spaced a max of 24 in. OC. Studs to be cut 3/8 to 3/4 in. less than assembly height. 3. Batts and Blankets* — (Required as indicated under Item 4) — Mineral wool batts, friction fitted between studs and runners. Min nom

thickness as indicated under Item 4. See Batts and Blankets (BKNV or BZJZ) Categories for names of Classified companies. 3A. Batts and Blankets* — (Optional) — Placed in stud cavities, any glass fiber or mineral wool insulation bearing the UL Classification Marking as to Surface Burning Characteristics and/or Fire Resistance. See Batts and Blankets (BKNV or BZJZ) Categories for names of Classified com-

4. Gypsum Board* — Gypsum panels with beveled, square or tapered edges, applied vertically or horizontally. Vertical joints centered over studs and staggered one stud cavity on opposite sides of studs. Vertical joints in adjacent layers (multilayer systems) staggered one stud cavity. Horizontal joints need not be backed by steel framing. Horizontal edge joints and horizontal butt joints on opposite sides of studs need not be staggered. Horizontal edge joints and horizontal butt joints in adjacent layers (multilayer systems) staggered a min of 12 in. The thickness and number of layers for the 1, hr, 2 hr, 3 hr and 4 hr ratings are as follows: Wallboard Protection on Each Side of Wall

		1777	L. UBUTE	District Control	
ng	MINDIANOR MINDIA				Thkns ulation
roheize (si	of nominal IVE in the	ne layer	of Panel	and m (Ite	m 3)
	-Bured he the shide in		1 layer, 5/8 th		ional
	.evon macks.	1/2 eds b	1 layer, 1/2 th	in. 1-1/ ick	'2 in.
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Cheminann	and a relationation of	y ser addin	s wanten	unit mili ili.	

CANADIAN GYPSUM COMPANY —1/2 in. thick Type C IP-X2 or IPC-AR; WRC, 5/8 in. thick Type AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, WRX or WRC: 3/4 in, thick Type IP-X3, ULTRACODE, ULTRACODE SHC or ULTRACODE

UNITED STATES GYPSUM CO —1/2 in. thick Type C, IP-X2, IPC-AR or WRC; 5/8 in. thick Type SCX, SHX, WRX, IP-X1, AR, C, WRC, FRX-G, IP-AR, IP-X2, IPC-AR; 3/4 in. thick Type IP-X3, ULTRACODE, ULTRACODE SHC or ULTRACODE USG MEXICO S A DE C V —1/2 in. thick Type C, IP-X2,

IPC-AR or WRC; 5/8 in. thick Type AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, WRX, WRC or; 3/4 in. thick Type IP-X3, ULTRACODE, ULTRACODE SHC or ULTRACODE WRC. 4A. Gypsum Board* — (As an alternate to Item 4) — 5/8 in. thick, 2 ft. wide, tongue and groove edge, applied horizontally as the outer layer to one side of the assembly. Secured as described in Item 5. Joint cover-

CANADIAN GYPSUM COMPANY — Type SHX. UNITED STATES GYPSUM CO —Type SHX. USG MEXICO S A DE C V — Type SHX.

5. Fasteners — (Not shown) — Type S or S-12 steel screws used to attach panels to studs (Item 2) or furring channels (Item 6). Single layer systems: 1 in. long for 1/2 and 5/8 in. thick panels or 1-1/4 in. long for 3/4 in. thick panels, spaced 8 in. OC when panels are applied horizon tally, or 8 in. OC along vertical and bottom edges and 12 in. OC in the field when panels are applied vertically. Two layer systems: First layer-1 in. long for 1/2 and 5/8 in. thick panels or 1-1/4 in. long for 3/4 in. thick panels, spaced 16 in. OC. Second layer- 1-5/8 in. long for 1/2 in. 5/8 in. thick panels or 2-1/4 in. long for 3/4 in. thick panels, spaced 16 in. OC with screws offset 8 in. from first layer. Three-layer systems: First layer- 1 in. long for 1/2 in., 5/8 in. thick panels, spaced 24 in. OC. Second layer- 1-5/8 in. long for 1/2 in., 5/8 in. thick panels, spaced 24 in. OC. Third layer- 2-1/4 in. long for 1/2 in., 5/8 in. thick panels or 2-5/8 in. long for 5/8 in. thick panels, spaced 12 in. OC. Screws offset min 6 in. from layer below. Four-layer systems: First layer- 1 in. long for 1/2 in., 5/8 in. thick panels, spaced 24 in. OC. Second layer- 1-5/8 in. long for 1/2 in., 5/8 in. thick panels, spaced 24 in. OC. Third layer-2-1/4 in. long for 1/2 in. thick panels or 2-5/8 in. long for 5/8 in. thick panels, spaced 24 in. OC. Fourth layer- 2-5/8 in. long for 1/2 in. thick panels or 3 in. long for 5/8 in. thick panels, spaced 12 in. OC. Screws offset min 6 in. from layer below.

6. Furring Channels — (Optional, not shown, for single or double layer systems) — Resilient furring channels fabricated from min 25 MSG corrosion-protected steel, spaced vertically a max of 24 in. OC. Flange portion attached to each intersecting stud with 1/2 in. long Type S-ĭ2 teel screws. Not for use with Item 4A. 6A. Steel Framing Members (Not Shown)* — (Optional on one or both sides, not shown, for single or double layer systems) — As an alternate

to Item 6, furring channels and Steel Framing Members as described a. Furring Channels — Formed of No. 25 MSG galv steel. 2-3/8 in wide by 7/8 in. deep, spaced max. 24 in. OC perpendicular to studs. Channels secured to studs as described in Item b. Gypsum board attached to furring channels as described in Item 5. Not for

use with Item 4A. b. Steel Framing Members* — Used to attach furring channels (Item 6a) to studs (Item 2). Clips spaced max. 48 in. OC., and secured to studs with No. 8 x 1-1/2 in. minimum self-drilling, S-12 steel screw through the center grommet. Furring channels are friction fitted into clips.

PAC INTERNATIONAL INC —Type RSIC-1. 7. Joint Tape and Compound — Vinyl or casein, dry or premixed joint compound applied in two coats to joints and screw heads of outer layers. Paper tape, nom 2 in. wide, embedded in first layer of compound over all joints of outer layer panels. Paper tape and joint compound may be omitted when gypsum panels are supplied with a square edge 8. Siding, Brick or Stucco — (Optional, not shown) — Aluminum, vinyl or steel siding, brick veneer or stucco, meeting the requirements of local code agencies, installed over gypsum panels. Brick veneer attached to studs with corrugated metal wall ties attached to each stud with steel screws, not more than each sixth course of brick. 9. Caulking and Sealants* — (Optional, not shown) — A bead of acoustical sealant applied around the partition perimeter for sound control. UNITED STATES GYPSUM CO — Type AS

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1 UL 419 RATED PARTITION

*Bearing the UL Classification Mark

GENERAL NOTES:

THE GENERAL CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS

INDICATED ON THIS SHEET.

RATED PENETRATION NOTES:

WHERE PROVIDED, THROUGH-PENETRATION FIRESTOP SYSTEM AND MEMBRANE PENETRATION DETAILS ARE FOR REFERENCE ONLY.

THROUGH-PENETRATIONS AND MEMBRANE PENETRATIONS SHALL BE PROTECTED BY AN APPROVED PENETRATION FIRESTOP SYSTEM OR MEMBRANE PENETRATION FIRESTOP SYSTEM INSTALLED AS TESTED IN ACCORDANCE WITH ASTM E 814 OR UL 1479, WITH A MINIMUM POSITIVE PRESSURE DIFFERENTIAL OF 0.01 INCH (2.49 PA) OF WATER OR AS OTHERWISE PERMITTED BY CBC, SECTION 714. LISTED THROUGH-PENETRATION FIRESTOP SYSTEMS AND MEMBRANE PENETRATIONS SHALL BE INSTALLED IN ACCORDANCE WITH THE INSTALLATION DETAILS FOR LISTED SYSTEMS.

LISTED THROUGH-PENETRATION FIRESTOP SYSTEMS, MEMBRANE PENETRATION PROTECTION AND OTHER PERMITTED MEANS AND METHODS OF PENETRATION PROTECTION SHALL BE SUBMITTED FOR OSHPD FDD FIELD FIRE MARSHAL REVIEW AND APPROVAL PRIOR TO INSTALLATION. 2019 CBC 107.2.1.

WHERE A REQUIRED FIRE PROTECTION SYSTEM IS OUT OF SERVICE THE LOCAL FIRE JURISDICTION AND OSHPD SHALL BE NOTIFIED. A FIRE WATCH

SHALL BE PROVIDED UNTIL THE SYSTEM IS OPERABLE. WHEN A FIRE WATCH IS REQUIRED PERSONNEL SHALL BE PROVIDED WITH AN APPROVED MEANS FOR NOTIFYING THE FIRE DEPARTMENT AND THE ONLY DUTY OF THE FIRE WATCH PERSONNEL IS TO WATCH FOR THE OCCURRENCE OF FIRE, PER 2019 C.F.C. SECTIONS 901.7 & 3304.5 AND OSHPD CAN 9-3301.

> System No. C-AJ-5087 August 18, 2011

Floor or Wall Assembly — Min 4-1/2 in. (114 mm) thick reinforced lightweight or normal weight (100-150 pcf or 1600-

2400 kg/m³) concrete floor or min 5 in. (127 mm) thick reinforced lightweight or normal weight (100-150 pcf or 1600-2400

Concrete Units*. Wall may also be constructed of any UL Classified Concrete Blocks* Max diam of opening is 30 in. (762 mm)

See Concrete Blocks (CAZT) and Precast Concrete Units (CFTV) categories in the Fire Resistance Directory for names of manufacturers

2. Steel Sleeve - (Optional) — Nominal 30 in. (762 mm) diam (or smaller) Sch 10 (or heavier) steel pipe sleeve or No. 26 ga

(0.022 in. or 0.56 mm thick) sheet steel sleeve with square anchor flange spot welded to the sleeve at approx mid-height.

8. Through Penetrants — One metallic pipe to be installed either concentrically or eccentrically within the firestop system.

Pipe to be rigidly supported on both sides of floor or wall assembly. The following types and sizes of metallic pipes may be

A. Pipe and Equipment Covering Materials* — Nom 2 in. (51 mm) thick hollow cylindrical heavy density (min 3.5 pcf

or 56 kg/m^3) glass fiber units jacketed on the outside with an all service jacket. Longitudinal joints sealed with metal

supplied with the product. Annular space shall be min 1/2 in. (13 mm) thick to max 1-1/2 in. (38 mm). When the nom

See Pipe and Equipment Covering-Materials (BRGU) category in Building Materials Directory for names of manufacturers. Any

pipe covering material meeting the above specifications and bearing the UL Classification Marking with a Flame Spread Index of

B. Pipe Covering Materials* — Nom 2 in. (51 mm) thick unfaced mineral fiber pipe insulation having a nom density of

3.5 pcf (56 kg/m³) (or heavier) and sized to the outside diam of pipe or tube. Pipe insulation secured with min No. 8

INDUSTRIAL INSULATION GROUP L L C — High Temperature Pipe Insulation 1200, High Temperature Pipe Insulation BWT or

C. Sheathing Material* — Used in conjunction with Item 4B . Foil-scrim-kraft or all service jacket material shall be

wrapped around the outer circumference of the pipe insulation (Item 4B) with the kraft side exposed. Longitudinal

joints and transverse joints sealed with metal fasteners or butt tape. Annular space shall be min 1/2 in. (13 mm) thick to

max 1-1/2 in. (38 mm). When the nom pipe diam is less than 2 in. (51 mm), annular space may be min 1/4 in. (6 mm).

material meeting the above specifications and bearing the UL Classification Marking with a Flame Spread Index of 25 or less and a

A. Packing Material — Min 4 in. (102 mm) thickness of min 4 pcf (64 kg/m³) mineral wool batt insulation compressed

flush with top surface of floor or with both surfaces of wall. When min annular space is less than 1/2 in. (13 mm), fill

and firmly packed within annular space. Packing material to be recessed from top surface of floor or from both surfaces

B. Fill, Void or Cavity Material* — Sealant — Min 1/2 in. (13 mm) thickness of fill material applied within the annulus,

See **Sheathing Materials*** — (BVDV) category in the Building Materials Directory for names of manufacturers. Any sheathing

fasteners or factory-applied self-sealing lap tape. Transverse joints secured with metal fasteners or with butt tape

kg/m³) concrete wall. Floor may also be constructed of any min 6 in. (152 mm) thick UL Classified hollow-core **Precast**

Max diam of opening in floor constructed of hollow-core precast concrete units is 7 in. (178 mm).

A. Steel Pipe — Nom 24 in. (610 mm) diam (or smaller) Schedule 10 (or heavier) steel pipe.

C. Copper Tubing — Nom 6 in. (152 mm) diam (or smaller) Type M (or heavier) copper tubing

D. **Copper Pipe** — Nom 6 in. (152 mm) diam (or smaller) Regular (or heavier) copper pipe.

B. Iron Pipe — Nom 24 in. (610 mm) diam (or smaller) cast or ductile iron pipe.

pipe diam is less than 2 in. (51 mm), annular space may be min 1/4 in. (6 mm).

Sleeve cast or grouted into floor or wall assembly, flush with floor or wall surfaces.

Pipe Coverings — One of the following types of pipe coverings shall be used:

25 or less and a Smoke Developed Index of 50 or less may be used.

AWG steel wire spaced max 12 in. (305 mm) OC.

Smoke Developed Index of 50 or less may be used.

5. Firestop System — The firestop system shall consist of the following:

material to be installed to min 1 in. (25 mm) thickness.

4) UL C-AJ-5087

of wall to accommodate the required thickness of fill material (Item 5B).

SPECIFIED TECHNOLOGIES INC - SpecSeal Series SSS Sealant or SpecSeal LCI Sealant

F Rating - 2 Hr

FT Rating - 1 Hr

FH Rating - 2 Hr

CAN/ULC S115

Rating At Ambient - Less Than 1 CFM/sq ft

L Rating At 400 F - Less Than 1 CFM/sq ft

Section A-A

ANSI/UL1479 (ASTM E814)

L Rating At Ambient - Less Than 1 CFM/sq ft

L Rating At 400 F - Less Than 1 CFM/sg ft

F Rating - 2 Hr

Rating - 1 Hr

AND MEASUREMENTS IN THE FIELD PRIOR TO STARTING CONSTRUCTION.

REFER TO GENERAL NOTES ON SHEET A0-00 FOR INFORMATION NOT

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Tri-City Medical Center

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SFEIR ARCHITECTS ARCHITECT: 5151 SHOREHAM PL SUITE 265 SAN DIEGO, CALIFORNIA 92122 TEL(619)299-3917

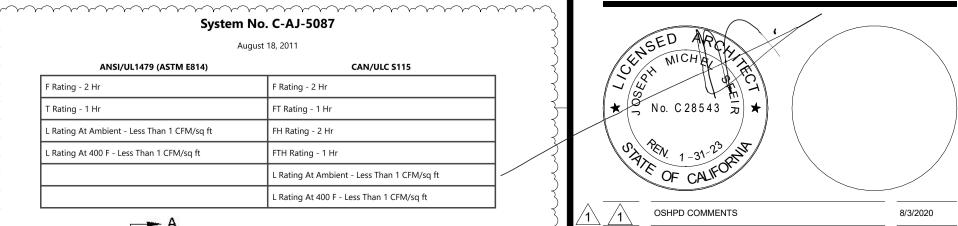
STRUCTURAL: MIYAMOTO INTERNATIONAL, INC. 5550 BALTIMORE DRIVE, SUITE 100 /6 LA MESA, CA 91942 TEL(858)457-3001

MECHANICAL SC ENGINEERS, INC. 17075 VIA DEL CAMPO SAN DIEGO, CALIFRONIA 92127 TEL(858)946-0333

ELECTRICAL: AG DESIGN, INC. 171 S. ANITA DR. SUITE 111 ORANGE, CALIFRONIA 92868 TEL(714)769-9900 EXT. 201

MRI SHIELDING CORPORATION SHIELDING: 3554 BUISNESS PARK DR., SUITE B COSTA MESA, CA 92626 TEL(714)545-7700

INTERIORS: **ISLEY DESIGN & PLANNING** 1982 PALSERO AVENUE ESCONDIDO, CA 92029 TEL(760)484-0455



DESIGN CHANGES 8/10/2020 OSHPD COMMENTS 10/2/2020 11/24/2020

DATE:

OSHPD #: S200813-37-00-ACD0001

DESCRIPTION

FIRE RATED **ASSEMBLIES**

TCMC MRI

PROJECT # SHEET NUMBER 01907.01 DRAWN BY CHECKED BY

3/11/2020

100% - CONSTRUCTION DOCUMENTS

PER TITLE

GENERAL NOTES:

1. THE GENERAL CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS AND MEASUREMENTS IN THE FIELD PRIOR TO STARTING CONSTRUCTION.

G. Pipe and Equipment Covering Materials* — Nom 2 to 3 in. (51 to 76 mm) thick hollow cylindrical calcium silicate

(min 14 pcf or 224 kg/m3) units sized to the outside diam of the pipe or tube. Pipe insulation secured with stainless

steel bands or min 8 AWG stainless steel wire spaced max 12 in. (305 mm) OC. When Item 3G is used, T Rating is 2

A. Polyvinyl Chloride (PVC) Pipe — Nom 2 in. (51 mm) diam (or smaller) solid or cellular core Schedule 40 PVC pipe

B. Chlorinated Polyvinyl Chloride (CPVC) Pipe — Nom 2 in. (51 mm) diam (or smaller) SDR13.5 CPVC pipe for use in

C. Rigid Nonmetallic Conduit+ — Nom 2 in. (51 mm) diam (or smaller) Schedule 40 PVC conduit installed in

D. Electrical Nonmetallic Tubing (ENT) + — Nom 2 in. (51 mm) diam (or smaller) corrugated wall ENT formed of

E. Optical Fiber Raceway+ — Nom 2 in. (51 mm) diam (or smaller) optical fibner raceway (innerduct). Optical fiber

A. Max 1/C - 1000 kcmil cable with polyvinyl chloride (PVC) or cross-linked polyethylene (XLPE) insulation and jacket.

5. Cables — Nom 4 in. (102 mm) diam (or smaller) tight bundle of cables. Annulus between cable bundle and periphery of

opening is min 0 in. (point contact) to max 24 in. (609 mm). Separation between cable bundle and metallic or nonmetallic

4. **Nonmetallic Penetrants** — One or more nonmetallic pipes, conduits or tubes to be installed within the opening. Annulus

between penetrants and periphery of opening is min 1 in. (25 mm) to max 24 in. (609 mm). Separation between metallic and

nonmetallic penetrants is min 6 in. (152 mm). Penetrants rigidly supported on both sides of floor or wall assembly. The

following types and sizes of nonmetallic pipes, conduits or tubing may be used:

closed (process or supply) piping systems.

accordance with the National Electrical Code (NFPA 70).

When Item 4 is used, the T Rating of the firestop system is 2 hr.

B. Max 7/C - No. 12 AWG cable with PVC-nylon insulation and PVC jacket.

D. Max RG/U coaxial cables with fluorinated ethylene jacket and insulation.

E. Multiple fiber optic cables with PVC insulation.

When cables are used, T Rating is 1/2 hr.

When busway is used, the T Rating is 1/4 hr.

may be installed with each AC line set.

Rating is 0 hr.

AFC CABLE SYSTEMS INC

for use in closed (process or supply) or vented (drain, waste or vent) piping systems.

polyvinyl chloride (PVC) installed in accordance with the National Electrical Code (NFPA 70).

raceway installed in accordance with Article 770 of the National Electrical Code (NFPA 70).

C. Max 400 pair - No. 24 AWG copper conductor telephone cable with PVC insulation and jacket.

F. Through Penetrating Products* — Max 4/C with ground No. 2/O AWG Metal-Clad Cable+.

6. Cable Tray — Max 30 in. (762 mm) wide by max 6 in. (152 mm) deep open ladder cable tray with channel-shaped side rails formed from min 0.060 in. (1.5 mm) thick (No. 16 MSG) galv steel or min 0.060 in. (1.5 mm) thick aluminum with rungs spaced

max 9 in. (229 mm) OC. A max of two cable trays may be installed within the opening with a min vertical separation of 4 in.

Separation between cable tray and metallic or nonmetallic penetrants is min 6 in. (152 mm). Cable trays to be rigidly

percent of the cross-sectional area of the cable tray based on a max 3 in. (76 mm) cable loading depth within tray. Any combination of the cable types specified in Item 5 may be used. When cable tray is used, T Rating is 1/2 hr.

7. Busway+ — Nom 19 in. (483 mm) wide (or smaller) by 6 in. (152 mm) deep "I" shaped aluminum enclosure containing factory-mounted copper bars rated for 600 V, 5000 A or max 26 in. (660 mm) wide by max 6 in. (152 mm) deep "I" shaped aluminum enclosure containing factory-mounted aluminum bars rated for 600 V, 4000 A. A max of two busways may be installed within the opening with a min separation of 1 in. (25 mm) to max 24 in. (609 mm). The annular space between the busway and the periphery of the opening shall be a min 0 in. (point contact) to a max 24 in. (609 mm). Busways spaced min 6 in. (152 mm) from all other penetrants. Busway to be rigidly supported on both sides of floor or wall assembly. The busway shall bear the UL Listing Mark and shall be installed in accordance with all provisions of the National Electrical Code, NFPA 70.

(102 mm) and a min horizontal separation of 1/4 in. (6 mm) between trays. Max vertical or horizontal separation is 24 in. (609 mm). Annulus between the cable tray and the periphery of the opening is min 0 in. (point contact) to max 24 in. (609 mm).

supported on both sides of the floor or wall assembly. Aggregate cross-sectional area of cables in cable tray not to exceed 40

2. REFER TO GENERAL NOTES ON SHEET A0-00 FOR INFORMATION NOT INDICATED ON THIS SHEET.

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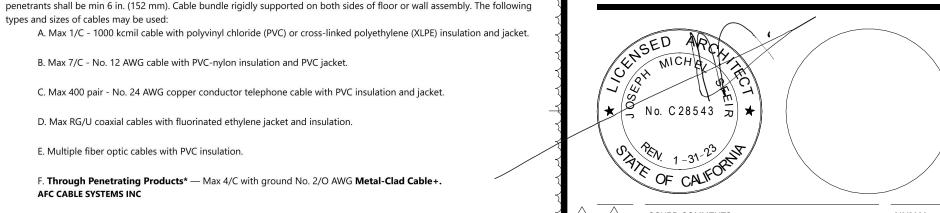
TEL(760)940-7709 ARCHITECT: SFEIR ARCHITECTS 5151 SHOREHAM PL SUITE 265 SAN DIEGO, CALIFORNIA 92122 TEL(619)299-3917

STRUCTURAL: MIYAMOTO INTERNATIONAL, INC. 5550 BÁLŤIMOŘĚ ĎŘIVĚ, ŠUĬTĚ 100 /6 LA MESA, CA 91942 TEL(858)457-3001 MECHANICAL SC ÉNGINÉERS, ÎNC. &PLUMBING: 17075 VIA DEL CAMPO SAN DIEGO, CALIFRONIA 92127

TEL(858)946-0333 ELECTRICAL: AG DESIGN, INC. 171 S. ANITA DR. SUITE 111 ORANGE, CALIFRONIA 92868 TEL(714)769-9900 EXT. 201

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OSHPD COMMENTS 8/3/2020 DESIGN CHANGES 8/10/2020 OSHPD COMMENTS 10/2/2020 11/24/2020 ACD 0001 DESIGN CHANGES

REV: DESCRIPTION:

OSHPD #: S200813-37-00-ACD0001

FIRE RATED

ASSEMBLIES

max 24 in. (609 mm). The AC line sets shall be spaced min 6 in. from uninsulated metallic penetrants and shall be rigidly supported on both sides of the floor or wall assembly. 8A. Through Penetrant — A max of two pipes or tubes to be installed in each AC line set. Of the two pipes or tubes, only one may have a nom diam greater than 1/2 in. (13 mm). The following types and sizes of through penetrants may be used: A. **Steel Pipe** — Nom 1 in. (25 mm) diam (or smaller) Schedule 5 (or heavier) steel pipe.

8. Air Conditioning (AC) Line Set — One or more AC line sets installed within opening. Each AC line set consists of two pipes

or tubes (Item 8A), tubing insulation (Item 8B) and a thermostat cable (Item 8C). The space between the AC line sets shall be

min 2 in. (51 mm). The space between the AC line sets and the periphery of the opening shall be min 0 in. (point contact) to

B. Iron Pipe — Nom 1 in. (25 mm) diam (or smaller) cast or ductile iron pipe.

C. **Copper Pipe** — Nom 1 in. (25 mm) diam (or smaller) Regular (or heavier) copper pipe.

D. Copper Tube — Nom 1 in. (25 mm) diam (or smaller) Type L (or heavier) copper tube.

8B. Tube Insulation — Plastics# — Nom 3/4 in. (19 mm) thick acrylonitrile butadiene/polyvinyl chloride (AB/PVC) flexible foam furnished in the form of tubing. The tube insulation may be installed on one max 3/4 in. (19 mm) diam pipe or tube in

each AC line set. The space between the insulated and uninsulated pipes or tubes within each AC line set shall be 0 in. (point See Plastics (QMFZ2) category in the Plastics Recognized Component Directory for names of manufacturers. Any Recognized Component

tube insulation meeting the above specifications and having a UL 94 Flammability Classification of 945VA may be used. 8C. Cable — One 4 pair No. 18 AWG (or smaller) thermostat cable with polyvinyl chloride (PVC) insulation and jacket materials

When Item 8 is used, the T Rating of the firestop system is 1/4 hr. 9. Steel Duct — (Not Shown) Nom 12 in. (305 mm) diameter (or smaller) No. 30 GA (or heavier) steel duct installed within opening when opening contains no cables or cable tray. A max of two steel ducts may be installed within the throughopening. Ducts to be spaced min 4 in. (102 mm) apart and min 8 in. (203 mm) from insulated penetrants and nonmetallic penetrants. Annulus between the steel duct and the periphery of the opening shall be min 0 in. (point contact) to max 24 in. (0 to 609 mm). Steel ducts to be rigidly supported on both sides of floor or wall assembly. When steel duct is used, the T

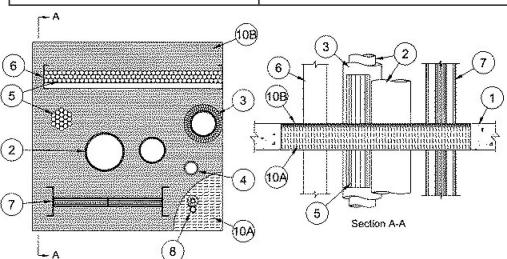
10. **Firestop System** — The firestop system shall consist of the following items: A. Packing Material — Min 4 in. (102 mm) thickness of min 4 pcf (64 kg/m³) mineral wool batt insulation tightly packed into opening. Packing material recessed from top surface of floor assembly or from both surfaces of wall or precast concrete units to accommodate the required thickness of fill material.

B. Fill, Void or Cavity Materials* — Sealant — Min 1/2 in. (13 mm) depth of fill material applied within the annulus, flush with top surface of floor assembly or with both surfaces of the wall assembly. Additional fill material forced into interstices of grouped cables and grouped cables within cable trays. At point contact location between through penetrant and concrete, a min 3/8 in. (9.6 mm) diam of fill material shall be applied at through penetrant/concrete interface on top surface of floor or both surfaces of the wall.

SPECIFIED TECHNOLOGIES INC — SpecSeal Series SSS Sealant or SpecSeal LCI Sealant

System No. C-AJ-8113

ANSI/UL1479 (ASTM E814) CAN/ULC S115 F Rating - 2 Hr F Rating - 2 Hr T Rating - 0, 1/4, 1/2, 3/4 and 2 Hr (See Items 2 through | FT Rating - 0, 1/4, 1/2, 3/4 and 2 Hr (See Items 2 through FH Rating - 2 Hr FTH Rating - 0, 1/4, 1/2, 3/4 and 2 Hr (See Items 2 through



1. **Floor or Wall Assembly —** Min 4-1/2 in. (114 mm) thick reinforced lightweight or normal weight (100-150 pcf or 1600-2400 kg/m³) concrete. Wall may also be constructed of any UL Classified Concrete Blocks*. Max area of opening is 1024 sq in. (0.66 m²) with a max height of 32 in. (813 mm) when installed in a wall or a max width of 32 in. (813 mm) when installed in a

See **Concrete Blocks** (CAZT) category in the Fire Resistance Directory for names of manufacturers.

A. Steel Pipe — Nom 12 in. (305 mm) diam (or smaller) Schedule 10 (or heavier) steel pipe.

Penetrants — One or more metallic pipes, conduits or tubes to be installed within the opening. Annulus betwee penetrants is min 0 in. (point contact) to max 24 in. (609 mm). Annulus between penetrants and periphery of opening is 0 in. (point contact) to max 24 in. (609 mm). Penetrants rigidly supported on both sides of floor or wall assembly. The following types and sizes of metallic pipes, conduits or tubing may be used:

B. Iron Pipe — Nom 12 in. (305 mm) diam (or smaller) cast or ductile iron pipe.

C. Conduit — Nom 6 in. (152 mm) diam (or smaller) rigid steel conduit, nom 4 in. (102 mm) diam (or smaller) electrical metallic tubing (EMT), or nom 4 in. (102 mm) diam (or smaller) steel Flexible Metal Conduit#.

D. Copper Pipe or Tube — Nom 6 in. (152 mm) diam (or smaller) Regular (or heavier) copper pipe or Type M (or heavier) copper tube. May Diam of Through T Rating

Penetrant	Penetrant, in. (mm)	I Rating, Hr
el or Iron Pipe, Conduit	12 (305)	0
pper Pipe or Tube	6 (152)	0
el or Iron Pipe, Conduit or EMT	4 (102)	1/4
el or Iron Pipe, Conduit or EMT	2 (51)	1/2
el or Iron Pipe, Conduit or EMT	1 (25)	3/4

3. **Pipe Insulation** — One or more max 4 in. (102 mm) metallic pipes or tubes may be insulated. Annulus between penetrants is min 0 in. (point contact) to max 24 in. (609 mm). Annulus between penetrants and periphery of opening is 0 in. (point contact) to max 24 in. (609 mm). The annular space between metallic pipes, conduit and tubes and insulated pipes and tubes shall be a min 1/2 in. (13 mm) to max 24 in. (609 mm). Penetrants rigidly supported on both sides of floor or wall assembly. The following types of pipe insulation may be used:

A. Pipe and Equipment Covering Materials* — Nom 1 in. (25 mm) thick hollow cylindrical heavy density (min 3.5 pcf or 56 kg/m³) glass fiber units jacketed on the outside with an all service jacket. Longitudinal joints sealed with metal fasteners or factory-applied self-sealing lap tape. Transverse joints secured with metal fasteners or with butt tape supplied with the product. When Item 3A is used, T Rating is 3/4 Hr.

B. Pipe Covering Materials* — Nom 2 in. (51 mm) thick unfaced mineral fiber pipe insulation having a nom density of

See Pipe and Equipment Covering Materials (BRGU) category in the Building Materials Directory for names of manufacturers. Any pipe covering meeting the above specifications and bearing the UL Classification Marking with a Flame Spread Index of 25 or less and a Smoke Developed Index of 50 or less may be used.

 $3.5 \text{ pcf } (56 \text{ kg/m}^3)$ (or heavier) and sized to the outside diam of the pipe or tube. Pipe insulation secured with min 8 AWG steel wire spaced max 12 in. (305 mm) OC. When Item 3B is used, T Rating is 2 Hr. INDUSTRIAL INSULATION GROUP L L C — High Temperature Pipe Insulation 1200, High Temperature Pipe Insulation BWT and High Temperature Pipe Insulation Thermaloc

C. Sheathing Material* — Use in conjunction with Item 3B. Foil-scrim-kraft or all service jacket material shall be wrapped around the outer circumference of the pipe insulation (Item 3B) with the kraft side exposed. Longitudinal and transverse joints sealed with metal fasteners or butt tape. See Sheathing Materials (BVDV) category in the Building Materials Directory for names of manufacturers. Any sheathing material

meeting the above specifications and bearing the UL Classification Marking with a Flame Spread Index of 25 or less and a Smoke

D. Tube Insulation-Plastics## — Nom 3/4 in. (19 mm) thick acrylonitrile butadiene/polyvinyl chloride (AB/PVC) flexible foam furnished in the form of tubing. When Item 3D is used, T Rating is 1/2 Hr. See **Plastics** (QMFZ2) category in the Plastics Recognized Component Directory for names of manufacturers. Any Recognized Component tube insulation meeting the above specifications and having a UL 94 Flammability Classification of 94-5VA may be

E. Pipe Covering Materials* — Cellular Glass Insulation — Nom 2 to 3 in. (51 to 76 mm) thick cellular glass units sized to the outside diam of the pipe or tube and supplied in nom 24 in. (610 mm) long half sections or nom 18 in.(457 mm) long segments. Pipe insulation installed on pipe in accordance with the manufacturer's instructions. When Item 3E is used, T Rating is 2 Hr.

F. Metal Jacket — Used in conjunction with Item 3E. Min 12 in. (305 mm) long jacket formed from min 0.010 in. (0.25 mm) thick aluminum sheet cut to wrap tightly around the pipe insulation with a min 2 in. (51 mm) lap and secured using bands and seals of a similar material or min No. 18 AWG steel tie wire. Bands or steel tie wire to be located within 2 in. (51 mm) of each end of the jacket and spaced max 10 in. (254 mm) OC. Jacket installed with edge abutting surface of fill material (Item 9A) on top surface of floor or both surfaces of wall. Metal jacket to be used in addition to any other jacketing material which may be required on the pipe covering.

1) UL C-AJ-8113

Developed Index of 50 or less may be used.

PROJECT TITLE:

PROJECT #:

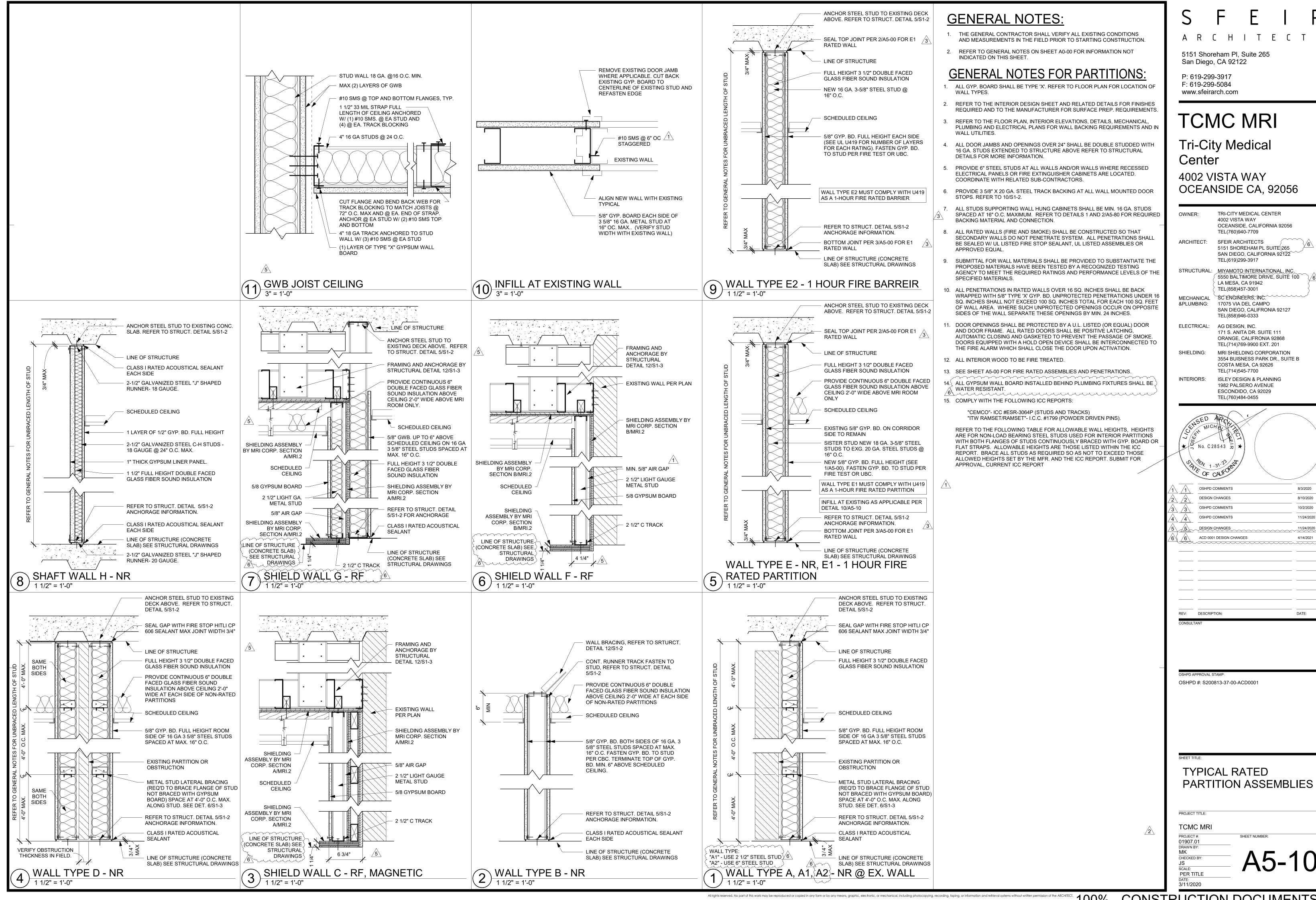
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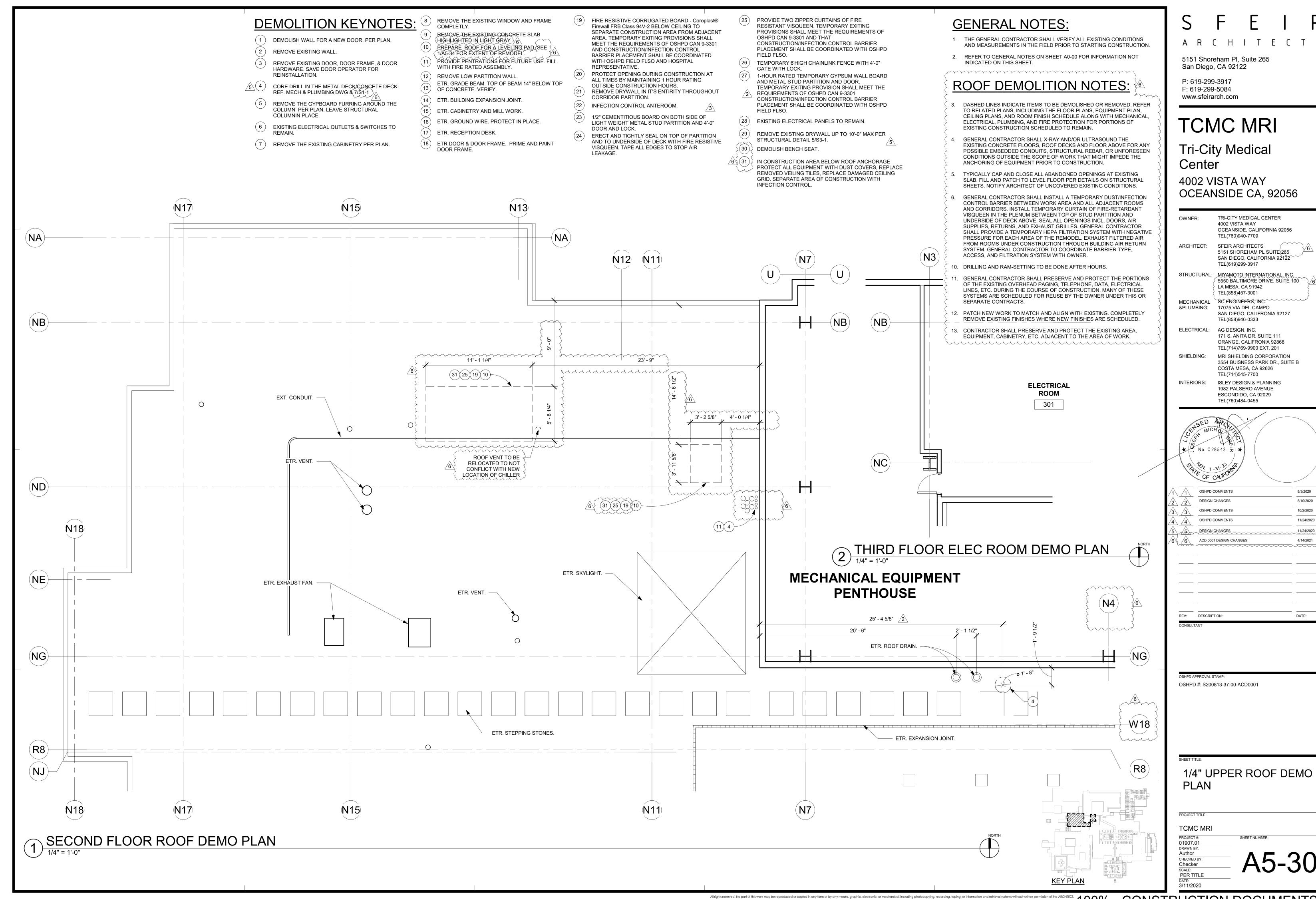
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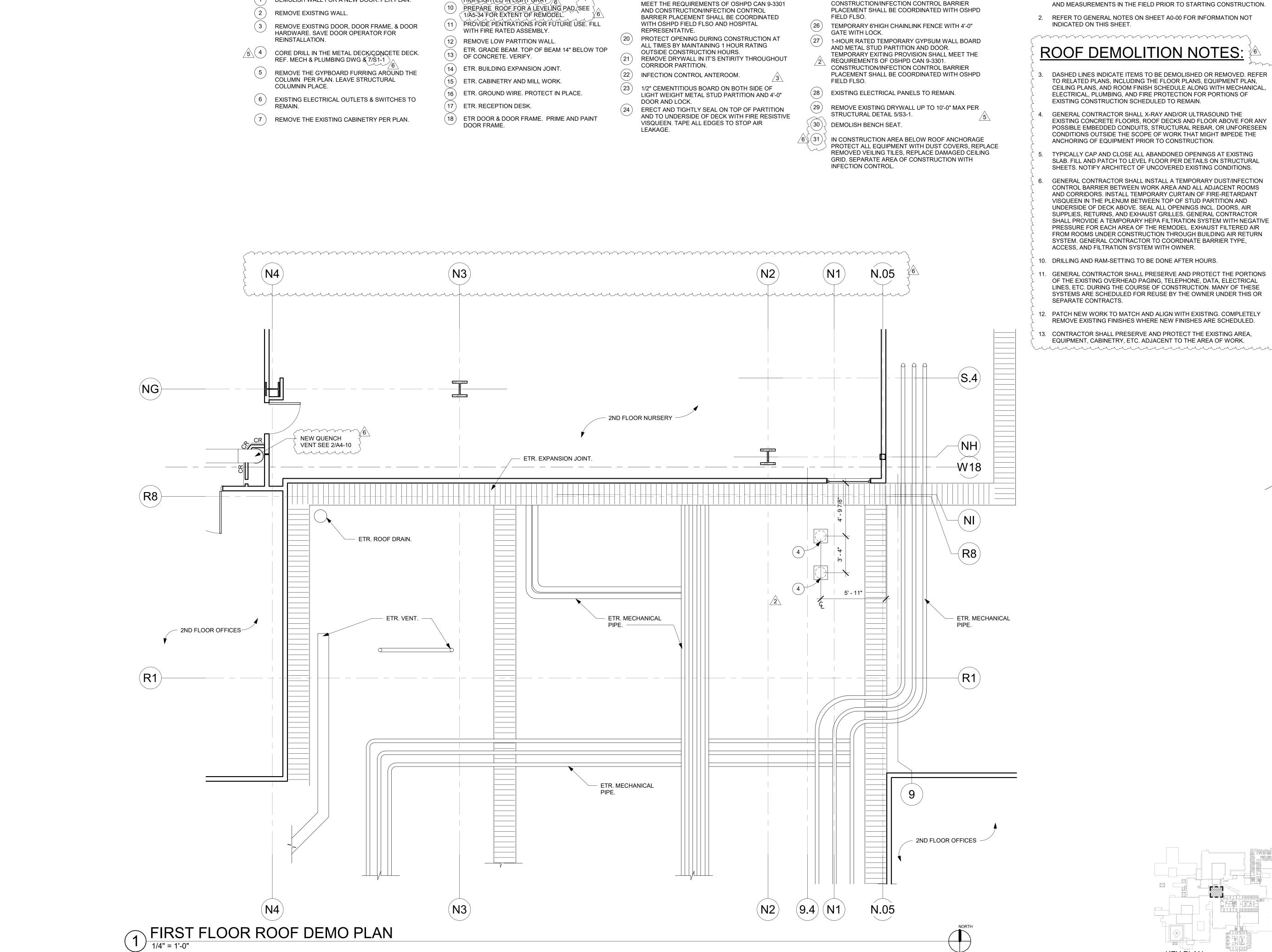
PER TITLE 3/11/2020

TCMC MRI



8/3/2020





REMOVE THE EXISTING WINDOW AND FRAME

REMOVE THE EXISTING CONCRETE SLAB

(HIGHLIGHTED IN LIGHT GRAY)

COMPLETLY.

DEMOLITION KEYNOTES:

DEMOLISH WALL FOR A NEW DOOR. PER PLAN.

GENERAL NOTES:

PROVIDE TWO ZIPPER CURTAINS OF FIRE

OSHPD CAN 9-3301 AND THAT

RESISTANT VISQUEEN. TEMPORARY EXITING

PROVISIONS SHALL MEET THE REQUIREMENTS OF

FIRE RESISTIVE CORRUGATED BOARD - Coroplast® Firewall FRB Class 94V-2 BELOW CEILING TO

SEPARATE CONSTRUCTION AREA FROM ADJACENT

AREA. TEMPORARY EXITING PROVISIONS SHALL

- 1. THE GENERAL CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS AND MEASUREMENTS IN THE FIELD PRIOR TO STARTING CONSTRUCTION.
- REFER TO GENERAL NOTES ON SHEET A0-00 FOR INFORMATION NOT

ROOF DEMOLITION NOTES:

- DASHED LINES INDICATE ITEMS TO BE DEMOLISHED OR REMOVED. REFER TO RELATED PLANS, INCLUDING THE FLOOR PLANS, EQUIPMENT PLAN, CEILING PLANS, AND ROOM FINISH SCHEDULE ALONG WITH MECHANICAL, ELECTRICAL, PLUMBING, AND FIRE PROTECTION FOR PORTIONS OF EXISTING CONSTRUCTION SCHEDULED TO REMAIN.
- GENERAL CONTRACTOR SHALL X-RAY AND/OR ULTRASOUND THE EXISTING CONCRETE FLOORS, ROOF DECKS AND FLOOR ABOVE FOR ANY POSSIBLE EMBEDDED CONDUITS, STRUCTURAL REBAR, OR UNFORESEEN CONDITIONS OUTSIDE THE SCOPE OF WORK THAT MIGHT IMPEDE THE ANCHORING OF EQUIPMENT PRIOR TO CONSTRUCTION.
- TYPICALLY CAP AND CLOSE ALL ABANDONED OPENINGS AT EXISTING SLAB. FILL AND PATCH TO LEVEL FLOOR PER DETAILS ON STRUCTURAL SHEETS. NOTIFY ARCHITECT OF UNCOVERED EXISTING CONDITIONS.
- GENERAL CONTRACTOR SHALL INSTALL A TEMPORARY DUST/INFECTION CONTROL BARRIER BETWEEN WORK AREA AND ALL ADJACENT ROOMS AND CORRIDORS. INSTALL TEMPORARY CURTAIN OF FIRE-RETARDANT VISQUEEN IN THE PLENUM BETWEEN TOP OF STUD PARTITION AND UNDERSIDE OF DECK ABOVE. SEAL ALL OPENINGS INCL. DOORS, AIR SUPPLIES, RETURNS, AND EXHAUST GRILLES. GENERAL CONTRACTOR SHALL PROVIDE A TEMPORARY HEPA FILTRATION SYSTEM WITH NEGATIVE PRESSURE FOR EACH AREA OF THE REMODEL. EXHAUST FILTERED AIR FROM ROOMS UNDER CONSTRUCTION THROUGH BUILDING AIR RETURN SYSTEM. GENERAL CONTRACTOR TO COORDINATE BARRIER TYPE, ACCESS, AND FILTRATION SYSTEM WITH OWNER.
- 10. DRILLING AND RAM-SETTING TO BE DONE AFTER HOURS.
- 11. GENERAL CONTRACTOR SHALL PRESERVE AND PROTECT THE PORTIONS OF THE EXISTING OVERHEAD PAGING, TELEPHONE, DATA, ELECTRICAL LINES, ETC. DURING THE COURSE OF CONSTRUCTION. MANY OF THESE SYSTEMS ARE SCHEDULED FOR REUSE BY THE OWNER UNDER THIS OR SEPARATE CONTRACTS.
- 12. PATCH NEW WORK TO MATCH AND ALIGN WITH EXISTING. COMPLETELY REMOVE EXISTING FINISHES WHERE NEW FINISHES ARE SCHEDULED.
- CONTRACTOR SHALL PRESERVE AND PROTECT THE EXISTING AREA, EQUIPMENT, CABINETRY, ETC. ADJACENT TO THE AREA OF WORK.

- INDICATED ON THIS SHEET.

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ARCHITECT: SFEIR ARCHITECTS 5151 SHOREHAM PL SUITE 265 SAN DIEGO, CALIFORNIA 92122 TEL(619)299-3917

STRUCTURAL: MIYAMOTO INTERNATIONAL, INC. Ś5550 BÁLŤIMORE DŘIVE, ŠUĬTĚ 100 🌂 🖯 LA MESA, CA 91942 TEL(858)457-3001 MECHANICAL SC ENGINEERS, INC.

17075 VIA DEL CAMPO

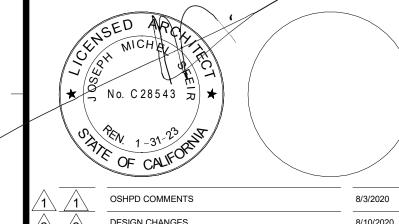
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ISLEY DESIGN & PLANNING INTERIORS: 1982 PALSERO AVENUE ESCONDIDO, CA 92029 TEL(760)484-0455



OSHPD #: S200813-37-00-ACD0001

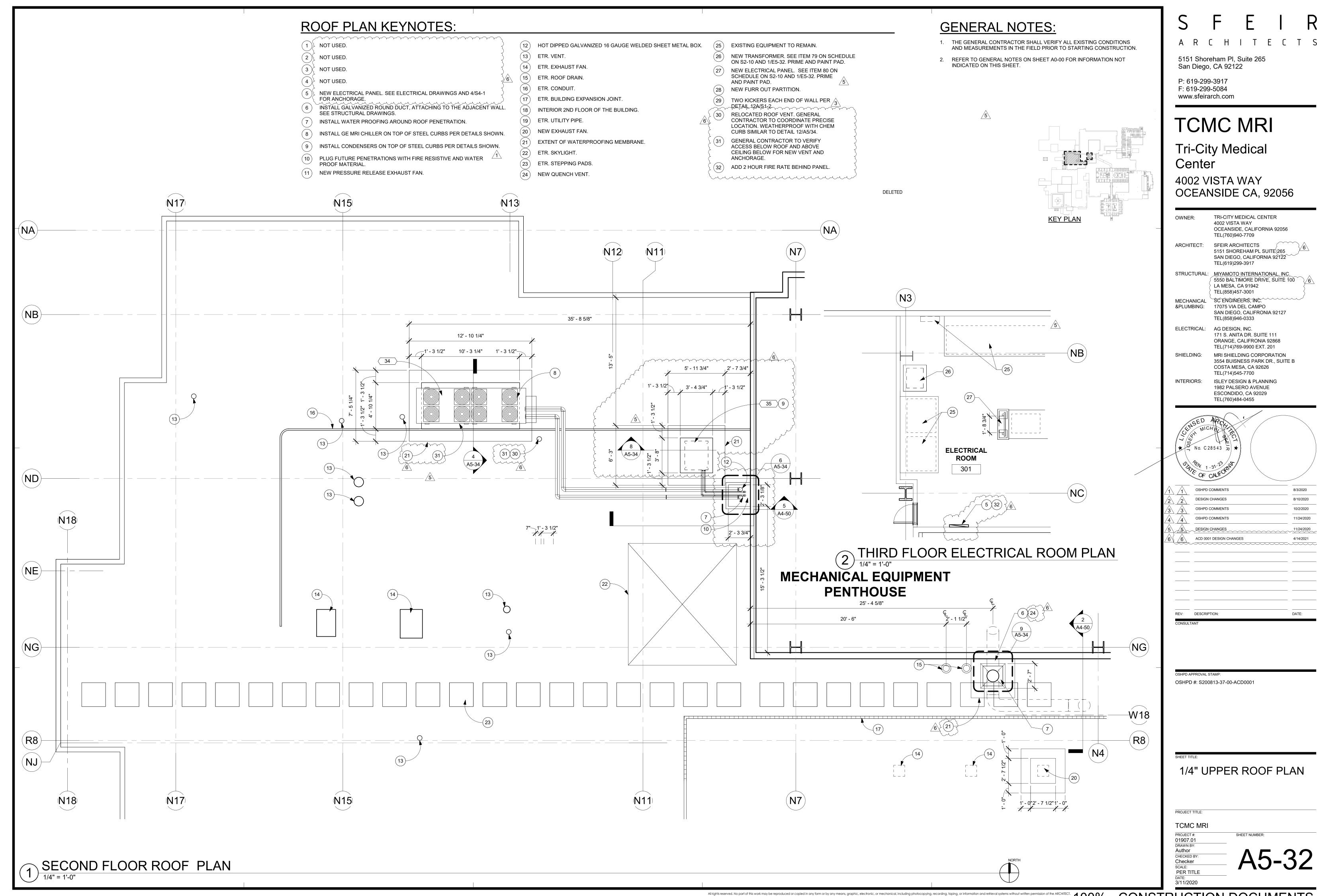
1/4" LOWER ROOF DEMO PLAN

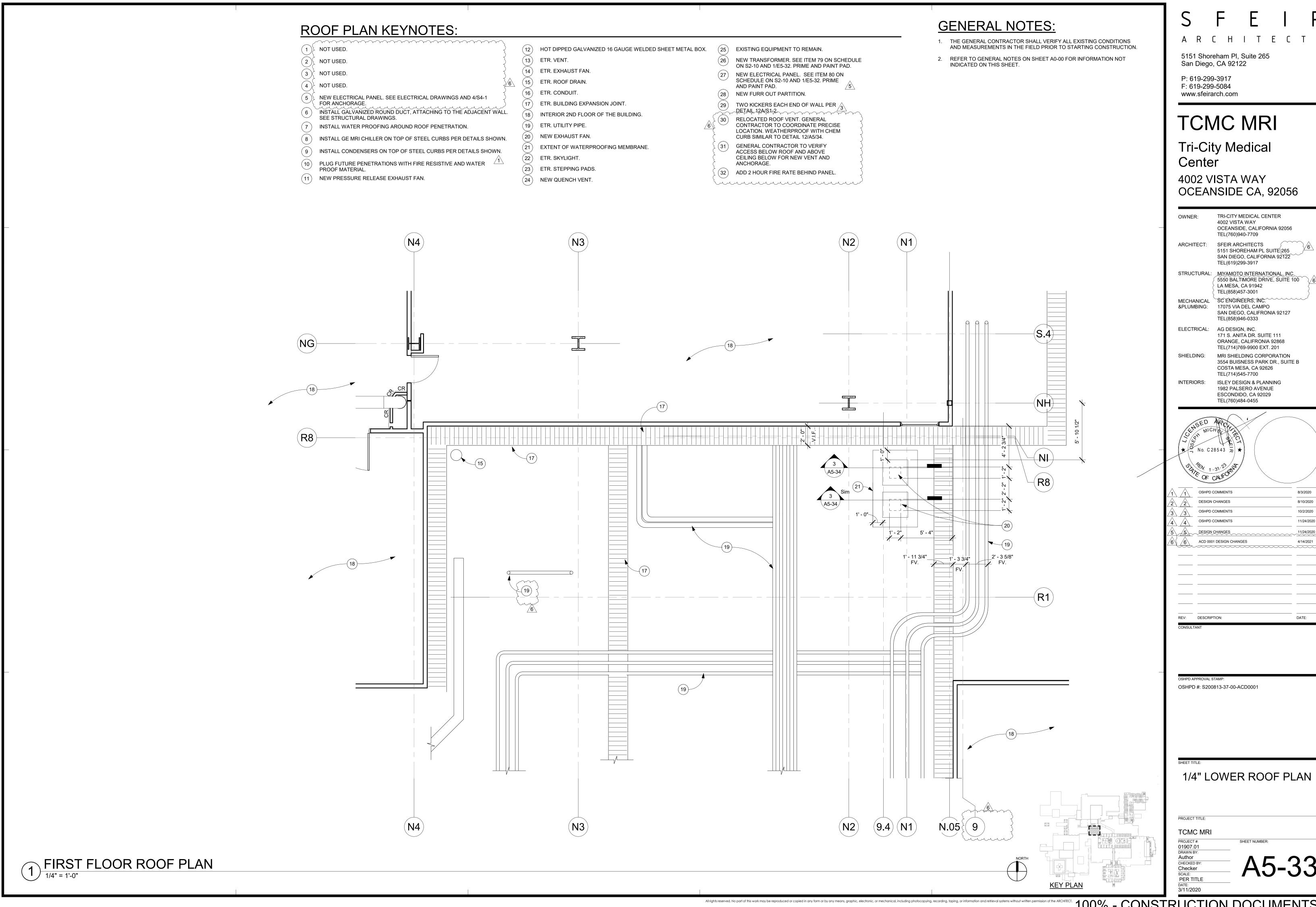
TCMC MR PROJECT #: 01907.01

PER TITLE

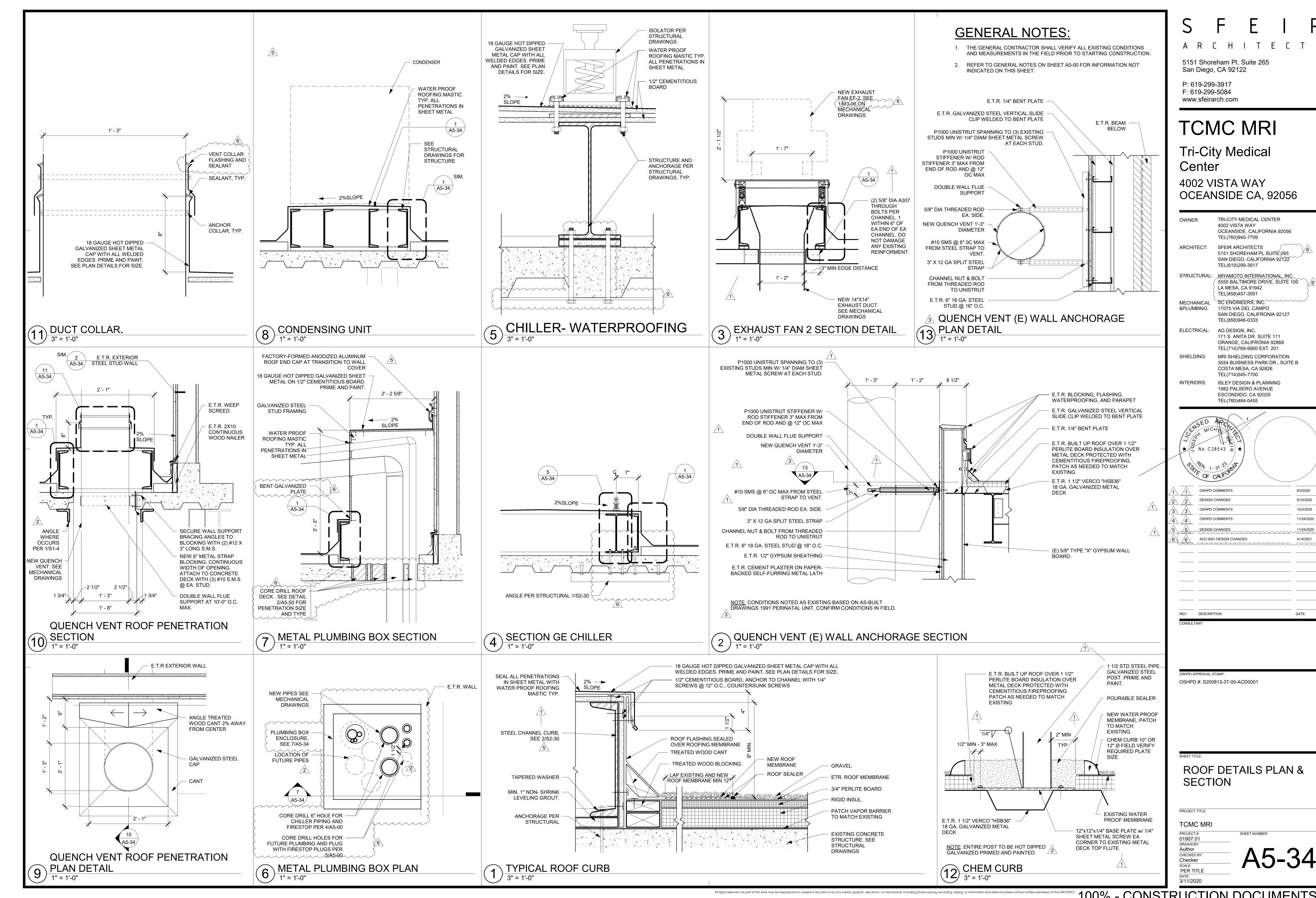
KEY PLAN

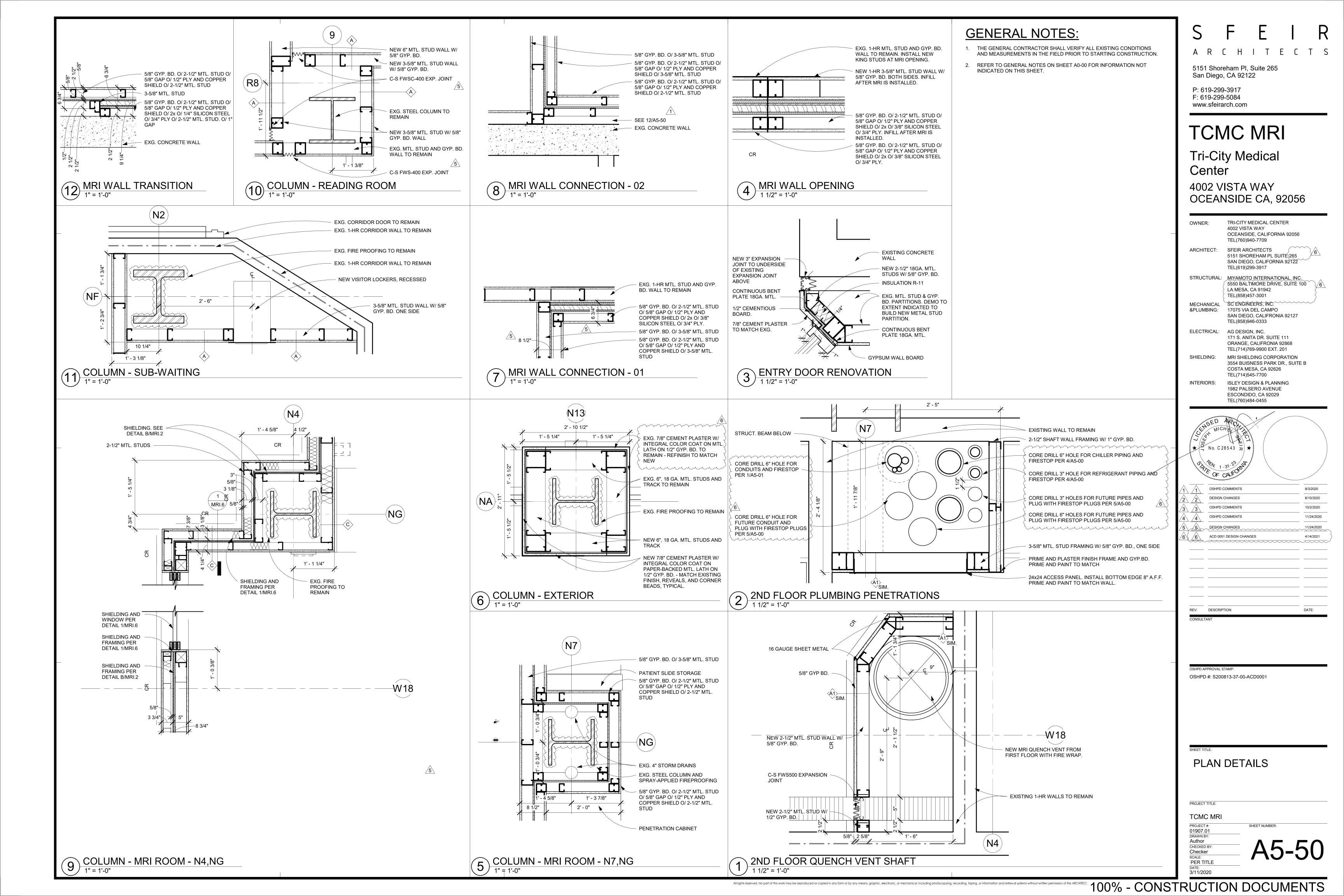
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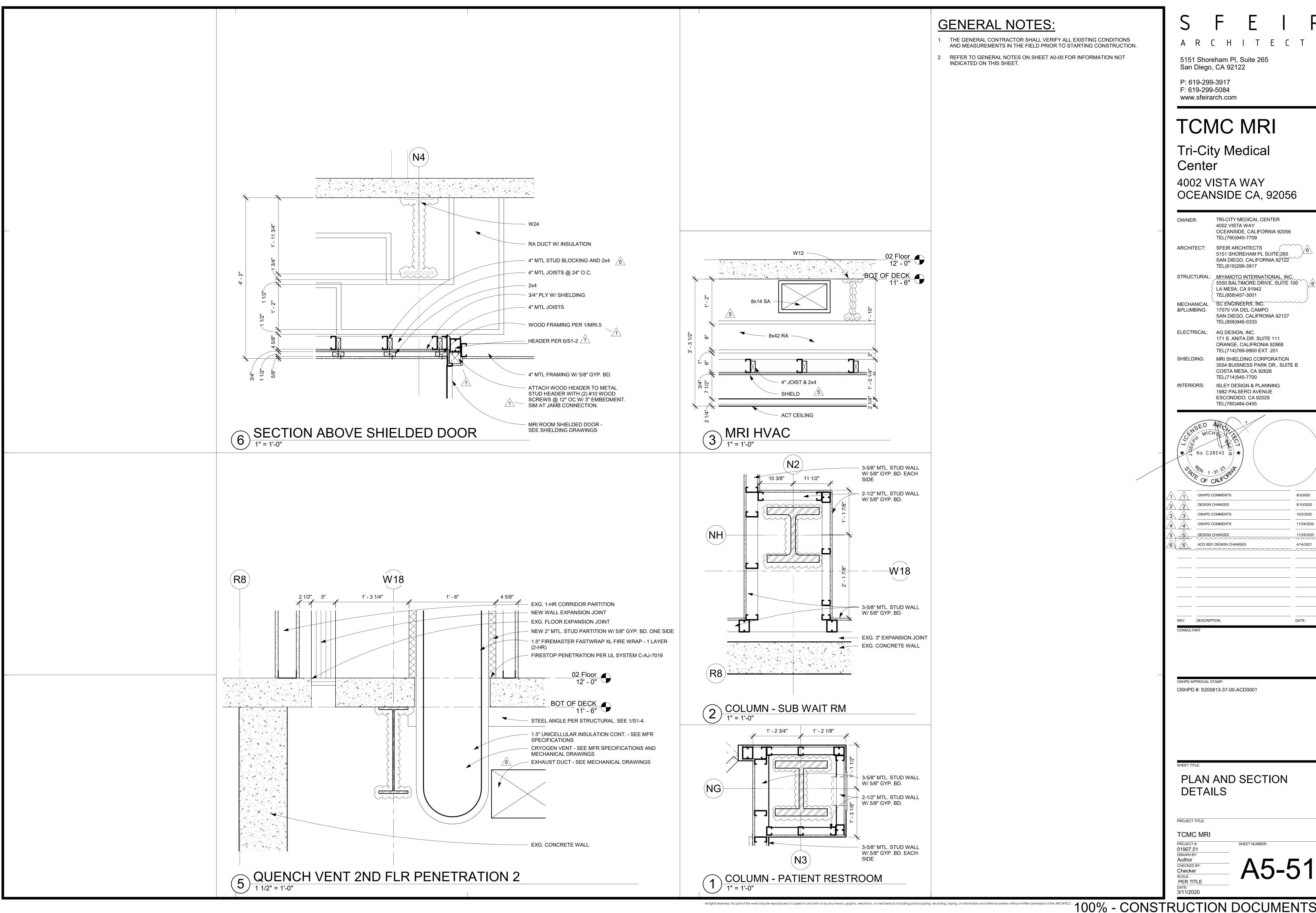




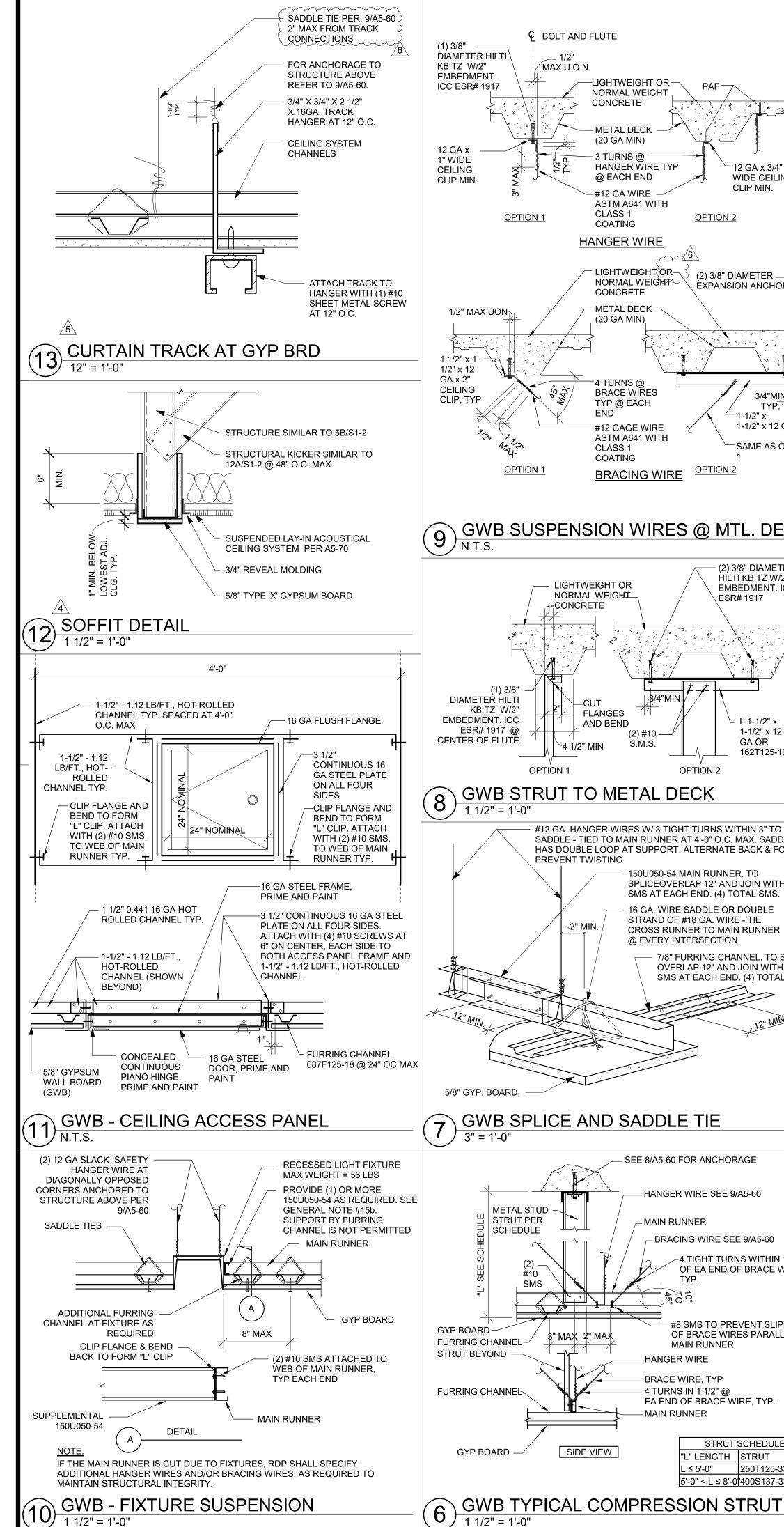


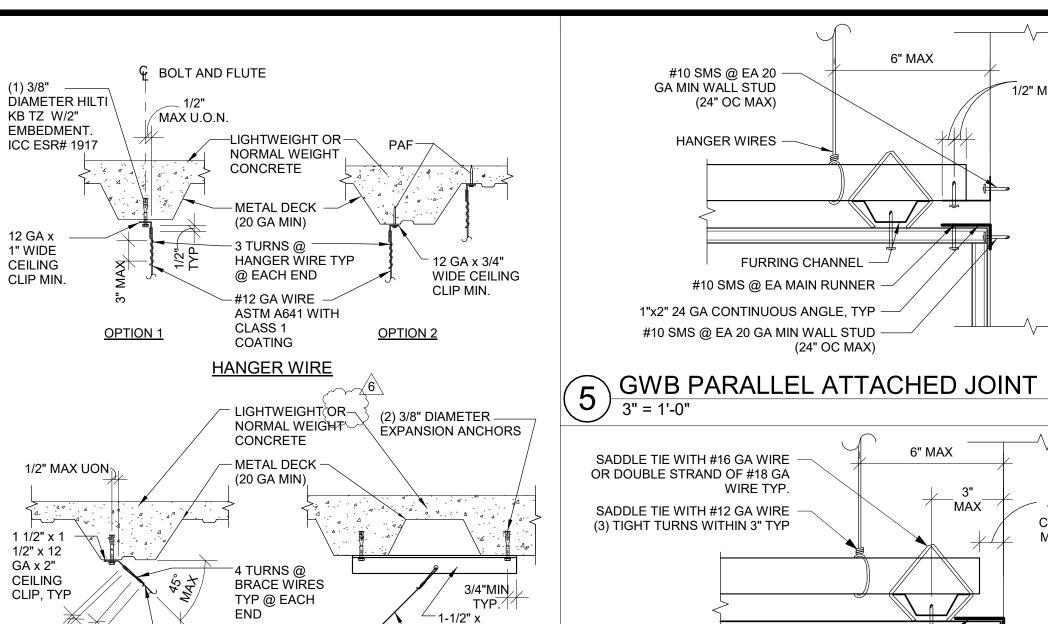






8/3/2020 8/10/2020 10/2/2020 11/24/2020





1-1/2" x 12 GA

- (2) 3/8" DIAMETER

HILTI KB TZ W/2"

ESR# 1917

EMBEDMENT. ICC

L 1-1/2" x

GA OR

1-1/2" x 12

162T125-16

SAME AS OPTION

9 GWB SUSPENSION WIRES @ MTL. DECK 4 GWB PERIMETER PARALLEL FREE JOINT 3" = 1'-0"

3/4"MIN

#12 GA. HANGER WIRES W/ 3 TIGHT TURNS WITHIN 3" TO BE

SADDLE - TIED TO MAIN RUNNER AT 4'-0" O.C. MAX. SADDLE TIE

HAS DOUBLE LOOP AT SUPPORT. ALTERNATE BACK & FORTH TO

150U050-54 MAIN RUNNER. TO

SMS AT EACH END. (4) TOTAL SMS.

16 GA. WIRE SADDLE OR DOUBLE

CROSS RUNNER TO MAIN RUNNER

STRAND OF #18 GA. WIRE - TIE

SEE 8/A5-60 FOR ANCHORAGE

MAIN RUNNER

HANGER WIRE

- MAIN RUNNER

BRACE WIRE, TYP

- 4 TURNS IN 1 1/2" @

HANGER WIRE SEE 9/A5-60

BRACING WIRE SEE 9/A5-60

MAIN RUNNER

EA END OF BRACE WIRE, TYP.

-4 TIGHT TURNS WITHIN 1 1/2"

OF EA END OF BRACE WIRE,

#8 SMS TO PREVENT SLIPPAGE

OF BRACE WIRES PARALLEL TO

STRUT SCHEDULE

L" LENGTH STRUT

L ≤ 5'-0" 250T125-33

5'-0" < L ≤ 8'-0|'400S137-33

@ EVERY INTERSECTION

SPLICEOVERLAP 12" AND JOIN WITH (2) #8

7/8" FURRING CHANNEL. TO SPLICE

OVERLAP 12" AND JOIN WITH (2) #8

SMS AT EACH END. (4) TOTAL SMS.

OPTION 2

LIGHTWEIGHT OR

NORMAL WEIGHT

FLANGES

AND BEND

4 1/2" MIN

PREVENT TWISTING

\2" MIN

OPTION 1

1"CONCRETE

KB TZ W/2"

1 1/2" = 1'-0"

METAL STUD -

SMS

3" MAX 2" MAX

SIDE VIEW

STRUT PER

SCHEDULE

GYP BOARD -

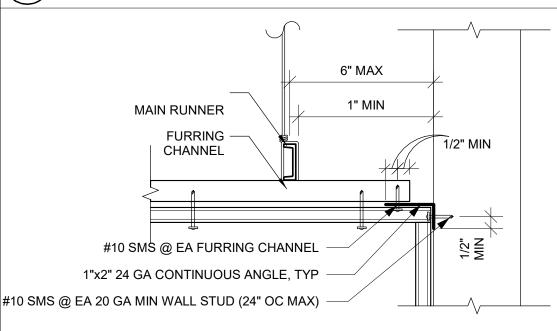
ESR# 1917 @

#12 GAGE WIRE

ASTM A641 WITH

CLASS 1

COATING



NO CONNECTION

BETWEEN ANGLE AND

FURRING CHANNEL AT

FOR CONNECTION TO WALL, SEE ATTACHED JOINT

6" MAX

6" MAX

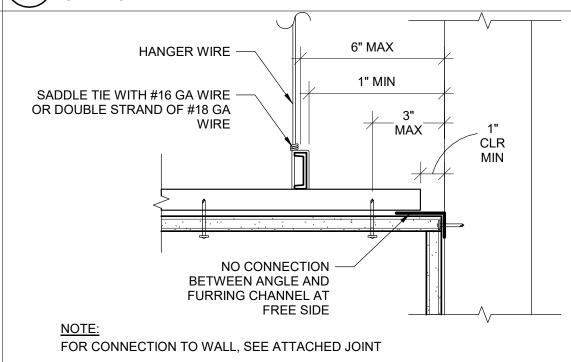
 $\mathsf{MAX}^{\mathsf{T}}$

CLR

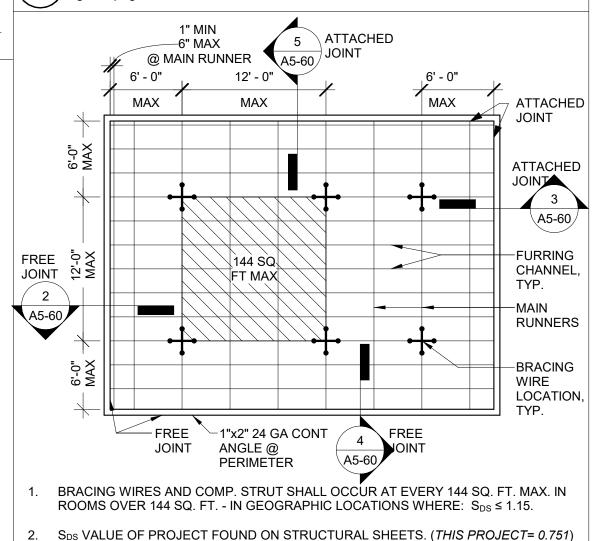
MIN

1/2" MIN

GWB PERPENDICULAR ATTACHED JOINT



√ GWB PERPENDICULAR FREE JOINT



1) GWB - CEILING PLAN

1/8" = 1'-0"

GENERAL NOTES:

THE GENERAL CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS AND MEASUREMENTS IN THE FIELD PRIOR TO STARTING CONSTRUCTION

REFER TO GENERAL NOTES ON SHEET A0-00 FOR INFORMATION NOT INDICATED ON THIS SHEET

GYP CEILING GENERAL NOTES

CONSTRUCTION, WORKMANSHIP AND MATERIAL SHALL CONFORM TO THE 2019 CALIFORNIA BUILDING STANDARDS CODE (CBSC 2019).

THE CONTRACTOR SHALL NOTIFY OSHPD AND THE REGISTERED DESIGN PROFESSIONAL (RDP) IN RESPONSIBLE CHARGE WHERE A CONFLICT OR DISCREPANCY OCCURS BETWEEN THE CONSTRUCTION DRAWINGS AND ANY OTHER PORTION OF THE CONSTRUCTION DOCUMENTS, FIELD CONDITIONS, OR WHERE ANY CONDITIONS ARISE NOT COVERED BY THESE DOCUMENTS WHEREIN WORK WILL NOT COMPLY WITH CODE REQUIREMENTS.

THE INTENT OF THE DRAWINGS AND SPECIFICATIONS IS TO CONSTRUCT THE HOSPITAL BUILDING IN ACCORDANCE WITH THE CALIFORNIA BUILDING STANDARD CODE, 2019 (CBSC 2019). SHOULD ANY CONDITION DEVELOP NOT COVERED BY THE APPROVED CONSTRUCTION DOCUMENTS WHEREIN THE WORK WILL NOT COMPLY WITH CBSC 2019. A CHANGE ORDER DETAILING AND SPECIFYING THE REQUIRED WORK SHALL BE SUBMITTED TO AND APPROVED BY OSHPD BEFORE PROCEEDING WITH THE WORK.

GALVANIZED METAL STUDS, TRACKS AND SHEET STEEL SHALL CONFORM TO ASTM A653-11 MATERIAL, OR OTHER EQUIVALENT ASTM LISTED MATERIALS IN SECTION A2.1 OF THE AISI SI00-07/S2-10: NORTH AMERICAN SPECIFICATION FOR THE DESIGN OF COLD-FORMED STEEL STRUCTURAL MEMBERS WITH SUPPLEMENT 2, DATED 2010, WITH A MINIMUM YIELD STRENGTH OF 33 KSI FOR 43 MIL (18 GAGE) AND LIGHTER AND MINIMUM YIELD STRENGTH OF 50 KSI FOR HEAVIER GAGES. METAL STUDS AND TRACKS SHALL BE OF SIZE, THICKNESS AND SECTION PROPERTIES SHOWN ON TABLES 1-1, 1-2 AND 1-3 OF THE AISI MANUAL, COLD-FORMED STEEL DESIGN, 2008 EDITION. THE RDP IN RESPONSIBLE CHARGE SHALL OBTAIN OSHPD APPROVAL FOR ANY

ELECTRICAL METALLIC TUBE (EMT) SHALL BE ANSI C80.3/UL 797 CARBON STEEL WITH G90 GALVANIZING. EMT SHALL HAVE MINIMUM YIELD STRENGTH OF (Fy =) 30 KSI AND MINIMUM ULTIMATE STRENGTH OF (Fu =) 48 KSI.

THESE SPECIFICATIONS REFER TO FASTENER TYPE AND SIZE BUT DO NOT SPECIFY OR ENDORSE A SPECIFIC MANUFACTURER. THE RDP IN RESPONSIBLE CHARGE SHALL SELECT A MANUFACTURER AND SELECTED FASTENER CAPACITIES SHALL MATCH OR EXCEED THE STRENGTHS LISTED HEREIN. THE FOLLOWING REQUIREMENTS SHALL ALSO BE MET

a. SHEET METAL SCREWS SHALL COMPLY WITH ASTM C 1513-18, ASME B18.6.4-98 (R2005) AND ICC-ES AC 118 AND SHALL BE SIZED ACCORDING TO MANUFACTURER SPECIFICATIONS. MINIMUM SIZE NO. 12 SCREW. PENETRATION OF SCREWS THROUGH JOINED MATERIAL SHALL NOT BE LESS THAN THREE EXPOSED THREADS

WELDING SHALL BE IN ACCORDANCE WITH AWS D1.3 USING E60XX SERIES ELECTRODES. FIELD WELDING SHALL HAVE SPECIAL INSPECTION IN ACCORDANCE WITH 2019 CBC SECTION 1705A.2

POST- INSTALLED ANCHORS (E.G. EXPANSION ANCHORS, SCREW ANCHORS AND POWER ACTUATED FASTENERS) SHALL HAVE SPECIAL INSPECTION AND TESTING IN ACCORDANCE WITH THE 2019 CBC SECTIONS 1705A.3 & 1910A. FOR QUALIFICATION, DESIGN AND USE OF POST-INSTALLED ANCHORS IN CONCRETE SEE THE 2019 CBC SECTIONS 1617A.1.19 AND 1910A. LISTING OF CURRENT ICC-ES EVALUATION REPORTS (OR REPORTS FROM OTHER TESTING AGENCIES ACCEPTABLE TO OSHPD) SHALL BE REQUIRED FOR FASTENER USED

POWER-ACTUATED FASTENERS (PAF), POWDER DRIVEN FASTENERS (PDF), POWER DRIVEN PINS (PDP) AND SHOT PINS ALL REPRESENT THE SAME FASTENER AND WILL HEREAFTER BE REFERRED TO AS POWER ACTUATED FASTENERS (PAF), PAF'S SHALL SATISFY THE CURRENT AC70-ACCEPTANCE CRITERIA FOR FASTENERS POWER-DRIVEN INTO CONCRETE, STEEL AND MASONRY ELEMENTS AND THE 2019 CBC SECTIONS 1910A. LISTING OF CURRENT ICC ES EVALUATION REPORTS (OR REPORTS FROM OTHER TESTING AGENCIES ACCEPTABLE TO OSHPD) SHALL BE REQUIRED FOR FASTENERS USED.

FOR PAF INSTALLED IN STEEL THE FASTENER PENETRATION SHALL HAVE THE ENTIRE POINTED END OF THE FASTENER DRIVEN THROUGH THE STEEL MEMBER, EXCEPT AS NOTED IN CURRENT REPORTS FROM TESTING AGENCIES ACCEPTABLE TO OSHPD.

a. BUILDING CODE: 2019 CALIFORNIA BUILDING CODE (2019 CBC) (0) ASCE 7-16 TO BE IN CONFORMANCE WITH 2019 CBC, AISI s100-16 TO BE IN CONFORMANCE WITH 2019 CBC., AND ASTM C754-11. FOR LOAD COMBINATIONS, ALLOWABLE STRESS DESIGN SHALL BE IN ACCORDANCE WITH 2019 CBC SECTION 1605A.3.1.

FASTENER CAPACITIES TABLES WERE DEVELOPED BASED ON ICC REPORTS BY SEVERAL MANUFACTURERS.

THE DESIGN ASSUMES THAT BUILDING ELEMENTS AND SUPPORTS, TO WHICH THE COMPONENTS ADDRESSED IN THIS DOCUMENT ARE ANCHORED, HAVE SUFFICIENT CAPACITY TO CARRY THE LOADS IMPOSED BY THE COMPONENTS IN COMBINATION WITH ALL OTHER LOADS. EVALUATION OF THE CAPACITY OF THESE SUPPORTING BUILDING ELEMENTS IS BEYOND THE SCOPE OF THESE TYPICAL DETAILS.

THIS SPECIFICATION IS LIMITED TO CEILING ASSEMBLIES HAVING MAXIMUM DEAD WEIGHT OF 4 PSF, INCLUDING LIGHTING FIXTURES (LUMINERIES) AND MECHANICAL SERVICES, EACH WEIGHING LESS THAN 56 LBS AND ATTACHED TO CEILING FRAMING SYSTEM. HEAVIER SYSTEM AND THOSE SUPPORTING LATERAL FORCES FROM PARTITION WALLS ARE OUTSIDE THE SCOPE OF THIS SPECIFICATION AND WILL REQUIRE PROJECT SPECIFIC

8. SEE RCPS FOR ALL FIRE RESISTENCE AND ACOUSTICAL RATINGS FOR ALL CEILING

"CEILING WIRE" SHALL CONFORM WITH GALVANIZED SOFT ANNEALED MILD STEEL WIRE AS DEFINED IN ASTM A641 (CLASS 1 COATING) WITH 70 KSI MINIMUM TENSILE STRENGTH: a. FOUR (4) TWISTS OF WIRE WITHIN 1.5" DEVELOPS THE ALLOWABLE LOAD

FOR THE WIRE.

THREE (3) TWISTS WITHIN 3" MAY BE USED TO DEVELOP THE MAXIMUM 50% OF ALLOWABLE LOAD.

10. SUSPENSION SYSTEM COMPONENTS SHALL COMPLY WITH ASTM C754: a. MAIN RUNNNERS SHALL CONSIST OF 16 GAGE 1-1/2" COLD ROLLED U-CHANNEL 150U050-54 SPACED AT 4'-0" OC MAX. MAIN RUNNERS SHALL BE SUPPORTED BY HANGER WIRES AT 4'-0" OC MAX AND WITHIN 6" FROM EA

b. FURRING CHANNEL SHALL CONSIST OF 25 GAGE 7/8" (HAT) FURRING CHANNELS (087F125-18) at 2'-0" OC MAX. FURRING CHANNELS SHALL BE SADDLE TIED TO MAIN RUNNERS WITH 16 GAGE TIE WIRE OR A DOUBLE STRAND OF 18 GAGE TIE WIRE.

MAIN RUNNERS SHALL BE SPLICED BY LAPPING IN ACCORDANCE WITH DETAIL d. FURRING CHANNELS SHALL BE SPLICED BY LAPPING IN ACCORDANCE

WITH DETAIL 7. MAIN RUNNERS AND FURRING CHANNELS ALONG WITH THEIR SPLICES, INTERSECTION CONNECTORS, AND EXPANSION DEVICES SHALL BE DESIGNED AND CONSTRUCTED TO CARRY A MEAN ULTIMATE TEST LOAD OF NOT LESS THAN 270 LBS. IN COMPRESSION & TENSION.

HANGER AND BRACING WIRES SHALL BE #12 GAGE (0.106" DIAMETER), SOFT ANNEALED, AND GALVANIZED STEEL WIRES WITH CLASS 1 COATING. THEY MAY BE USED FOR UP TO AND INCLUDING 4'-0"x 4'-0" GRID SPACING ALONG AND ATTACHED TO MAIN RUNNERS. SPLICES ARE NOT PERMITTED IN ANY HANGER WIRE WIRE HANGERS SHALL BE SADDLE-TIED AROUND MAIN RUNNERS SO AS

11. SUSPENSION SYSTEM INSTALLATION SHALL COMPLY WITH ASTM C754: a. CEILING GRID MEMBERS SHALL BE ATTACHED TO TWO (2) ADJACENT

TO PREVENT TURNING OR TWISING OF THE MEMBER.

WALLS. MAIN RUNNERS AND FURRING CHANNEL SHALL BE AT LEAST 1 INCH CLEAR OF OTHER WALL. IF WALLS RUN DIAGONAL TO THE CEILING GRID SYSTEM RUNNERS, ONE END OF MAIN RUNNER AND FURRING

SHOULD BE FREE WITH STANDARD CLEARANCES. THE WIDTH OF THE PERIMETER SUPPORTING CLOSURE ANGLE SHALL BE NOT LESS THAN TWO (2) INCHES. USE OF ANGLES WITH SMALLER WIDTHS IN CONJUNCTION WITH PERIMETER CLIPS SHALL REQUIRE AN ALTERNATE METHOD OF COMPLIANCE WITH ADEQUATE JUSTIFICATION AND ARE OUTSIDE THE SCOPE OF THIS SPECIFICATION.

EXPANSION JOINTS, SEISMIC SEPARATIONS, AND PENETRATIONS EXPANSION JOINTS SHALL BE PROVIDED IN THE CEILING AT INTERSECTIONS OF CORRIDORS AND AT JUNCTIONS OF CORRIDORS WITH LOBBIES OR OTHER SIMILAR AREAS

b. FOR CEILING AREAS EXCEEDING 2500 SQUARE FEET, A SEISMIC SEPARATION JOINT SHALL BE PROVIDED TO DIVIDE THE CEILING INTO AREAS NOT EXCEEDING 2500 SQ. FT.

c. PENETRATIONS THROUGH THE CEILING FOR SPRINKLER HEADS AND OTHER SIMILAR DEVICES THAT ARE NOT INTEGRALLY TIED TO THE CEILING SYSTEM IN THE LATERAL DIRECTION SHALL HAVE A TWO (2) INCH OVERSIZED RING, SLEEVE OR ADAPTER THROUGH THE CEILING TILE TO ALLOW FREE MOVEMENT OF ONE (1) INCH IN ALL HORIZONTAL DIRECTIONS. A FLEXIBLE SPRINKLER HOSE FITTING THAT CAN ACCOMMODATE ONE (1) INCH OF CEILING MOVEMENT SHALL BE PERMITTED TO BE USED IN LIEU OF THE OVERSIZED RING, SLEEVE OR ADAPTER. SUCH FLEXIBLE SPRINKLER HOSE SHALL BE ADEQUATELY SUPPORTED FROM SOFFIT SO AS NOT TO EXCEED THE MAXIMUM TRIBUTARY WEIGHT OF THE CEILING.

13. LATERAL FORCE BRACING: LATERAL FORCE BRACING IS REQUIRED IN ACCORDANCE WITH THIS SECTION FOR ALL CEILING AREAS, UON.

EXCEPTION: LATERAL FORCE BRACING MAY BE OMITTED FOR SUSPENDED ACOUSTICAL CEILING SYSTEMS WITH A CEILING AREA OF 144 SQ. FT. OR LESS. WHEN PERIMETER SUPPORT ARE PROVIDED AND PERIMETER WALLS ARE DESIGNED TO CARRY THE CEILING LATERAL FORCES.

a. PROVIDE LATERAL-FORCE BRACING ASSEMBLIES CONSISTING OF A STRUT AND FOUR (4) #12 GAGE BRACING WIRES ORIENTED 90 DEGREES FROM

b. LATERAL-FORCE BRACING ASSEMBLIES SHALL BE SPACED IN ACCORDANCE WITH DETAIL 1/A5-60 THROUGH 5/A5-60 AT THE EDGES OF ANY WALL OR CHANGE OF ELEVATION OF THE CEILING. c. THE SLOPE OF BRACING WIRES MAY BE FROM 10 TO 45 DEGREES BUT

MAY NOT EXCEED 45 DEGREES FROM THE PLANE OF THE CEILING AND WIRES SHALL BE TAUT d. STRUTS SHALL BE ADEQUATE TO RESIST THE VERTICAL COMPONENT

INDUCED BY THE BRACING WIRES, AND SHALL NOT BE MORE THAN 1 (HORIZONTAL) IN 6 (VERTICAL) OUT OF PLUMB

14. ATTACHMENT OF HANGER AND BRACING WIRES: a. FASTEN #12 HANGER WIRES WITH NOT LESS THAN THREE (3) TIGHT TURNS IN 3 INCHES. HANGER WIRE LOOPS SHALL BE TIGHTLY WRAPPED AND SHARPLY BENT TO PREVENT ANY VERTICAL MOVEMENT OR ROTATION OF THE MEMBER WITHIN THE LOOPS

b. FASTEN #12 BRACING WIRES WITH FOUR (4) TIGHT TURNS. MAKE ALL TIGHT TURNS WITHIN A DISTANCE OF 1 1/2" INCHES. HANGER OR BRACING WIRE ANCHORED TO THE STRUCTURE SHOULD BE INSTALLED IN SUCH A MANNER THAT THE DIRECTION OF THE ANCHOR

ALIGNS AS CLOSELY AS POSSIBLE WITH THE DIRECTION OF THE WIRE.

SEPARATE ALL CEILING HANGER AND BRACING WIRES AT LEAST SIX (6) INCHES FROM ALL UNBRACED DUCTS, PIPES CONDUITS, ETC. HANGER WIRES SHALL NOT BE ATTACHED TO OR BEND AROUND INTERFERING MATERIAL OR EQUIPMENT. PROVIDE TRAPEZE OR OTHER SUPPLEMETARY SUPPORT MEMBERS AT OBSTRUCTIONS TO TYPICAL HANGER SPACING. PROVIDE ADDITIONAL HANGERS, STRUTS OR BRACES

AS REQUIRED AT ALL CEILING BREAKS, SOFFITS, OR DISCONTINUOUS HANGER WIRES THAT ARE MORE THAN 1 (HORIZONTAL) IN 6 (VERTICAL)

OUT OF PLUMB SHALL REQUIRE PROJECT SPECIFIC DESIGN. WHEN DRILLED-IN CONCRETE ANCHORS OR PAF ARE USED IN REINFORCED CONCRETE FOR HANGER WIRES, 1 OUT OF 10 WIRE/ANCHOR ASSEMBLIES SHALL BE FIELD TESTED FOR 200 LBS. IN TENSION. WHEN DRILLED-IN CONCRETE ANCHORS ARE USED FOR BRACING WIRES, 1 OUT OF 2 WIRE/ ANCHOR ASSEMBLIES SHALL BE FIELD TESTED FOR 440 LBS. IN TENSION IN THE DIRECTION OF THE WIRE. PAF IN CONCRETE ARE NOT PERMITTED FOR BRACING WIRES.

15. CEILING FIXTURES, TERMINALS, AND DEVICES: a. ALL LIGHT FIXTURES, AIR TERMINALS/GRILLS, OR OTHER DEVICES (REFERRED TO ALL BY COMMON TERM FIXTURES HEREAFTER) SHALL BE

MOUNTED IN A MANNER THAT WILL NOT COMPROMISE CEILING PERFORMANCE. ALL FIXTURES SHALL BE SUPPORTED DIRECTLY BY MAIN RUNNERS OR BY SUPPLEMENTAL FRAMING WHICH IS SUPPORTED BY MAIN RUNNERS AND POSITIVELY ATTACHED WITH SCREWS OR OTHER APPROVED CONNECTORS

SURFACE MOUNTED FIXTURES SHALL BE ATTACHED TO A MAIN RUNNER

WITH A POSITIVE CLAMPING DEVICE MADE OF MATERIAL WITH A MINIMUM OF 14 GAGE, ROTATIONAL SPRING CLAMPS DO NOT COMPLY. ACCESS PANELS: ACCESS TO THE SPACE BETWEEN THE CEILING AND THE FLOOR OR ROOF ABOVE SHALL NOT BE ALLOWED. SMALL ACCESS PANELS FOR THE INSPECTION, ADJUSTMENT, OR REPAIR OF UTILITY SWITCHES, VALVES, SENSORS, ETC. MAY BE ALLOWED IF THE PANEL IS

LESS THAN 300 SQUARE INCHES. SUCH PANELS SHALL ALSO HAVE A

DO NOT CLIMB, WALK, OR CRAWL ON THE GYPSUM BOARD CEILING. DO NOT STORE OR STOW ANYTHING ON THE GYPSUM BOARD CEILING.

PERMANENT WARNING LABEL AS FOLLOWS:

e. ALL LIGHT FIXTURES WEIGHING LESS THAN OR EQUAL TO 10 LB. SHALL HAVE ONE NO. 12 GAUGE SAFETY WIRE CONNECTED FROM FIXURE HOUSING TO STRUCTURE ABOVE. IT IS NOT NECESSARY FOR THESE SAFETY WIRES TO BE TAUT.

f. ALL FIXTURES WEIGHING GREATER THAN 10 LB BUT LESS THAN OR EQUAL TO 56 LB. SHALL HAVE TWO NO. 12 GAUGE SAFETY WIRE CONNECTED FROM FIXURE HOUSING TO STRUCTURE ABOVE. IT IS NOT NECESSARY FOR THESE SAFETY WIRES TO BE TAUT.

ALL FIXTURES WEIGHING GREATER THAN 56 LB. SHALL BE SUPPORTED DIRECTLY FROM STRUCTURE ABOVE BY APPROVED HANGERS. h. PENDENT-HUNG FIXTURES SHALL BE SUPPORTED DIRECTLY FROM THE STRUCTURE ABOVE USING NO LESS THAN NO. 9-GAUGE WIRE OR AN APPROVED ALTERNATE SUPPORT. THE CEILING SUSPENSION SYSTEM

SHALL NOT PROVIDE ANY DIRECT SUPPORT ALL RECESSED OR DROP-IN FIXTURES SHALL BE SUPPORTED DIRECTLY FROM FIXTURE HOUSING TO THE STRUCTURE ABOVE WITH A MINIMUM OF TWO NO. 12 GAUGE WIRES LOCATED AT DIAGONALLY OPPOSITE CORNERS. LEVELLING OR POSITIONING OF FIXURES MAY BE PROVIDED BY CEILING GRID. FIXTURE SUPPORT WIRES MAY BE SLIGHTLY LOOSE TO ALLOW THE FIXTURE TO SEAT IN THE GRID SYSTEM. FIXTURES SHALL NOT BE SUPPORTED FROM MAIN RUNNERS OR FURRING CHANNELS IF THE WEIGHT OF THE FIXTURES CAUSES TOTAL DEAD LOAD TO EXCEED THE DEFLECTION CAPABILITY OF THE CEILING SUSPENSION SYSTEM.

AND DESIGN NUMBER FOR RATED CEILING ASSEMBLIES FROM AN APPROVED TESTING AGENCY. THE COMPONENTS AND INSTALLATION DETAILS SHALL CONFORM IN EVERY RESPECT WITH THE LISTED DETAIL AND NUMBER. DETAILS SHALL CLEARLY DEPICT ALL COMPONENTS, INCLUDING INSULATION MATERIALS FRAMING AND ATTACHMENT OF THE DESIGN SO THAT THE ASSEMBLY CAN BE CONSTRUCTED AND INSPECTED ACCORDINGLY. POP RIVETS, SCREWS, OR OTHER ATTACHMENTS ARE NOT ACCEPTABLE UNLESS SPECIFICALLY DETAILED ON THE DRAWINGS AND APPROVED BY OSHPD.

GYPSUM BOARD INSTALLATION SHALL COMPLY WITH ASTM C840-11: a. GYPSUM BOARD SHALL CONSIST OF SINGLE-PLY ." OR 5/8" THICK IN ACCORDANCE WITH ASTM C11-10a.

GYPSUM BOARD SHALL BE INSTALLED PERPENDICULAR TO FURRING WITH SCREWS AT 12" ON CENTER MAXIMUM, IN ACCORDANCE WITH ASTM

c. GYPSUM BOARD SHALL BE ATTACHED TO FURRING/FRAMING WITH ASTM C1002-07 TYPE S (ASTM A568-11b GRADES 1018 TO 1022) SCREWS (NOT LESS THAN, NO. 6, WITH MAJOR DIAMETER NOT LESS THAN 0.136 IN).

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TCMC MRI

Tri-City Medical Center 4002 VISTA WAY

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OCEANSIDE CA, 92056

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TEL(760)940-7709

STRUCTURAL: MIYAMOTO INTERNATIONAL, INC 5550 BÁLŤIMOŘE ĎŘIVĚ, ŠUÍTĚ 100 LA MESA, CA 91942 TEL(858)457-3001

SC ENGINEERS, INC.

17075 VIA DEL CAMPO

SAN DIEGO, CALIFRONIA 92127

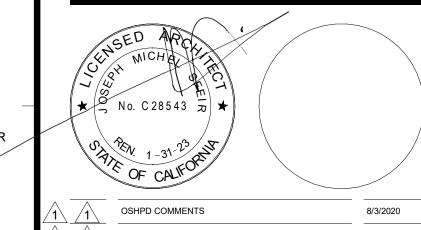
TEL(858)946-0333 ELECTRICAL: AG DESIGN, INC. 171 S. ANITA DR. SUITE 111 ORANGE, CALIFRONIA 92868

MECHANICAL

TEL(714)769-9900 EXT. 201 MRI SHIELDING CORPORATION 3554 BUISNESS PARK DR., SUITE B COSTA MESA, CA 92626

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ISLEY DESIGN & PLANNING 1982 PALSERO AVENUE ESCONDIDO, CA 92029 TEL(760)484-0455



8/10/2020 OSHPD COMMENTS 10/2/2020 11/24/2020 ACD 0001 DESIGN CHANGES 4/14/2021

DESCRIPTION:

OSHPD #: S200813-37-00-ACD0001

GYP. BOARD CEILING **DETAILS**

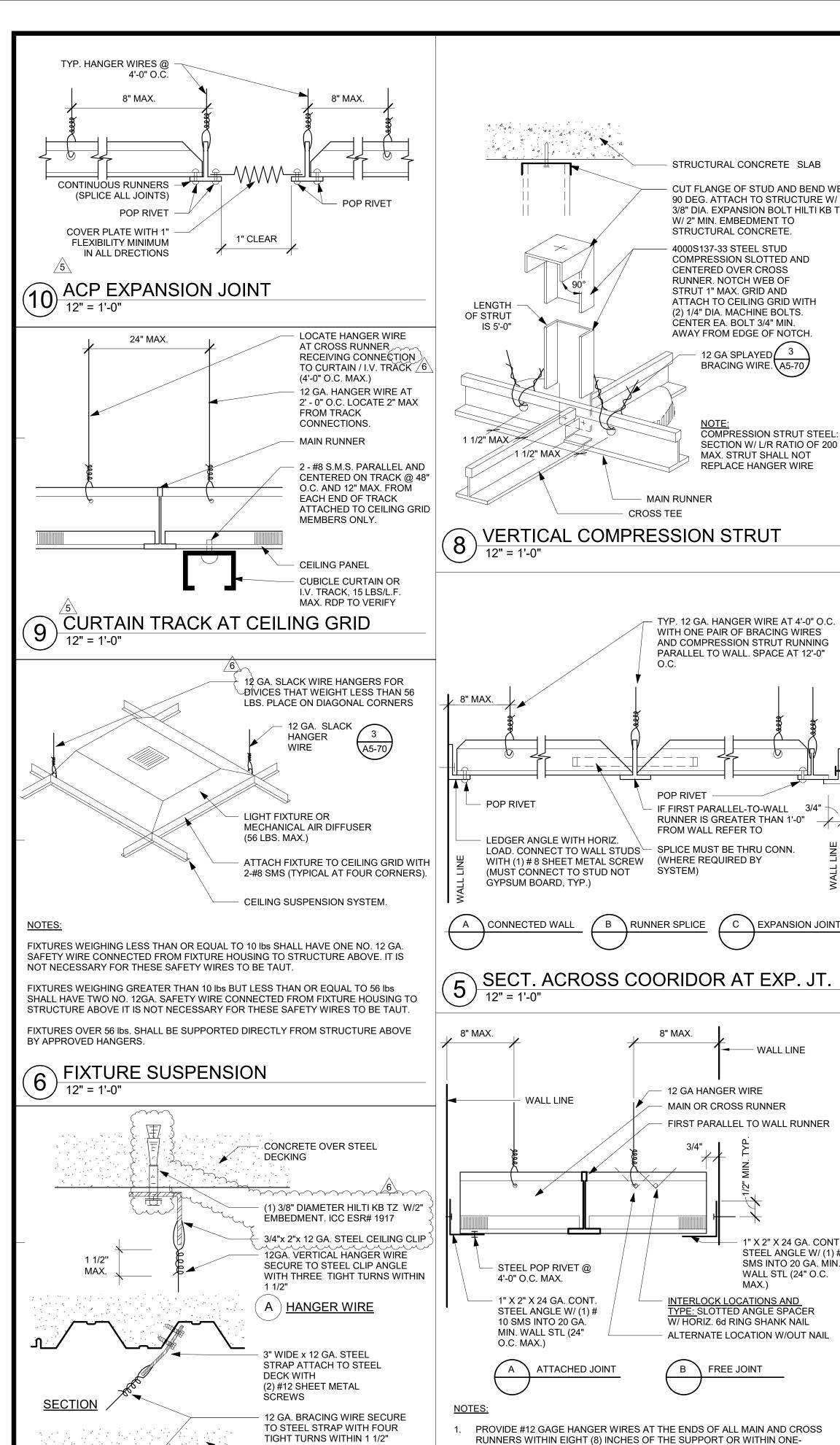
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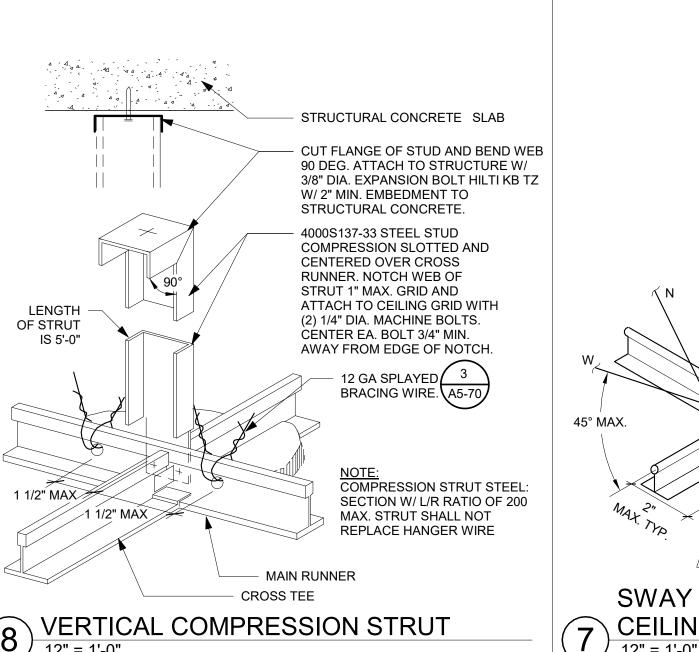
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PER TITLE

3/11/2020

PROJECT TITLE





WITH ONE PAIR OF BRACING WIRES

AND COMPRESSION STRUT RUNNING

PARALLEL TO WALL. SPACE AT 12'-0"

IF FIRST PARALLEL-TO-WALL 3/4"

C EXPANSION JOINT

— WALL LINE

1" X 2" X 24 GA. CONT

SMS INTO 20 GA. MIN.

WALL STL (24" O.C.

MAX.)

INTERLOCK LOCATIONS AND TYPE: SLOTTED ANGLE SPACER

W/ HORIZ. 6d RING SHANK NAIL

B \ FREE JOINT

FOURTH (1/4) OF THE LENGTH OF THE END TEE, WHICHEVER IS LESS, FOR THE

PERIMETER OF THE CEILING AREA. PERIMETER WIRES ARE NOT REQUIRED

NAILS AT ENDS OF HORIZONTAL STRUTS ARE TO BE PLACED WITH NAIL HEAD

WHEN THE LENGTH OF THE END TEE IS EIGHT (8) INCHES OR LESS.

SPACERS MAY BE SLOTTED APPROVED ANGLES OR CHANNELS WITH

"DIAMOND POINTS" OF SPRING STEEL WHICH SNAP TIGHT TO PREVENT

4. STEEL POP RIVETS SHALL HAVE MINIMUM ALLOWABLE SHEAR STRENGTH OF

ALTERNATE LOCATION W/OUT NAIL

RUNNER IS GREATER THAN 1'-0"

FROM WALL REFER TO

— 12 GA HANGER WIRE

MAIN OR CROSS RUNNER

FIRST PARALLEL TO WALL RUNNER

POP RIVET

RUNNER SPLICE

LOAD. CONNECT TO WALL STUDS SPLICE MUST BE THRU CONN.

WITH (1) # 8 SHEET METAL SCREW (WHERE REQUIRED BY

POP RIVET

LEDGER ANGLE WITH HORIZ.

WALL LINE

STEEL POP RIVET @

1" X 2" X 24 GA. CONT.

10 SMS INTO 20 GA.

MIN. WALL STL (24"

O.C. MAX.)

MOVEMENT OF STRUT.

RIGID BOARD INSULATION

OVER STEEL DECKING

(B)<u>BRACING WIRE</u>

SUSPENSION WIRE CONNECTION @

ELEVATION

METAL DECK
12" = 1'-0"

STEEL ANGLE W/(1)#

A ATTACHED JOINT

TOWARD CENTER LINE OF SPAN OF STRUT.

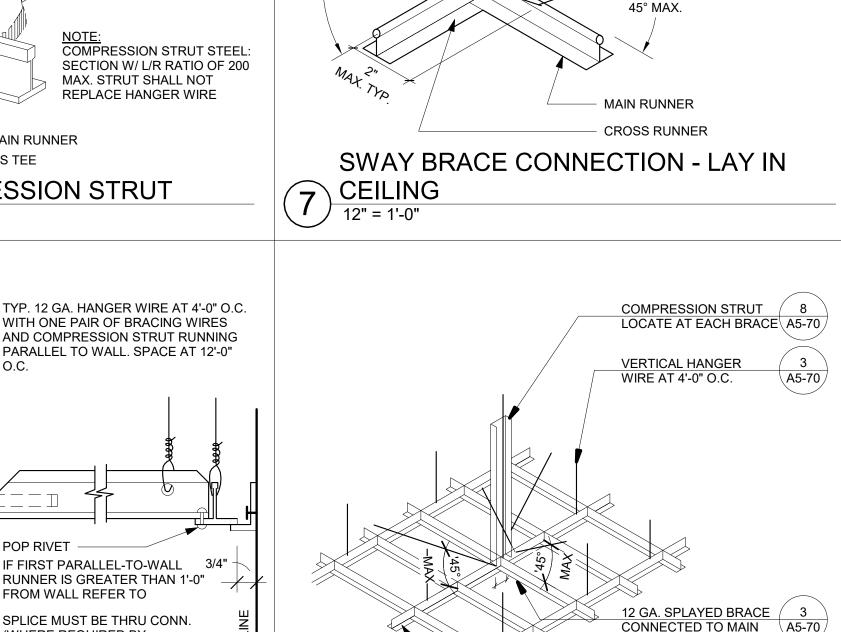
120# AND ULTIMATE SHEAR STRENGTH OF 300#.

2 HORIZONTAL SLIP JOINT

4'-0" O.C. MAX.

GYPSUM BOARD, TYP.)

(MUST CONNECT TO STUD NOT



4000S137-33 STEEL STUD

OVER CROSS RUNNER.

VERT. COMPRESSION STRUT SLOTTED AND CENTERED

LOCATED AT EACH BRACING

12 GA SPLAY WIRE BRACING IN

1-1/2". BOTH ENDS OF WIRE

FOR CONN. TO DECK

PLANE OF EACH RUNNER SECURE

ENDS WITH FOUR TIGHT TURNS IN

CONNECTED TO MAIN RUNNER 90°

APART. 4 - TOTAL AT EACH STRUT.

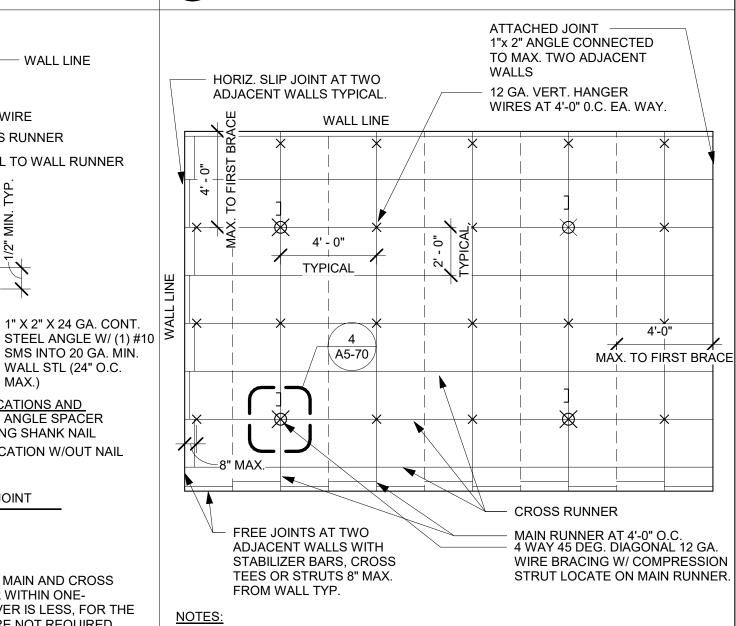
RUNNERS 90° APART AT

CROSS RUNNERS TYP

MAIN RUNNERS TYP

A5-70/

CEILING GRID ATTACHMENT - LAY IN 4 PANEL CEILING



- TYPICAL 2X4 LAY-IN ACOUSTIC TILE CEILING SHOWN SOLID, 2X2 SHOWN DASHED. BRACING WIRES AND COMP. STRUT SHALL OCCUR AT EVERY 144 SQ. FT. MAX. IN
- ROOMS OVER 144 SQ. FT. IN GEOGRAPHIC LOCATIONS WHERE: S_{DS} ≤ 1.15. 3. S_{DS} VALUE OF PROJECT FOUND ON STRUCTURAL SHEETS. (THIS PROJECT= 0.751)

DIAGRAMMATIC CEILING PLAN-LAY IN CEILING 1/4" = 1'-0"

GENERAL NOTES:

- THE GENERAL CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS AND MEASUREMENTS IN THE FIELD PRIOR TO STARTING CONSTRUCTION.
- 2. REFER TO GENERAL NOTES ON SHEET A0-00 FOR INFORMATION NOT INDICATED ON THIS SHEET.

LAY-IN CEILING GENERAL NOTES: METAL SUSPENSION SYSTEMS FOR LAY-IN PANEL CEILINGS

REFERENCE: CBC 2019 AND ASCE 7-16.

- CONSTRUCTION, WORKMANSHIP AND MATERIAL SHALL CONFORM TO THE 2019 CALIFORNIA BUILDING STANDARDS CODE (CBSC 2019).
- 2. THE CONTRACTOR SHALL NOTIFY OSHPD AND THE REGISTERED DESIGN PROFESSIONAL (RDP) IN RESPONSIBLE CHARGE WHERE A CONFLICT OR DISCREPANCY OCCURS BETWEEN THE CONSTRUCTION DRAWINGS AND ANY OTHER PORTION OF THE CONSTRUCTION DOCUMENTS, FIELD CONDITIONS, OR WHERE ANY CONDITIONS ARISE NOT COVERED BY THESE DOCUMENTS WHEREIN WORK WILL NOT COMPLY WITH CODE REQUIREMENTS.
- THE INTENT OF THE DRAWINGS AND SPECIFICATIONS IS TO CONSTRUCT THE HOSPITAL BUILDING IN ACCORDANCE WITH THE CALIFORNIA BUILDING STANDARD CODE, 2019 (CBSC 2019). SHOULD ANY CONDITION DEVELOP NOT COVERED BY THE APPROVED CONSTRUCTION DOCUMENTS WHEREIN THE WORK WILL NOT COMPLY WITH CBSC 2019, A CHANGE ORDER DETAILING AND SPECIFYING THE REQUIRED WORK SHALL BE SUBMITTED TO AND APPROVED BY OSHPD BEFORE PROCEEDING WITH THE WORK.
- GALVANIZED METAL STUDS. TRACKS AND SHEET STEEL SHALL CONFORM TO ASTM A653-11 MATERIAL, OR OTHER EQUIVALENT ASTM LISTED MATERIALS IN SECTION A2.1 OF THE AISI SI00-07/S2-10; NORTH AMERICAN SPECIFICATION FOR THE DESIGN OF COLD-FORMED STEEL STRUCTURAL MEMBERS WITH SUPPLEMENT 2, DATED 2010, WITH A MINIMUM YIELD STRENGTH OF 33 KSI FOR 43 MIL (18 GAGE) AND LIGHTER AND MINIMUM YIELD STRENGTH OF 50 KSI FOR HEAVIER GAGES. METAL STUDS AND TRACKS SHALL BE OF SIZE, THICKNESS AND SECTION PROPERTIES SHOWN ON TABLES 1-1, 1-2 AND 1-3 OF THE AISI MANUAL, COLD-FORMED STEEL DESIGN, 2008 EDITION. THE RDP IN RESPONSIBLE CHARGE SHALL OBTAIN OSHPD APPROVAL FOR ANY SUBSTITUTIONS.
- ELECTRICAL METALLIC TUBE (EMT) SHALL BE ANSI C80.3/UL 797 CARBON STEEL WITH G90 GALVANIZING. EMT SHALL HAVE MINIMUM YIELD STRENGTH OF (FY =) 30 KSI AND MINIMUM ULTIMATE STRENGTH OF (FU =) 48 KSI.
- SELECTED FASTENER CAPACITIES SHALL MATCH OR EXCEED THE STRENGTHS LISTED HEREIN. THE FOLLOWING REQUIREMENTS SHALL ALSO BE MET: a. SHEET METAL SCREWS SHALL COMPLY WITH ASTM C 1513-10, ASME B18.6.4-98 (R2005) AND ICC-ES AC 118. PENETRATION OF SCREWS THROUGH JOINED MATERIAL SHALL NOT BE LESS THAN THREE EXPOSED
- WELDING SHALL BE IN ACCORDANCE WITH AWS D1.3 USING E60XX SERIES ELECTRODES. FIELD WELDING SHALL HAVE SPECIAL INSPECTION IN ACCORDANCE WITH 2019 CBC SECTION 1705A.2.
- POST- INSTALLED ANCHORS (E.G. EXPANSION ANCHORS, SCREW ANCHORS AND POWER ACTUATED FASTENERS) SHALL HAVE SPECIAL NSPECTION AND TESTING IN ACCORDANCE WITH THE 2019 CBC SECTIONS 1705A.3 & 1910A. FOR QUALIFICATION, DESIGN AND USE OF POST-INSTALLED ANCHORS IN CONCRETE SEE THE 2019 CBC SECTIONS - 1617A.1.19 AND 1910A. LISTING OF CURRENT ICC-ES EVALUATION
- REPORTS (OR REPORTS FROM OTHER TESTING AGENCIES ACCEPTABLE TO OSHPD) SHALL BE REQUIRED FOR FASTENER USED. POWER-ACTUATED FASTENERS (PAF), POWDER DRIVEN FASTENERS
- (PDF), POWER DRIVEN PINS (PDP) AND SHOT PINS ALL REPRESENT THE SAME FASTENER AND WILL HEREAFTER BE REFERRED TO AS POWER ACTUATED FASTENERS (PAF). PAF'S SHALL SATISFY THE CURRENT AC70-ACCEPTANCE CRITERIA FOR FASTENERS POWER-DRIVEN INTO CONCRETE, STEEL AND MASONRY ELEMENTS AND THE 2019 CBC SECTION 1910A. LISTING OF CURRENT ICC ES EVALUATION REPORTS (OR REPORTS FROM OTHER TESTING AGENCIES ACCEPTABLE TO OSHPD) SHALL BE REQUIRED FOR FASTENERS USED FOR PAF INSTALLED IN STEEL THE FASTENER PENETRATION SHALL HAVE
- THE ENTIRE POINTED END OF THE FASTENER DRIVEN THROUGH THE STEEL MEMBER, EXCEPT AS NOTED IN CURRENT REPORTS FROM TESTING AGENCIES ACCEPTABLE TO OSHPD.
- DESIGN CRITERIA a. BUILDING CODE: 2019 CALIFORNIA BUILDING CODE (2019 CBC). ASCE \$7-16 TO BE IN CONFORMATION WITH 2019 CBC., AISI 100-16 TO BE IN CONFORMANCE

WITH 2019 CBC., ASTM E580-14, C635-13A, AND C636-13,

ACCORDANCE WITH 2019 CBC SECTION 1605A.3.1. FASTENER CAPACITIES TABLES WERE DEVELOPED BASED ON ICC

FOR LOAD COMBINATIONS, ALLOWABLE STRESS DESIGN SHALL BE IN

- REPORTS BY SEVERAL MANUFACTURERS. THE DESIGN ASSUMES THAT BUILDING ELEMENTS AND SUPPORTS, TO WHICH THE COMPONENTS ADDRESSED IN THIS DOCUMENT ARE ANCHORED, HAVE SUFFICIENT CAPACITY TO CARRY THE LOADS IMPOSED BY THE COMPONENTS IN COMBINATION WITH ALL OTHER LOADS. EVALUATION OF THE CAPACITY OF THESE SUPPORTING BUILDING
- ELEMENTS IS BEYOND THE SCOPE OF THESE SPECIFICATIONS. DESIGN IS LIMITED TO CEILING ASSEMBLIES HAVING MAXIMUM DEAD WEIGHT OF 4 PSF, INCLUDING LIGHTING FIXTURES (LUMINARIES) AND MECHANICAL SERVICES, EACH WEIGHING LESS THAN 56 LBS AND ATTACHED TO CEILING FRAMING SYSTEM. HEAVIER SYSTEM AND THOSE SUPPORTING LATERAL FORCES FROM PARTITION WILL REQUIRE PROJECT SPECIFIC DESIGN.
- THE RDP IN RESPONSIBLE CHARGE SHALL VERIFY THE FIRE RESISTANCE AND ACOUSTICAL RATINGS FOR ALL CEILING ASSEMBLIES.
- "CEILING WIRE" SHALL CONFORM WITH GALVANIZED SOFT ANNEALED MILD STEEL WIRE AS DEFINED IN ASTM A641 (CLASS 1 COATING) WITH 70 KSI MINIMUM TENSILE STRENGTH:
- a. FOUR (4) TWISTS OF WIRE WITHIN 1.5" DEVELOPS THE ALLOWABLE LOAD
- THREE (3) TWISTS WITHIN 3" MAY BE USED TO DEVELOP THE MAXIMUM 50% OF ALLOWABLE LOAD.
- 10. SUSPENSION SYSTEM COMPONENTS SHALL COMPLY WITH ASTM C635 AND E580 SECTION 5.1: a. THE CEILING GRID SYSTEM SHALL BE RATED HEAVY DUTY AS DEFINED
- BY ASTM C635. HANGER AND BRACING WIRES SHALL BE #12 GAGE (0.106" DIAMETER), SOFT ANNEALED, AND GALVANIZED STEEL WIRES WITH CLASS 1 COATING. THEY MAY BE USED FOR UP TO AND INCLUDING 4'-0"X 4'-0" GRID
- PERMITTED IN ANY HANGER WIRE. MAIN RUNNERS AND CROSS RUNNERS ALONG WITH THEIR SPLICES, INTERSECTION CONNECTORS, AND EXPANSION DEVICES SHALL BE DESIGNED AND CONSTRUCTED TO CARRY A MEAN ULTIMATE TEST LOAD OF NOT LESS THAN 180 LBS. IN COMPRESSION & TENSION, IN ACCORDANCE WITH ASTM 580 SECTION 5.1.2.

SPACING ALONG AND ATTACHED TO MAIN RUNNERS. SPLICES ARE NOT

- 11. SUSPENSION SYSTEM INSTALLATION, SHALL COMPLY WITH ASTM C636 AND
- E580 SECTION 5.2: a. PROVIDE #12 GAGE HANGER WIRES AT THE ENDS OF ALL MAIN AND CROSS RUNNERS WITHIN EIGHT (8) INCHES OF THE SUPPORT OR WITHIN ONE-FOURTH (1/4) OF THE LENGTH OF THE END TEE. WHICHEVER IS LESS, FOR THE PERIMETER OF THE CEILING AREA. PERIMETER WIRES ARE NOT REQUIRED WHEN THE LENGTH OF THE END TEE IS EIGHT (8) INCHES
- CEILING GRID MEMBERS SHALL BE ATTACHED TO TWO (2) ADJACENT WALLS, IN ACCORDANCE WITH ASTM E580 SECTION 5.2.3. CEILING GRID MEMBERS SHALL BE AT LEAST 3/4" INCH CLEAR OF OTHER WALLS. IF WALLS RUN DIAGONAL TO THE CEILING GRID SYSTEM RUNNERS, ONE END OF MAIN AND CROSS RUNNERS SHOULD BE FREE. AND A MINIMUM OF 3/4 INCH CLEAR OF WALL

- THE WIDTH OF THE PERIMETER SUPPORTING CLOSURE ANGLE SHALL BE NOT LESS THAN TWO (2) INCHES. USE OF ANGLES WITH SMALLER WIDTHS IN CONJUNCTION WITH PERIMETER CLIPS SHALL REQUIRE AN ALTERNATE
- METHOD OF COMPLIANCE WITH ADEQUATE JUSTIFICATION. d. AT THE PERIMETER OF THE CEILING AREA WHERE MAIN OR CROSS RUNNERS ARE NOT CONNECTED TO THE ADJACENT WALL, PROVIDE INTERCONNECTION BETWEEN THE RUNNERS AT THE FREE END TO PREVENT LATERAL SPREADING. A METAL STRUT OR A #16 GAGE WIRE WITH A POSITIVE MECHANICAL CONNECTION TO RUNNER MAY BE USED WHERE THE PERPENDICULAR DISTANCE FROM THE WALL TO THE FIRST PARALLEL RUNNER IS EIGHT (8) INCHES OR LESS. THIS INTERCONNECTION IS NOT REQUIRED.
- EXPANSION JOINTS, SEISMIC SEPARATIONS, AND PENETRATIONS: a. EXPANSION JOINTS SHALL BE PROVIDED IN THE CEILING AT
- INTERSECTIONS OF CORRIDORS AND AT JUNCTIONS OF CORRIDORS WITH LOBBIES OR OTHER SIMILAR AREAS.
- b. FOR CEILING AREAS EXCEEDING 2500 SQUARE FEET, A SEISMIC SEPARATION JOINT SHALL BE PROVIDED TO DIVIDE THE CEILING INTO AREAS NOT EXCEEDING 2500 SQ. FT.
- c. PENETRATIONS THROUGH THE CEILING FOR SPRINKLER HEADS AND OTHE SIMILAR DEVICES THAT ARE NOT INTEGRALLY TIED TO THE CEILING SYSTEM IN THE LATERAL DIRECTION SHALL HAVE A TWO (2) INCH OVERSIZED RING, SLEEVE OR ADAPTER THROUGH THE CEILING TILE TO ALLOW FREE MOVEMENT OF ONE (1) INCH IN ALL HORIZONTAL DIRECTIONS. A FLEXIBLE SPRINKLER HOSE FITTING THAT CAN ACCOMMODATE ONE (1) INCH OF CEILING MOVEMENT SHALL BE PERMITTED TO BE USED IN LIEU OF THE OVERSIZED RING, SLEEVE OR ADAPTER. SUCH FLEXIBLE SPRINKLER HOSE SHALL BE ADEQUATELY SUPPORTED FROM SOFFIT SO AS NOT TO EXCEED THE MAXIMUM TRIBUTARY WEIGHT OF THE CEILING.
- LATERAL FORCE BRACING: LATERAL FORCE BRACING IS REQUIRED IN ACCORDANCE WITH THIS SECTION FOR ALL CEILING AREAS, UON.

EXCEPTION: LATERAL FORCE BRACING MAY BE OMITTED FOR SUSPENDED ACOUSTICAL CEILING SYSTEMS WITH A CEILING AREA OF 144 SQ. FT. OR LESS. WHEN PERIMETER SUPPORT IN ACCORDANCE WITH ASTM E580 ARE PROVIDED AND PERIMETER WALLS ARE DESIGNED TO CARRY THE CEILING LATERAL FORCES.

- a. PROVIDE LATERAL-FORCE BRACING ASSEMBLIES CONSISTING OF A STRUT AND FOUR (4) #12 GAGE BRACING WIRES ORIENTED 90 DEGREES FROM EACH OTHER.
- b. LATERAL-FORCE BRACING ASSEMBLIES SHALL BE SPACED IN ACCORDANCE WITH 1/A5-70 FROM EACH WALL AND AT THE EDGES OF
- ANY CHANGE OF ELEVATION OF THE CEILING. c. THE SLOPE OF BRACING WIRES MAY BE FROM 10 TO 45 DEGREES BUT MAY NOT EXCEED 45 DEGREES FROM THE PLANE OF THE CEILING AND
- STRUTS SHALL BE ADEQUATE TO RESIST THE VERTICAL COMPONENT INDUCED BY THE BRACING WIRES, AND SHALL NOT BE MORE THAN 1 (HORIZONTAL) IN 6 (VERTICAL) OUT OF PLUMB.
- 14. ATTACHMENT OF HANGER AND BRACING WIRES: a. FASTEN #12 HANGER WIRES WITH NOT LESS THAN THREE (3) TIGHT TURNS IN 3 INCHES. HANGER WIRE LOOPS SHALL BE TIGHTLY WRAPPED AND SHARPLY BENT TO PREVENT ANY VERTICAL MOVEMENT OR ROTATION
- OF THE MEMBER WITHIN THE LOOPS. b. FASTEN #12 BRACING WIRES WITH FOUR (4) TIGHT TURNS. MAKE ALL
- TIGHT TURNS WITHIN A DISTANCE OF 1 1/2" INCHES. HANGER OR BRACING WIRE ANCHORED TO THE STRUCTURE SHOULD BE INSTALLED IN SUCH A MANNER THAT THE DIRECTION OF THE ANCHOR
- ALIGNS AS CLOSELY AS POSSIBLE WITH THE DIRECTION OF THE WIRE. d. SEPARATE ALL CEILING HANGER AND BRACING WIRES AT LEAST SIX (6)
- INCHES FROM ALL UNBRACED DUCTS, PIPES CONDUITS, ETC. HANGER WIRES SHALL NOT BE ATTACHED TO OR BEND AROUND INTERFERING MATERIAL OR EQUIPMENT. PROVIDE TRAPEZE OR OTHER SUPPLEMENTARY SUPPORT MEMBERS AT OBSTRUCTIONS TO TYPICAL HANGER SPACING, PROVIDE ADDITIONAL HANGERS, STRUTS OR BRACES AS REQUIRED AT ALL CEILING BREAKS, SOFFITS, OR DISCONTINUOUS
- HANGER WIRES THAT ARE MORE THAN 1 (HORIZONTAL) IN 6 (VERTICAL) OUT OF PLUMB SHALL REQUIRE PROJECT SPECIFIC DESIGN
- WHEN DRILLED-IN CONCRETE ANCHORS OR PAF ARE USED IN REINFORCED CONCRETE FOR HANGER WIRES, 1 OUT OF 10 WIRE/ ANCHOR ASSEMBLIES SHALL BE FIELD TESTED FOR 200 LBS. IN TENSION. WHEN DRILLED-IN CONCRETE ANCHORS ARE USED FOR BRACING WIRES, 1 OUT OF 2 WIRE/ANCHOR ASSEMBLIES SHALL BE FIELD TESTED FOR 440 LBS. IN TENSION IN THE DIRECTION OF THE WIRE. PAF IN CONCRETE ARE NOT

15. CEILING FIXTURES, TERMINALS, AND DEVICES:

PERMITTED FOR BRACING WIRES.

WIRES SHALL BE TAUT.

- a. CEILING PANELS SHALL NOT SUPPORT ANY LIGHT FIXTURES, AIR TERMINALS/GRILLS, OR OTHER DEVICES (REFERRED TO ALL BY COMMON TERM FIXTURES HERE AFTER)
- b. ALL FIXTURES SHALL BE MOUNTED IN A MANNER THAT WILL NOT COMPROMISE CEILING PERFORMANCE
- :. ALL FIXTURES SHALL BE ATTACHED TO THE SUSPENDED CEILING SYSTEM BY MECHANICAL MEANS, UNLESS INDEPENDENTLY SUPPORTED. THE ATTACHMENT DEVICE SHALL HAVE THE CAPACITY OF 100% OF FIXTURE WEIGHT ACTING IN ANY DIRECTION. A MINIMUM OF TWO ATTACHMENT
- DEVICES ARE REQUIRED FOR EACH FIXTURE. d. SURFACE MOUNTED FIXTURES SHALL BE ATTACHED TO THE MAIN RUNNER WITH POSITIVE CLAMPING DEVICES MADE OF MATERIAL WITH A MINIMUM 14 GAGE. A NO.12 GAUGE SAFETY WIRES SHALL BE ATTACHED BETWEEN THE CLAMPING DEVICE AND TO THE STRUCTURE ABOVE. IN NO CASE SHALL THE FIXTURES EXCEED THE DESIGN CAPACITY OF THE SUPPORTING
- e. ALL FIXTURES WEIGHING LESS THAN OR EQUAL TO 10 LB. SHALL HAVE ONE NO. 12 GAUGE SAFETY WIRE CONNECTED FROM FIXTURE HOUSING TO STRUCTURE ABOVE. IT IS NOT NECESSARY FOR THESE SAFETY WIRES TO
- ALL FIXTURES WEIGHING GREATER THAN 10 LB BUT LESS THAN OR EQUAL TO 56 LB. SHALL HAVE TWO NO. 12 GAUGE SAFETY WIRE CONNECTED FROM FIXTURE HOUSING TO STRUCTURE ABOVE. IT IS NOT NECESSARY FOR THESE SAFETY WIRES TO BE TAUT
- ALL FIXTURES WEIGHING GREATER THAN 56 LB. SHALL BE SUPPORTED DIRECTLY FROM STRUCTURE ABOVE BY APPROVED HANGERS. h. PENDENT-HUNG FIXTURES SHALL BE SUPPORTED DIRECTLY FROM THE
- STRUCTURE ABOVE USING NO LESS THAN NO. 9-GAUGE WIRE OR AN APPROVED ALTERNATE SUPPORT. THE CEILING SUSPENSION SYSTEM SHALL NOT PROVIDE ANY DIRECT SUPPORT.
- ALL RECESSED OR DROP-IN FIXTURES SHALL BE SUPPORTED DIRECTLY FROM FIXTURE HOUSING TO THE STRUCTURE ABOVE WITH A MINIMUM OF TWO NO. 12 GAUGE WIRES LOCATED AT DIAGONALLY OPPOSITE CORNERS LEVELING OR POSITIONING OF FIXTURES MAY BE PROVIDED BY CEILING GRID. FIXTURE SUPPORT WIRES MAY BE SLIGHTLY LOOSE TO ALLOW THE FIXTURE TO SEAT IN THE GRID SYSTEM. FIXTURES SHALL NOT BE SUPPORTED FROM MAIN RUNNERS OR CROSS RUNNERS IF THE WEIGHT OF THE FIXTURES CAUSES TOTAL DEAD LOAD TO EXCEED THE DEFLECTION CAPABILITY OF THE CEILING SUSPENSION SYSTEM.

16. ADDITIONAL REQUIREMENTS:

- CEILINGS THAT ARE PART OF A FIRE RATED ASSEMBLY: PROVIDE A DETAIL AND DESIGN NUMBER FOR RATED CEILING ASSEMBLIES FROM AN APPROVED TESTING AGENCY. THE COMPONENTS AND INSTALLATION DETAILS CONFORM IN EVERY RESPECT WITH THE LISTED DETAIL AND NUMBER. DETAILS SHALL CLEARLY DEPICT ALL COMPONENTS, INCLUDING INSULATION MATERIALS, FRAMING AND ATTACHMENT OF THE DESIGN SO THAT THE ASSEMBLY CAN BE CONSTRUCTED AND INSPECTED ACCORDINGLY. POP RIVETS, SCREWS, OR OTHER ATTACHMENTS ARE NOT ACCEPTABLE UNLESS SPECIFICALLY DETAILED ON THE DRAWINGS AND
- APPROVED BY APPROVED TESTING AGENCY. METAL AND OTHER PANELS: METAL PANELS AND PANELS WEIGHING MORI THAN 1/2 PSF, OTHER THAN MINERAL FIBER ACOUSTICAL TILE, ARE TO BE POSITIVELY ATTACHED TO THE CEILING SUSPENSION RUNNERS.
- c. BUILDING EXIT WAYS: CEILINGS IN EXIT WAYS SHALL BE INSTALLED IN ACCORDANCE WITH SECTION 13.5.6.2.2(1) OF ASCE 7-16 AS AMENDED BY 2019 CBC SECTION 1616A.1.20. SPLICES OR INTERSECTION OF RUNNERS SHALL BE ATTACHED WITH THROUGH CONNECTORS SUCH AS POP RIVETS, SCREWS, PINS, PLATES WITH END TABS OR OTHER OSHPD APPROVED CONNECTORS.

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5550 BÁLŤIMOŘĚ DŘIVĚ, ŠUĬTĚ 100 / LA MESA, CA 91942 TEL(858)457-3001 SC ENGINEERS, INC. MECHANICAL

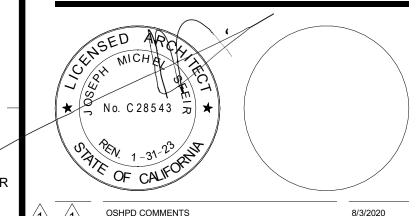
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ORANGE, CALIFRONIA 92868 TEL(714)769-9900 EXT. 201 MRI SHIELDING CORPORATION 3554 BUISNESS PARK DR., SUITE B

COSTA MESA, CA 92626 TEL(714)545-7700 **ISLEY DESIGN & PLANNING** 1982 PALSERO AVENUE



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DESIGN CHANGES 8/10/2020 OSHPD COMMENTS 10/2/2020 11/24/2020

ACD 0001 DESIGN CHANGES 4/14/2021

DESCRIPTION

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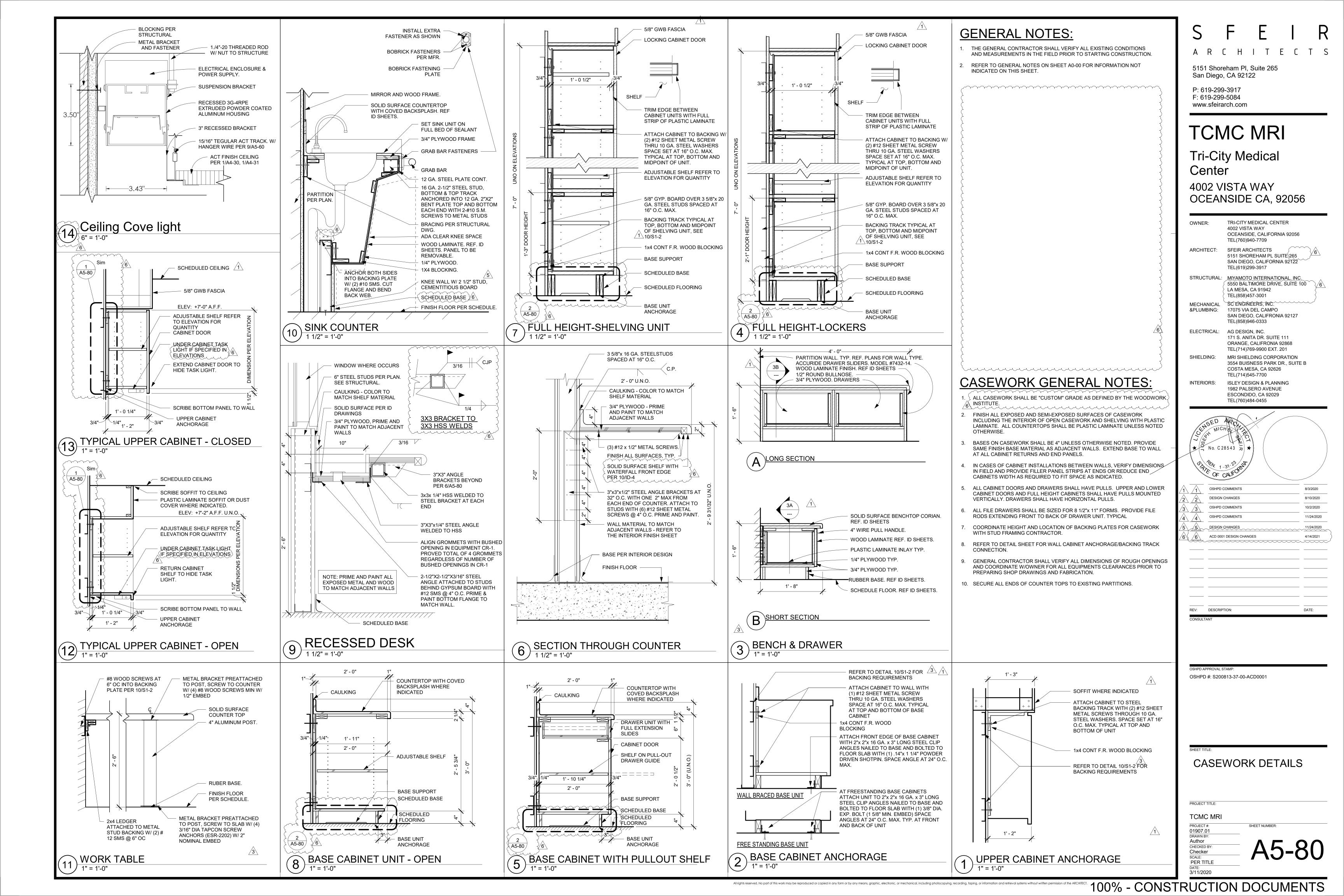
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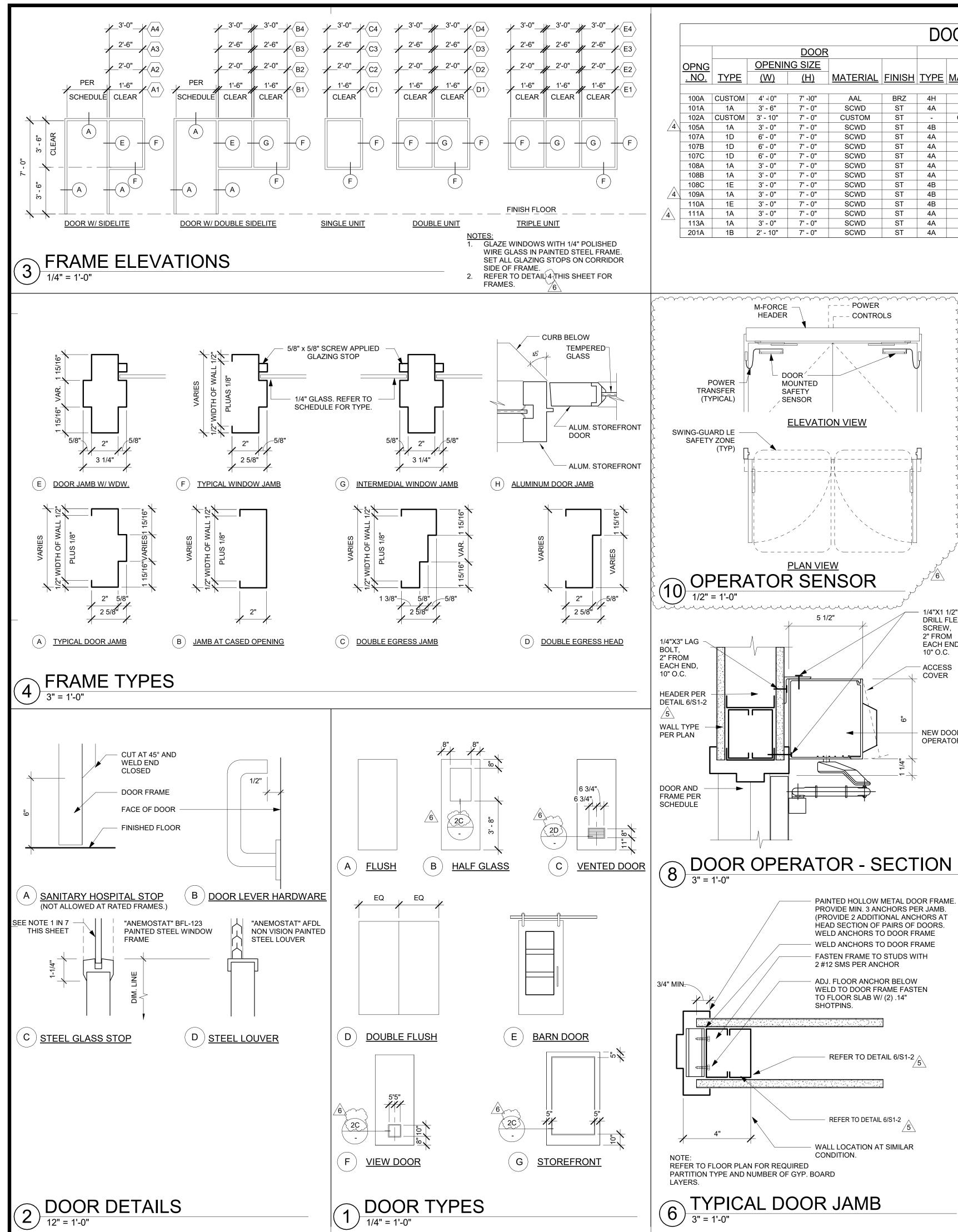
LAY-IN CEILING DETAILS

TCMC MR

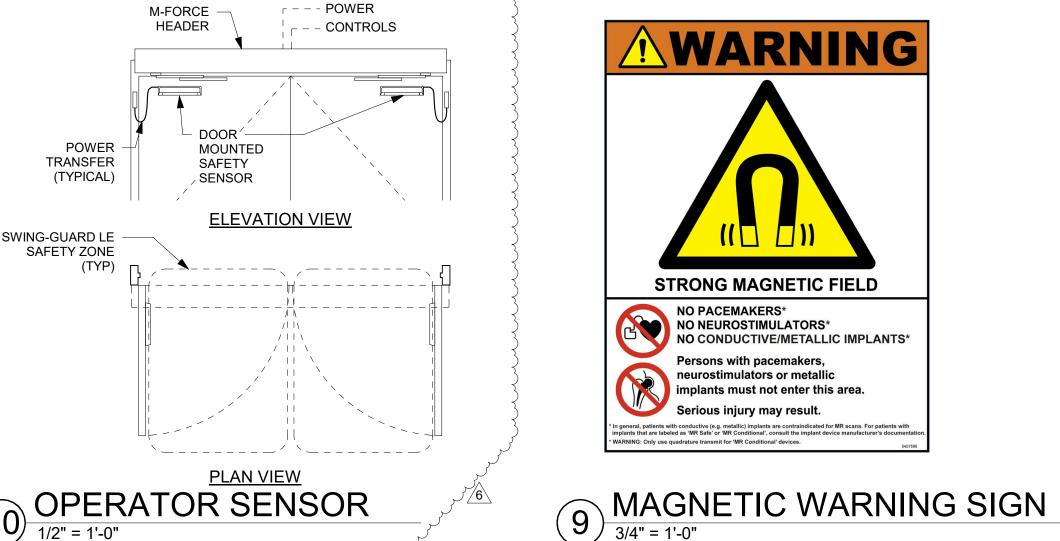
PROJECT #: 01907.01 DRAWN BY Author CHECKED BY Checker

PER TITLE









1/4"X1 1/2"

SCREW,

2" FROM

10" O.C.

ACCESS

COVER

PAINTED HOLLOW METAL DOOR FRAME.

PROVIDE MIN. 3 ANCHORS PER JAMB. (PROVIDE 2 ADDITIONAL ANCHORS AT

HEAD SECTION OF PAIRS OF DOORS

WELD ANCHORS TO DOOR FRAME

WELD ANCHORS TO DOOR FRAME

FASTEN FRAME TO STUDS WITH

ADJ. FLOOR ANCHOR BELOW

WELD TO DOOR FRAME FASTEN TO FLOOR SLAB W/ (2) .14"

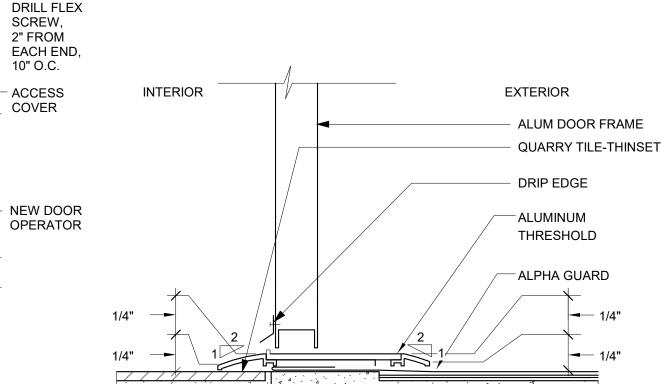
REFER TO DETAIL 6/S1-2

REFER TO DETAIL 6/S1-2

WALL LOCATION AT SIMILAR

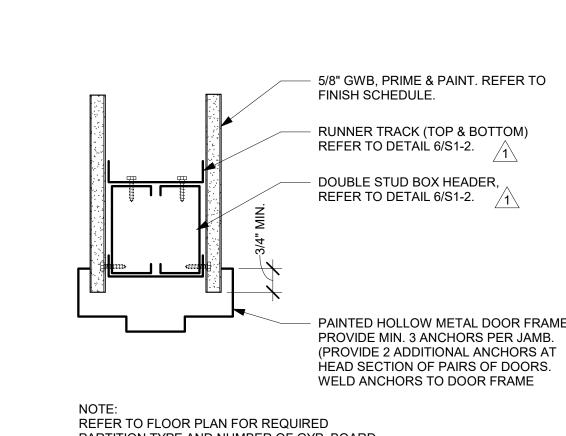
2 #12 SMS PER ANCHOR

SHOTPINS.



7 Threshold-Aluminum

3/4" = 1'-0"



PARTITION TYPE AND NUMBER OF GYP. BOARD

5) TYPICAL DOOR HEAD

GENERAL NOTES:

- THE GENERAL CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS AND MEASUREMENTS IN THE FIELD PRIOR TO STARTING CONSTRUCTION.
- REFER TO GENERAL NOTES ON SHEET A0-00 FOR INFORMATION NOT

DOOR SCHEDULE GENERAL NOTES:

- PROVIDE SANITARY "HOSPITAL STOPS" AT ALL NON-RATED INTERIOR DOOR
- ALL DOORS SHALL RECEIVE LEVER TYPE HARDWARE WITH A PROFILE EQUAL TO DETAIL 2B THIS SHEET U.N.O. GLAZED OPENINGS IN 20 AND 45 MINUTE ASSEMBLIES SHALL NOT EXCEED 1296 SQ. INCHES AND SHALL BE GLAZED WITH 1/4" WIRE GLASS SET IN PAINTED
- GLAZED OPENINGS IN 60 AND 90 MINUTE ASSEMBLIES SHALL NOT EXCEED 100 SQ. INCHES AND SHALL BE GLAZED WITH 1/4" WIRE GLASS SET IN PAINTED
- FRAMES OF GLAZED OPENINGS IN DOORS SHALL BE PRIMED AND PAINTED TO
- MATCH DOOR FRAMES. CENTER OF DOOR HINGE PIVOT SHALL BE LOCATED AT 4" FROM ADJACENT PARTITION UON.

DOOR SCHEDULE KEYNOTES:

- R.F. SHIELDED DOOR BY MRI CORPORATION. SEE MRI
- (3) HAND WAVE READER DOOR OPERATOR.

- (6) KICK PLATE.
- (8) CARD READER DOOR OPERATOR.
- PROVIDE DOOR SIGNAGE PER DETAIL 9/A6-00.
- PROVIDE METAL DETECTOR FerrAlert™ Halo II PER SPECIFICATIONS AND DETAILS FOUND IN SPECBOOK APPENDIX A.

- INDICATED ON THIS SHEET.
- FRAMES.

- CORP SHIELDING DRAWINGS.
- (2) DOOR OPERATOR WITH LOCATION SENSOR ON BOTH SIDES. SEE DETAIL 8 AND 10 THIS SHEET.

- (4) PRIVACY LOCK AND GASKETS.
- ⁵ FULL SIZE KICK PLATE.
- DOOR CLOSER. CLOSES BY FIRE ALARM SIGNAL
- SLIDING BARN DOOR. "OPENING SIZE" INDICATES CLEAR OPENING. BARN DOOR IS LARGER. SEE CUTSHEET IN SPECBOOK.

DOOR SCHEDULE FINISH LEGEND: SOLID CORE WOOD DOOR

PLASTIC LAMINATE

EXISTING TO REMAIN

PAINTED

ACROVYN

BRONZE FINISH

PROJECT TITLE

NOT RATED

MARBLE

BALISTIC STEEL

ANODIZED ALUMINUM

BAST

AAL

TCMC MRI PROJECT #: SHEET NUMBER: 01907.01 DRAWN BY Author CHECKED BY Checker PER TITLE

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MECHANICAL SC ENGINEERS, INC.

ELECTRICAL: AG DESIGN, INC.

No. C 28543 7

OSHPD COMMENTS

OSHPD COMMENTS

DESCRIPTION:

OSHPD #: S200813-37-00-ACD0001

ACD 0001 DESIGN CHANGES

OF CALFOR

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MRI SHIELDING CORPORATION

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8/3/2020

8/10/2020

10/2/2020

11/24/2020

4/14/2021

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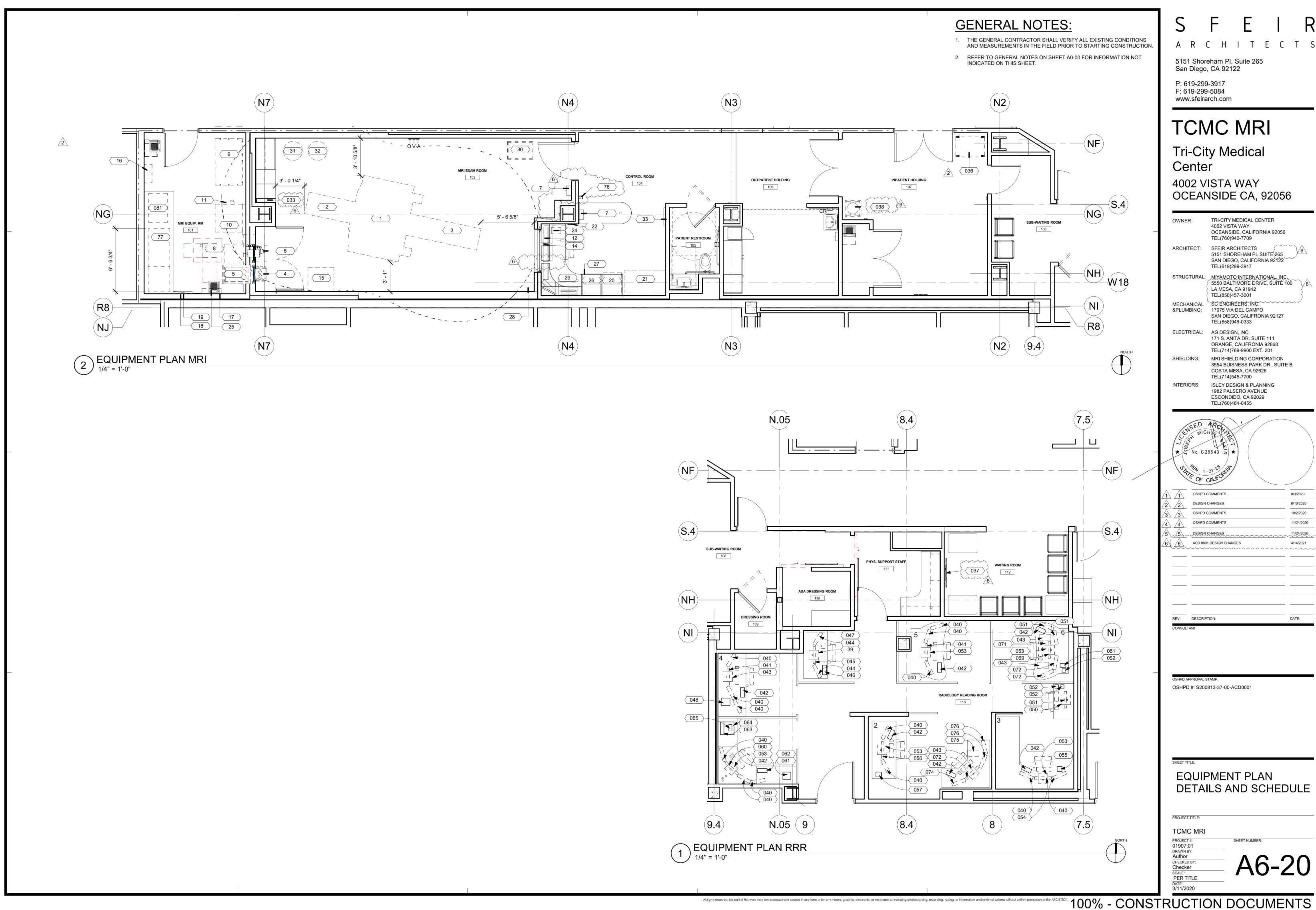
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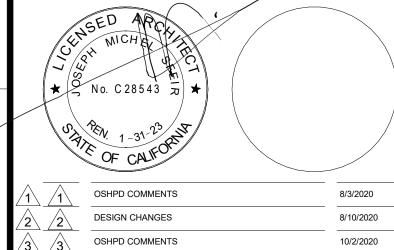
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Center

DOOR AND INTERIOR

OPENINGS SCHEDULE





							C	PFOI : OWNER	FURNISHED, CONTRAC	JIOK INS	TALLED		6 CFCI: (CONTRACTOR FURNIS	nieu, GU	NINACIU	NOTALLED		CLASSIFICA	ATION	
IPMENT#	PMENT SCHEDULE DESCRIPTION	WEIGHT (ADDDOX	LICIOLIT-E	MIDTU-h	DEDTU-4	CENTER OF PLAN	N / ELEVATION	^					EMEDOENI	N EL ECTRICA	LIFAT.	CIECNIC	ED ED	OVABLE OBILE UNTER TOP	OUNTERTOR	TERIM OTHER SSENTIAL
001	3T MAGNET	,	,		98.3"	DEPTH=d 80.7"	MASS (in) 42.1"	DETAIL 10/S4-1	REMARKS 5 SEE NOTE #1 & #2,		EW OFO	I OFCI	CFCI QUAN	TITY VOLTAGE POWER		AL HEAT LOAD (BTUs)	SIESMIC CALCS PLUMBING	S 定 x	ž ž ÖÜ	8 = 1	<u>Z</u> <u>W</u>
001_/	REAR PEDESTAL	212	LBS /6	<u> -</u>	90.3	-		10/S4-1 10/S4-1	GE-1 SEE NOTE #2, GE-2		x x		- 1		-	0,109			x		- -
003	GEM PATIENT TABLE 6	500	LBS	40.0"	40.35"	89.65"		10/S4-1	SEE NOTE #2, GE-3		X 6 -	$\langle x \rangle$	- 1		-	-		-	- x -	- -	
004	BLOWER BOX	-	-	-	-	-		-	SEE NOTE #2, GE-6		Х Х	-	- 1		-	1,535 1,024/		х			
005	PENETRATION CABINET 6 SECONDARY PENETRATION WALL	650 92	LBS LBS	75.6" 60.53"	36" 17.62"	35.04" 20.42"	23.5"	3/S4-1 4/S4-1	SEE NOTE #2, GE-7 SEE NOTE #2, GE-8		x x x x	-	- 1		-	1,024/		X		- -	
007	MAGNET RUNDOWN UNIT	7	LBS	8.1"	11.3"	5.6"	<u> </u>	-	SEE NOTE #2, GE-4		X 6 (-)	(X)	- (2	6	-	-		х			- -
008	CRYOCOOLER COMPRESSOR	264	LBS	23.25"	17.72"	17.72"	13.15"	6/S4-1	SEE NOTE #2, GE-12		X X	-	- 1		-	1,706		-	- x -		- -
009	POWER, GRADIENT, RF CABINET HEAT EXCHANGER CABINET	3,144 1,350	LBS LBS	74.6" 74.6"	58.27" 46"	34.33" 34.33"	28.38"	3/S4-1 3/S4-1	SEE NOTE #2, GE-9 SEE NOTE #2, GE-10		X X	-	- 1		-	20,940 3,412		X			
011	MAGNET MONITOR	10	LBS	11.25"	15"	5"		-	SEE NOTE #2, GE-11		X X	-	- 1		-	819		х		- -	
012	OPERATOR CONSOLE COMPUTER	141.75	LBS	23.35"	15.79"	29.72"	11.73"	3/S4-1	SEE NOTE #2, GE-13	-	Х Х	-	- 1		-	4,947		X			
013 >	NOT USED PNEUMATIC PATIENT ALERT	0.5	LBS	2.5"	3"	4.375"		_	SEE NOTE #2, GE-15	-	X X	-	- 1		-	-	/	6 -		x	
015	PHANTOM CABINET SET STORAGE CABINET	350	LBS	60"	31.75"	32.5"		6/S4-1	SEE NOTE #2, GE-5	-	х х	-	- 1		-	-		+	x		
016 >	MAIN DISCONNECT PANEL WATER FILTER	130	LBS	36.3"	26.3"	12.3"	18.5"	4/54-1 /6	SEE NOTE #2, GE-17 SEE NOTE #2, GE-19		X - X -	X	- 1		-	901		X			- -
017	DC LIGHTING CONTROLLER	-	-	-	-	-		-	SEE NOTE #2, GE-19	h .	X -	-	X 1	5	-	1,024		X		- -	+-
019	DC LIGHTING TRANSFORMER	_	-	-	-	-		-	SEE NOTE #2, GE-23	-	X -	-	X 1		-	171		х		- -	
020 \	PYXIS MEDSTATION 2 DRAWER MAIN PYXIS DOUBLE COLUMN 1	640	LBS	27.8" 79.5"	27" 28"	22.8" 52"	-	- 6/S3-1 3	- \(\sqrt{5} \)		X - X -	X	- 1 - 1		-	-		x	- - -	- -	- -
021	REMOTE GRAPHIC DISPLAY	0.5	LBS	-	-	-		-			X -	X	- 1		-	-		X			_ -
023 >	NOT USED	-		-	-	-		-	- <u>/5</u>		X -	-			-	-		х		- -	
024 >	700 VA PARTIAL UPS WATER BYPASS	26	LBS	-	-	-		-	SEE NOTE #2, GE-16 SEE NOTE #2, GE-21		x	6 -	- 1 X 1		-	-		- x	-	- -	- -
026	PRINTER	28	LBS		-	-		-	-		X X	-	- 1		-	-		-	x	- -	
027	RECYCLE BIN	5	LBS	-	-	-		-	-		X X	-	- 1		-	-		-	x	- -	- -
028 \ 029 \	CCTV MONITOR CERNER STATION	16 16	LBS LBS	-	-	-		-	-		X - X -	- X	X 1		-	-		-	x		- -
030	ANESTHESIA CART	180	LBS	-	-	-		-	-	-	х х	-	- 1		-	-		-	- x -		
031 >	MOBILE PHYSIO MONITOR MOBILE INJECTOR	-	-	-	-	-		-	<u>-</u>		X X	-	- 1		-	-		-	- X -		- -
032 /	SLIDE TRANSFER & WALL RACK			-	-	-		-	-		x x	-	- 1		-	-		-	- x -		
034 >	DIMPLEX CHILLER	4,400	LBS	100"	86"	31.4"	47"	1/S2-30	SEE NOTE #2, GE-18	~	X -	Х	- 1		-	240,002		х		- -	- -
035	SPLIT SYSTEM CONDENSER UNIT CRASH CART.	479 135	LBS	71 5/8"	36 1/4"	29 3/16"	26\	2/S2-30	-	70	x } - - x	-	X 1		-	-		-		- -	
037	42" FLAT SCREEN TV.	26	LBS	-	-	-		-	-		X -	X	- 1		-	-		x		- -	
038 >	SOILED LINEN CART.	20	LBS	-	-	-		-	-		X X	-	- 1		-	-		-	- x -	- -	- -
039 >	PC MCKESSON MONITOR DISPLAY SONY	27.12	LBS LBS	16.5" 22.5"	7" 14.5"	18.5" 8"		- /5\	SEE NOTE #3: 1, SEE NOTE #3: 1,3,4,5,9	, , , , , , , , , , , , , , , , , , ,	- X	} - } -	- 1		-	-		-		x -	
041	MONITOR DISPLAY ACER	7.4	LBS	22.5"	13"	5.5"		-	SEE NOTE #3: 1,9		- X	4	- 2		-	-		-		x -	
042	PHONE NORTEL	3.34	LBS	5"	12"	8.5"			NOTE #3: 1,3,4,5,6,9,10		- X	-	- 7		-	-		-		x -	- -
043 >	PC DELL (01) MONITOR DISPLAY BARCO (LARGE)	29.76	LBS LBS	14" 22.5"	7" 16"	16.5" 8"		-	SEE NOTE #2: 1,8 SEE NOTE #3: 1	, , , , , , , , , , , , , , , , , , ,	-	1 -	- 2 - 1		-	-		++			- -
045	MONITOR DISPLAY BARCO (SMALL)	22	LBS	18"	18"	9"		-	SEE NOTE #3: 1	Х	- X	-	- 1		-	-		-		x -	
046 \ 047 \	PHONE SHORETEL APC SURGE PROTECTOR	1.5 2.3	LBS LBS	5" 2.5"	10" 8"	7" 8"		-	SEE NOTE #3: 1 SEE NOTE #3: 1,7,		-	→	- 1 - 2		-	-		-		x -	
048	APC UPS	12.13	LBS	4"	7"	11"		-	SEE NOTE #3: 1,		- X	₹	- 1		-	-		-		x -	
049	X-RAY VIEWER	8.8	LBS	21"	28"	4"		-	-		- X	-	- 1		-	-		-		x -	
050 \ 051 \	PC DELL (02) MONITOR DISPLAY MCKESSON	24 -	LBS	18" 21"	7" 18.5"	17.5" 9"		- <u>/5</u> -	SEE NOTE #3: 2, SEE NOTE #3: 2,8		- X	4	- 1		-	-		-		x -	
052	NETWORK SWITCH	0.66	LBS	1"	4"	4"		-	SEE NOTE #3: 2,8		- X	}	- 2		-	-		-		x -	
053	PC DELL (03)	24	LBS	14"	7"	17" 7"		-	SEE NOTE #3: 3,8,9	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	- X	4	- 3		-	-					<u>-</u>
054 055	MONITOR DISPLAY DELL APC UPS 350	9.22	LBS LBS	3.5"	13" 10"	6"		-	SEE NOTE #3: 3 SEE NOTE #3: 3	, , , , , , , , , , , , , , , , , , ,	- X	┥	- 1 - 1		-	-					
056_>	MONITOR DISPLAY VIEWSONIC	14.9	LBS	21.5"	12"	9"		-	SEE NOTE #3: 4,	Х	- X	-	- 1		-	-				x -	
057 \ 058 \	APC UPS 550 X-RAY BOARD	12.13 48	LBS LBS	3.5"	7" 57"	11" 40"		-	SEE NOTE #3: 4,	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	- X	-	- 1 - 1		-	-					- -
058 >	X-RAY VIEWER	22	LBS	5"	31"	36"		-	-	X	- X	-	- 1		-	-					-
060	MONITOR DISPLAY ACER	9.4	LBS	23"	13"	10"		- \(\sum_5 \)	SEE NOTE #3: 5,	-	- X	-	- 1		-	-				x -	- -
061 >	CYBER POWER UPS 550 NETGEAR ROUTER	5.9 4.8	LBS LBS	3.5" 1.5"	10" 4"	9" 4.5"		-	SEE NOTE #3: 5,8 SEE NOTE #3: 5,	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	- X	-	- 2 - 1		-	-		-			- -
063	ONKYO A/V TUNER	20.5	LBS	6"	18"	12"		-	SEE NOTE #3: 5,	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	- X	-	- 1		-	-		-			- -
064	DENON CD CHANGER	12.66	LBS	4.5"	17"	16" 4"		-	SEE NOTE #3: 5,	,	- X	-	- 1		-	-				x -	- -
065 >	PC DELL	2 28	LBS LBS	2.5"	8.5" 4"	12"		-	SEE NOTE #3: 5, SEE NOTE #3: 6,	, , , , , , , , , , , , , , , , , , ,	- X - X	-	- 1 - 1		-	-					- -
067	MONITOR DISPLAY DELL	23	LBS	19"	22"	8"		-	SEE NOTE #3: 6,	Х	- X	-	- 1		-	-		-			- -
068 >	SCANNER PC DELL	16 27	LBS LBS	12" 12"	12" 4"	9" 12"		-	SEE NOTE #3: 6, SEE NOTE #3: 7,8,		- X	-	- 1 - 2		-	-		-		x -	
070	MONITOR DISPLAY HP	27.5	LBS	15"	18.5"	8"		-	SEE NOTE #3: 7,8, SEE NOTE #3: 7,		- X	-	- 2		-	-				x -	- -
071	BLACK BOX PC SELECTOR	8	LBS	4"	10.5"	6"		-	SEE NOTE #3: 8,	, ,	- X	-	- 1		-	-					- -
072 >	MONITOR DISPLAY DELL X-RAY BOARD	15 56	LBS LBS	17" 5"	16" 87"	8" 36"		-	SEE NOTE #3: 8,		- X	-	- 1		-	-					- -
074	PC DELL	28	LBS	24"	8.5"	20.5"		-	SEE NOTE #3: 8, SEE NOTE #3: 10,	V	- X	-	- 1		-	-		-			- -
075	MONITOR DISPLAY ACER	12	LBS	19"	25.5"	8"		-	SEE NOTE #3: 10,	,,	- X	-	- 1		-	-					- -
076 >	MONITOR DISPLAY ACER UPS AND BATTERY CABINET.	10	LBS	23" 70.7"	12" 36"	8"		- 3/S4-1	SEE NOTE #3: 10,	,,	- X X -	-	- 1 - 1	5	-	-		- X		x -	- -
078	UPS AND BATTERY CABINET. HAND-HELD FERRO-MAGNETIC WAND DETECTOR	6 2,250	-	<u>-</u>	36"	- }		-	SEE NOTE #2, GE-24		X -	-	_ 1		-	-		X	-	_ -	
079	NOT USED NOT USED	······································		-	-	-			5 -	-		-			-	-		-	- - -	- -	
080 / (NOT USED 5	1	I		T. Control of the Con	_		_		1	1	_	. 1	7.3.1	_	_	_ _	1 - [- - -	- -	- -

GENERAL NOTES:

- 1. THE GENERAL CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS AND MEASUREMENTS IN THE FIELD PRIOR TO STARTING CONSTRUCTION.
- 2. REFER TO GENERAL NOTES ON SHEET A0-00 FOR INFORMATION NOT INDICATED ON THIS SHEET.

EQUIPMENT SCHEDULE NOTES:

- 1. GENERAL CONTRACTOR IS RESPONSIBLE TO PROTECT THE FINISH FLOOR & PROVIDE STEEL PLATES AS NEEDED TO PREVENT DAMAGE TO THE EXTERIOR AND INTERIOR SLAB ON GRADE.
- 2. SEE GE DRAWINGS FOR REFERENCE.

3. EXISTING EQUIPMENT. SUBSEQUENT NUMBERS SHOWN IN THE SCHEDULE)

ARE FOR FACILITY REFERENCE ONLY.

4. PATIENT TABLE DOCK MOUNTING PER GE-S3 TO BE CONTRACTOR FURNISHED AND INSTALLED.

ARCHITECTS

5151 Shoreham PI, Suite 265 San Diego, CA 92122

P: 619-299-3917 F: 619-299-5084 www.sfeirarch.com

TCMC MRI

Tri-City Medical Center

4002 VISTA WAY OCEANSIDE CA, 92056

OWNER: TRI-CITY MEDICAL CENTER
4002 VISTA WAY
OCEANSIDE, CALIFORNIA 92056
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ARCHITECT: SFEIR ARCHITECTS
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TEL(619)299-3917

STRUCTURAL: MIYAMOTO INTERNATIONAL, INC.

5550 BALTIMORE DRIVE, SUITÉ 100

LA MESA, CA 91942

TEL(858)457-3001

MECHANICAL

&PLUMBING: 17075 VIA DEL CAMPO

SAN DIEGO, CALIFRONIA 92127

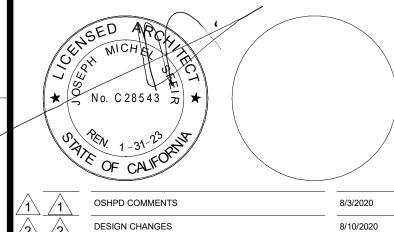
SAN DIEGO, CALIFORNIA 92122

ELECTRICAL: AG DESIGN, INC. 171 S. ANITA DR. SUITE 111 ORANGE, CALIFRONIA 92868 TEL(714)769-9900 EXT. 201

TEL(858)946-0333

SHIELDING: MRI SHIELDING CORPORATION
3554 BUISNESS PARK DR., SUITE B
COSTA MESA, CA 92626
TEL(714)545-7700

INTERIORS: ISLEY DESIGN & PLANNING 1982 PALSERO AVENUE ESCONDIDO, CA 92029 TEL(760)484-0455



OSHPD COMMENTS

10/2/2020

11/24/2020

5

DESIGN CHANGES

11/24/2020

ACD 0001 DESIGN CHANGES

4/14/2021

REV: DESCRIPTION: DATI

OSHPD APPROVAL STAMP:
OSHPD #: S200813-37-00-ACD0001

OUEFT TITLE.

EQUIPMENT SCHEDULE

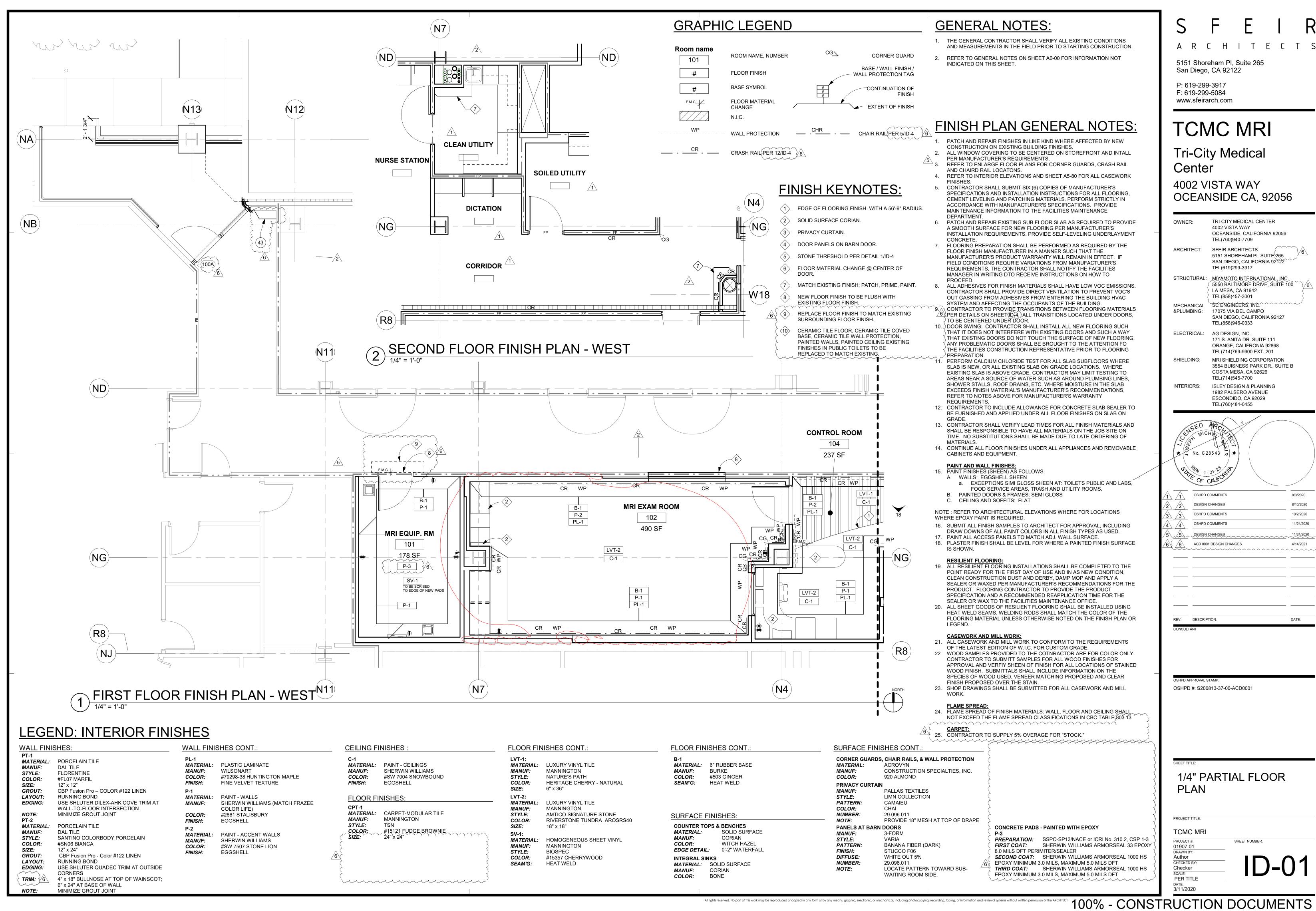
PROJECT TITLE:

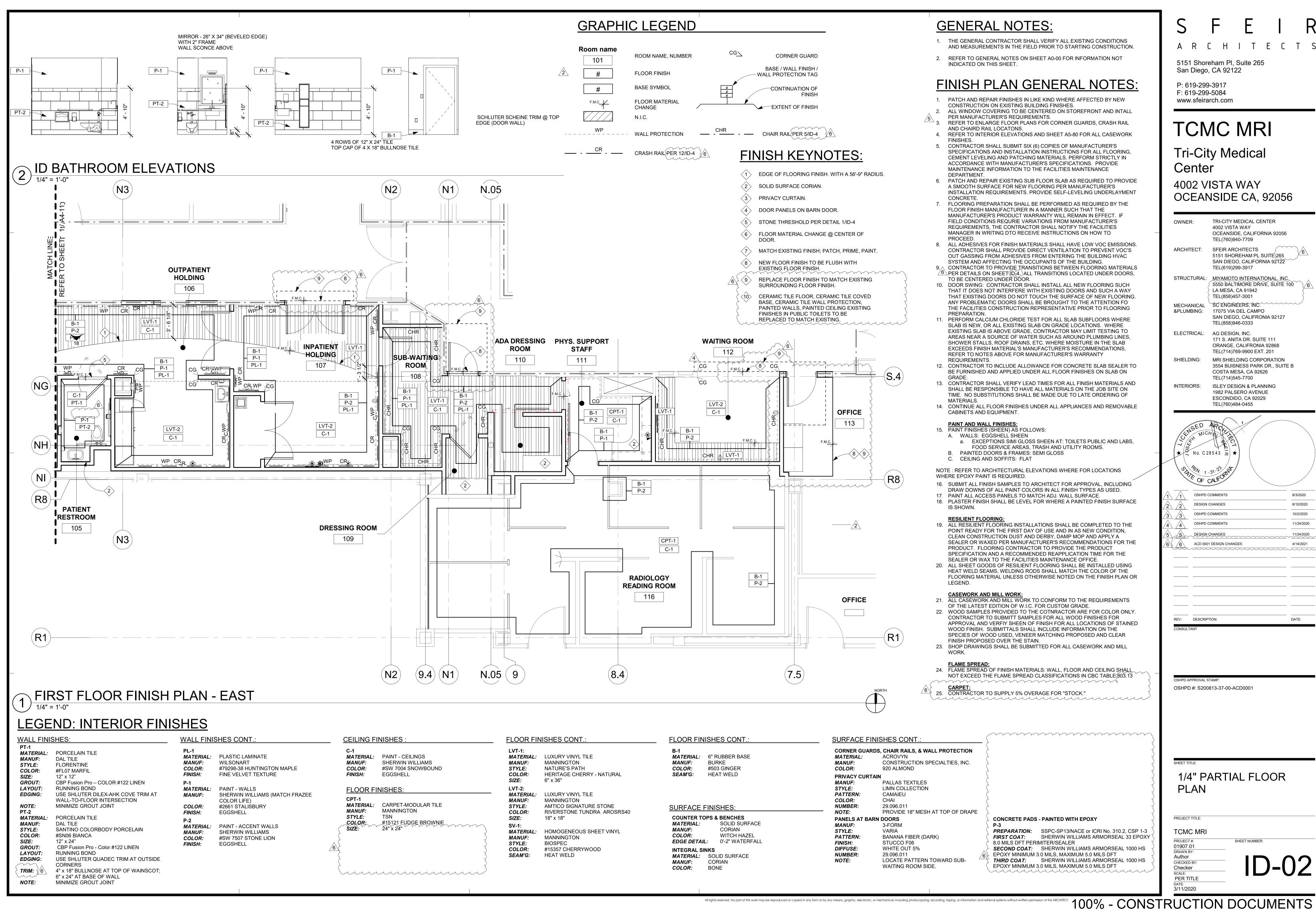
TCMC MRI

PROJECT #: SHEET NUM
01907.01

DRAWN BY:
Author
CHECKED BY:
Checker
SCALE:
PER TITLE

A6-2





GRAPHIC LEGEND Room name ROOM NAME, NUMBER **CORNER GUARD** 101 BASE / WALL FINISH / FLOOR FINISH # WALL PROTECTION TAG BASE SYMBOL # CONTINUATION OF FLOOR MATERIAL F.M.C. EXTENT OF FINISH CHANGE N.I.C. CHAIR RAIL PER 5/ID-4 3/6 WALL PROTECTION ___ - ___CR - ___ CRASH RAIL PER 12/ID-4 6

FINISH KEYNOTES:

- (1) EDGE OF FLOORING FINISH. WITH A 56'-9" RADIUS.
- (2) SOLID SURFACE CORIAN.
- (3) PRIVACY CURTAIN.
- DOOR PANELS ON BARN DOOR.
- STONE THRESHOLD PER DETAIL 1/ID-4

SURROUNDING FLOOR FINISH.

- (6) FLOOR MATERIAL CHANGE @ CENTER OF
- MATCH EXISTING FINISH; PATCH, PRIME, PAINT.
- NEW FLOOR FINISH TO BE FLUSH WITH EXISTING FLOOR FINISH. REPLACE FLOOR FINISH TO MATCH EXISTING
- CERAMIC TILE FLOOR, CERAMIC TILE COVED BASE, CERAMIC TILE WALL PROTECTION, PAINTED WALLS, PAINTED CEILING EXISTING FINISHES IN PUBLIC TOILETS TO BE REPLACED TO MATCH EXISTING.

GENERAL NOTES:

- 1. THE GENERAL CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS AND MEASUREMENTS IN THE FIELD PRIOR TO STARTING CONSTRUCTION.
- 2. REFER TO GENERAL NOTES ON SHEET A0-00 FOR INFORMATION NOT INDICATED ON THIS SHEET.

FINISH PLAN GENERAL NOTES:

- 1. PATCH AND REPAIR FINISHES IN LIKE KIND WHERE AFFECTED BY NEW CONSTRUCTION ON EXISTING BUILDING FINISHES.
- ALL WINDOW COVERING TO BE CENTERED ON STOREFRONT AND INTALL PER MANUFACTURER'S REQUIREMENTS. REFER TO ENLARGE FLOOR PLANS FOR CORNER GUARDS, CRASH RAIL
- AND CHAIRD RAIL LOCATONS. REFER TO INTERIOR ELEVATIONS AND SHEET A5-80 FOR ALL CASEWORK FINISHES. CONTRACTOR SHALL SUBMIT SIX (6) COPIES OF MANUFACTURER'S
- SPECIFICATIONS AND INSTALLATION INSTRUCTIONS FOR ALL FLOORING, CEMENT LEVELING AND PATCHING MATERIALS. PERFORM STRICTLY IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS. PROVIDE MAINTENANCE INFORMATION TO THE FACILITIES MAINTENANCE DEPARTMENT
- PATCH AND REPAIR EXISTING SUB FLOOR SLAB AS REQUIRED TO PROVIDE A SMOOTH SURFACE FOR NEW FLOORING PER MANUFACTURER'S INSTALLATION REQUIREMENTS. PROVIDE SELF-LEVELING UNDERLAYMENT
- 7. FLOORING PREPARATION SHALL BE PERFORMED AS REQUIRED BY THE FLOOR FINISH MANUFACTURER IN A MANNER SUCH THAT THE MANUFACTURER'S PRODUCT WARRANTY WILL REMAIN IN EFFECT. IF FIELD CONDITIONS REQURIE VARIATIONS FROM MANUFACTURER'S REQUIREMENTS. THE CONTRACTOR SHALL NOTIFY THE FACILITIES MANAGER IN WRITING DTO RECEIVE INSTRUCTIONS ON HOW TO
- 8. ALL ADHESIVES FOR FINISH MATERIALS SHALL HAVE LOW VOC EMISSIONS. CONTRACTOR SHALL PROVIDE DIRECT VENTILATION TO PREVENT VOC'S OUT GASSING FROM ADHESIVES FROM ENTERING THE BUILDING HVAC SYSTEM AND AFFECTING THE OCCUPANTS OF THE BUILDING.
- 9. CONTRACTOR TO PROVIDE TRANSITIONS BETWEEN FLOORING MATERIALS 6 PER DETAILS ON SHEET(10.4.) ALL TRANSITIONS LOCATED UNDER DOORS, TO BE CENTERED UNDER DOOR.
- 10. DOOR SWING: CONTRACTOR SHALL INSTALL ALL NEW FLOORING SUCH THAT IT DOES NOT INTERFERE WITH EXISTING DOORS AND SUCH A WAY THAT EXISTING DOORS DO NOT TOUCH THE SURFACE OF NEW FLOORING. ANY PROBLEMATIC DOORS SHALL BE BROUGHT TO THE ATTENTION FO THE FACILITIES CONSTRUCTION REPRESENTATIVE PRIOR TO FLOORING
- PREPARATION. 11. PERFORM CALCIUM CHLORIDE TEST FOR ALL SLAB SUBFLOORS WHERE SLAB IS NEW, OR ALL EXISTING SLAB ON GRADE LOCATIONS. WHERE EXISTING SLAB IS ABOVE GRADE. CONTRACTOR MAY LIMIT TESTING TO AREAS NEAR A SOURCE OF WATER SUCH AS AROUND PLUMBING LINES. SHOWER STALLS, ROOF DRAINS, ETC. WHERE MOISTURE IN THE SLAB EXCEEDS FINISH MATERIAL'S MANUFACTURER'S RECOMMENDATIONS. REFER TO NOTES ABOVE FOR MANUFACTURER'S WARRANTY REQUIREMENTS.
- 12. CONTRACTOR TO INCLUDE ALLOWANCE FOR CONCRETE SLAB SEALER TO BE FURNISHED AND APPLIED UNDER ALL FLOOR FINISHES ON SLAB ON
- 13. CONTRACTOR SHALL VERIFY LEAD TIMES FOR ALL FINISH MATERIALS AND SHALL BE RESPONSIBLE TO HAVE ALL MATERIALS ON THE JOB SITE ON TIME. NO SUBSTITUTIONS SHALL BE MADE DUE TO LATE ORDERING OF MATERIALS.
- 14. CONTINUE ALL FLOOR FINISHES UNDER ALL APPLIANCES AND REMOVABLE CABINETS AND EQUIPMENT.

PAINT AND WALL FINISHES:

- 15. PAINT FINISHES (SHEEN) AS FOLLOWS: A. WALLS: EGGSHELL SHEEN
- a. EXCEPTIONS SIMI GLOSS SHEEN AT: TOILETS PUBLIC AND LABS, FOOD SERVICE AREAS, TRASH AND UTILITY ROOMS.
- PAINTED DOORS & FRAMES: SEMI GLOSS
- CEILING AND SOFFITS: FLAT

NOTE: REFER TO ARCHITECTURAL ELEVATIONS WHERE FOR LOCATIONS WHERE EPOXY PAINT IS REQUIRED.

- 16. SUBMIT ALL FINISH SAMPLES TO ARCHITECT FOR APPROVAL, INCLUDING DRAW DOWNS OF ALL PAINT COLORS IN ALL FINISH TYPES AS USED.
- 17. PAINT ALL ACCESS PANELS TO MATCH ADJ. WALL SURFACE. 18. PLASTER FINISH SHALL BE LEVEL FOR WHERE A PAINTED FINISH SURFACE

- 19. ALL RESILIENT FLOORING INSTALLATIONS SHALL BE COMPLETED TO THE POINT READY FOR THE FIRST DAY OF USE AND IN AS NEW CONDITION. CLEAN CONSTRUCTION DUST AND DERBY, DAMP MOP AND APPLY A SEALER OR WAXED PER MANUFACTURER'S RECOMMENDATIONS FOR THE PRODUCT. FLOORING CONTRACTOR TO PROVIDE THE PRODUCT SPECIFICATION AND A RECOMMENDED REAPPLICATION TIME FOR THE
- SEALER OR WAX TO THE FACILITIES MAINTENANCE OFFICE. 20. ALL SHEET GOODS OF RESILIENT FLOORING SHALL BE INSTALLED USING HEAT WELD SEAMS, WELDING RODS SHALL MATCH THE COLOR OF THE FLOORING MATERIAL UNLESS OTHERWISE NOTED ON THE FINISH PLAN OR

ALL CASEWORK AND MILL WORK TO CONFORM TO THE REQUIREMENTS OF THE LATEST EDITION OF W.I.C. FOR CUSTOM GRADE. 22. WOOD SAMPLES PROVIDED TO THE COTNRACTOR ARE FOR COLOR ONLY. CONTRACTOR TO SUBMITT SAMPLES FOR ALL WOOD FINISHES FOR APPROVAL AND VERFIY SHEEN OF FINISH FOR ALL LOCATIONS OF STAINED WOOD FINISH. SUBMITTALS SHALL INCLUDE INFORMATION ON THE

SPECIES OF WOOD USED, VENEER MATCHING PROPOSED AND CLEAR

FINISH PROPOSED OVER THE STAIN. 23. SHOP DRAWINGS SHALL BE SUBMITTED FOR ALL CASEWORK AND MILL

- 24. FLAME SPREAD OF FINISH MATERIALS: WALL, FLOOR AND CEILING SHALL NOT EXCEED THE FLAME SPREAD CLASSIFICATIONS IN CBC TABLE (803.13
- 25. CONTRACTOR TO SUPPLY 5% OVERAGE FOR "STOCK."

1 FIRST FLOOR FINISH PLAN - RESTROOM

LEGEND: INTERIOR FINISHES

F 1-1	
MATERIAL:	PORCELAIN TILE
MANUF:	DAL TILE
STYLE:	FLORENTINE
COLOR:	#FL07 MARFIL
SIZE:	12" x 12"
GROUT:	CBP Fusion Pro – COLOR #122 LINEN
LAYOUT:	RUNNING BOND
EDGING:	USE SHLUTER DILEX-AHK COVE TRIM AT
	WALL-TO-FLOOR INTERSECTION
NOTE:	MINIMIZE GROUT JOINT
PT-2	
MATERIAL:	PORCELAIN TILE
MANUF:	DAL TILE
STYLE:	SANTINO COLORBODY PORCELAIN
COLOR:	#SN06 BIANCA
SIZE:	12" x 24"
GROUT:	CBP Fusion Pro - Color #122 LINEN
LAYOUT:	RUNNING BOND
EDGING:	USE SHLUTER QUADEC TRIM AT OUTSIDE
	CORNERS
<i>TRIM:</i> ₹/6\	4" x 18" BULLNOSE AT TOP OF WAINSCOT;
	6" x 24" AT BASE OF WALL
NOTE	MINIMIZE CROUT IOINT
	-

WALL FINISHES:

MATERIAL: PLASTIC LAMINATE WILSONART MANUF: COLOR: #79298-38 HUNTINGTON MAPLE FINISH: FINE VELVET TEXTURE PAINT - WALLS MATERIAL: SHERWIN WILLIAMS (MATCH FRAZEE COLOR LIFE) COLOR: #2661 STALISBURY FINISH: **EGGSHELL**

PAINT - ACCENT WALLS

SHERWIN WILLIAMS

#SW 7507 STONE LION

EGGSHELL

WALL FINISHES CONT.

MATERIAL:

MANUF:

COLOR:

FINISH:

CEILING FINISHES

MATERIAL: PAINT - CEILINGS SHERWIN WILLIAMS MANUF: COLOR: #SW 7004 SNOWBOUND FINISH: EGGSHELL

FLOOR FINISHES:

MATERIAL: CARPET-MODULAR TILE MANNINGTON STYLE: #15121 FUDGE BROWNIE

FLOOR FINISHES CONT.

MATERIAL: LUXURY VINYL TILE MANNINGTON MANUF: STYLE: NATURE'S PATH COLOR: HERITAGE CHERRY - NATURAL SIZE: 6" x 36" LVT-2: MATERIAL: LUXURY VINYL TILE

MANUF: MANNINGTON AMTICO SIGNATURE STONE STYLE: COLOR: RIVERSTONE TUNDRA AROSRS40 SIZE: 18" x 18" SV-1: MANUF:

STYLE:

COLOR:

HOMOGENEOUS SHEET VINYL MANNINGTON BIOSPEC #15357 CHERRYWOOD **HEAT WELD** SEAM'G:

FLOOR FINISHES CONT.

MATERIAL: 6" RUBBER BASE BURKE MANUF: COLOR: #503 GINGER SEAM'G: **HEAT WELD**

SURFACE FINISHES:

COUNTER TOPS & BENCHES MATERIAL: SOLID SURFACE MANUF: CORIAN WITCH HAZEL COLOR: **EDGE DETAIL:** 0'-2" WATERFALI INTEGRAL SINKS **MATERIAL:** SOLID SURFACE MANUF: CORIAN COLOR: BONE

SURFACE FINISHES CONT

PATTERN:

FINISH:

NOTE:

DIFFUSE:

NUMBER:

CORNER GUARDS, CHAIR RAILS, & WALL PROTECTION MATERIAL: ACROVYN CONSTRUCTION SPECIALTIES, INC. MANUF: COLOR: 920 ALMOND PRIVACY CURTAIN MANUF: PALLAS TEXTILES STYLE: LIMN COLLECTION PATTERN: CAMAIEU COLOR: **NUMBER:** 29.096.011 PROVIDE 18" MESH AT TOP OF DRAPE NOTE: PANELS AT BARN DOORS MANUF: 3-FORM STYLE: VARIA

STUCCO F06

29.096.011

WHITE OUT 5%

BANANA FIBER (DARK)

WAITING ROOM SIDE.

LOCATE PATTERN TOWARD SUB-

CONCRETE PADS - PAINTED WITH EPOXY

SSPC-SP13/NACE or ICRI No. 310.2, CSP 1-3 PREPARATION: FIRST COAT: SHERWIN WILLIAMS ARMORSEAL 33 EPOXY 8.0 MILS DFT PERIMITER/SEALER SECOND COAT: SHERWIN WILLIAMS ARMORSEAL 1000 HS EPOXY MINIMUM 3.0 MILS, MAXIMUM 5.0 MILS DFT THIRD COAT: SHERWIN WILLIAMS ARMORSEAL 1000 HS EPOXY MINIMUM 3.0 MILS, MAXIMUM 5.0 MILS DFT

1/4" PARTIAL FLOOR PLAN

PROJECT TITLE: TCMC MRI PROJECT #: SHEET NUMBER: 01907.01 DRAWN BY CHECKED BY Checker

3/11/2020

TCMC MRI Tri-City Medical

4002 VISTA WAY OCEANSIDE CA, 92056

5151 Shoreham Pl, Suite 265

San Diego, CA 92122

P: 619-299-3917

F: 619-299-5084

Center

www.sfeirarch.com

TRI-CITY MEDICAL CENTER OWNER: 4002 VISTA WAY OCEANSIDE, CALIFORNIA 92056 TEL(760)940-7709 ARCHITECT: SFEIR ARCHITECTS 5151 SHOREHAM PL SUITE 265 SAN DIEGO, CALIFORNIA 92122 TEL(619)299-3917 STRUCTURAL: MIYAMOTO INTERNATIONAL, INC.

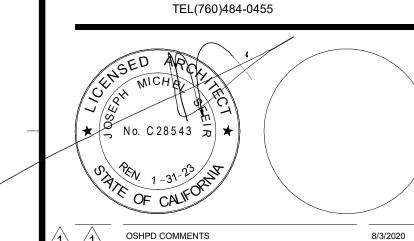
5550 BĂLŤIMOŘE ĎŘIVĚ, ŠUITE 100 /6 LA MESA, CA 91942 TEL(858)457-3001 MECHANICAL SC ENGINEERS, INC. 17075 VIA DEL CAMPO SAN DIEGO, CALIFRONIA 92127

TEL(858)946-0333

ESCONDIDO, CA 92029

ELECTRICAL: AG DESIGN, INC. 171 S. ANITA DR. SUITE 111 ORANGE, CALIFRONIA 92868 TEL(714)769-9900 EXT. 201 MRI SHIELDING CORPORATION 3554 BUISNESS PARK DR., SUITE B

COSTA MESA, CA 92626 TEL(714)545-7700 ISLEY DESIGN & PLANNING INTERIORS: 1982 PALSERO AVENUE



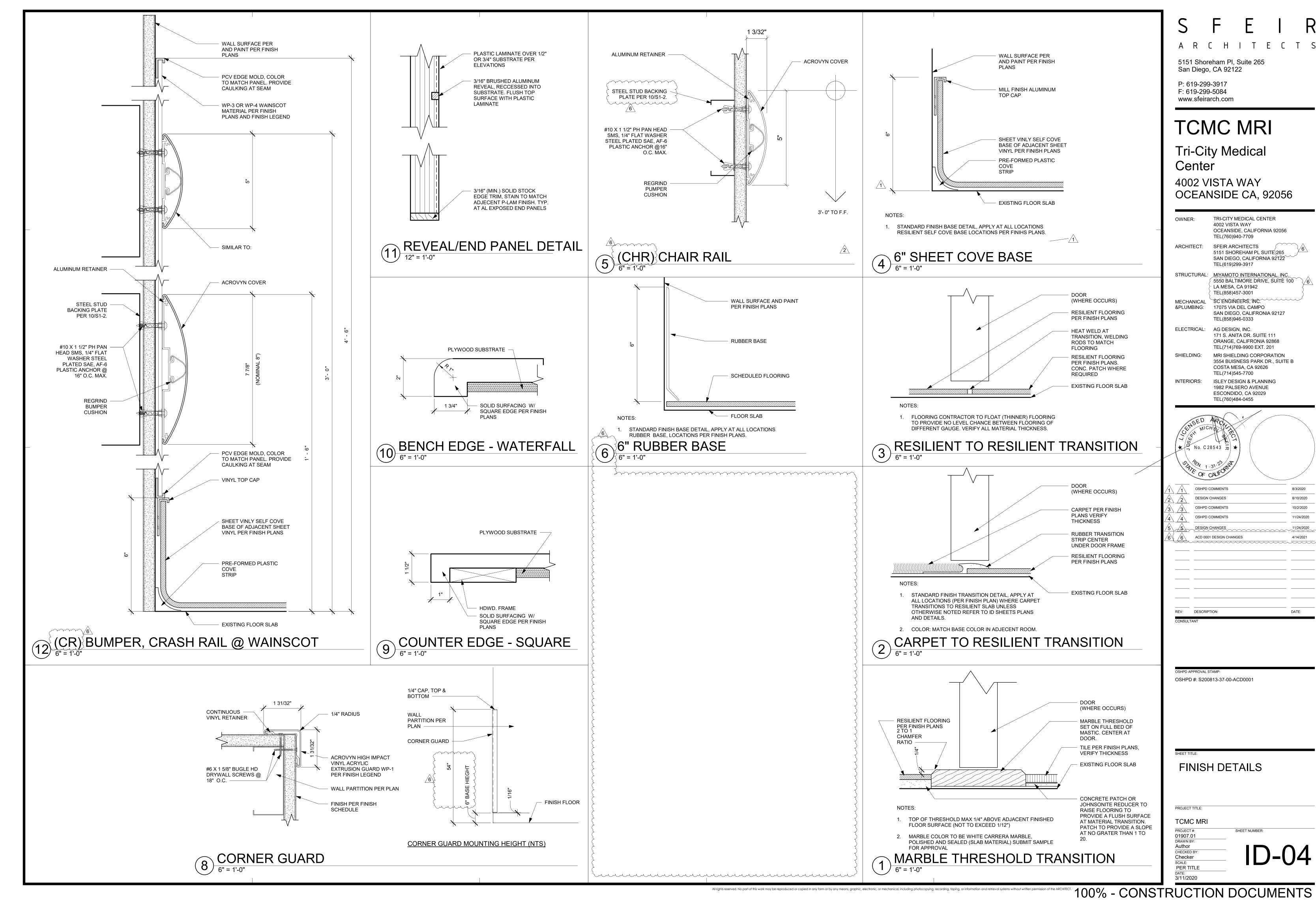
OSHPD COMMENTS 8/10/2020 OSHPD COMMENTS 10/2/2020 11/24/2020

DESCRIPTION:

ACD 0001 DESIGN CHANGES

OSHPD #: S200813-37-00-ACD0001

PER TITLE



PRODUCT REPORTS

- FOR ALL ITEMS IN THE CONSTRUCTION DOCUMENTS NOT NOTED WITH A SPECIFIC PRODUCT NAME OR MANUFACTURER, THE CONTRACTOR SHALL PROVIDE A PRODUCT SPECIFIED IN THE
- THE FOLLOWING PRODUCTS SHALL BE INSTALLED PER THE REQUIREMENTS OF THE REFERENCED PRODUCT REPORTS BELOW, UNO.
- A PRODUCT MAY BE SUBSTITUTED FOR A LIKE PRODUCT PER THE SCHEDULE BELOW IF APPROVED BY THE SEOR AND THE BUILDING OFFICIAL.
- PRODUCTS SPECIFIED BY TYPE MAY USE ANY FROM THE SCHEDULE BELOW.

ICC#	IAPMO#
ESR-1917	-
ESR-3173	-
ESR-3037	-
D+ SD1 ESR-2818	-
D+ ESR-2502	-
ESR-3187	-
ESR-3814	-
ESR-2508	-
-	0263
ESR-2583	-
D ESR-2582	_
ESR-3298	
ESR-3027	
ESR-2713	_
T+ ESR-2526	-
ESR-2272	
CUT+ ESR-3912	-
ESR-1546	-
ESR-3067	-
RSAL ESR-2269	-
ESR-1799	-
ESR-2138	_
ESR-3275	-
/EN ESR-2024	_
ESR-2682	
-	-
	0265
	0281
D ESR-3200	_
ESR-3056	
ESR-1056	
T+ ESR-1678	-
ESR-3196	-
ESR-2196	-
ESR-3332	-
ESR-3006	
	ESR-2196 ESR-3332

ANY SHEET METAL SCREW COMPLYING WITH ASTM C1513, SELF-DRILLIING AND TAPPING TYPE, WITH HEAD TYPE APPROPRIATE TO THE APPLICATION, MAY BE USED.

STRUCTURAL OBSERVATIONS

- 1. VISUAL OBSERVATIONS WILL BE PERFORMED AT THE DISCRETION OF THE OWNER, ARCHITECT EOR. AND AS REQUIRED BY THE BUILDING OFFICIAL IN ACCORDANCE WITH THE BUILDING CODE. VISUAL OBSERVATIONS SHALL NOT BE CONSIDERED AS A SUBSTITUTE FOR THE SPECIAL INSPECTION REQUIREMENTS.
- 2. IT IS THE RESPONSIBILITY OF THE GENERAL CONTRACTOR TO NOTIFY THE EOR AS TO WHEN EACH MAJOR PHASE OF CONSTRUCTION IS READY FOR OBSERVATION A MINIMUM OF FIVE (5) WORKING DAYS IN ADVANCE.
- 3. THE FOLLOWING MAJOR PHASES OF CONSTRUCTION REQUIRE A SITE VISIT AND STRUCTURAL OBSERVATION REPORT FROM THE SEOR:
 - EQUIPMENT ANCHORAGE & STRUCTURAL FRAMING, PRIOR TO CLOSING IN
- 4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ENSURING THAT NAILING, REINFORCEMENT, WELDS. CONNECTIONS. ETC. ARE VISIBLE FOR OBSERVATION WHEN THE SEOR IS ON SITE AND FOR ANY SCHEDULING DELAYS DUE TO NONCOMPLIANT ITEMS FOUND DURING THE OBSERVATION.

STRUCTURAL TEST AND INSPECTIONS

1. SEE OSHPD TESTING, INSPECTION AND OBSERVATION PROGRAM.

EXISTING CONDITIONS

- 1. SEE "AS BUILT" DRAWINGS FOR EXISTING BUILDING ITEMS NOT SHOWN OR NOTED.
- 2. FIELD VERIFY ALL CONDITIONS & DIMENSIONS PRIOR TO SHOP DRAWING PRODUCTION AND FABRICATION OF STRUCTURAL ELEMENTS.
- 3. WHERE ALL OTHER EXISTING CONDITIONS VARY SIGNIFICANTLY FROM THOSE SHOWN ON THESE DRAWINGS. THE STRUCTURAL ENGINEER SHALL BE NOTIFIED PRIOR TO CONTINUED CONSTRUCTION RELATED TO SUBJECT CONDITIONS.
- 4. SHORE ALL EXISTING CONSTRUCTION AS REQUIRED, INCLUDING WHERE WELDING TO EXISTING STEEL FRAMING. SHORING DESIGN BY OTHERS.
- 5. ALL EXISTING CONCRETE SURFACES TO BE IN CONTACT WITH NEW CONCRETE SHALL BE CLEANED AND ROUGHENED TO 1/4" MINIMUM AMPLITUDE. USE ICC APPROVED BONDING AGENT ON EXISTING CONCRETE PRIOR TO PLACING NEW CONCRETE.
- 6. VERIFY LOCATION OF EXISTING REBAR BEFORE FABRICATION USING NON-DESTRUCTIVE TESTING. EXISTING REINFORCING SHALL BE AVOIDED WHERE DRILLING FOR POST-INSTALLED ANCHORS OR CONCRETE DOWELS.
- 7. THE GENERAL CONTRACTOR SHALL COORDINATE THE WEIGHT AND SPECIFIC LOCATION OF ALL MECHANICAL EQUIPMENT WITH THE STRUCTURAL FRAMING. IF THE EQUIPMENT DEVIATES IN WEIGHT OR LOCATION FROM THOSE INDICATED IN THE DRAWINGS, THE STRUCTURAL ENGINEER'S APPROVAL MUST BE OBTAINED PRIOR TO INSTALLATION OF THE UNITS.
- 8. ALL EXISTING WOOD FRAMING MEMBERS SUPPORTING NEW MECHANICAL UNITS SHALL BE INSPECTED FOR DAMAGE AND DETERIORATION PRIOR TO INSTALLATION OF THE UNITS. NOTIFY THE STRUCTURAL ENGINEER IF DAMAGE OR DETERIORATION IS DISCOVERED.

FOUNDATIONS AND SLABS ON GRADE

00100	7-0001 (0-1/21/11)	
	ALLOWABLE SOIL PRESSURES FOR FOOTINGS:	1500 DSE (CODE MIN)
	DEAD LOAD + LIVE LOAD DEAD LOAD + LIVE LOAD + LATERAL LOAD	,
	ALLOWABLE LATERAL SOIL BEARING PRESSURE PER FOOT OF DEPTH	100 PSF (CODE MIN)

- ALLOWABLE LATERAL SLIDING RESISTANCE, COHESION . . 135 PSF (CODE MIN) 4. SPREAD FOOTINGS ARE CENTERED UNDER WALLS AND COLUMNS, UNO.
- 5. FOOTING ELEVATIONS ARE NOTED ON THE PLANS AND DETAILS AND SHALL BE USED FOR BIDDING.
- 6. ALL TRENCHES SHALL COMPLY WITH APPLICABLE OSHA REQUIREMENTS. FOOTING BACKFILL AND UTILITY TRENCH BACKFILL WITHIN BUILDING AREA SHALL BE MECHANICALLY COMPACTED.
- 7. ALL EXCAVATIONS SHALL BE PROPERLY BACKFILLED BUT NOT BEHIND RETAINING WALLS BEFORE CONCRETE OR MASONRY ATTAINS ITS FULL DESIGN STRENGTH.
- 8. THE DESIGN OF ALL RETAINING WALLS AND SUBTERRANEAN BUILDING WALLS INDICATED ON THESE DRAWINGS IS BASED ON DRAINED SOILS.
- 9. CONSTRUCTION JOINTS (CJ) AND SAWCUT (SC) JOINTS IN SLABS SHALL OCCUR WHERE LOCATED ON PLANS AND DETAILS. CJ'S SHALL HAVE FORMED POUR STOPS. CONSTRUCTION JOINTS IN WALLS AND FOOTINGS NEED NOT OCCUR AT THE SAME LOCATION, UNO.
- 10. SEE ARCHITECT'S PLANS FOR LOCATIONS OF SLAB SLOPES, DEPRESSIONS, CURBS, DRAINS, NON-STRUCTURAL PARTITIONS AND OTHER EMBEDDED ITEMS NOT SHOWN ON THE STRUCTURAL PLANS.
- 11. CONTRACTOR SHALL PROTECT ALL UTILITY LINES, ETC. ENCOUNTERED DURING EXCAVATION AND BACKFILLING. THE ARCHITECT AND ENGINEERS ARE NOT RESPONSIBLE FOR THE LOCATIONS OF EXISTING UNDERGROUND UTILITIES WHETHER OR NOT SHOWN ON THE DRAWINGS. THE LOCATION OF ANY EXISTING UNDERGROUND UTILITIES SHOWN ON THE DRAWINGS ARE APPROXIMATE. THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE OWNER SHOULD ANY SUCH UNIDENTIFIED CONDITIONS BE DISCOVERED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGES WHICH MAY RESULT FROM FAILURE TO EXACTLY LOCATE AND PRESERVE ALL EXISTING UNDERGROUND UTILITIES.
- 12. THE SLAB ON GRADE IS NOT DESIGNED TO SUPPORT TRAFFIC FROM CRANES OR OTHER HEAVY CONSTRUCTION VEHICLES. CONTRACTOR SHALL REPAIR OR REPLACE DAMAGED

HIGH-STRENGTH BOLTS

- 1. SEE STRUCTURAL STEEL NOTES THIS SHEET FOR ADDITIONAL INFORMATION.
- 2. JOINT ASSEMBLIES USING HIGH-STRENGTH BOLTS SHALL BE IN ACCORDANCE WITH THE CURRENT EDITION OF THE "AISC (RCSC) SPECIFICATION FOR STRUCTURAL JOINTS USING HIGH-STRENGTH BOLTS".
- ALL HIGH-STRENGTH BOLTS SHALL CONFORM TO ASTM A-325 OR ASTM A-490, NUTS SHALL CONFORM TO ASTM A-563 AND WASHERS SHALL CONFORM TO ASTM F-436.
- 4. PAINT SHALL NOT BE PERMITTED ON CONTACT SURFACES UNLESS NOTED OTHERWISE. CONTACT SURFACES OF BOLTED PARTS SHALL BE DESCALED AND FREE OF DIRT, OIL, BURRS, PITS. AND OTHER DEFECTS WHICH PREVENT SOLID SEATING OF PARTS.
- 5. ALL HIGH-STRENGTH BOLTS SHALL BE TIGHTENED TO THE AISC SNUG TIGHT CONDITION UNLESS SPECIFIED AS SLIP-CRITICAL.
- 6. SLIP-CRITICAL BOLTS SHALL HAVE CLASS "A" FAYING SURFACES. SLIP-CRITICAL JOINT ASSEMBLIES SHALL BE FULLY PRE-TENSIONED BY TURN-OF-NUT TIGHTENING, TENSION CONTROL CALIBRATED WRENCH TIGHTENING, TWIST-OFF BOLTS CONFORMING TO ASTM F1852, OR BY DIRECT TENSION INDICATOR TIGHTENING CONFORMING TO ASTM F959.

WELDING

- 1. WELDING PROCEDURES, ELECTRODES AND WELDER QUALIFICATIONS SHALL CONFORM TO THE "CODE FOR WELDING IN BUILDING CONSTRUCTION", AMERICAN WELDING SOCIETY (AWS), D1.1 AND THE AISC "SPECIFICATIONS FOR THE DESIGN, FABRICATION AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS".
- 2. ALL WELDERS SHALL HAVE EVIDENCE OF PASSING THE AWS STANDARD QUALIFICATION TESTS, AND SHALL BE CERTIFIED FOR THE WORK THEY ARE PERFORMING.
- 3. PROJECT WELDING SHALL BE PERFORMED ONLY IN ACCORDANCE WITH WELDING PROCEDURE SPECIFICATIONS (WPS) SUBMITTED BY THE CONTRACTOR AND REVIEWED BY THE EOR AND PROJECT WELDING INSPECTOR. THE WPS SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE APPLICABLE AWS.
- 4. WELDING OF STRUCTURAL STEEL SHALL BE PERFORMED PER AWS D1.1 USING E70XX ELECTRODES UNLESS OTHERWISE NOTED.
- 5. ALL FULL PENETRATION WELDS SHALL BE ULTRA-SONIC TESTED PER AWS D1.1 AND D1.8 REQUIREMENTS AS APPLICABLE.
- 6. ALL GROOVE OR BUTT WELDS SHALL BE COMPLETE PENETRATION WELDS, UNO. ALL EXPOSED BUTT WELDS SHALL BE GROUND SMOOTH.
- 7. ALL EXPOSED WELDS ON ARCHITECTURALLY EXPOSED STRUCTURAL STEEL (AESS) SHALL COMPLY WITH AISC CODE OF STANDARD PRACTICE, SECTION 10.
- 8. FIELD WELDS HAVE BEEN INDICATED WHERE THEY ARE EXPECTED TO OCCUR. THE CONTRACTOR SHALL DETERMINE THE ACTUAL FIELD WELDING NECESSARY TO COMPLETE THE PROJECT AND INCLUDE ALL ASSOCIATED COSTS WITHIN THE BASE BID.

COLD-FORMED STEEL FRAMING

- DESIGN, FABRICATION AND ERECTION OF COLD-FORMED STEEL FRAMING SHALL CONFORM TO THE SPECIFICATIONS AND STANDARD OF THE AMERICAN IRON AND STEEL INSTITUTE (AISI), AS CONTAINED IN THE "SPECIFICATION FOR THE DESIGN OF COLD-FORMED STEEL STRUCTURAL MEMBERS", LATEST EDITION, INCLUDING ALL APPLICABLE AMENDMENTS.
- 2. ALL COLD-FORMED STEEL FRAMING SHALL BE ERECTED PLUMB AND TRUE TO LINE. TEMPORARY BRACING SHALL BE INSTALLED AND LEFT IN PLACE UNTIL OTHER MEANS IS PROVIDED TO ADEQUATELY BRACE THE STRUCTURE.
- COLD-FORMED STEEL GRADES:
- A. 18 GA (43 MILS) OR THINNERASTM A1003 GRADE 33 (FY = 33 KSI) B. 16 GA (54 MILS) AND THICKERASTM A1003 GRADE 50 (FY = 50 KSI)
- 4. ALL COLD-FORMED STEEL FRAMING SHALL BE BRACED AS REQUIRED BY SECTION D3 OF THE AISI SPECIFICATION.
- 5. SUBMIT COLD-FORMED STEEL FRAMING SHOP DRAWINGS AND SPECIFICATIONS TO THE EOR FOR REVIEW PRIOR TO FABRICATION.
- 6. COLD-FORMED STEEL STUDS AND TRACKS ARE TO BE ATTACHED WITH SHEET METAL SCREWS (SMS) WITH SIZES CALLED OUT ON THE DETAILS. PENETRATION OF SCREWS THROUGH JOINED MATERIAL SHALL NOT BE LESS THAN 3 EXPOSED THREADS. SCREWS ARE TO BE INSTALLED AND TIGHTENED IN ACCORDANCE WITH SCREW MANUFACTURER'S RECOMMENDATIONS. SHEET METAL SCREWS SHALL COMPLY WITH ASTM C1513. SELF-DRILLING AND TAPPING TYPE. WITH PANCAKE FRAMER HEAD TYPE FOR #10 SMS AND HEX WASHER HEAD TYPE FOR #12 AND #14 (1/4"Ø) SMS UNLESS NOTED OTHERWISE.
- 7. COLD-FORMED STUD MEMBERS SHALL BE UNPUNCHED WHERE USED FOR THE FOLLOWING: HEADERS AND SILLS OF OPENINGS WIDER THAN 3'-0", AND BUILT-UP BOX AND BACK-TO-BACK SECTIONS. PUNCH-OUTS SHALL BE LOCATED IN THE CENTER OF THE WEB WITH A MINIMUM SPACING OF 24"OC, HAVE A MAXIMUM WIDTH OF HALF THE MEMBER DEPTH OR 2 1/2", WHICHEVER IS LESS, AND A MAXIMUM LENGTH OF 4 1/2". THE MINIMUM DISTANCE BETWEEN THE END OF THE MEMBER AND THE NEAR EDGE OF THE PUNCH-OUT SHALL BE 12".
- 8. WELDING OF LIGHT GAGE STEEL SHALL BE IN ACCORDANCE WITH AMERICAN WELDING SOCIETY (AWS) D1.3.

STRUT CHANNEL FRAMING

1. STRUT CHANNELS SHALL BE SOLID 1-5/8" x 1-5/8" x 12 GA UNLESS NOTED OTHERWISE.

- 2. BACK TO BACK CHANNELS SHALL BE FACTORY WELDED
- STEEL GRADE SHALL CONFORM TO ASTM A1011 SS GRADE 33 OR ASTM S653 GRADE 33
- ALL FITTINGS SHALL BE FABRICATED FROM STEEL THAT CONFORMS TO ASTM A575, A576, A635, OR A36.
- ALL BOLTS AND NUTS SHALL BE 1/2" DIA AND TORQUED TO 50 FT-LBS UNLESS NOTED
- FINISH SHALL CONFORM TO ONE OF THE FOLLOWING:

		ENVIRONMENT			
FINISH TYPE	FINISH TYPE	DRY INTERIOR	EXTERIOR, WET, OR CORROSIVE		
PREGALVANIZED	A653	Х			
HOT DIPPED GALVANIZED	A123 OR A153	X	Х		
ELECTROPLATED	B633 TYPE III	X			
UNISTRUT PERMA-GREEN III, POWER-STRUT POWER-GREEN OR B-LINE DURA GREEN	N/A	Х	Х		

INSTALLATION SHALL BE ACCOMPLISHED BY A FULLY TRAINED MANUFACTURER AUTHORIZED **INSTALLER**



ABBREVIATIONS

	TZ (04/30/18)		
10000-0002-AI \ B	ANCHOR BOLT	HSB	HIGH STRENGTH BOLT
ABV	ABOVE	HSS	HOLLOW STRUCTURAL STEEL
ADDL	ADDITIONAL	HT	HEIGHT
ADJ	ADJACENT	ID	INSIDE DIAMETER
\FF	ABOVE FINISH FLOOR	I.F.	INSIDE FACE
ALT	ALTERNATE	IN	INCH
ARCH	ARCHITECT(URAL)	INT	INTERIOR
BLDG	BUILDING	IOR	INSPECTOR OF RECORD
BLK	BLOCK	JST	JOIST
BLKG BLW	BLOCKING BELOW	JT KLF	JOINT KIPS PER LINEAR FOOT
BM	BEAM	KSF	KIPS PER SQUARE FOOT
BN	BOUNDARY NAILING	KSI	KIPS PER SQUARE INCH
3.0.	BOTTOM OF	L	ANGLE
BOTT	BOTTOM	LD	LD DEVELOPMENT LENGTH
BRB	BUCKLING-RESTRAINED BRACE		LATERAL FORCE RESISTING SYSTEM
RG	BEARING	LLH	LONG LEG HORIZONTAL
S	BOTH SIDES	LLV	LONG LEG VERTICAL
STWN	BETWEEN CAMBER	LONG LP	LONGITUDINAL LOW POINT
) C.G.	CENTER OF GRAVITY	LWC	LIGHT WEIGHT CONCRETE
OIP	CAST IN PLACE	MAX	MAXIMUM
J	CONTROL/CONSTRUCTION JOINT	MB	MACHINE BOLT
JP	COMPLETE JOINT PENETRATION	MECH	MECHANICAL
CL	CENTERLINE	MFR	MANUFACTURER
CLG	CEILING	MIN	MINIMUM
LR	CLEAR	MTL	METAL
CMU	CONCRETE MASONRY UNIT	(N)	NEW
COL	COLUMN CONCRETE	NS NTS	NEAR SIDE OR NON-SHRINK NOT TO SCALE
CONN	CONNECTION	NWC	NORMAL WEIGHT CONCRETE
CONT	CONTINUOUS	OC	ON CENTER
P	COMPLETE PENETRATION	OD	OUTSIDE DIAMETER
CSK	COUNTERSINK	O.F.	OUTSIDE FACE
CTR(D)	CENTER(ED)	OH	OPPOSITE HAND
) _B	BAR OR BOLT DIAMETER	OPNG	OPENING
)BL	DOUBLE	PDF	POWDER/POWER DRIVEN FASTENER
)EMO	DEMOLITION	PJ	PANEL JOINT PARTIAL JOINT PENETRATION
)ET)IA	DETAIL DIAMETER	PJP PL	PLATE
OIAG	DIAGONAL	PLC(S)	
)IM	DIMENSION	PLF	
)IR	DIRECTION	PLYWD	
00	DITTO	PREFAB	PREFABRICATED
)WG	DRAWING	PSF	POUNDS PER SQUARE FOOT
E)	EXISTING	PSI	POUNDS PER SQUARE INCH
EA EF	EACH EACH FACE	PT	PRESSURE TREATED OR POST TENSION
:r :J	EXPANSION JOINT	QTY	QUANTITY
MBED	EMBEDMENT	RAD, R	RADIUS
LEC	ELECTRICAL	REF	REFERENCE
LEV	ELEVATION OR ELEVATOR	REINF	REINFORCING
N	EDGE NAILING	REQD	
.0.	EDGE OF	(S)	"SIMPSON" STRONG TIE CO. OR "USP"
OR	ENGINEER OF RECORD	0.0	W/ EQUIVALENT ICC VALUES
Q OUID	EQUAL EQUIPMENT	SB SC	SILL BOLT SAW CUT OR SLIP CRITICAL
:QUIP :S	EACH SIDE OR EDGE SCREW	SCHED	
:W	EACH WAY	SEOR	
XP	EXPANSION	SHTG	
XT	EXTERIOR	SIM	SIMILAR
IN	FINISH	SMS	SHEET METAL SCREW
LG	FLANGE	SN	SILL NAIL
LR	FLOOR	SOG	SLAB ON GRADE
N ND	FIELD NAILING FOUNDATION	SQ SS	SQUARE STAINLESS STEEL
.O.	FACE OF	STD	STAINLESS STEEL STANDARD
S	FAR SIDE OR FIELD SCREW	STGRD	
RMG	FRAMING	STIFF	
RP	FIBER REINFORCED POLYMER	STL	STEEL
T	FOOT OR FEET	STRUCT	
TG	FOOTING	T&B	TOP & BOTTOM
.	GIRDER	THK	THICK
SA SALV	GAGE GALVANIZED	THRD T.O.	THREADED
BB	GRADE BEAM	T.O. TRANS	TOP OF TRANSVERSE
3C	GENERAL CONTRACTOR	TYP	TYPICAL
SLB	GLUED-LAMINATED BEAM		UNLESS NOTED OTHERWISE
IAB	HEADED ANCHOR BOLT	VERT	VERTICAL
łD	HOLDOWN	VIF	VERIFY IN FIELD
IDR	HEADER	W/	WITH
IGR IK	HANGER HOOK	W/O	WITHOUT WIDE ELANGE
II/\	HUUN	VVI VV	VVIIJE EI AINGE

STRUCTURAL STEEL

HOOK

HORIZONTAL

HIGH POINT

HIGH STRENGTH

1. DESIGN, FABRICATION AND ERECTION OF STRUCTURAL STEEL SHALL CONFORM TO THE SPECIFICATIONS AND STANDARD OF THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC), AS CONTAINED IN THE LATEST EDITION OF "AISC MANUAL OF STEEL CONSTRUCTION".

WT

WWF

WF, W WIDE FLANGE

WELDED

WEIGHT

WHERE OCCURS

WELDED WIRE FABRIC

WORK POINT

2. ALL STRUCTURAL STEEL SHALL BE ERECTED PLUMB AND TRUE TO LINE. TEMPORARY BRACING SHALL BE INSTALLED AND SHALL BE LEFT IN PLACE UNTIL OTHER MEANS IS PROVIDED TO ADEQUATELY BRACE THE STRUCTURE.

3. PROVIDE THE FOLLOWING MATERIALS FOR STRUCTURAL STEEL UNO:

SHAPE	MATERIAL/GRADE
WIDE FLANGE SECTIONS & TEES	ASTM A992
PLATES, ANGLES, CHANNELS	ASTM A36
SQUARE OR RECTANGULAR HOLLOW STRUCTURAL SECTIONS (HSS)	ASTM A500, GRADE C (F _y =50 KSI) OR ASTM A1085
PIPES	ASTM A53 TYPE E OR S, GRADE B, (F _y =35 KSI)
MACHINE BOLTS (MB)	ASTM A307
HIGH STRENGTH BOLTS (HSB)	ASTM A325 TYPE N
THREADED RODS FOR ANCHOR BOLTS	ASTM F1554, GRADE 55

- a. EXCEPT AS OTHERWISE NOTED, ALL BOLTS SHALL BE HIGH STRENGTH BOLTS.
- b. WHERE WELDING TO GRADE 55 THREADED ANCHOR RODS IS REQUIRED, USE ASTM F1554 GRADE 55 WITH SUPPLEMENT S1. 4. ALL CONNECTIONS NOT SHOWN SHALL CONFORM TO THE "AISC MANUAL OF STEEL
- CONSTRUCTION" AND SHALL BE SUBMITTED ON SHOP DRAWINGS FOR REVIEW BY EOR PRIOR TO 5. BOLTS WITH UPSET THREADS ARE NOT ALLOWED. USE THE APPROPRIATE NUT AND WASHER
- TYPE FOR THE SPECIFIED BOLT.
- 6. ALL STEEL FABRICATION SHALL BE PERFORMED BY A LICENSED FABRICATOR.
- 7. ALL STRUCTURAL STEEL AND MISCELLANEOUS STEEL PERMANENTLY EXPOSED TO THE ELEMENTS SHALL BE HOT DIP GALVANIZED AFTER FABRICATION UNLESS A WEATHER PROOF COATING IS SPECIFIED BY THE ARCHITECT, UNO. STAINLESS AND WEATHERING STEELS, WHERE SPECIFIED, ARE EXEMPT FROM THIS REQUIREMENT. GALVANIZED SURFACES SHALL BE PROTECTED DURING CONSTRUCTION AND SHALL BE REPAIRED AS NECESSARY. ALL ARCHITECTURALLY EXPOSED STRUCTURAL STEEL (AESS) SHALL COMPLY WITH AISC CODE OF STANDARD PRACTICE, SECTION 10.
- 8. SEE ARCHITECTURAL DRAWINGS FOR NAILER HOLES, WELDED STUDS OR OTHER ITEMS NOT SHOWN IN THESE DRAWINGS.

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GENERAL

- 1. REFER TO THE TYPICAL DETAIL SHEETS FOR TYPICAL DETAILS OF CONSTRUCTION. TYPICAL DETAILS APPLY TO ALL CONSTRUCTION UNLESS SPECIFICALLY NOTED OR SHOWN OTHERWISE WHERE CONDITIONS REQUIRE MODIFICATIONS OF A TYPICAL DETAIL. THE CONTRACTOR SHALL SUBMIT MODIFIED DETAIL FOR APPROVAL BY THE ENGINEER OF RECORD PRIOR TO FABRICATION AND INSTALLATION. DETAILS OF CONSTRUCTION NOT SHOWN SHALL BE OF SAME NATURE AS THOSE SHOWN FOR SIMILAR CONSTRUCTION.
- 2. CONTRACTOR SHALL CONSIDER THE PROJECT SPECIFICATIONS A PART OF THE CONTRACT DOCUMENTS. WHERE INFORMATION IS CONFLICTING, SPECIFIC DETAILS SHALL GOVERN OVER TYPICAL DETAILS WHICH SHALL GOVERN OVER THESE NOTES WHICH SHALL GOVERN OVER SPECIFICATIONS.
- 3. ALL DIMENSIONS ON STRUCTURAL DRAWINGS SHALL BE CHECKED AGAINST ARCHITECTURAL DIMENSIONS. DO NOT SCALE DRAWINGS. IF DIMENSIONS ARE OMITTED OR NOT CLEAR, CONTACT THE ARCHITECT (ARCH) OR ENGINEER OF RECORD (EOR). ALL DIMENSIONS RELATED TO EXISTING CONDITIONS SHALL BE FIELD VERIFIED BY THE CONTRACTOR, DIMENSIONS ARE TO THE FACE OF STUDS, AND TO CENTERLINE OF COLUMNS UNO.
- 4. IT IS THE CONTRACTOR'S RESPONSIBILITY TO IMMEDIATELY NOTIFY THE EOR OF ANY CONFLICTS BETWEEN THE STRUCTURAL DRAWINGS AND OTHER DRAWINGS; OR EXISTING CONDITIONS NOT SHOWN OR DIFFERENT FROM THOSE SHOWN ON DRAWINGS PRIOR TO COMMENCEMENT OF WORK. THE CONTRACTOR IS NOT TO ORDER MATERIAL OR CONSTRUCT ANY PORTION OF THE SCOPE THAT IS IN CONFLICT UNTIL THE CONFLICT IS RESOLVED WITH THE AFFECTED PARTIES.
- 5. THE STRUCTURAL DRAWINGS AND SPECIFICATIONS REPRESENT THE FINISHED STRUCTURE. UNLESS OTHERWISE SHOWN THEY DO NOT INDICATE METHOD OF CONSTRUCTION. THE CONTRACTOR SHALL PROVIDE ALL MEASURES NECESSARY TO PROTECT THE CONSTRUCTION AND ALL ADJACENT PROPERTIES DURING CONSTRUCTION. SUCH MEASURES SHALL INCLUDE BUT ARE NOT LIMITED TO BRACING, SHORING OF LOADS DUE TO CONSTRUCTION EQUIPMENT, ETC. OBSERVATION VISITS TO THE SITE BY THE ARCHITECT OR EOR SHALL NOT INCLUDE OBSERVATION OF THE ABOVE ITEMS.
- 6. SUBSTITUTION REQUESTS FOR MATERIALS SPECIFIED ON THE STRUCTURAL DRAWINGS MAY BE CONSIDERED WITH MATERIALS HAVING EQUIVALENT OR GREATER CAPACITY AND PERFORMANCE. CURRENT EVALUATION REPORTS AND PRODUCT INFORMATION SHALL BE PROVIDED TO THE STRUCTURAL ENGINEER DEMONSTRATING THE REQUIRED CAPACITY AND PERFORMANCE OF THE MATERIAL TO BE SUBSTITUTED. WRITTEN APPROVAL FROM THE EOR SHALL BE OBTAINED PRIOR TO THE SUBSTITUTION OF ANY MATERIAL SPECIFIED ON THE STRUCTURAL DOCUMENTS.
- 7. IT IS THE CONTRACTOR'S RESPONSIBILITY TO COMPLY WITH THE PERTINENT SECTIONS OF THE "CONSTRUCTION SAFETY ORDERS" ISSUED BY THE STATE OF CALIFORNIA, LATEST EDITION, AND ALL OSHA REQUIREMENTS AS THEY APPLY TO THIS PROJECT. THE ARCHITECT, EOR, AND THE OWNER DO NOT ACCEPT ANY RESPONSIBILITY FOR THE CONTRACTOR'S FAILURE TO COMPLY WITH THESE REQUIREMENTS.
- 8. ALL WORK IS NEW (N) UNLESS INDICATED AS EXISTING (E).
- 9. CONSTRUCTION MATERIALS SHALL BE DISTRIBUTED WHEN PLACED ON THE STRUCTURE SUCH THAT LOADS DO NOT EXCEED DESIGN LIVE LOADS OR RESULT IN AN UNBALANCED CONDITION.
- 10. REFER TO THE PROJECT SPECIFICATIONS FOR SHOP DRAWING REQUIREMENTS AND SUBMITTALS. SHOP DRAWINGS SHALL BE SUBMITTED TO THE EOR (ALLOW FOR A REVIEW DURATION OF 10 BUSINESS DAYS), AND SHALL CONSIST OF EITHER ELECTRONIC FILES OR ONE SET FOR OUR RECORDS AND ONE REPRODUCIBLE SET. REVIEW OF SHOP DRAWINGS AND SUBMITTALS BY THE EOR IS FOR GENERAL COMPLIANCE WITH THE CONTRACT DOCUMENTS. THE CONTRACTOR WILL REMAIN RESPONSIBLE FOR ALL ERRORS OF DETAILING, FABRICATION, AND FOR CORRECT FITTING OF ALL STRUCTURAL MEMBERS, INCLUDING COORDINATION WITH OTHER TRADES. SHOP DRAWINGS AND SUBMITTALS DO NOT CONSTITUTE CHANGE ORDERS. ANY PROPOSED CHANGES TO THE STRUCTURAL DOCUMENTS MUST BE SUBMITTED IN WRITING AS A REQUEST FOR SUBSTITUTION TO THE ARCHITECT AND EOR FOR APPROVAL. SEE "STRUCTURAL SUBMITTALS" FOR MORE INFORMATION.
- 11. CORE DRILLS REQUIRED SHALL NOT CUT ANY REINFORCING. THE CONTRACTOR IS TO COORDINATE WORK OF ALL TRADES TO ENSURE COMPLIANCE. ALL CORE DRILLS ARE TO BE PRESENTED TO THE INSPECTOR OF RECORD (IOR) FOR VERIFICATION. THE IOR IS TO DOCUMENT CORES EXAMINED INDICATING AN ABSENCE OF REINFORCING.
- 12. STRUCTURAL JOINT DIMENSIONS SHOWN ON PLANS (EXPANSION, SEISMIC, SEPARATION, ETC) (WHERE OCCURS) INDICATE THE MINIMUM CLEAR DISTANCE REQUIRED. SEE PLANS, DETAILS, AND ARCHITECTURAL DRAWINGS FOR ADDITIONAL REQUIREMENTS.

STRUCTURAL DESIGN CRITERIA

CODES:

ALL NEW WORK SHALL BE IN CONFORMANCE WITH THE CALIFORNIA BUILDING CODE (CBC) 2019 EDITION (TITLE 24, PART 2), INCLUDING ALL AMENDMENTS. ALL STANDARDS USED SHALL BE THE LATEST VERSION APPROVED BY THE CODE ENFORCEMENT AGENCY ON THE DATE OF THE PERMIT ISSUANCE UNLESS SPECIFICALLY NOTED OTHERWISE. THE PURPOSE OF THIS CODE IS TO, IN PART, ESTABLISH THE MINIMUM REQUIREMENTS TO SAFEGUARD THE PUBLIC HEALTH, SAFETY AND GENERAL WELFARE THROUGH STRUCTURAL STRENGTH AND STABILITY. STRUCTURES DESIGNED IN ACCORDANCE WITH THE CODE ARE LIKELY TO HAVE A LOW PROBABILITY OF COLLAPSE BUT MAY SUFFER SERIOUS STRUCTURAL AND NON-STRUCTURAL DAMAGE IF SUBJECTED TO THE DESIGN EARTHQUAKE.

2. GRAVITY DESIGN LOADS:

	LIVE LOADS (REDUCIBLE, UNO):	
	a. ROOF, UNIFORM	20 PSF
	b. FLOOR(S)	
	UNIFORM LOAD + PARTITIONS	60 PSF + 20 PSF = 80 PSF
	OR, CONCENTRATED IN 2.5 FT x 2.5 FT	2000 LBS
3.	WIND DESIGN INFORMATION:	

RISK CATEGORY IV EXPOSURE C BASIC WIND SPEED (3 SEC GUST), $V_{ult} = 107 MPH$, $V_{asd} = 83 MPH$

INTERNAL PRESSURE COEFFICIENT GC_{ni} = ± 0.18

4. SEISMIC DESIGN INFORMATION:

RISK CATEGORY IV DESIGN CAT. D SITE CLASS D $|S_S = 0.938$ $|S_1 = 0.346$ $|S_{DS} = 0.751$ a - PER ASCE 7-16 SECTION 11.4.3, SITE CLASS D HAS BEEN SELECTED BY DEFAULT. b - PER ASCE 7-16 SECTION 11.4.8 EXCEPTION 2, GROUND MOTION HAZARD ANALYSIS IS NOT

REFERENCE OF SECTIONS, DETAILS & SYMBOLS

SHOWN THUS*:

DETAIL REFERENCE

SHOWN THUS:

BUILDING SECTION INDICATION ELEVATION INDICATION

SHOWN THUS:

ELEVATION IS SHOWN ON

SHEET S5.01, DETAIL 2

CUT IS SHOWN ON SHEET DETAIL NOTED IS SHOWN ON SHEET S5.01, DETAIL 2 S3.01, DETAIL 2

* (ADDITIONAL INDICATORS MAY BE USED TO SHOW LOCATION OF DETAIL CUTS) ** (SHEET NUMBER WILL BE REPLACED BY A HYPHEN (-) WHEN THE REFERENCED DETAIL APPEARS ON THE SAME SHEET AS THE CALL-OUT)

DETAIL TITLE SHOWN THUS:



- Ø = DIAMETER
- = REFERENCE ELEVATION OR WORK POINT

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LA MESA, CA 91942 ΓEL(858)457-3001 SC ENGINEERS, INC. MECHANICAL 17075 VIA DEL CAMPO &PLUMBING: SAN DIEGO, CALIFRONIA 92127

ELECTRICAL: AG DESIGN, INC. 171 S. ANITA DR. SUITE 111 ORANGE, CALIFRONIA 92868 TEL(714)769-9900 SHIELDING: MRI SHIELDING CORPORATION

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3554 BUISNESS PARK DR., SUITE B

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OSHPD COMMENTS 8/3/2020 8/10/2020 DESIGN CHANGES OSHPD COMMENTS 10/2/2020 OSHPD COMMENTS 11/24/2020

11/24/2020

04/14/2021

DESCRIPTION:

5550 Baltimore Drive, Suite 100

DESIGN CHANGES

ACD 0001 DESIGN CHANGES

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OSHPD #: S200813-37-00-ACD0001

GENERAL NOTES

TCMC MRI PROJECT # 01907.01

PER TITLE

3/11/2020

POST-INSTALLED ANCHORS

UNLESS OTHERWISE NOTED ON THE DRAWINGS, THE FOLLOWING APPLIES TO ALL POST-INSTALLED ANCHORAGE INTO HARDENED CONCRETE OR MASONRY WHICH INCLUDES TYPES SUCH AS EXPANSION, WEDGE, SLEEVE, ADHESIVE/EPOXY, SHOT-PIN, SCREW AND UNDERCUT.

- 1. INSTALL PER THE MANUFACTURER'S PRINTED INSTALLATION INSTRUCTIONS (MPII) EXCEPT AS OTHERWISE STATED IN THE SPECIFIED PRODUCT REPORTS. USE INSTALLATION PROCEDURES FOR CRACKED CONCRETE CONDITIONS. DO NOT USE CORE DRILL BITS FOR ANCHOR HOLES WITHOUT PRIOR EOR APPROVAL. COPIES OF INSTALLATION INSTRUCTIONS SHALL BE MAINTAINED ON SITE.
- 2. CLEAN OUT ANCHOR HOLES AND SET ANCHORS PER THE PRODUCT'S ICC REPORT FOR THE APPROPRIATE CONDITIONS. INSTALL UNDER SUPERVISION OF THE SPECIAL INSPECTOR WHERE
- 3. PROVIDE GALVANIZED CARBON STEEL ANCHORS AT DRY INTERIOR LOCATIONS AND STAINLESS STEEL TYPE 304 OR 316 AT EXTERIOR / DAMP INTERIOR LOCATIONS, REINFORCEMENT BARS TO RECEIVE CONCRETE COVER MAY BE UNCOATED. ANCHORS SHALL BE CLEAN AND FREE OF DEBONDING
- 4. EMBEDMENT REFERS TO THE FINAL INSTALLED EFFECTIVE DEPTH "Hef" AS DEFINED IN THE PRODUCT REPORT, REQUIRED ANCHOR HOLE DEPTH FOR INSTALLATION MAY BE DEEPER, UNO.
- 5. MAINTAIN A MINIMUM OF 2 INCHES FROM EXISTING REINFORCEMENT, CONDUIT, POST-TENSIONING (WHERE OCCURS), ETC. PRIOR TO DRILLING, CORING OR SHOOTING PINS INTO EXISTING CONCRETE OR MASONRY. USE NON DESTRUCTIVE TESTING TO LOCATE SUCH ITEMS, FOR INSTALLATION DEEPER THAN 3 INCHES USE GROUND PENETRATING RADAR OR X-RAY METHODS.
- 6. WHEN THE FULL ANCHOR EMBEDMENT DEPTH, SPACING OR EDGE DISTANCE CANNOT BE OBTAINED, NOTIFY THE EOR AND IOR.
- 7. FILL ABANDONED HOLES WITH EPOXY AND PATCH SPALLS USING NON-SHRINK GROUT AND REPAIR FINISHES AS REQUIRED. CLEAR DISTANCE BETWEEN NEW HOLES AND ABANDONED HOLES SHALL BE 2" OR TWO ANCHOR DIAMETERS, WHICHEVER IS GREATER, UNLESS OTHERWISE SPECIFIED BY EOR. ANCHORS PENETRATING THROUGH WATERPROOFING OR VAPOR MEMBRANES SHALL BE SEALED OR
- 8. INSTALL IN DRY CONCRETE OR MASONRY HAVING A MINIMUM AGE OF 21 DAYS.

- 9. ADHESIVE/EPOXY ANCHORS ON THIS PROJECT ARE NOT DESIGNED TO SUPPORT OR INTENDED TO RESIST SUSTAINED TENSION LOADS UNLESS NOTED OTHERWISE.
- 10. TEST LOADS, UNO:

ANCHO	R	LOAD (LBS)	TORQUE	NOTES
TYPE	SIZE (IN)	LOAD (LDS)	(FT-LBS)	NOTES
TITEN HD (CONCRETE)	1/4"Ø		24	
TITEN HD (CONCRETE)	3/8"Ø		50	
KB-TZ (CONCRETE)	1/2"Ø	-	40	-
STRONG-BOLT 2 (CONCRETE)	1/2"Ø	-	60	-
SET-XP	#5 BAR	6310	-	6" MIN EMBED, EDGE DISTANCE ≥ 9"
(CONCRETE)	#6 BAR	3550	-	6"' MIN EMBED, 3" MIN EDGE DISTANCE



STRUCTURAL SUBMITTALS

REVIEW OF SHOP DRAWINGS AND SUBMITTALS BY THE EOR IS FOR GENERAL COMPLIANCE WITH THE CONTRACT DOCUMENTS.

- 2. SHOP DRAWINGS SHALL BE SUBMITTED TO THE EOR FOR REVIEW PRIOR TO FABRICATION. THE CONTRACTOR WILL REMAIN RESPONSIBLE FOR ALL ERRORS OF DETAILING, FABRICATION, AND FOR CORRECT FITTING OF ALL STRUCTURAL MEMBERS INCLUDING COORDINATION WITH
 - a. SHOP DRAWINGS SHALL BE SUBMITTED TO THE EOR (ALLOW FOR A REVIEW DURATION OF 10 BUSINESS DAYS), AND SHALL CONSIST OF ELECTRONIC FILES.
 - EOR WILL RETURN THE REPRODUCIBLE SET CLEARLY MARKED WITH COMMENTS. ANY REQUIRED RECORD SET COPIES SHALL BE MADE FROM THIS RETURNED SET.
 - REPRODUCTION OF STRUCTURAL PLANS & DETAILS FOR SHOP DRAWINGS IS PROHIBITED. SUBCONTRACTOR/FABRICATOR IS TO PROVIDE INDEPENDENTLY CREATED DRAWINGS BASED ON THE STRUCTURAL PLANS AND DETAILS. SHOP DRAWINGS THAT ARE REPRODUCTIONS OF STRUCTURAL DRAWINGS WILL NOT BE REVIEWED.
- 3. SHOP DRAWINGS AND SUBMITTALS DO NOT CONSTITUTE CHANGE ORDERS. ANY PROPOSED CHANGES TO THE STRUCTURAL DOCUMENTS MUST BE SUBMITTED IN WRITING AS A REQUEST FOR SUBSTITUTION TO THE ARCHITECT AND EOR FOR APPROVAL.
- 4. EACH CONTRACTOR RESPONSIBLE FOR THE CONSTRUCTION OF A MAIN WIND- OR SEISMIC-FORCE-RESISTING SYSTEM, DESIGNATED SEISMIC SYSTEM OR A WIND- OR SEISMIC-RESISTING COMPONENT LISTED IN THE STATEMENT OF SPECIAL INSPECTIONS SHALL SUBMIT A WRITTEN STATEMENT OF RESPONSIBILITY TO THE BUILDING OFFICIAL AND THE OWNER PRIOR TO THE COMMENCEMENT OF WORK ON THE SYSTEM OR COMPONENT. THE CONTRACTOR'S STATEMENT OF RESPONSIBILITY SHALL CONTAIN ACKNOWLEDGEMENT OF AWARENESS OF THE SPECIAL REQUIREMENTS CONTAINED IN THE STATEMENT OF SPECIAL INSPECTION.
- THE FOLLOWING LIST SUMMARIZES REQUIRED STRUCTURAL SUBMITTALS FOR THIS PROJECT. REFER TO THE SPECIFICATIONS FOR A COMPLETE LIST AND ADDITIONAL REQUIREMENTS.

MANUFACTURER'S PRODUCT DATA, SPECIFICATIONS AND INSTALLATION PROCEDURES FOR PROPRIETARY MATERIALS AND REINFORCEMENT STEEL PRODUCER'S CERTIFICATES OF MILL ANALYSIS, TENSILE AND BEND TESTS SHOP DRAWINGS FOR FABRICATION, BENDING AND PLACEMENT REQD:

DESIGN MIX FOR EACH CONCRETE MIX. SPECIAL INSPECTOR SHALL REVIEW MIX DESIGNS. SEOR SHALL REVIEW AND ACCEPT MIX DESIGNS. REQD: MATERIAL TEST REPORTS

MATERIAL CERTIFICATES FOR CEMENT, AGGREGATES AND ADMIXTURES MANUFACTURER'S PRODUCT DATA FOR WATERSTOPS, BONDING AGENTS, VAPOR RETARDERS, JOINT FILLER, CURING MATERIALS AND FLOOR TREATMENTS SHOP DRAWINGS FOR PROPOSED LOCATIONS OF ADDITIONAL CONSTRUCTION

OR CONTROL JOINTS NOT SHOWN ON THE STRUCTURAL PLANS MINUTES FROM PREINSTALLATION CONFERENCE

MANUFACTURER'S MILL CERTIFICATES

MILL TEST REPORTS REQD: REQD: SHOP DRAWINGS FOR FABRICATION AND ASSEMBLY OF MEMBERS

REQD: ERECTION PLAN SEQUENCE AND PROCEDURES

REQD: WELDING PROCEDURE SPECIFICATIONS (WPS) REQD: CERTIFICATES FOR ALL WELDERS VERIFYING CURRENT AWS QUALIFICATIONS

TEST REPORTS FOR SHOP AND FIELD WELDED AND BOLTED CONNECTIONS

SHOP DRAWINGS INDICATING TYPE, LAYOUT, DETAILS, AND OPENINGS LARGER

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STRUCTURAL CONCRETE

- 1. CONCRETE SHALL BE MIXED, PLACED AND CURED IN ACCORDANCE WITH ACI 318 AND ACI 301 LATEST EDITION, AND PROJECT SPECIFICATIONS.
- 2. CONCRETE SHALL NOT BE DROPPED THROUGH REINFORCING STEEL (AS IN WALLS) SO AS TO CAUSE SEGREGATION OF AGGREGATES. IN SUCH CASES, HOPPERS AND VERTICAL CHUTES OR TRUNKS SHALL BE USED. CHUTES OR TRUNKS SHALL BE OF VARIABLE LENGTHS SO THAT FREE UNCONFINED FALL OF CONCRETE SHALL NOT EXCEED SIX FEET. A SUFFICIENT NUMBER OF CHUTES OR TRUNKS SHALL BE USED TO ENSURE THE CONCRETE IS KEPT LEVEL AT ALL TIMES.
- 3. CONSTRUCTION JOINTS SHALL BE CLEANED AND ROUGHENED BY REMOVING THE ENTIRE SURFACE TO EXPOSE CLEAN AGGREGATE SOLIDLY EMBEDDED IN THE MORTAR MATRIX. SEE PLANS AND DETAILS FOR LOCATION AND TYPE OF CONSTRUCTION JOINT. LOCATIONS OF ADDITIONAL CONSTRUCTION JOINTS NOT SHOWN ON THESE PLANS SHALL BE SUBMITTED FOR APPROVAL TO THE EOR PRIOR TO PLACING ANY CONCRETE.
- 4. STRUCTURAL CONCRETE SHALL MEET THE FOLLOWING DESIGN CRITERIA:

LOCATION	MIN 28-DAY COMP STRENGTH	CONC TYPE	MAX AGGREGATE SIZE	MAX W/C RATIO
MRI MAT FOUNDATIONS	4000 PSI	NWC	1"	0.50
INTERIOR SLAB ON GRADE NOT EXPOSED TO WEATHER OR RECEIVING FLOORING FINISH	4000 PSI	NWC	1"	0.50
CURB PAD AND FILL OVER METAL DECK	3000 PSI	LWC	1"	0.50
ALL OTHER STRUCTURAL CONCRETE NOT NOTED ABOVE	3000 PSI	NWC	1"	0.50

- a. MAXIMUM AIR DRY UNIT WEIGHT OF LIGHTWEIGHT CONCRETE SHALL NOT EXCEED 110 PCF, UNLESS APPROVED BY EOR.
- b. WHEN THE USE OF PLASTICIZER (ASTM C1017, TYPE I OR II) OR WATER REDUCER (ASTM C494, TYPE F OR G) IS USED, MAXIMUM SLUMP SHALL BE 4" PRIOR TO ADMIXTURE AND 8" INCLUDING ADMIXTURE AT THE POINT OF DELIVERY. IN THE ABSENCE OF PLASTICIZER AND WATER REDUCER, SLUMP AT THE POINT OF DELIVERY SHALL NOT EXCEED 4". W/C RATIO INDICATES WATER TO CEMENTITIOUS MATERIALS RATIO.
- FOR INTERIOR SLABS ON GRADE AND ALL OTHER SLABS RECEIVING ADHERED FLOORING FINISHES (I.E., GLUED, ETC.), THE MAXIMUM W/C RATIO SHALL NOT EXCEED 0.46. CURING COMPOUNDS USED ON CONCRETE THAT IS TO RECEIVE FINISHES SHALL BE COMPATIBLE WITH TILE AND ADHESIVES OR GROUTS IN ACCORDANCE WITH MANUFACTURER'S DATA AND BE APPROVED BEFORE USE.
- e. SLABS ON GRADE, TOPPING SLABS, AND ELEVATED CONCRETE FLOORS SHALL HAVE A MAXIMUM SHRINKAGE RATE OF 0.04% AT 28 DAYS PER ASTM C 157 (CURING TEST SPECIMENS TO BE CONSISTENT WITH FIELD CONDITIONS), OR USING EMBEDDED VIBRATING WIRE STRAIN GAUGES. RESULTS OF TESTING SHALL BE SUBMITTED TO ENGINEER.
- SEE ACI 318 FOR ADDITIONAL REQUIREMENTS REGARDING MAXIMUM AGGREGATE SIZE. AGGREGATE GRADATION OF 3/8" MAXIMUM (PEA GRAVEL) SHALL NOT BE USED WHERE FINISHED CONCRETE SURFACE IS EXPOSED TO VIEW.
- 5. CONCRETE MIX DESIGN AND TESTING SHALL MEET THE REQUIREMENTS OF THE BUILDING CODE, AND SPECIFICATIONS. ALL CONCRETE MIXES SHALL BE DESIGNED PER ACI 318 SECTION 5.2 BY A RECOGNIZED TESTING LAB STAMPED AND SIGNED BY A LICENSED CALIFORNIA CIVIL ENGINEER AND SUBMITTED TO THE EOR FOR REVIEW PRIOR TO CONCRETE PLACEMENT. STRUCTURAL CONCRETE MIXES SHALL CONSIST OF 5 SACK MINIMUM UNO.
- 6. AGGREGATES IN NORMAL WEIGHT CONCRETE SHALL CONFORM TO ASTM C-33 (HARDROCK). AGGREGATES IN LIGHT WEIGHT CONCRETE SHALL CONFORM TO ASTM C-330.
- 7. COMPRESSIVE STRENGTH TEST REPORTS SHALL BE SUBMITTED TO THE BUILDING DEPARTMENT AND THE EOR.
- 8. PORTLAND CEMENT SHALL BE TYPE II AND SHALL CONFORM TO ASTM C150, LOW ALKALI, MILL TESTS WITH CERTIFICATES OF COMPLIANCE SHALL BE SUBMITTED.
- 9. FLY ASH OR OTHER POZZOLANS CONFORMING TO ASTM C618 CLASS F MAY BE USED AS A PARTIAL SUBSTITUTION FOR PORTLAND CEMENT UP TO A MAXIMUM OF 25% TOTAL CEMENTITIOUS MATERIALS BY WEIGHT IF THE MIX DESIGN IS PROPORTIONED BY FIELD EXPERIENCE OR TRIAL MIXTURES.
- 10. CONCRETE MIXING OPERATIONS, ETC. SHALL CONFORM TO ASTM C94.
- 11. LEAN CONCRETE, WHERE SPECIFICALLY INDICATED, SHALL CONTAIN 2 SACKS OF CEMENT PER CUBIC YARD OF CONCRETE.
- 12. DRYPACK OR NONSHRINK GROUT SHALL HAVE A MINIMUM 28 DAY COMPRESSIVE STRENGTH OF 5000 PSI, AND CONSIST OF MASTERFLOW 713, EUCON NS GROUT, SIKA GROUT 212, OR APPROVED EQUAL. FOR THICK GROUT LAYERS FOLLOW MANUFACTURER'S GUIDELINES TO ATTAIN THE REQUIRED STRENGTH, WHICH MAY INCLUDE THE ADDITION OF PEA GRAVEL. FOR BASE PLATES LARGER THAN 6 SQUARE FEET, USE HI-FLOW GROUT OR MASTERFLOW 928.
- 13. DO NOT USE ANY CONCRETE OR GROUT CONTAINING CHLORIDES. WATER USED IN MIX SHALL BE CLEAN AND POTABLE.
- 14. PRIOR TO ERECTING ANY ELEMENTS THAT LOAD THE FOUNDATION, CONCRETE MUST REACH AN UNCONFINED COMPRESSION STRENGTH OF 2000 PSI MINIMUM AS DETERMINED BY TESTING OR PREVIOUSLY DOCUMENTED DATA FOR THE MIX DESIGN USED UNDER SIMILAR CONDITIONS, AND MUST BE ALLOWED TO CURE FOR A MINIMUM OF 3 DAYS.
- 15. MAINTAIN CONCRETE ABOVE 50 DEGREES FAHRENHEIT AND IN A MOIST CONDITION FOR A MINIMUM OF 7 DAYS AFTER PLACEMENT UNLESS OTHERWISE ACCEPTED BY EOR.
- 16. SEE ARCHITECTURAL DRAWINGS FOR WALL OPENINGS, WALL OFFSETS, CHAMFERS, KERFS, DRIPS AND FOR EXTENT OF DEPRESSIONS, RAMPS, ETC.
- 17. PROVIDE SLEEVES FOR ALL PIPES THROUGH CONCRETE WALLS AND FOOTINGS WHERE SHOWN ON THESE DRAWINGS. CORING IS NOT PERMITTED WITHOUT PRIOR APPROVAL BY THE EOR.
- 18. EXPOSED CORNERS OF SLABS, BEAMS, WALLS, COLUMNS, ETC. SHALL BE FORMED WITH 3/4" CHAMFER OR 1/2" RADIUS TOOLED EDGE, UNO.

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$\sqrt{1}$	OSHPD COMMENTS	8/3/2020
${2}$	DESIGN CHANGES	8/10/2020
$\sqrt[3]{3}$	OSHPD COMMENTS	10/2/2020
4 4	OSHPD COMMENTS	11/24/2020
5 5	DESIGN CHANGES	11/24/2020
6 6	ACD 0001 DESIGN CHANGES	04/14/2023

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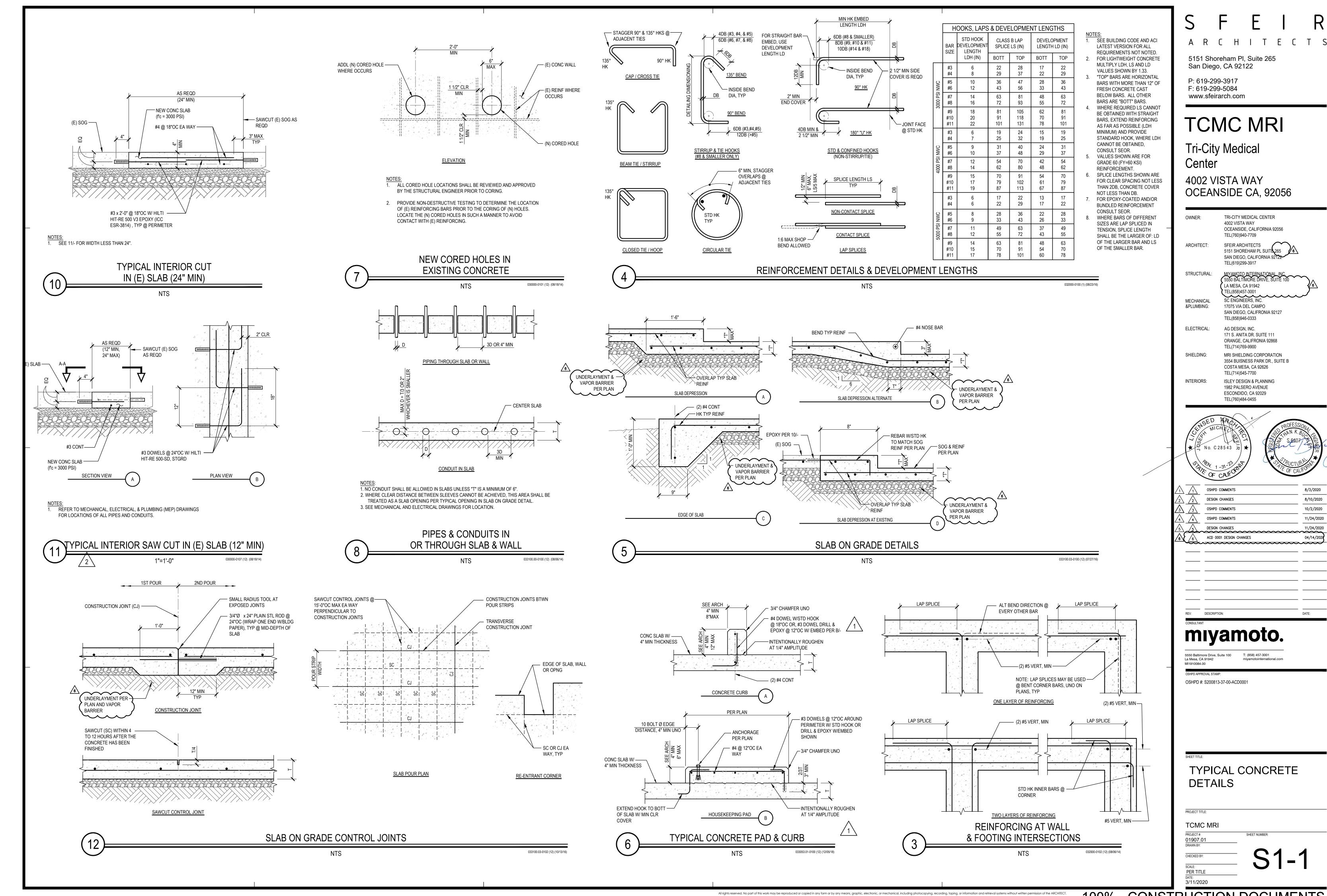
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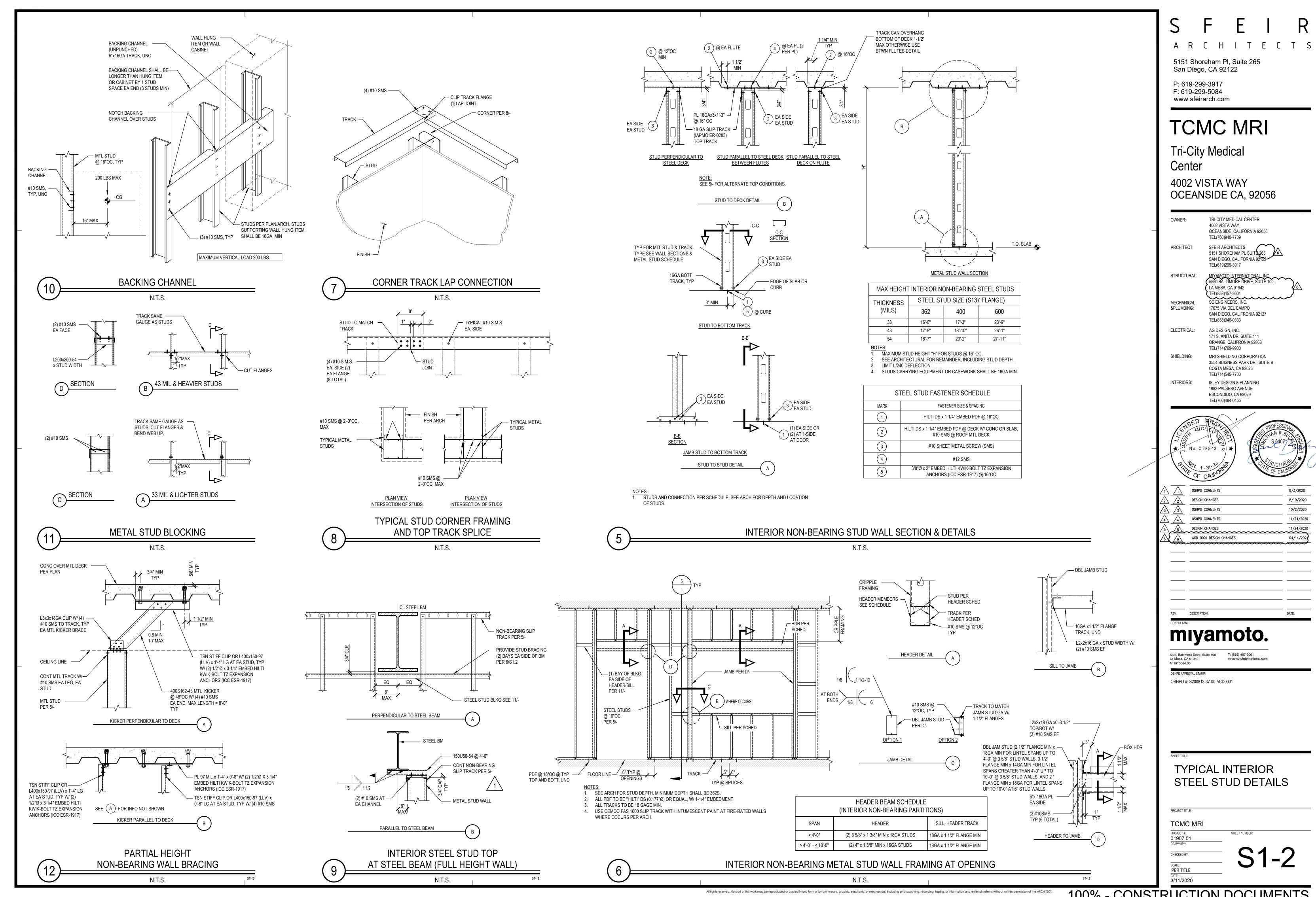
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GENERAL NOTES

TCMC MRI 01907.01

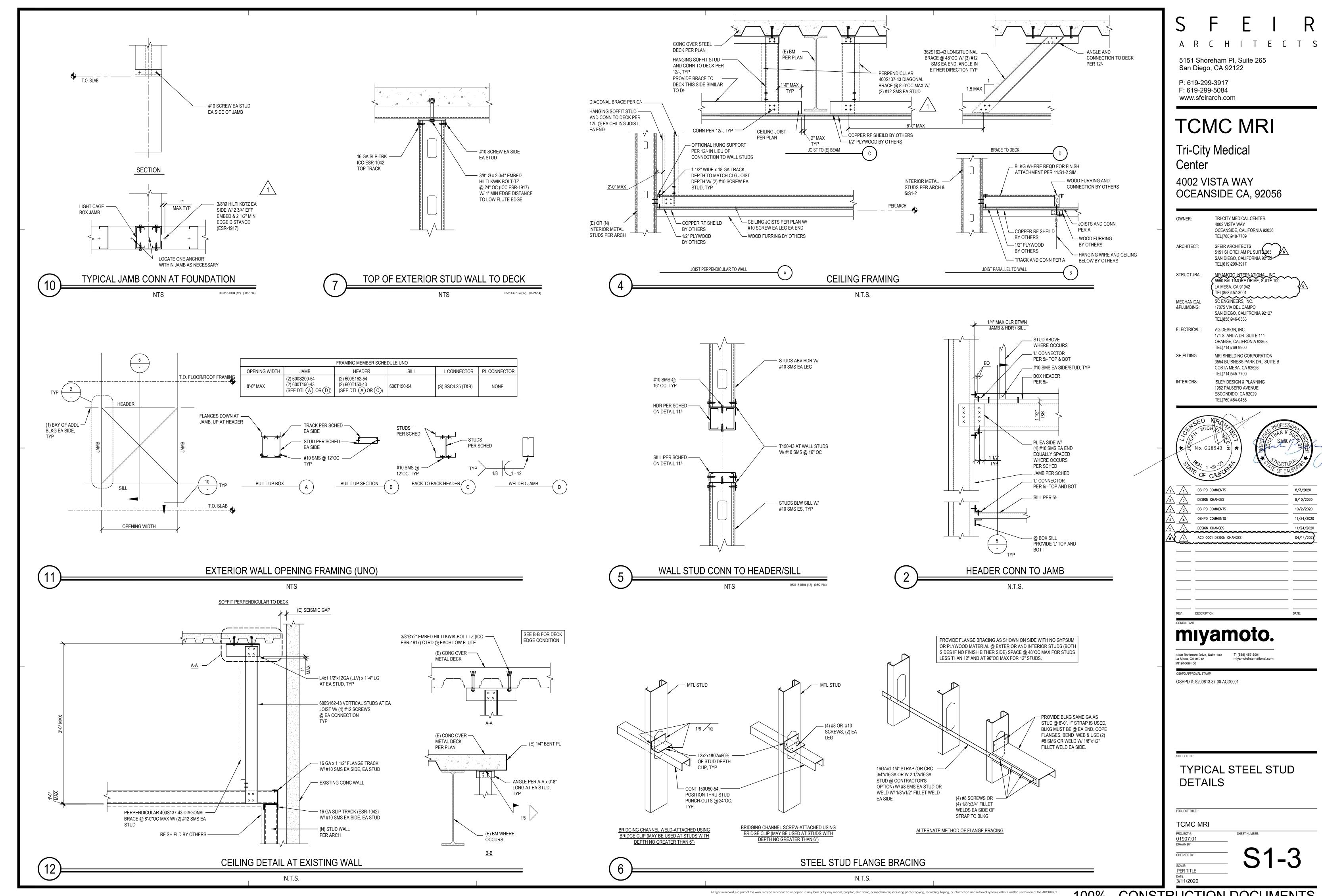
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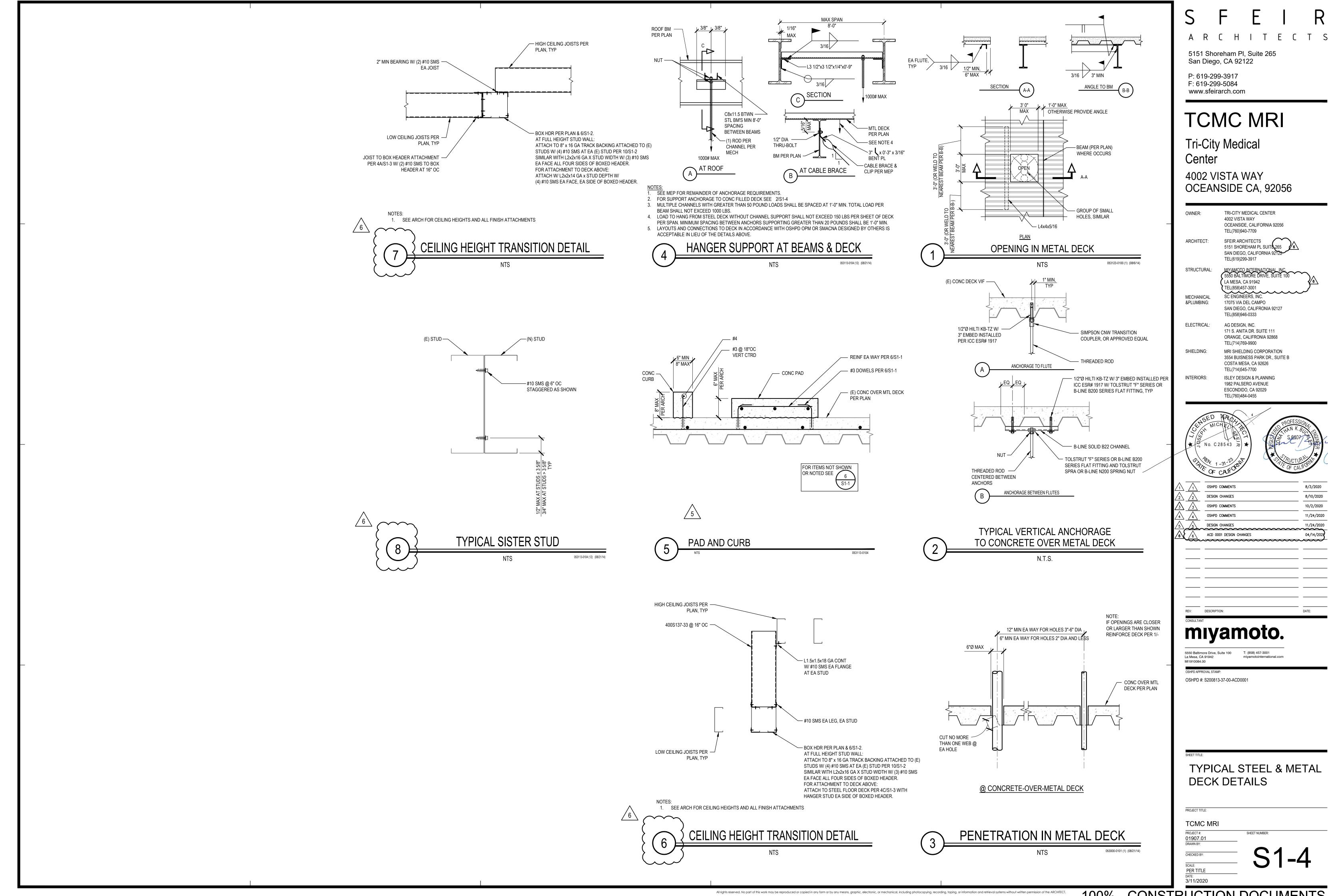


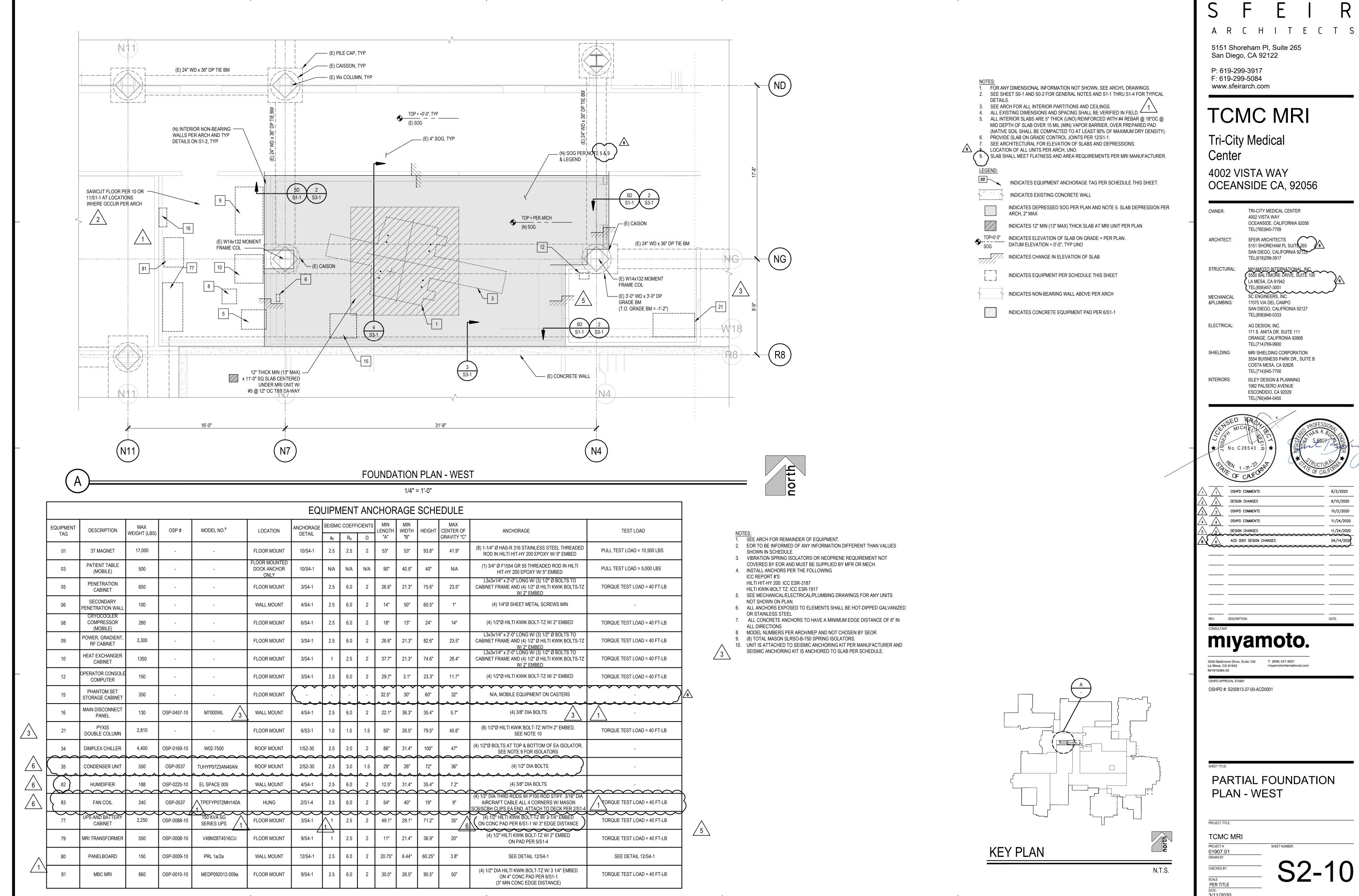




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4 4	OSHPD COMMENTS	11/24/2020
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6 6	ACD 0001 DESIGN CHANGES	04/14/2022



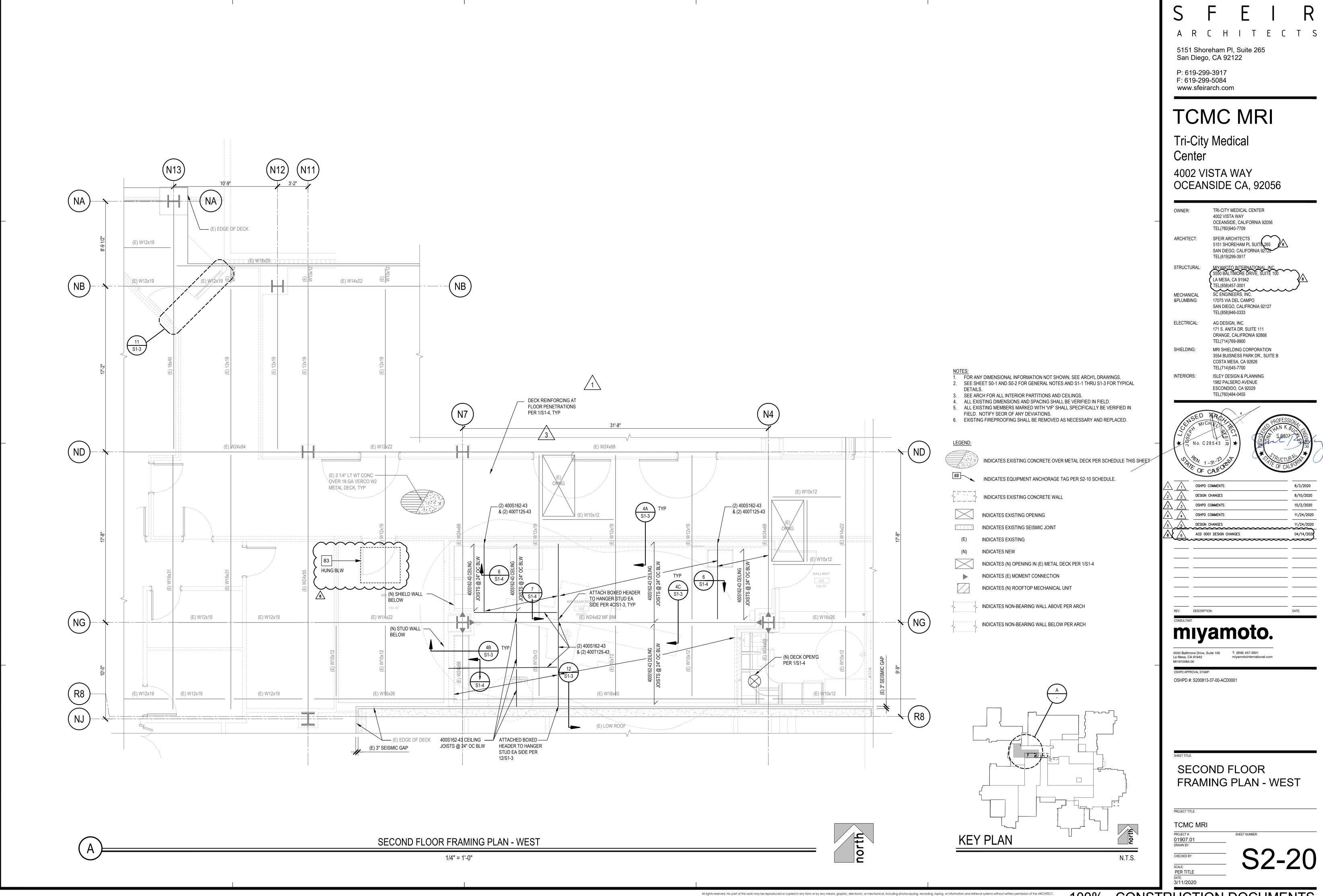




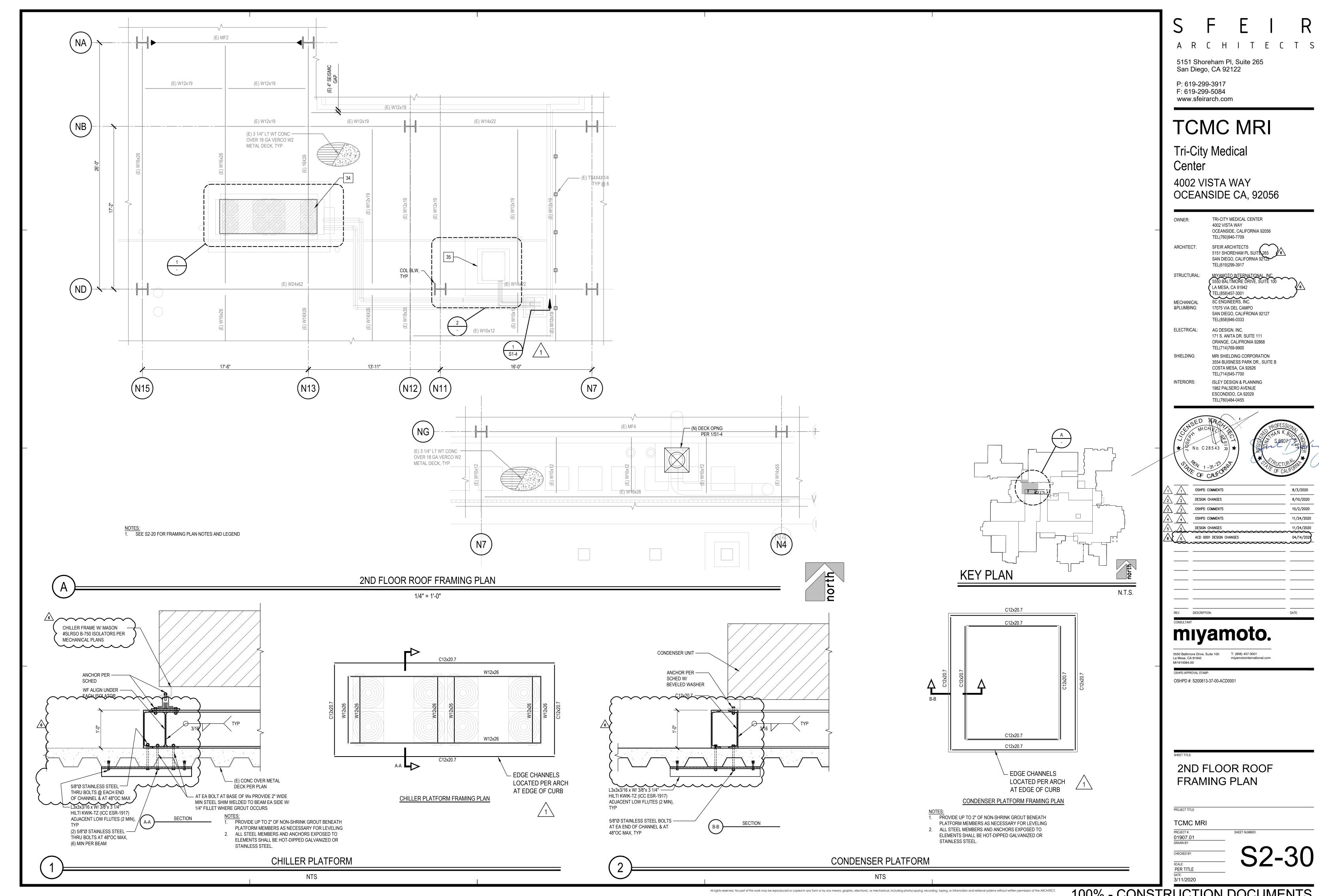
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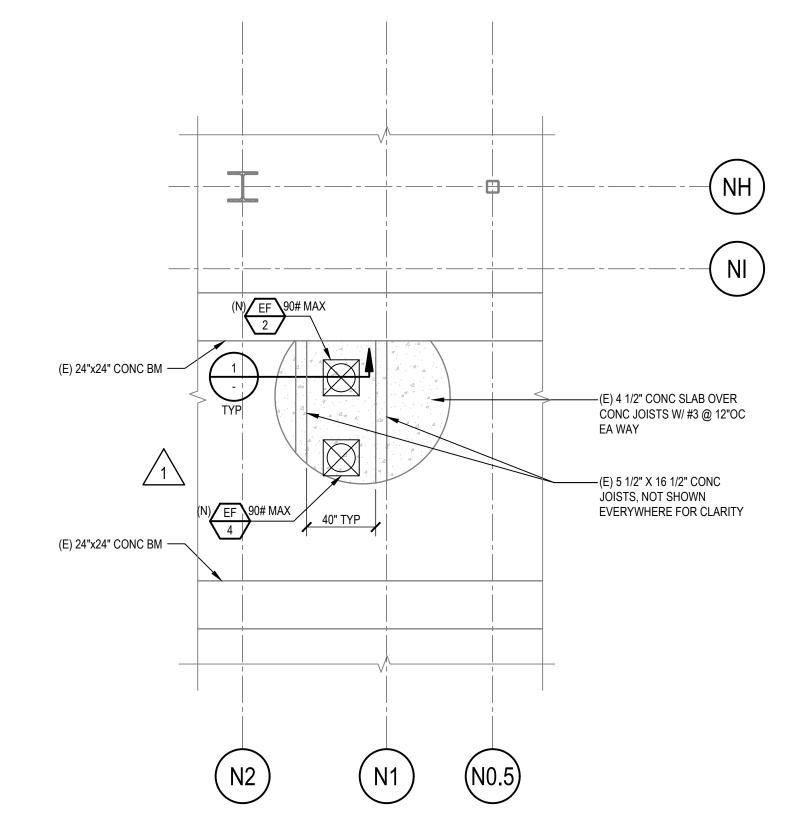


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$\frac{1}{2}$	DESIGN CHANGES	8/10/2020
$\frac{1}{3}$	OSHPD COMMENTS	10/2/2020
4 4	OSHPD COMMENTS	11/24/2020
5 5	DESIGN CHANGES	11/24/2020
6 6	ACD 0001 DESIGN CHANGES	04/14/2023
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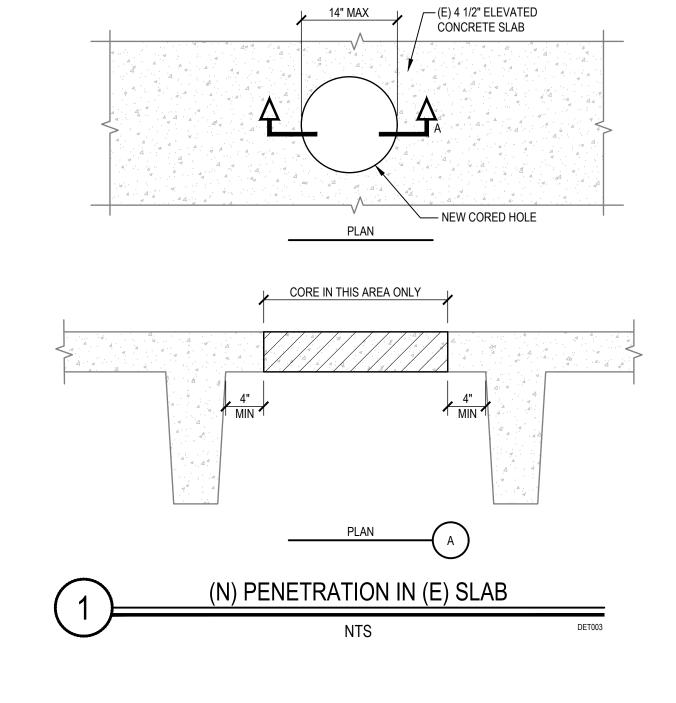
$\overline{\bigwedge_1}$	OSHPD COMMENTS	8/3/2020
2	DESIGN CHANGES	8/10/2020
3	OSHPD COMMENTS	10/2/2020
4	OSHPD COMMENTS	11/24/2020
<u> </u>	DESIGN CHANGES	11/24/2020
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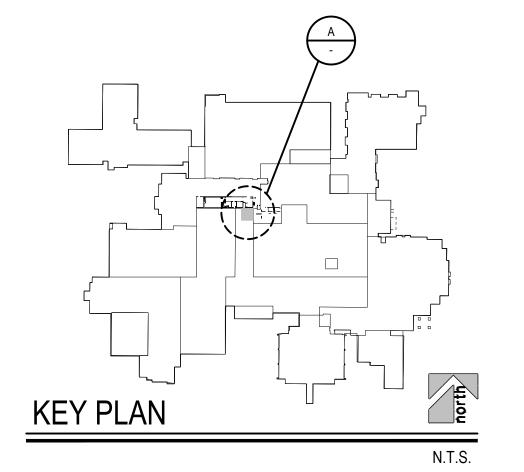
LOWER ROOF FRAMING PLAN

1/4" = 1'-0"



NOTES:

1. SEE S2-20 FOR FRAMING PLAN NOTES AND LEGEND.



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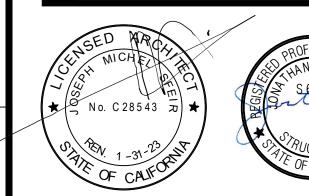
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DESIGN CHANGES	11/24/2020
ACD 0001 DESIGN CHANGES	04/14/2021
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: DESCRIPTION: DATE:

# miyamoto.

5550 Baltimore Drive, Suite 100 T: (858) 457-3001 La Mesa, CA 91942 miyamotointernationa MI1910084.00

OSHPD APPROVAL STAMP:

OSHPD #: S200813-37-00-ACD0001

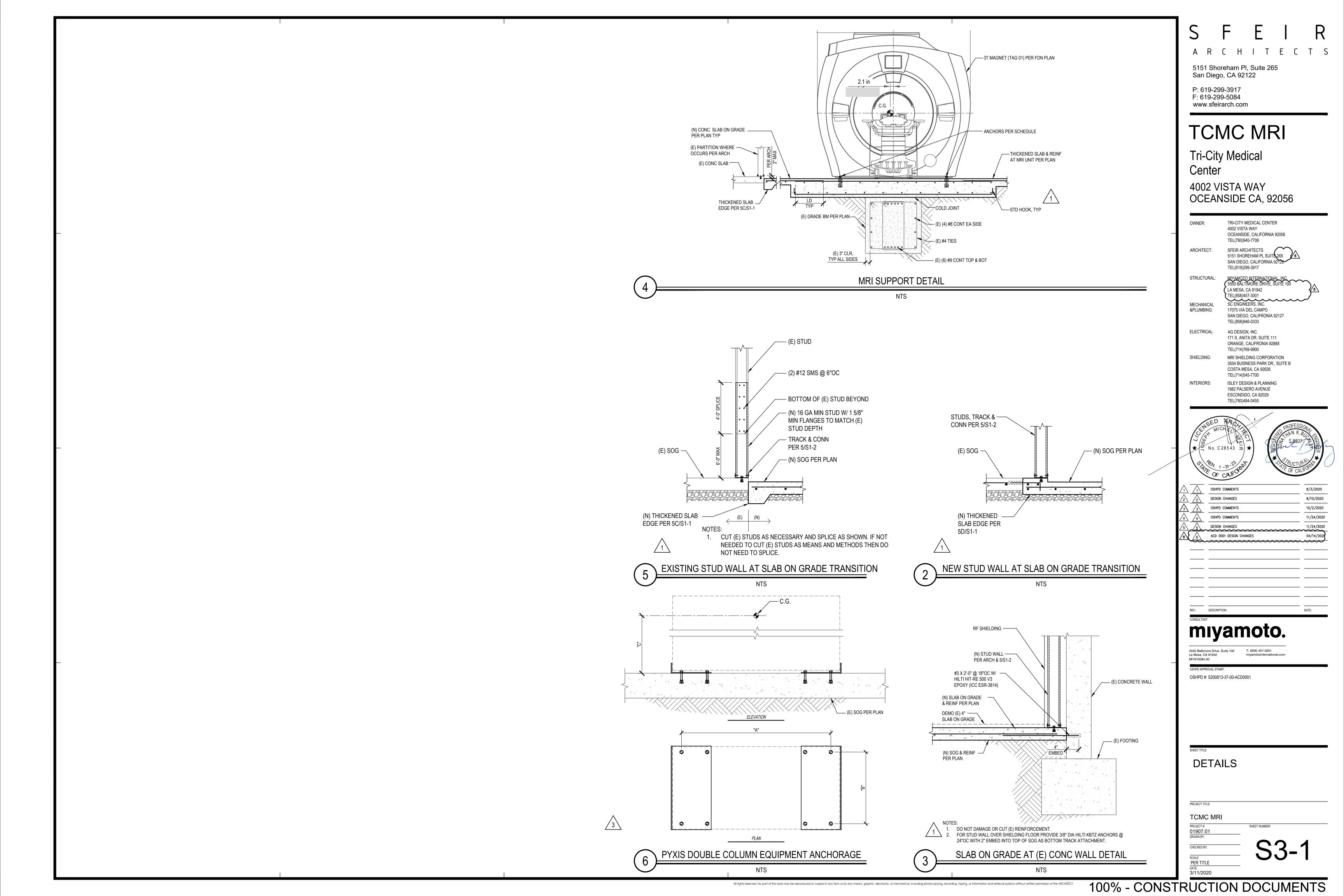
## LOWER ROOF FRAMING PLAN

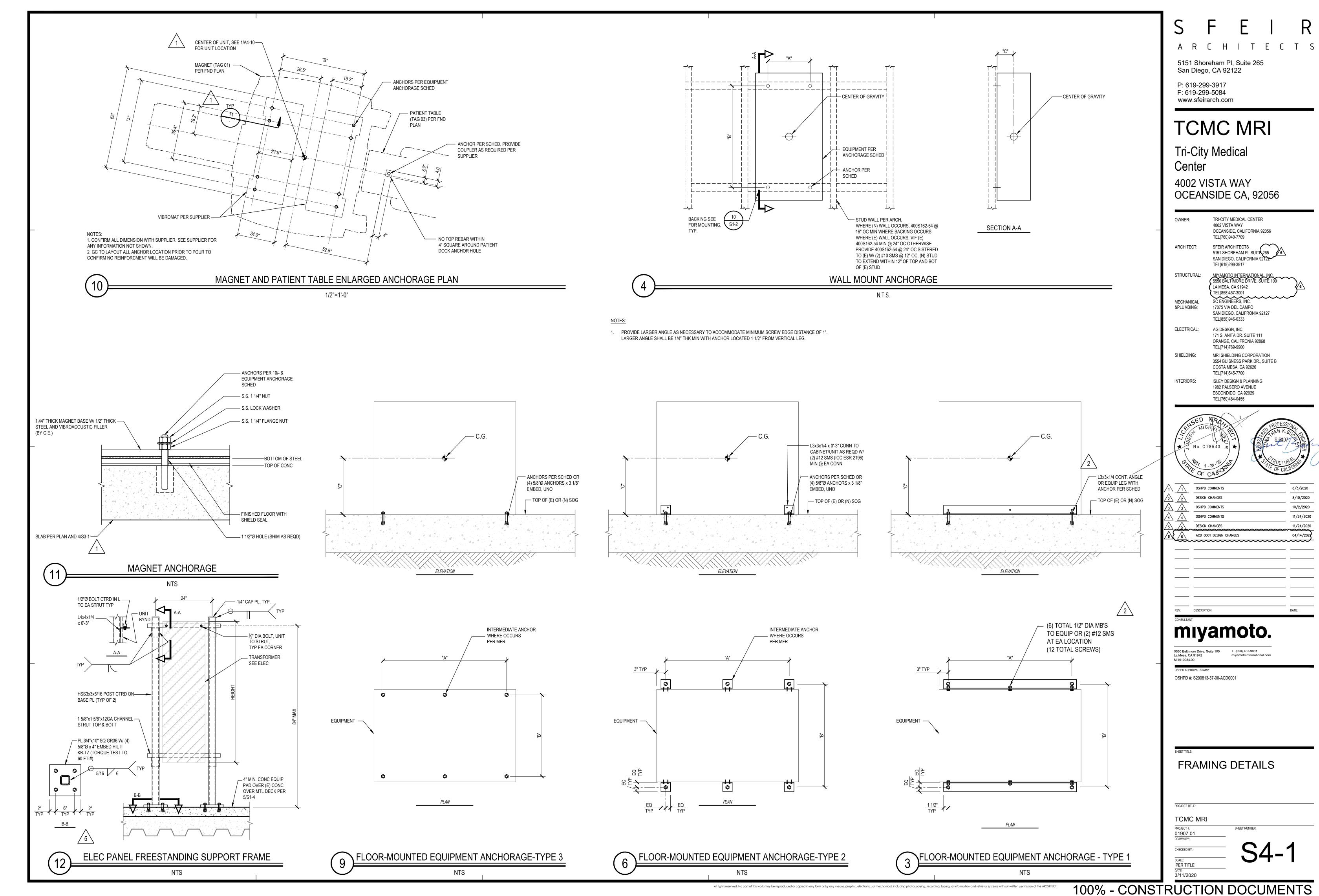
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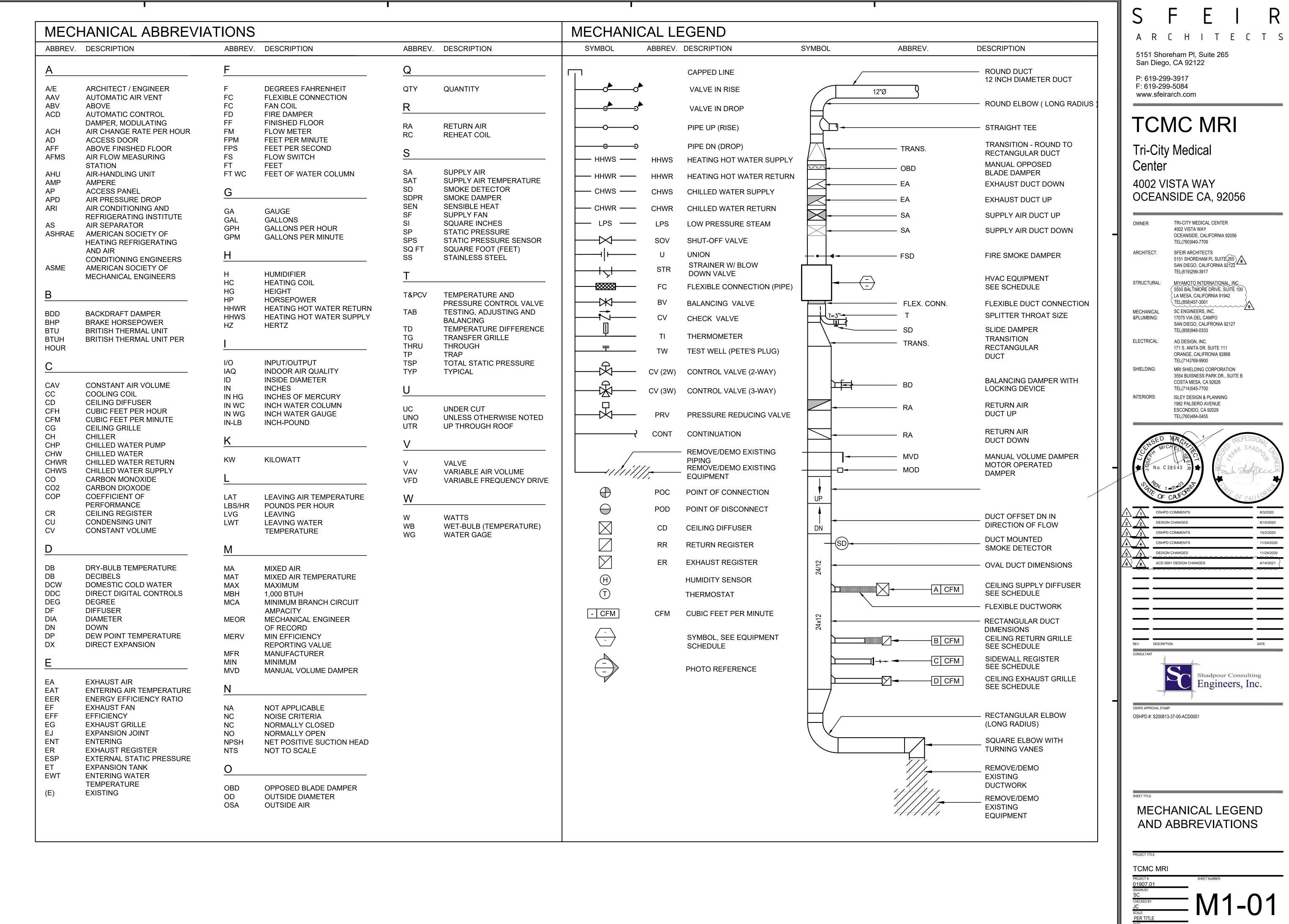
TCMC MRI

PROJECT #: SHEET NUMBER:
01907.01
DRAWN BY:

CHECKED BY:
SCALE:
PER TITLE
DATE:
3/11/2020







#### **GENERAL NOTES**

- 1. THESE DRAWINGS ARE A GENERAL GRAPHIC PRESENTATION OF THE WORK. DUCTWORK, PIPING, AND EQUIPMENT, AS SHOWN, ARE DIAGRAMMATIC. DO NOT SCALE DRAWINGS. PROVIDE ADDITIONAL OFFSETS AND SECTIONS OF DUCTWORK AND PIPING AS REQUIRED TO MEET THE PROJECT REQUIREMENTS.
- 2. COORDINATE WITH OTHER TRADES. PROVIDE A COMPLETE SET OF SHOP DRAWINGS REFLECTING ACTUAL DIMENSIONS, ACCESS REQUIREMENTS, AND DETAILS BASED UPON THE ACTUAL EQUIPMENT PROCURED. MAINTAIN AN UP TO DATE SET OF AS-BUILT DRAWINGS AT THE JOB SITE.
- COMPLY WITH APPLICABLE MECHANICAL CODE, PLUMBING CODE, FIRE PROTECTION CODE, AND ALL OTHER GOVERNING CODES. THERE SHALL BE NO EXCEPTION. REPORT DEFICIENCIES WITHIN THIRTY (30) DAYS UPON AUTHORIZATION TO PROCEED.
- REVIEW ALL DRAWINGS AND SPECIFICATIONS INCLUDING ARCHITECTURAL, STRUCTURAL, CIVIL, MECHANICAL, PLUMBING, FIRE PROTECTION AND ELECTRICAL. ANY QUESTIONS SHALL BE BROUGHT UP, IN WRITING, TO THE ATTENTION OF THE ENGINEER BEFORE THE START OF CONSTRUCTION.
- PROVIDE ACCESS AND CLEARANCE FOR MAINTENANCE OF MECHANICAL EQUIPMENT AND COMPONENTS AS RECOMMENDED BY EQUIPMENT MANUFACTURER AND APPLICABLE CODES, BUT NO LESS THAN 3 FEET ON ALL SIDES.
- 6. ALL SEALS, BEARINGS, PACKINGS, AND ACCESSORIES FOR ALL **EQUIPMENT AND PIPING SPECIALTIES SHALL BE SUITABLE FOR** THE CONTINUOUS OPERATIONAL TEMPERATURES, PRESSURES, AND CHARACTERISTICS OF THE SYSTEMS THEY SERVE.
- 7. HANDLE, STORE, AND INSTALL EQUIPMENT PER MANUFACTURER'S INSTRUCTIONS.
- 8. SUPPORT PIPING IN ACCORDANCE WITH ANSI/MSS SP-58 PIPE HANGERS AND SUPPORTS - MATERIALS, DESIGN, MANUFACTURE. SELECTION. APPLICATION. AND INSTALLATION.
- SUPPORT DUCTWORK IN ACCORDANCE WITH ANSI/SMACNA 006 HVAC DUCT CONSTRUCTION STANDARDS - METAL AND FLEXIBLE.
- 10. BRACE PIPING, EQUIPMENT, DUCTWORK, AND CONDUIT IN ACCORDANCE WITH ISAT DESIGN, INSTALLATION & INSPECTION MANUAL FOR NON-STRUCTURAL SEISMIC BRACING UNLESS THE **AUTHORITY HAVING JURISDICTION HAS ADDITIONAL** REQUIREMENTS.
- 11. REFER TO ARCHITECTURAL REFLECTED CEILING PLAN FOR EXACT LOCATION OF DIFFUSERS, REGISTERS, GRILLES, AND ACCESS PANELS.
- 12. ALL DUCT DIMENSIONS, AS SHOWN ON MECHANICAL DRAWINGS, ARE CLEAR INSIDE DIMENSIONS.
- 13. INSULATION AND FLEXIBLE DUCT SHALL COMPLY WITH STATE FIRE MARSHALL CRITERIA AND SHALL NOT EXCEED FLAME SPREAD OF 25 AND SMOKE DEVELOPED OF 50 PER ASTM. NFPA. AND UL.
- 14. INSULATE PIPING AND DUCTWORK IN ACCORDANCE WITH THE GOVERNING CODES AT A MINIMUM. INSULATE TO PREVENT CONDENSATION.
- 15. COMMISSION AND START-UP THE MECHANICAL SYSTEMS TO ASSURE A COMPLETE AND OPERATIONAL HVAC SYSTEM IN ACCORDANCE WITH ASHRAE, NEBB. OR AABC.
- 16. ALL SQUARE ELBOWS IN DUCTWORK SHALL HAVE TURNING VANES. PROVIDE MANUAL VOLUME DAMPER AT EACH BRANCH DUCT TAKE-OFF SERVING EACH AIR TERMINAL DEVICE. PROVIDE BALANCING DAMPERS FOR EACH MAIN DUCT TAKE-OFF IN ACCORDANCE WITH SMACNA IN ORDER TO ASSURE A COMPLETELY BALANCED SYSTEM.
- 17. FIRE DAMPER ASSEMBLIES, INCLUDING LOCATION, SLEEVES, AND INSTALLATION PROCEDURES. SHALL BE APPROVED BY THE BUILDING INSPECTOR PRIOR TO PROCUREMENT AND INSTALLATION. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATION OF FIRE RATED WALLS AND SMOKE SEPARATIONS.
- 18. ALL PENETRATIONS THROUGH FIRE RATED CONSTRUCTION SHALL BE FIRE SEALED WITH UL LISTED THROUGH-PENETRATION SEALING SYSTEMS SUITABLE FOR WAILL/FLOOR ASSEMBLIES AND PENETRATING MATERIAL.
- 19. ALL FITLERS TO BE REPLACED AFTER THE FINAL TEST AND BALANCE.
- 20. ADJUSTABLE SHEAVES ON AHU FAN PULLEYS TO FACILITATE STATIC PRESSURE ADJUSTMENTS AT TEST AND BAI ANCE

#### SHOP DRAWING NOTES

- PROCEED WITH THE PREPARATION OF COMPREHENSIVE THREE DIMENSIONAL (3D) SHOP DRAWINGS UPON RECEIPT OF AN AUTHORIZATION TO PROCEED FOR THE PROJECT. SHOP DRAWINGS SHALL BE ORIGINALLY PREPARED BY THE CONTRACTOR. PROVIDE MINIMUM 1/4" = 1'-0" SCALE FLOOR PLANS IN ADDITION TO THE SHOP DRAWINGS COMPLETED WITHIN A 3D MODEL IN REVIT, AUTOCAD, NAVISWORKS, OR SIMILAR PROGRAM. SUBMIT A COMPLETE AND COMPREHENSIVE SET OF SHOP DRAWINGS IN ONE PACKAGE WITHIN 60 DAYS OF CONTRACT AWARD AND PRIOR TO MATERIAL FABRICATION, ORDER, AND INSTALLATION. SHOP DRAWINGS SHALL INCLUDE, BUT ARE NOT LIMITED TO, THE **FOLLOWING:**
- A. ARCHITECTURAL, STRUCTURAL, ELECTRICAL, PLUMBING, AND OTHER WORK SPECIFIED OUTSIDE DIVISION 23.
- B. DUCT AND PIPE (MECHANICAL AND PLUMBING) ELEVATIONS.
- C. DIMENSIONS OF EQUIPMENT TO BE PURCHASED.
- D. HANGERS AND SUPPORTS, INCLUDING METHODS FOR DUCT AND BUILDING ATTACHMENT. SEISMIC RESTRAINTS. AND VIBRATION ISOLATION.
- E. ACCESS PANELS INCLUDING CEILING PANELS
- F. ACCESS CLEARANCES FOR EQUIPMENT.
- G. LOCATIONS OF DIFFUSERS, REGISTERS, AND GRILLES.
- H. LOCATIONS OF MANUAL VOLUME DAMPERS INCLUDING EXTRACTORS AND SPLITTERS.
- LOCATIONS OF STRUCTURAL PENETRATIONS SUCH AS BEAMS.
- LOCATION OF CONTROL PANELS AND POWER CONNECTIONS TO EQUIPMENT.
- K. COLOR CODED DESIGNATION FOR DUCT AND PIPING BASED UPON MATERIAL USED AND STATIC PRESSURE RATING.
- L. LABEL AND TAG SCHEDULE FOR EQUIPMENT
- M. DUCT AND PIPING OFF-SETS AND TRANSITIONS TO CLEAR BUILDING ARCHITECTURE, STRUCTURE, ELECTRICAL, FIRE PROTECTION, OR OTHER TIGHT OR CONGESTED AREAS.
- N. EXISTING BUILDING UTILITIES BEING RELOCATED TO ACCOMMODATE DESIGN.
- O. ROOM TEMPERATURE AND OTHER SIMILAR SENSOR LOCATIONS.
- P. POINT OF CONNECTION TO UTILITIES OUTSIDE THE BUILDING.
- Q. GRIDLINES.
- 2. COORDINATE WITH OTHER TRADES AND EXISTING CONDITIONS.
- 3. INCLUDE SIGNATURES ON THE SHOP DRAWINGS FROM ALL APPLICABLE TRADES CONFIRMING ALL COORDINATION HAS OCCURRED AND THE SUBMITTED SHOP DRAWINGS ARE FREE OF CONFLICTS.
- 4. SUBMIT A CLASH DETECTION LOG FROM THE SOFTWARE UTILIZED INDICATING THERE ARE NO CLASHES.
- 5. SHOP DRAWINGS SHALL BE REVIEWED AND APPROVED BY THE COMMISSIONING AUTHORITY PRIOR TO SUBMITTAL TO ASSURE DESIGN INTENT IS MET AND PROPER COORDINATION IS MAINTAINED.
- 6. PRIOR TO FABRICATION AND UPON RECEIVING APPROVAL FROM COMMISSIONING AUTHORITY. SUBMIT A FINAL SET OF SHOP DRAWINGS.

#### **OSHPD NOTES**

- 1. THE INTENT OF THE CONSTRUCTION DOCUMENTS IS TO RECONSTRUCT THE HOSPITAL BUILDING IN ACCORDANCE WITH THE MOST CURRENT CBSC. SHOULD ANY CONDITION DEVELOP NOT COVERED BY THE APPROVED CONSTRUCTION DOCUMENTS, WHEREIN THE FINISHED WORK WILL NOT COMPLY WITH THE MOST CURRENT CBSC, AMENDED CONSTRUCTION DOCUMENTS (ACDS) DETAILING AND SPECIFYING THE REQUIRED WORK SHALL BE SUBMITTED TO AND APPROVED BY OSHPD BEFORE PROCEEDING WITH THE WORK.
- 2. SUPPORTS AND ATTACHMENTS OF ALL EQUIPMENT TO BE INSTALLED AS A PART OF THIS PROJECT SHALL BE DETAILED ON CONSTRUCTION DOCUMENTS, EXCEPT THOSE EXEMPT BY THE MOST CURRENT CBC. EQUIPMENT SUPPORTS AND ATTACHMENTS SHALL BE APPROVED BY THE APPROPRIATE REGISTERED DESIGN PROFESSIONAL (RDP) OF RECORD AND OSHPD AS A PART OF FIELD REVIEWS/OBSERVATIONS. THE INSPECTOR OF RECORD (IOR) SHALL ASSURE THAT THE ABOVE REQUIREMENTS ARE ENFORCED.
- 3. PRE-APPROVED PIPES, DUCTS, AND CONDUITS SEISMIC BRACING: ATTACHMENTS, AND BRACING SYSTEMS IN ACCORDANCE WITH THE PRE-APPROVAL SHALL BE SUBMITTED TO THE STRUCTURAL ENGINEER OF RECORD (SEOR) REGISTERED DESIGN PROFESSIONAL (RDP) IN RESPONSIBLE CHARGE OF THE PROJECT FOR REVIEW TO VERIFY THAT THE DETAILS ARE IN CONFORMANCE WITH THE CBC.
  - A. THE SEOR SHALL VERIFY THAT THE SUPPORTIVE STRUCTURE IS ADEQUATE FOR THE FORCES IMPOSED ON IT BY THE SUPPORTS, ATTACHMENTS AND BRACES INSTALLED IN ACCORDANCE WITH THE PRE-APPROVAL IN ADDITION TO ALL OTHER LOADS.
  - B. THE SEOR SHALL FORWARD THE SUPPORTS, ATTACHMENTS, AND BRACING DRAWINGS (INCLUDING CONSTRUCTION DOCUMENTS FOR SUPPLEMENTARY FRAMING, WHERE REQUIRED) TO THE RDP IN RESPONSIBLE CHARGE WITH A NOTATION INDICATING THAT THE DRAWINGS HAVE BEEN REVIEWED AND ARE IN GENERAL CONFORMANCE WITH THE PRE-APPROVAL AND THE DESIGN OF THE PROJECT
  - C. A REVIEW STAMP SHALL BE PERMITTED TO BE USED, BY THE SEOR, TO INDICATE COMPLIANCE WITH THIS REQUIREMENT.
- PRE-APPROVAL OF MANUFACTURER'S CERTIFICATION (OPM) WITH REGARD TO SIZE OF DISTRIBUTION SYSTEM COMPONENTS, SPACING OF BRACING AND FLEX, AND JOINT SUBSTRATE FOR ATTACHMENTS.
- 5. THE LAYOUT DRAWINGS. WITH THE REVIEW STAMP. SHALL BE KEPT ON THE JOBSITE TO BE USED FOR INSTALLATION OF THE SUPPORT AND BRACING.
- 7. OSHPD FIELD STAFF WILL REVIEW/INSPECT THE INSTALLATION IN ACCORDANCE WITH THE CAC.
- COMPONENTS OF TWO OR MORE PRE-APPROVED BRACING SYSTEMS SHALL NOT BE MIXED. ONLY ONE PRE-APPROVED BRACING SYSTEM MAY BE USED FOR A RUN OF PIPE, DUCT, OR RACEWAY. ANY SUBSTITUTION OF A COMPONENT OF AN OPM SYSTEM SHALL REQUIRE OSHPD REVIEW AND APPROVAL.
- 10. EXPANSION ANCHORS: ALL POST INSTALLED CONCRETE ANCHORS SHALL MEET REQUIREMENTS OF THE MOST THE SPECIAL INSPECTOR SHALL BE ON THE JOBSITE CONTINUOUSLY DURING ANCHOR INSTALLATION, UNLESS OTHERWISE NOTED IN THE ICC ESR. EXPANSION ANCHORS TO BE TESTED PER THE REQUIREMENTS SPECIFIED IN THE MOST CURRENT CBC.
- 11. BRACE PIPES, DUCTWORK, AND CONDUIT IN ACCORDANCE WITH ONE OF THE FOLLOWING PRE-APPROVED BRACING BRACING SYSTEMS SHALL NOT BE MIXED:
  - A. OPM-0043-13 MASON WEST SEISMIC RESTRAINT GUIDELINES FOR SUSPENDED DISTRIBUTION SYSTEMS.
  - B. OPM-0403-13 ISAT SEISMIC RESTRAINT GUIDELINES

#### SHEET INDEX

- MECHANICAL LEGEND AND ABBREVIATIONS MECHANICAL GENERAL NOTES **MECHANICAL PHASING PLAN - PHASE 1** MECHANICAL PHASING PLAN - PHASE 2 MECHANICAL PHASING PLAN - PHASE 3A MECHANICAL PHASING PLAN - PHASE 3B **MECHANICAL PHASING PLAN - PHASE 4 MECHANICAL PHASING PLAN - PHASE 5**
- MECHANICAL DEMOLITION PLAN MECHANICAL DEMOLITION PLAN MECHANICAL PLAN MECHANICAL PLAN

MECHANICAL ZONING PLAN

MECHANICAL PIPING PLAN MECHANICAL PIPING PLAN MECHANICAL PLAN - SECOND FLOOR

M1-09

- MECHANICAL ROOF PLAN MECHANICAL ROOF PLAN MECHANICAL SECTION MECHANICAL ISOMETRIC VIEW
- VERIFY THAT SUBMITTAL IS WITHIN THE SCOPE OF OSHPD
- 6. THE APPROVED AGENCY/INSPECTOR OF RECORD SHALL PROVIDE INSPECTION IN ACCORDANCE WITH THE CBC.
- 8. A COPY OF THE BRACING SYSTEM(S) INSTALLATION GUIDE/OPM MANUAL SHALL BE ON THE JOBSITE PRIOR TO STARTING THE INSTALLATION OF HANGERS AND/OR BRACES. THE APPROVED AGENCY/INSPECTOR SHALL MAINTAIN AN APPROVED COPY OF THE OPM (OBTAINED FROM THE OSHPD WEBSITE) IN ACCORDANCE WITH THE CAC.
- CURRENT CBC, AND BE INSTALLED PER THEIR ICC ESR REPORT.
- SYSTEMS. COMPONENTS OF TWO OR MORE PRE-APPROVED

# PROJECT NOTES

MECHANICAL DETAILS

MECHANICAL DETAILS

MECHANICAL SCHEDULES

MECHANICAL SCHEDULES

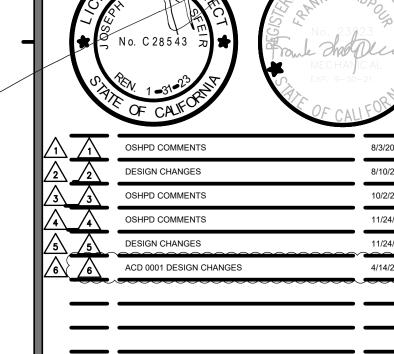
MECHANICAL SCHEDULES

MECHANICAL CONTROLS

MECHANICAL PHOTOS

- FIELD VERIFY ALL EXISTING CONDITIONS INCLUDING STRUCTURAL, MECHANICAL, PLUMBING, ELECTRICAL, EQUIPMENT, AND ALL OTHER EXISTING SYSTEMS. MAKE NECESSARY PROVISIONS TO MAINTAIN THE INTEGRITY OF SYSTEMS PRIOR TO THE COMMENCEMENT OF DEMOLITION.
- 2. COORDINATE PHASING OF ALL DEMOLITION AND NEW WORK WITH OTHER TRADES. REVIEW RENOVATION DRAWINGS TO VERIFY AND DETERMINE EXTENT OF, AND SCHEDULING FOR, ALL DEMOLITION PRIOR TO PERFORMING ANY WORK.
- 3. FOR RENOVATION WORK, FIELD VERIFY ALL SIZES, LOCATIONS, AND ROUTING OF EXISTING ITEMS TO REMAIN, AND OF NEW WORK INDICATED ON THE PLANS. NOTIFY THE DESIGN **AUTHORITY OF ANY DEVIATIONS WHICH MAY AFFECT** RENOVATION WORK OR SYSTEM OPERATION PRIOR TO PROCEEDING WITH THE WORK.
- OWNER TO REPAIR DUCT LEAKS IN AH-1 PRIOR TO START OF THIS PROJECT.

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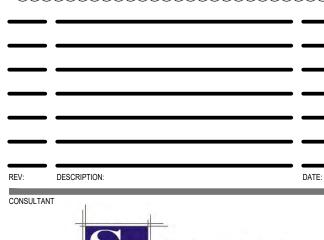
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Engineers, Inc.

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MECHANICAL GENERAL NOTES

TCMC MRI

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#### PHASE 1 MECHANICAL: PRE-TESTING

- AH-1 SYSTEM: PRIOR TO COMMENCEMENT OF CONSTRUCTION, PROVIDE THE FOLLOWING TEST DATA FOR AH-1:
- 1.1. SUPPLY FAN HP, AMPS, RPM, MOTOR SIZE, AND MODEL NUMBER.
- 1.2. RETURN FAN HP, AMPS, RPM, MOTOR SIZE, AND MODEL NUMBER.
- 1.3. MAIN OUTSIDE AIR DUCT TRAVERSE AT AH-1 AT MINIMUM POSITION. CONFIRM OUTSIDE AIR IS MINIMUM 26% OF THE SUPPLY AIR
- 1.4. TOTAL AND EXTERNAL STATIC PRESSURE.
- 1.5. EXISTING AIRFLOW QUANTITIES FOR AS INDICATED ON DRAWINGS.
- 2. EF-1 SYSTEM: PRIOR TO COMMENCEMENT OF CONSTRUCTION, PROVIDE THE FOLLOWING TEST DATA FOR EF-1:
- 2.1. EXHAUST FAN HP, AMPS, RPM, MOTOR SIZE, AND MODEL NUMBER.
- 2.2. EXTERNAL STATIC PRESSURE.

(NB)

(NG)

COORDINATION: COORDINATE WITH ARCHITECTURAL PHASING PLANS AND OTHER TRADES.

#### GENERAL PHASING NOTES

THE FOLLOWING IS INTENDED AS A CONCEPTUAL PHASING PLAN AND IDENTIFIES THE CRITICAL STEPS REQUIRED TO BE COMPLETED. THE PHASES ARE NOT INTENDED TO BE AN ALL INCLUSIVE LIST. THE INTENT IS TO FOLLOW THE OVERALL PHASING PLAN OF THE PROJECT WITH AREAS SERVED BY AH-1 ARE TO REMAIN IN OPERATION. A COMPLETE DETAILED PHASING PLAN SHALL BE COMPLETED WITHIN 30 DAYS OF NOTICE TO PROCEED. THE PHASING PLAN SHALL IDENTIFY ALL ACTIVITIES REQUIRED TO PERFORM THE WORK AND SHALL INCLUDE AT A MINIMUM; SCHEDULE, UTILITY SERVE INTERRUPTIONS, TEMPORARY SERVICE REQUIREMENTS, PRODUCT PROCUREMENT, INSTALLATION AND SKETCHED TO INDICATE EACH STEP. THE PHASING PLAN WILL REQUIRE APPROVAL BY THE OWNER AND MEOR PRIOR TO THE COMMENCEMENT OF ANY CONSTRUCTION ACTIVITIES: THE FOLLOWING ARE OVERALL CRITICAL STEPS OF THE MECHANICAL AND PLUMBING SYSTEMS INSTALLATION.

- PERFORM PRE-TEST READINGS AS INDICATED ON M1-03.
- 2. INSTALL MECHANICAL PIPING AND TEMPORARY DUCTWORK REQUIRED TO KEEP AREAS OUTSIDE SCOPE OF WORK OPERATIONAL
- DEMOLISH MECHANICAL AND PLUMBING SYSTEMS AS INDICATED IN MECHANICAL DEMOLITION PLANS. CONNECT MECHANICAL PIPING AND TEMPORARY DUCTWORK. BALANCE TO PRE-TEST READINGS.
- 4. INSTALL MECHANICAL COMPONENTS REQUIRED TO KEEP AREAS OUTSIDE SCOPE OF WORK OPERATIONAL.
- REMOVE TEMPORARY SYSTEMS.

UP TO

6. INSTALL REMAINING MECHANICAL PLUMBING SYSTEMS PER CONTRACT DRAWINGS, PERFORM FINAL TEST AND BALANCE.

#### **GENERAL NOTES**

- EXISTING CONDITIONS SHOWN ARE BASED ON AVAILABLE AS-BUILT DRAWINGS AND LIMITED NON-DESTRUCTIVE SITE SURVEYS. VERIFY ALL EXISTING CONDITIONS PRIOR TO CONSTRUCTION ACTIVITIES AND NOTIFY THE OWNER OF ANY CONDITIONS THAT DIFFER.
- UTILITY SERVICES TO THE BUILDING SHALL NOT BE INTERRUPTED UNLESS APPROVED BY THE OWNER. PROVIDE MINIMUM 2 WEEK NOTIFICATION IN ADVANCE OF UTILITY OUTAGES.

#### **KEY NOTES**

- (1) MEASURE, RECORD AND SUBMIT AIR VOLUME AND STATIC PRESSURE AT LOCATION INDICATED TO OWNER. PROVIDE MANUAL VOLUME DAMPERS AS REQUIRED TO REBALANCE AIRFLOW. REFER TO PHASING PLANS FOR DETAILS.
- (2) MEASURE, RECORD AND SUBMIT DIFFUSER/GRILLE CFM VALUES TO OWNER.
- (3) AREA SERVED BY (E)AHU-1.
- (4) MEASURE, RECORD AND SUBMIT DIFFUSER/GRILLE CFM VALUES ASSOSIATED WITH (AHU-1).

UP TO EF-1

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OSHPD COMMENTS OSHPD COMMENTS

-(R8)

Engineers, Inc.

OSHPD #: S200813-37-00-ACD0001

MECHANICAL PHASING

PLAN - PHASE 1

2

NORTH

**KEY PLAN** 

MECHANICAL PHASING PLAN - PHASE 1

PHASE 2 MECHANICAL: INSTALLATION PREPARATION

- 1. COORDINATION: COORDINATE THE INSTALLATION PREPARATION PROCESS WITH PHASING PLANS AND OTHER TRADES.
- 2. PROVIDE THE FOLLOWING ITEMS PRIOR TO DEMOLITION:
  - A. TEMPORARY DUCTS UP TO POINTS OF CONNECTIONS AS SHOWN.
  - B. PROVIDE MECHANICAL PIPING SEGMENTS REQUIRED TO MAINTAIN AREAS OUTSIDE PROJECT BOUNDARIES OPERATIONAL
- 3. SHUTDOWN PERIOD: OBTAIN APPROVAL FROM THE HOSPITAL PRIOR TO COMMENCEMENT OF THIS PHASE.

#### GENERAL PHASING NOTES

THE FOLLOWING IS INTENDED AS A CONCEPTUAL PHASING PLAN AND IDENTIFIES THE CRITICAL STEPS REQUIRED TO BE COMPLETED. THE PHASES ARE NOT INTENDED TO BE AN ALL INCLUSIVE LIST. THE INTENT IS TO FOLLOW THE OVERALL PHASING PLAN OF THE PROJECT WITH AREAS SERVED BY AH-1 ARE TO REMAIN IN OPERATION. A COMPLETE DETAILED PHASING PLAN SHALL BE COMPLETED WITHIN 30 DAYS OF NOTICE TO PROCEED. THE PHASING PLAN SHALL IDENTIFY ALL ACTIVITIES REQUIRED TO PERFORM THE WORK AND SHALL INCLUDE AT A MINIMUM; SCHEDULE, UTILITY SERVE INTERRUPTIONS, TEMPORARY SERVICE REQUIREMENTS, PRODUCT PROCUREMENT, INSTALLATION AND SKETCHED TO INDICATE EACH STEP. THE PHASING PLAN WILL REQUIRE APPROVAL BY THE OWNER AND MEOR PRIOR TO THE COMMENCEMENT OF ANY CONSTRUCTION ACTIVITIES: THE FOLLOWING ARE OVERALL CRITICAL STEPS OF THE MECHANICAL AND PLUMBING SYSTEMS INSTALLATION.

- PERFORM PRE-TEST READINGS AS INDICATED ON M1-03.
   INSTALL MECHANICAL PIPING AND TEMPORARY DUCTWORK REQUIRED TO
- KEEP AREAS OUTSIDE SCOPE OF WORK OPERATIONAL.

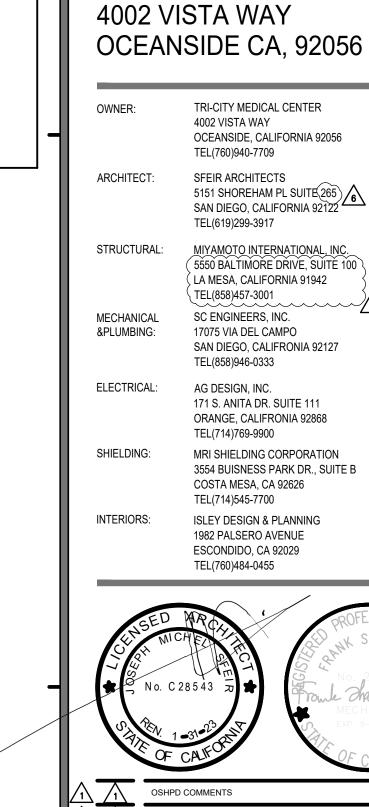
  3. DEMOLISH MECHANICAL AND PLUMBING SYSTEMS AS INDICATED IN MECHANICAL DEMOLITION PLANS. CONNECT MECHANICAL PIPING AND TEMPORARY DUCTWORK. BALANCE TO PRE-TEST READINGS.
- 4. INSTALL MECHANICAL COMPONENTS REQUIRED TO KEEP AREAS OUTSIDE SCOPE OF WORK OPERATIONAL.
- 5. REMOVE TEMPORARY SYSTEMS.
- 6. INSTALL REMAINING MECHANICAL PLUMBING SYSTEMS PER CONTRACT DRAWINGS. PERFORM FINAL TEST AND BALANCE.

#### **GENERAL NOTES**

- 1. EXISTING CONDITIONS SHOWN ARE BASED ON AVAILABLE AS-BUILT DRAWINGS AND LIMITED NON-DESTRUCTIVE SITE SURVEYS. VERIFY ALL EXISTING CONDITIONS PRIOR TO CONSTRUCTION ACTIVITIES AND NOTIFY THE OWNER OF ANY CONDITIONS THAT DIFFER.
- 2. UTILITY SERVICES TO THE BUILDING SHALL NOT BE INTERRUPTED UNLESS APPROVED BY THE OWNER. PROVIDE MINIMUM 2 WEEK NOTIFICATION IN ADVANCE OF UTILITY OUTAGES.

#### **KEY NOTES**

- (1) PROVIDE TEMPORARY DUCTS IN PREPARATION FOR PHASE 3B
- (2) PROVIDE MECHANICAL HHW PIPING PER M3-03.



DESIGN CHANGES

OSHPD COMMENTS

DESIGN CHANGES

ACD 0001 DESIGN CHANGES

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TCMC MRI

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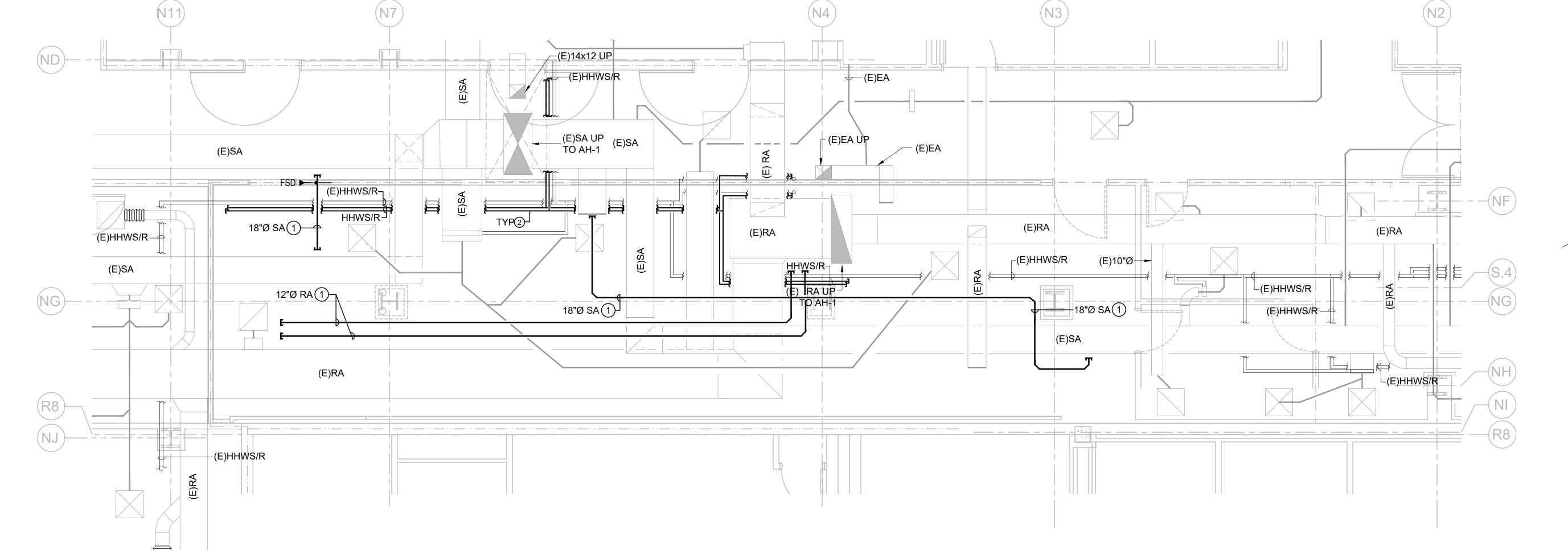
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REV: DESCRIPTION: DAT

CONSULTANT

Shadpour Consulting
Engineers, Inc.

OSHPD APPROVAL STAMP:
OSHPD #: S200813-37-00-ACD0001

**KEY PLAN** 

MECHANICAL PHASING PLAN - PHASE 2

PROJECT TITLE:

TCMC MRI

PROJECT #: SHEET NUMBER:
01907.01
DRAWN BY:
SC
CHECKED BY:
JC
SCALE:

MECHANICAL PHASING PLAN - PHASE 2

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

O' 4' 8' 16'

100% - CONSTRUCTION DOCUMENTS

NORTH

#### PHASE 3A MECHANICAL: DEMOLITION

- COORDINATION: COORDINATE THE INSTALLATION PREPARATION PROCESS WITH PHASING PLANS AND OTHER TRADES.
- DUCTWORK: DEMOLISH DUCTWORK AS SHOWN.
- MECHANICAL PIPING: DEMOLISH PIPING AS INDICATED ON M2-01.
- SHUTDOWN PERIOD: OBTAIN APPROVAL FROM THE HOSPITAL PRIOR TO COMMENCEMENT OF THIS PHASE.

#### GENERAL PHASING NOTES

THE FOLLOWING IS INTENDED AS A CONCEPTUAL PHASING PLAN AND IDENTIFIES THE CRITICAL STEPS REQUIRED TO BE COMPLETED. THE PHASES ARE NOT INTENDED TO BE AN ALL INCLUSIVE LIST. THE INTENT IS TO FOLLOW THE OVERALL PHASING PLAN OF THE PROJECT WITH AREAS SERVED BY AH-1 ARE TO REMAIN IN OPERATION. A COMPLETE DETAILED PHASING PLAN SHALL BE COMPLETED WITHIN 30 DAYS OF NOTICE TO PROCEED. THE PHASING PLAN SHALL IDENTIFY ALL ACTIVITIES REQUIRED TO PERFORM THE WORK AND SHALL INCLUDE AT A MINIMUM; SCHEDULE, UTILITY SERVE INTERRUPTIONS, TEMPORARY SERVICE REQUIREMENTS, PRODUCT PROCUREMENT, INSTALLATION AND SKETCHED TO INDICATE EACH STEP. THE PHASING PLAN WILL REQUIRE APPROVAL BY THE OWNER AND MEOR PRIOR TO THE COMMENCEMENT OF ANY CONSTRUCTION ACTIVITIES: THE FOLLOWING ARE OVERALL CRITICAL STEPS OF THE MECHANICAL AND PLUMBING SYSTEMS INSTALLATION.

- PERFORM PRE-TEST READINGS AS INDICATED ON M1-03. 2. INSTALL MECHANICAL PIPING AND TEMPORARY DUCTWORK REQUIRED TO
- KEEP AREAS OUTSIDE SCOPE OF WORK OPERATIONAL DEMOLISH MECHANICAL AND PLUMBING SYSTEMS AS INDICATED IN MECHANICAL DEMOLITION PLANS. CONNECT MECHANICAL PIPING AND TEMPORARY DUCTWORK. BALANCE TO PRE-TEST READINGS.
- 4. INSTALL MECHANICAL COMPONENTS REQUIRED TO KEEP AREAS OUTSIDE SCOPE OF WORK OPERATIONAL.
- 5. REMOVE TEMPORARY SYSTEMS.
- 6. INSTALL REMAINING MECHANICAL PLUMBING SYSTEMS PER CONTRACT DRAWINGS. PERFORM FINAL TEST AND BALANCE.

#### **GENERAL NOTES**

- EXISTING CONDITIONS SHOWN ARE BASED ON AVAILABLE AS-BUILT DRAWINGS AND LIMITED NON-DESTRUCTIVE SITE SURVEYS. VERIFY ALL EXISTING CONDITIONS PRIOR TO CONSTRUCTION ACTIVITIES AND NOTIFY THE OWNER OF ANY CONDITIONS THAT DIFFER.
- UTILITY SERVICES TO THE BUILDING SHALL NOT BE INTERRUPTED UNLESS APPROVED BY THE OWNER. PROVIDE MINIMUM 2 WEEK NOTIFICATION IN ADVANCE OF UTILITY OUTAGES.

#### **KEY NOTES**

- (1) CAP AND SEAL DUCT AIR TIGHT WITH MINIMUM 16-GAUGE GALVANIZED SHEET METAL.
- (2) TEMPORARY DUCT WORK.
- (3) DEMOLISH DUCTWORK AND ALL RELATED APPURTENANCES UP TO POD.
- (4) DEMOLISH HHW PIPING AND ALL RELATED APPURTENANCES UP TO POD.

# <u>_</u>(Ε)ΕΑ −(E)EA _(E)EA UP (E) SA TYP 1 TO AH-1 TÓ EF-4 EΑ (1)18"Ø SA— (E) RA (E)HHWS/R—

NORTH

**KEY PLAN** 

MECHANICAL PHASING PLAN - PHASE 3A

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No. C 28543

DESIGN CHANGES OSHPD COMMENTS

DESIGN CHANGES

OSHPD #: S200813-37-00-ACD0001

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MECHANICAL PHASING PLAN - PHASE 3A

# MECHANICAL PHASE 3B PHASE 3B MECHANICAL: TEMPORARY DUCT CONNECTIONS COORDINATION: COORDINATE THE INSTALLATION PREPARATION PROCESS WITH PHASING PLANS AND OTHER TRADES. DUCTWORK: CONNECT TEMPORARY DUCTWORK AT POINT OF CONNECTION AS SHOWN. MECHANICAL PIPING: CONNECT MECHANICAL PIPING PER M3-03. TAB: BALANCE TRAVERSE/GRILLES TO PRE-DEMOLITION VALUES MEASURED IN PHASE 1. SHUTDOWN PERIOD: OBTAIN APPROVAL FROM THE HOSPITAL PRIOR TO COMMENCEMENT OF THIS PHASE.

#### GENERAL PHASING NOTES

THE FOLLOWING IS INTENDED AS A CONCEPTUAL PHASING PLAN AND IDENTIFIES THE CRITICAL STEPS REQUIRED TO BE COMPLETED. THE PHASES ARE NOT INTENDED TO BE AN ALL INCLUSIVE LIST. THE INTENT IS TO FOLLOW THE OVERALL PHASING PLAN OF THE PROJECT WITH AREAS SERVED BY AH-1 ARE TO REMAIN IN OPERATION. A COMPLETE DETAILED PHASING PLAN SHALL BE COMPLETED WITHIN 30 DAYS OF NOTICE TO PROCEED. THE PHASING PLAN SHALL IDENTIFY ALL ACTIVITIES REQUIRED TO PERFORM THE WORK AND SHALL INCLUDE AT A MINIMUM; SCHEDULE, UTILITY SERVE INTERRUPTIONS, TEMPORARY SERVICE REQUIREMENTS, PRODUCT PROCUREMENT, INSTALLATION AND SKETCHED TO INDICATE EACH STEP. THE PHASING PLAN WILL REQUIRE APPROVAL BY THE OWNER AND MEOR PRIOR TO THE COMMENCEMENT OF ANY CONSTRUCTION ACTIVITIES: THE FOLLOWING ARE OVERALL CRITICAL STEPS OF THE MECHANICAL AND PLUMBING SYSTEMS INSTALLATION.

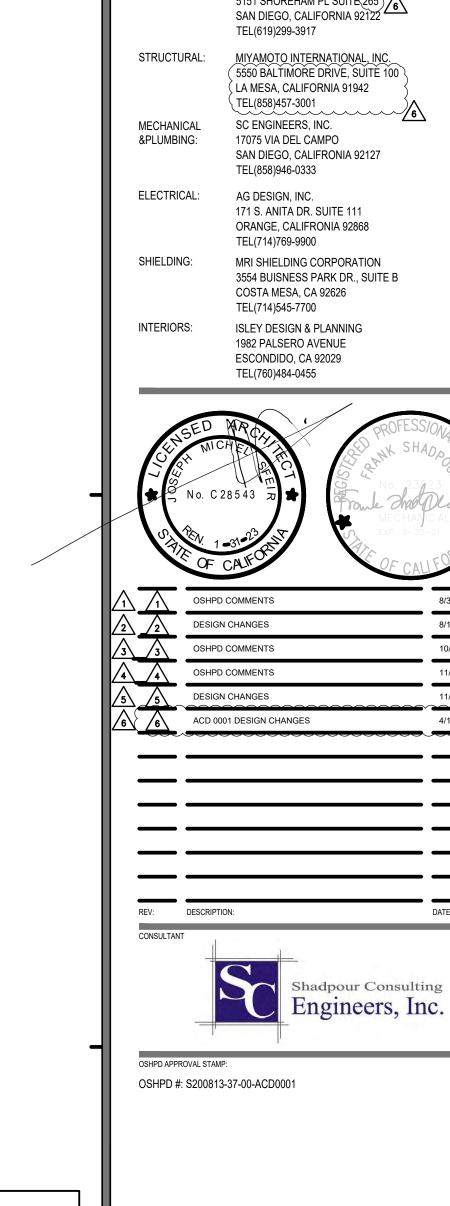
- PERFORM PRE-TEST READINGS AS INDICATED ON M1-03. 2. INSTALL MECHANICAL PIPING AND TEMPORARY DUCTWORK REQUIRED TO
- KEEP AREAS OUTSIDE SCOPE OF WORK OPERATIONAL DEMOLISH MECHANICAL AND PLUMBING SYSTEMS AS INDICATED IN MECHANICAL DEMOLITION PLANS. CONNECT MECHANICAL PIPING AND TEMPORARY DUCTWORK. BALANCE TO PRE-TEST READINGS.
- 4. INSTALL MECHANICAL COMPONENTS REQUIRED TO KEEP AREAS OUTSIDE SCOPE OF WORK OPERATIONAL.
- 5. REMOVE TEMPORARY SYSTEMS.
- 6. INSTALL REMAINING MECHANICAL PLUMBING SYSTEMS PER CONTRACT DRAWINGS. PERFORM FINAL TEST AND BALANCE.

#### **GENERAL NOTES**

- EXISTING CONDITIONS SHOWN ARE BASED ON AVAILABLE AS-BUILT DRAWINGS AND LIMITED NON-DESTRUCTIVE SITE SURVEYS. VERIFY ALL EXISTING CONDITIONS PRIOR TO CONSTRUCTION ACTIVITIES AND NOTIFY THE OWNER OF ANY CONDITIONS THAT DIFFER.
- UTILITY SERVICES TO THE BUILDING SHALL NOT BE INTERRUPTED UNLESS APPROVED BY THE OWNER. PROVIDE MINIMUM 2 WEEK NOTIFICATION IN ADVANCE OF UTILITY OUTAGES.

#### **KEY NOTES**

- (1) PROVIDE TEMPORARY DUCTWORK.
- (2) CONNECT TO EXISTING DUCTWORK.
- (3) CONNECT TO EXISTING HHW PIPING.



#### 〜(E)14x12 UP - (E)EA UP (E)SA __ (E)EA TÓ EF-4 2 (E)SA UP TO (E)RA UP (E)AH-1 TO AH-1 HHWS/R-—(1)18"Ø SA (E)RA (E) RA (E)HHWS/R— 56x14 RA ⊢(E)HHWS/R (E)SA 18"Ø SA (1)₇ 12"Ø RA (1) (E)HHWS/R -(E)SA (E)RA -(E)HHWS/R

MECHANICAL PHASING PLAN - PHASE 3B

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

0' 4' 8'

100% - CONSTRUCTION DOCUMENTS

NORTH

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MECHANICAL PHASING

PLAN - PHASE 3B

**KEY PLAN** 

#### PHASE 4 MECHANICAL: INSTALLATION

- COORDINATION: COORDINATE THE INSTALLATION PREPARATION PROCESS WITH PHASING PLANS AND OTHER TRADES.
- DUCTWORK: INSTALL DUCTWORK AS REQUIRED TO MAINTAIN AREAS OUTSIDE PROJECT BOUNDARIES OPERATIONAL.
- DEMOLITION: DEMOLISH TEMPORARY DUCTWORK.
- TAB: BALANCE TRAVERSE/GRILLES TO PRE-DEMOLITION VALUES MEASURED IN PHASE 1.
- SHUTDOWN PERIOD: OBTAIN APPROVAL FROM THE HOSPITAL PRIOR TO COMMENCEMENT OF THIS PHASE.

#### GENERAL PHASING NOTES

THE FOLLOWING IS INTENDED AS A CONCEPTUAL PHASING PLAN AND IDENTIFIES THE CRITICAL STEPS REQUIRED TO BE COMPLETED. THE PHASES ARE NOT INTENDED TO BE AN ALL INCLUSIVE LIST. THE INTENT IS TO FOLLOW THE OVERALL PHASING PLAN OF THE PROJECT WITH AREAS SERVED BY AH-1 ARE TO REMAIN IN OPERATION. A COMPLETE DETAILED PHASING PLAN SHALL BE COMPLETED WITHIN 30 DAYS OF NOTICE TO PROCEED. THE PHASING PLAN SHALL IDENTIFY ALL ACTIVITIES REQUIRED TO PERFORM THE WORK AND SHALL INCLUDE AT A MINIMUM; SCHEDULE, UTILITY SERVE INTERRUPTIONS, TEMPORARY SERVICE REQUIREMENTS, PRODUCT PROCUREMENT, INSTALLATION AND SKETCHED TO INDICATE EACH STEP. THE PHASING PLAN WILL REQUIRE APPROVAL BY THE OWNER AND MEOR PRIOR TO THE COMMENCEMENT OF ANY CONSTRUCTION ACTIVITIES: THE FOLLOWING ARE OVERALL CRITICAL STEPS OF THE MECHANICAL AND PLUMBING SYSTEMS INSTALLATION.

- PERFORM PRE-TEST READINGS AS INDICATED ON M1-03. 2. INSTALL MECHANICAL PIPING AND TEMPORARY DUCTWORK REQUIRED TO
- KEEP AREAS OUTSIDE SCOPE OF WORK OPERATIONAL DEMOLISH MECHANICAL AND PLUMBING SYSTEMS AS INDICATED IN MECHANICAL DEMOLITION PLANS. CONNECT MECHANICAL PIPING AND TEMPORARY DUCTWORK. BALANCE TO PRE-TEST READINGS.
- 4. INSTALL MECHANICAL COMPONENTS REQUIRED TO KEEP AREAS OUTSIDE SCOPE OF WORK OPERATIONAL.
- REMOVE TEMPORARY SYSTEMS.
- 6. INSTALL REMAINING MECHANICAL PLUMBING SYSTEMS PER CONTRACT DRAWINGS. PERFORM FINAL TEST AND BALANCE.

#### **GENERAL NOTES**

- EXISTING CONDITIONS SHOWN ARE BASED ON AVAILABLE AS-BUILT DRAWINGS AND LIMITED NON-DESTRUCTIVE SITE SURVEYS. VERIFY ALL EXISTING CONDITIONS PRIOR TO CONSTRUCTION ACTIVITIES AND NOTIFY THE OWNER OF ANY CONDITIONS THAT DIFFER.
- UTILITY SERVICES TO THE BUILDING SHALL NOT BE INTERRUPTED UNLESS APPROVED BY THE OWNER. PROVIDE MINIMUM 2 WEEK NOTIFICATION IN ADVANCE OF UTILITY OUTAGES.

#### **KEY NOTES**

- (1) DISCONNECT TEMPORARY DUCTWORK FROM EXISTING DUCTWORK. CAP AND SEAL DUCTWORK IMMEDIATELY UPON REMOVAL OF TEMPORARY DUCTWORK.
- (2) DEMOLISH TEMPORARY DUCTS AND ALL RELATED APPURTENANCES UP TO POD.
- (3) DEMOLISH EXISTING DUCTWORK AND ALL RELATED APPURTENANCES UP TO POD.
- (4) CONNECT TO EXISTING DUCTWORK.

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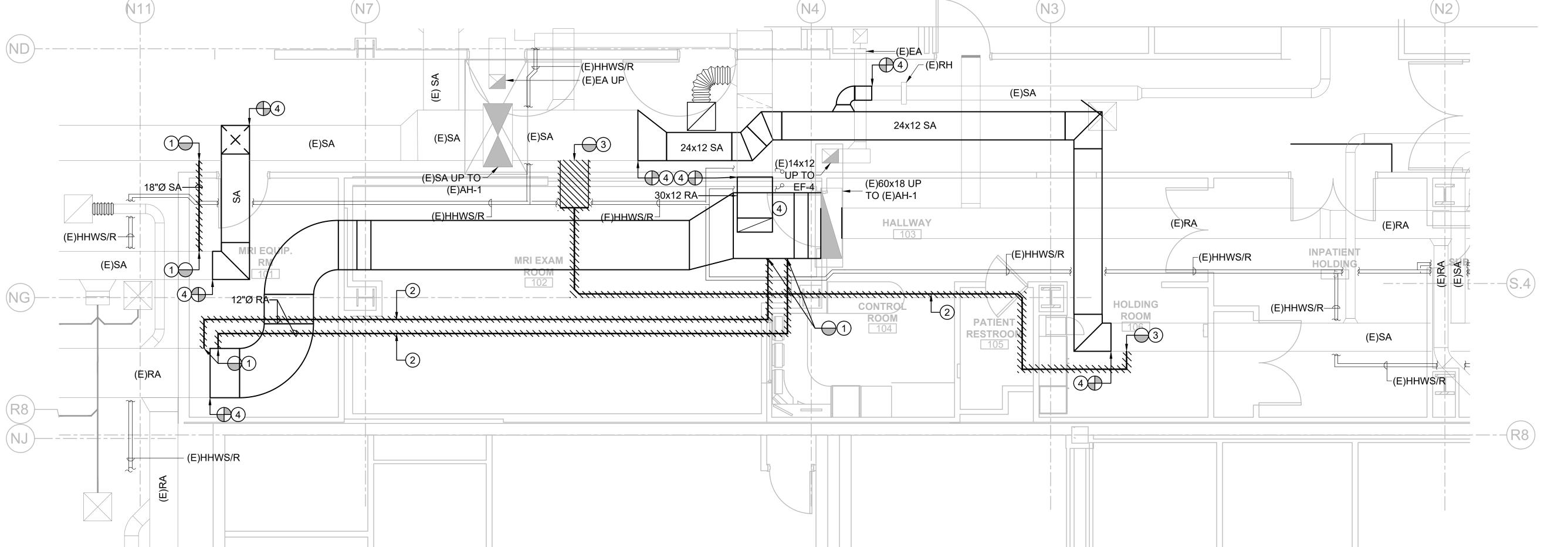
DESIGN CHANGES OSHPD COMMENTS DESIGN CHANGES

Engineers, Inc.

OSHPD #: S200813-37-00-ACD0001

MECHANICAL PHASING PLAN - PHASE 4

**KEY PLAN** NORTH



1 MECHANICAL PHASING PLAN - PHASE 4
SCALE: 1/8" = 1'-0"

0' 4' 8'

(E)HHWS/R-

MRI EQUIP

#### PHASE 5 MECHANICAL: INSTALLATION

(ND)

(E)SA

(Ė)RA

- 1. COORDINATION: COORDINATE THE INSTALLATION PREPARATION PROCESS WITH PHASING PLANS AND OTHER TRADES.
- 2. DUCTWORK: INSTALL REMAINING MECHANICAL COMPONENTS AS INDICATED ON NEW WORK PLANS M3-01 AND M3-02.
- 3. TAB: BALANCE TRAVERSE/GRILLES TO PRE-DEMOLITION VALUES MEASURED IN PHASE 1
- 4. SHUTDOWN PERIOD: OBTAIN APPROVAL FROM THE HOSPITAL PRIOR TO COMMENCEMENT OF THIS PHASE.

#### GENERAL PHASING NOTES

THE FOLLOWING IS INTENDED AS A CONCEPTUAL PHASING PLAN AND IDENTIFIES THE CRITICAL STEPS REQUIRED TO BE COMPLETED. THE PHASES ARE NOT INTENDED TO BE AN ALL INCLUSIVE LIST. THE INTENT IS TO FOLLOW THE OVERALL PHASING PLAN OF THE PROJECT WITH AREAS SERVED BY AH-1 ARE TO REMAIN IN OPERATION. A COMPLETE DETAILED PHASING PLAN SHALL BE COMPLETED WITHIN 30 DAYS OF NOTICE TO PROCEED. THE PHASING PLAN SHALL IDENTIFY ALL ACTIVITIES REQUIRED TO PERFORM THE WORK AND SHALL INCLUDE AT A MINIMUM; SCHEDULE, UTILITY SERVE INTERRUPTIONS, TEMPORARY SERVICE REQUIREMENTS, PRODUCT PROCUREMENT, INSTALLATION AND SKETCHED TO INDICATE EACH STEP. THE PHASING PLAN WILL REQUIRE APPROVAL BY THE OWNER AND MEOR PRIOR TO THE COMMENCEMENT OF ANY CONSTRUCTION ACTIVITIES: THE FOLLOWING ARE OVERALL CRITICAL STEPS OF THE MECHANICAL AND PLUMBING SYSTEMS INSTALLATION.

- PERFORM PRE-TEST READINGS AS INDICATED ON M1-03.
   INSTALL MECHANICAL PIPING AND TEMPORARY DUCTWORK REQUIRED TO
- KEEP AREAS OUTSIDE SCOPE OF WORK OPERATIONAL.

  3. DEMOLISH MECHANICAL AND PLUMBING SYSTEMS AS INDICATED IN MECHANICAL DEMOLITION PLANS. CONNECT MECHANICAL PIPING AND TEMPORARY DUCTWORK. BALANCE TO PRE-TEST READINGS.
- 4. INSTALL MECHANICAL COMPONENTS REQUIRED TO KEEP AREAS OUTSIDE SCOPE OF WORK OPERATIONAL.

(N3

(E)SA

2 M4-02

1

5. REMOVE TEMPORARY SYSTEMS.

(E)UP TO

به EF-**4** 

(⋢)HHWS/R-

12"Ø

2 M4-01

(E)SA

(E)HHWS/R¬

1

(E)HHWS/R

(E)EA

(E)SA

UP TO AH-1

ROOM

(E)SA

6. INSTALL REMAINING MECHANICAL PLUMBING SYSTEMS PER CONTRACT DRAWINGS. PERFORM FINAL TEST AND BALANCE.

(E)SA

UP TO (E)AH-1

ROOM
104

HALLWAY (E)RA

#### **GENERAL NOTES**

- 1. EXISTING CONDITIONS SHOWN ARE BASED ON AVAILABLE AS-BUILT DRAWINGS AND LIMITED NON-DESTRUCTIVE SITE SURVEYS. VERIFY ALL EXISTING CONDITIONS PRIOR TO CONSTRUCTION ACTIVITIES AND NOTIFY THE OWNER OF ANY CONDITIONS THAT DIFFER.
- 2. UTILITY SERVICES TO THE BUILDING SHALL NOT BE INTERRUPTED UNLESS APPROVED BY THE OWNER. PROVIDE MINIMUM 2 WEEK NOTIFICATION IN ADVANCE OF UTILITY OUTAGES.

#### **KEY NOTES**

(E)\$A

-(R8)

(E) RA

- (1) CONNECT TO EXISTING DUCTWORK AT POC.
- (2) CONNECT TO EXISTING HHWS/R PIPING AT POC.
- (3) PROVIDE HHWS/R PIPING SHUT-OFF VALVE.

(E)RA

EA

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DESIGN CHANGES

OSHPD COMMENTS
OSHPD COMMENTS
OSHPD COMMENTS
DESIGN CHANGES

ACD 0001 DESIGN CHANGES

Shadpour Consulting Engineers, Inc.

OSHPD #: S200813-37-00-ACD0001

MECHANICAL PHASING PLAN - PHASE 5

PROJECT TITLE:

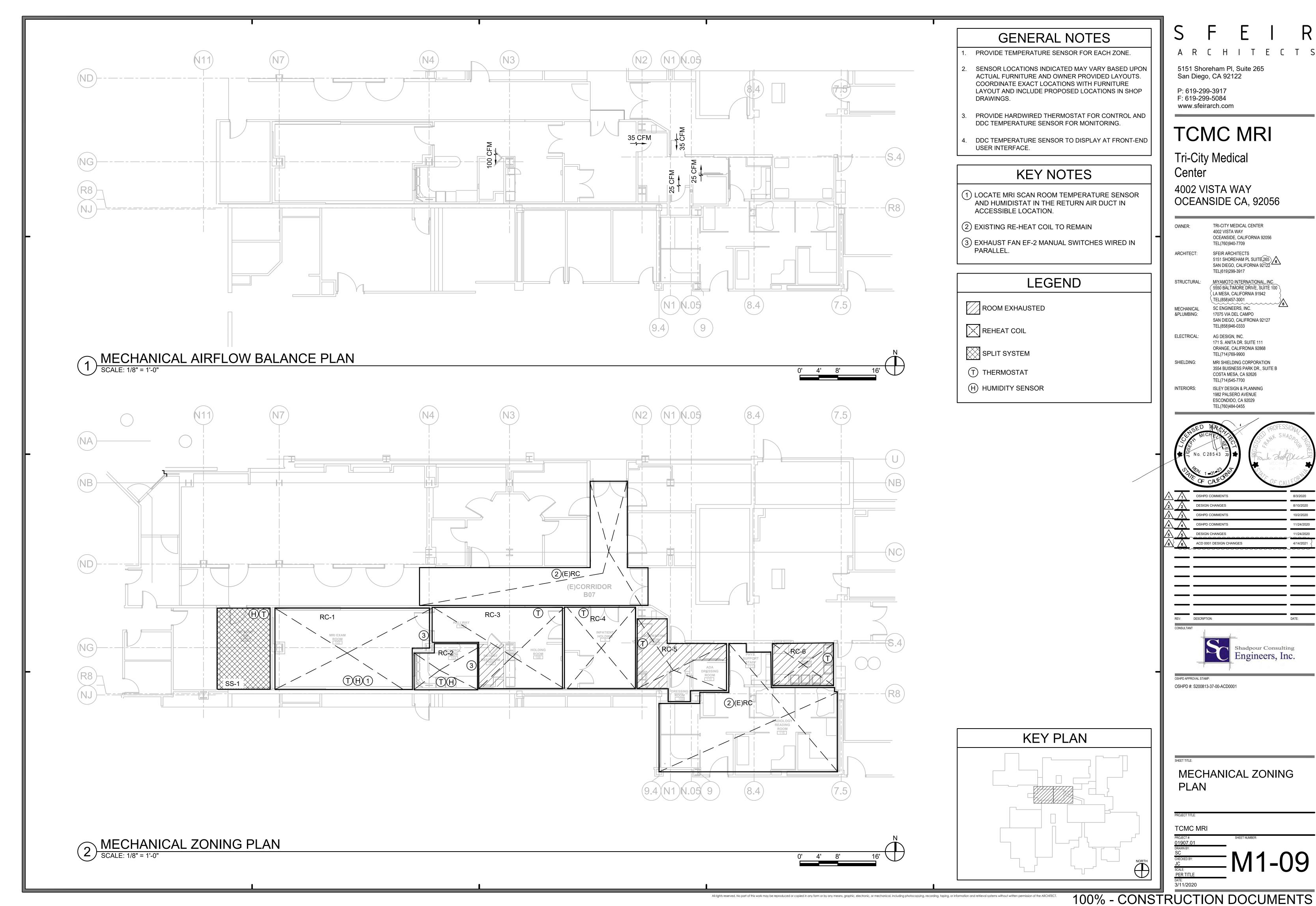
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= M1-0

MECHANICAL PHASING PLAN - PHASE 5

Outstands 18" = 1'0"

KEY PLAN



## **GENERAL NOTES**

- EXISTING CONDITIONS ARE BASED UPON INFORMATION OBTAINED FROM AVAILABLE AS-BUILT DRAWINGS AND LIMITED NON-DESTRUCTIVE FIELD INVESTIGATIONS. PERFORM A FULL SITE SURVEY WITHIN 30 DAYS OF COMMENCEMENT OF WORK. SURVEY SHALL BE ALL INCLUSIVE OF ALL AREAS WITHIN THE SCOPE OF WORK AND BEYOND AS REQUIRED FOR A COMPLETE AND OPERATIONAL SYSTEM. NOTIFY OWNER IF CONDITIONS THAT DIFFER FROM DESIGN ARE IDENTIFIED THAT WILL IMPACT THE PROJECT.
- OTHERWISE NOTED.
- REMOVE EXISTING ZONE TEMPERATURE SENSORS AS REQUIRED. REFER TO ZONING PLANS FOR REQUIREMENTS.

#### **KEY NOTES**

COMPLETION OF DEMOLITION WORK.

- CAP AND SEAL ALL OPEN DUCTWORK AND PIPING IMMEDIATELY DURING DEMOLITION WORK UNLESS

- (1) DEMOLISH DUCTWORK IN ITS ENTIRETY AND ALL RELATED APPURTENANCES UP TO POD. CAP AND SEAL DUCT AIR TIGHT WITH MINIMUM 16 GAUGE GALVANIZED SHEET METAL IMMEDIATELY UPON
- 2 DEMOLISH HHWS/R PIPING IN ITS ENTIRETY AND ALL RELATED APPURTENANCES UP TO POD.

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STRUCTURAL:

MECHANICAL

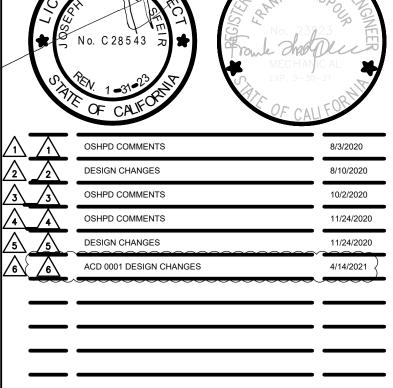
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OSHPD #: S200813-37-00-ACD0001

MECHANICAL DEMOLITON PLAN - AREA A

**KEY PLAN** AREA OF WORK -

13

26x14 SA

26x12 SA

⊢2" HHWS/R

-1-1/4" HHWS/R

-14x12 UP TO (F)EF-3

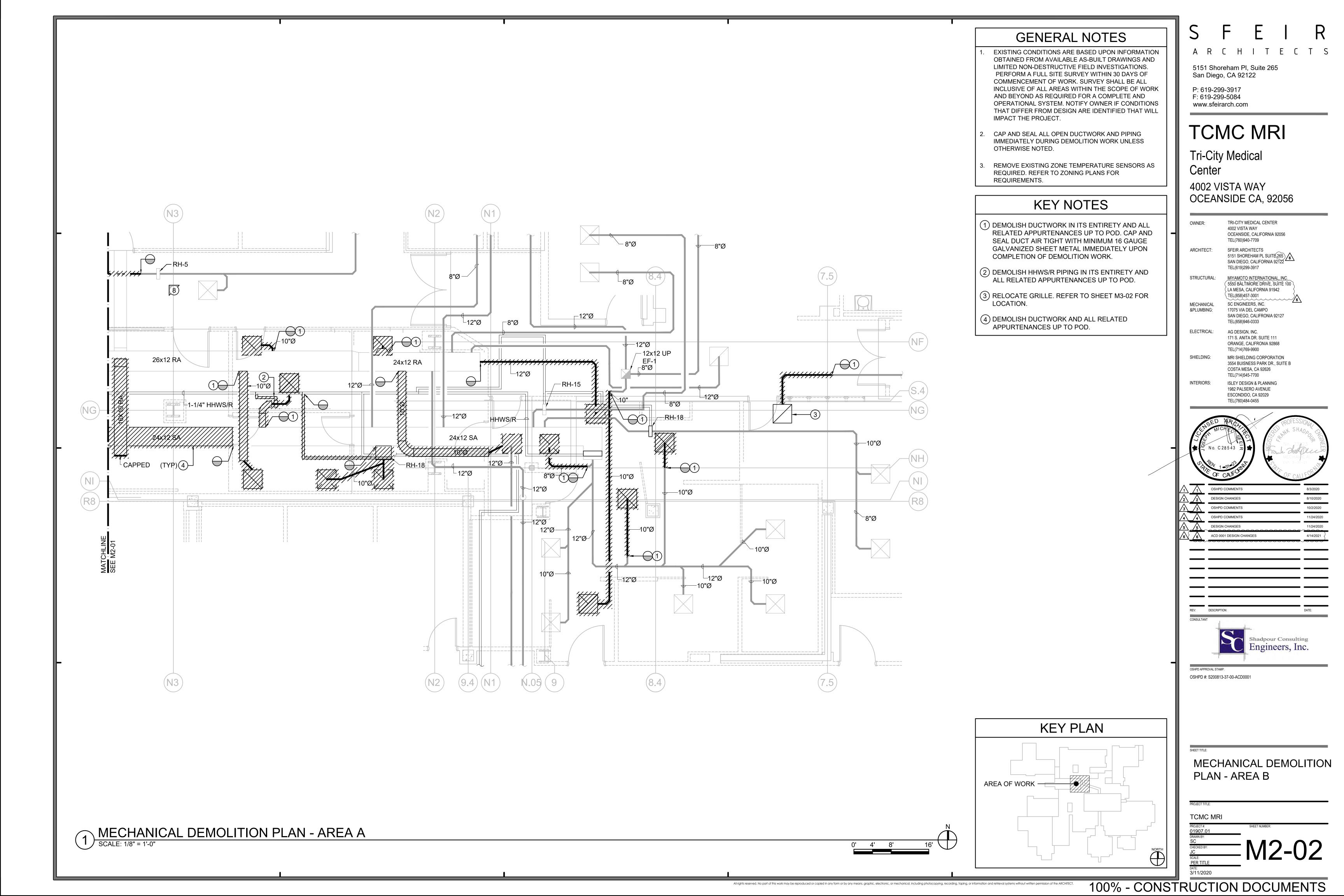
-54x24 UP TO (E)AH-1

14x12 UP

TO EF-4

(E)60x18 UP TO AH-1

-(NG)



# **GENERAL NOTES**

- 1. EXISTING CONDITIONS SHOWN ARE BASED ON AVAILABLE AS-BUILT DRAWINGS AND LIMITED NON-DESTRUCTIVE SITE SURVEYS. VERIFY ALL EXISTING CONDITIONS PRIOR TO CONSTRUCTION ACTIVITIES AND NOTIFY THE OWNER OF ANY CONDITIONS THAT DIFFER.
- 2. UTILITY SERVICES TO THE BUILDING SHALL NOT BE INTERRUPTED UNLESS APPROVED BY THE OWNER. PROVIDE MINIMUM 2 WEEK NOTIFICATION IN ADVANCE OF UTILITY OUTAGES.
- 3. ALL MATERIALS INSTALLED IN MRI SCAN ROOM SHALL BE NON-MAGNETIC AND NON FERROUS.

## **KEY NOTES**

- (1) HUMIDIFIER DISPERSION GRID. PROVIDE HUMIDIFIER MFG RECOMMENDED STRAIGHT DUCT LENGTH DOWNSTREAM OF DISPERSION GRID.
- (3) H-2 LOCATED ABOVE H-1. SEE 3/M401 FOR DETAIL. PROVIDE MINIMUM 36" FRONT CLEARANCE FOR HUMIDIFIERS.
- (5) 8"Ø QUENCH VENT DN TO MRI EQUIPMENT.
- (6) 12"Ø QUENCH VENT UP.

(E) HC-1009

**--- -- (E)**FD

24x12 SA

8"Ø

(E)26x12 RA

12x12 EA

A 350

-NG

-(R8)

—**— — (E)**FD

56x14 RA

(E)60x18 UP

12"Ø ()

TO (E)AH-1

24x12 SA

14x10 **E**A

—24x6 RA

D 1200

UP TO

FSD FSD FSD

EF-3

-----(E)FD -------(E)FD

2 M4-02

(E)48x16 SA

-(E)14x12\UP

D 800 13 C 400

(E)48x14 SA

(E)54x24 UP (12)

TO (E)AH-1

42x8 RA

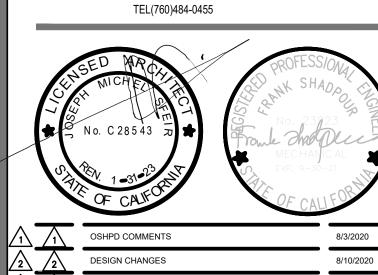
- (7) BALANCE TO 190 CFM.
- GALVANIZED STEEL DUCTWORK TO BE LOCATED ABOVE

  THE CHIEF BING BEGOVERS AND THE CHIEF BEGOVERS AND THE CH THE SHIELDING. PROVIDE WAVEGUIDE AND NON-FERROUS DUCTWORK TO DIFFUSERS AND GRILLES.
- AND INSULATION PER MFG REQUIREMENTS. PROVIDE 2 HOUR FIRE WRAP.
- (10) BALANCE TO PRE-DEMOLITION READING.
- (11) PROVIDE STAINLESS STEEL DUCTWORK ABOVE SHIELDING FOR DUCT PLENUM DOWNSTREAM OF HUMIDIFIER. PROVIDE WAVEGUIDE AND NON-FERROUS DUCTWORK TO DIFFUSERS.
- 12) PROVIDE MOTORIZED DAMPER. INTERLOCK WITH EMERGENCY EXHAUST FAN (EF-2).
- (14) BALANCE TO 150 CFM.

- (2) PROVIDE MINIMUM 24" SERVICE CLEARANCE FROM REHEAT COIL. PROVIDE ACCESS PANEL. IN CEILING/SHIELD.
- (4) 32x18 PRESSURE EQUALIZING VENT.

- (9) QUENCH VENT. PROVIDE MATERIAL, WALL THICKNESS,

- (13) 20"Ø NECK SIZE.
- (15) 12"x6" DOWN THROUGH MRI SHIELDING.



ARCHITECTS

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17075 VIA DEL CAMPO

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MIYAMOTO INTERNATIONAL, INC.

SAN DIEGO, CALIFRONIA 92127

171 S. ANITA DR. SUITE 111

ORANGE, CALIFRONIA 92868

MRI SHIELDING CORPORATION

COSTA MESA, CA 92626

ISLEY DESIGN & PLANNING

1982 PALSERO AVENUE

ESCONDIDO, CA 92029

3554 BUISNESS PARK DR., SUITE B

5550 BÁLŤIMOŘE DŘIVĚ, SÚITĚ 100 LA MESA, CALIFORNIA 91942

Center

STRUCTURAL:

MECHANICAL

OSHPD COMMENTS

DESIGN CHANGES



OSHPD #: S200813-37-00-ACD0001

MECHANICAL PLAN

AREA A

**KEY PLAN** NORTH

MECHANICAL PLAN - AREA A

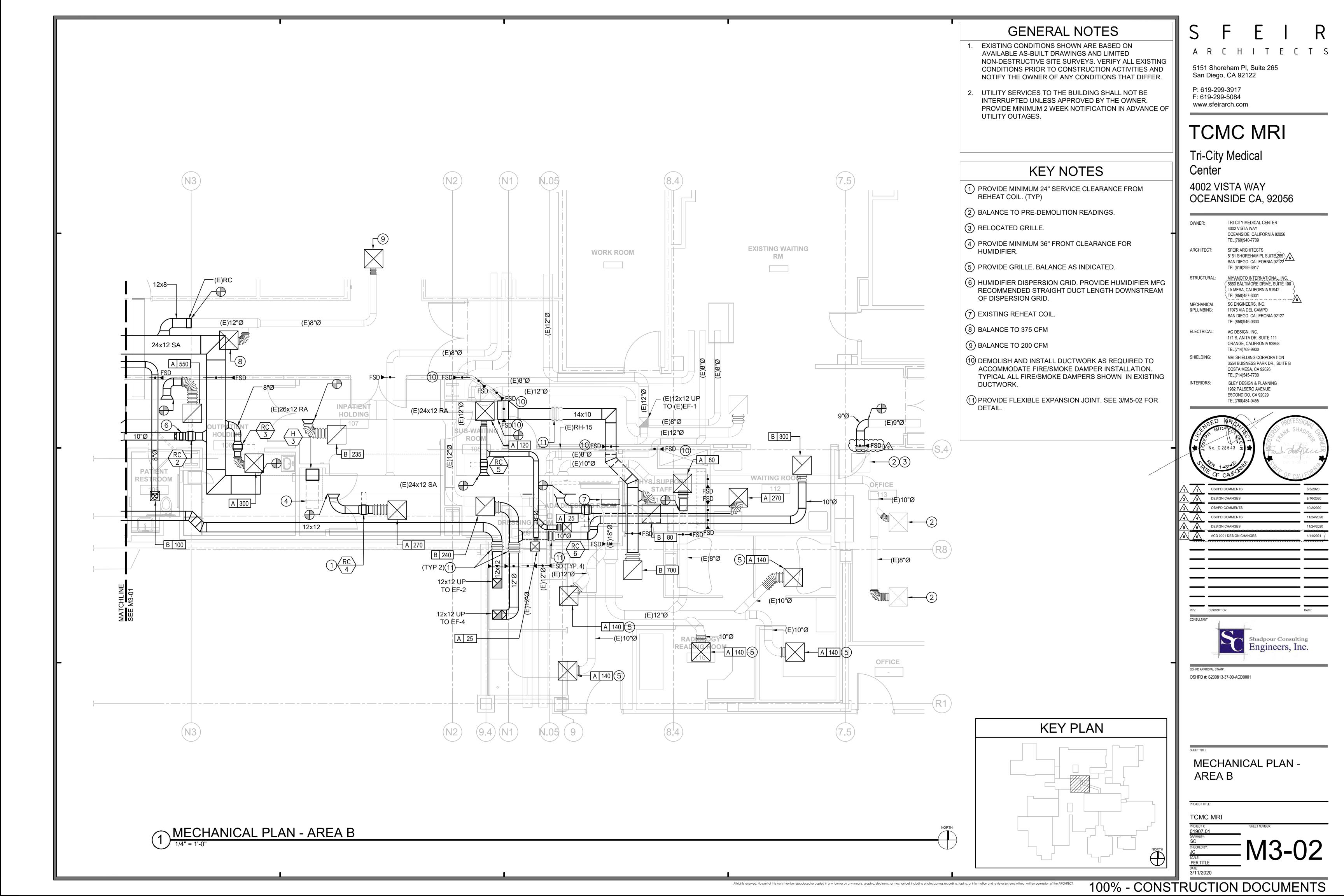
SCALE: 1/4" = 1'-0"

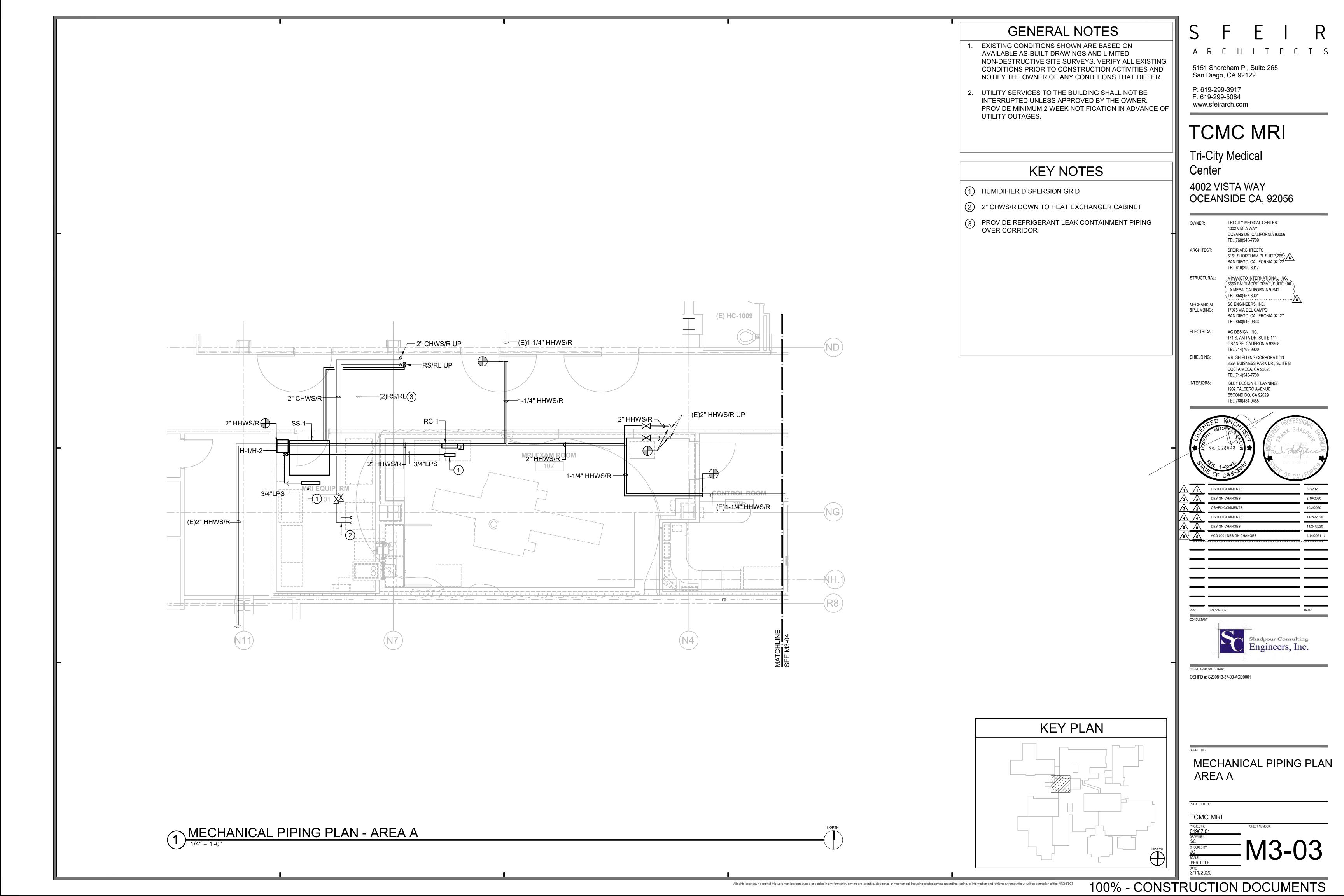
(E)SA

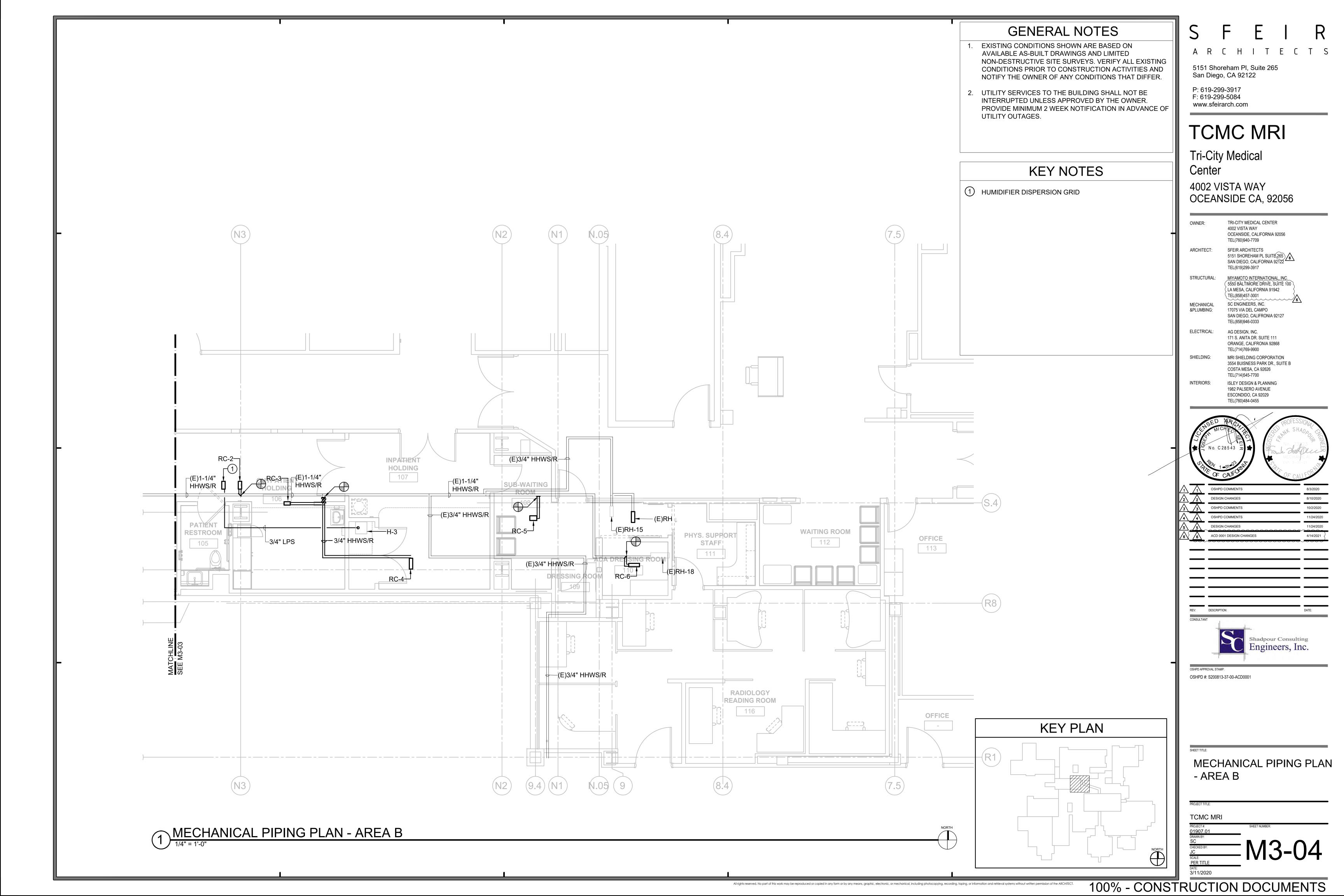
(E)26x14 SA

∞ (E)42x10 RA

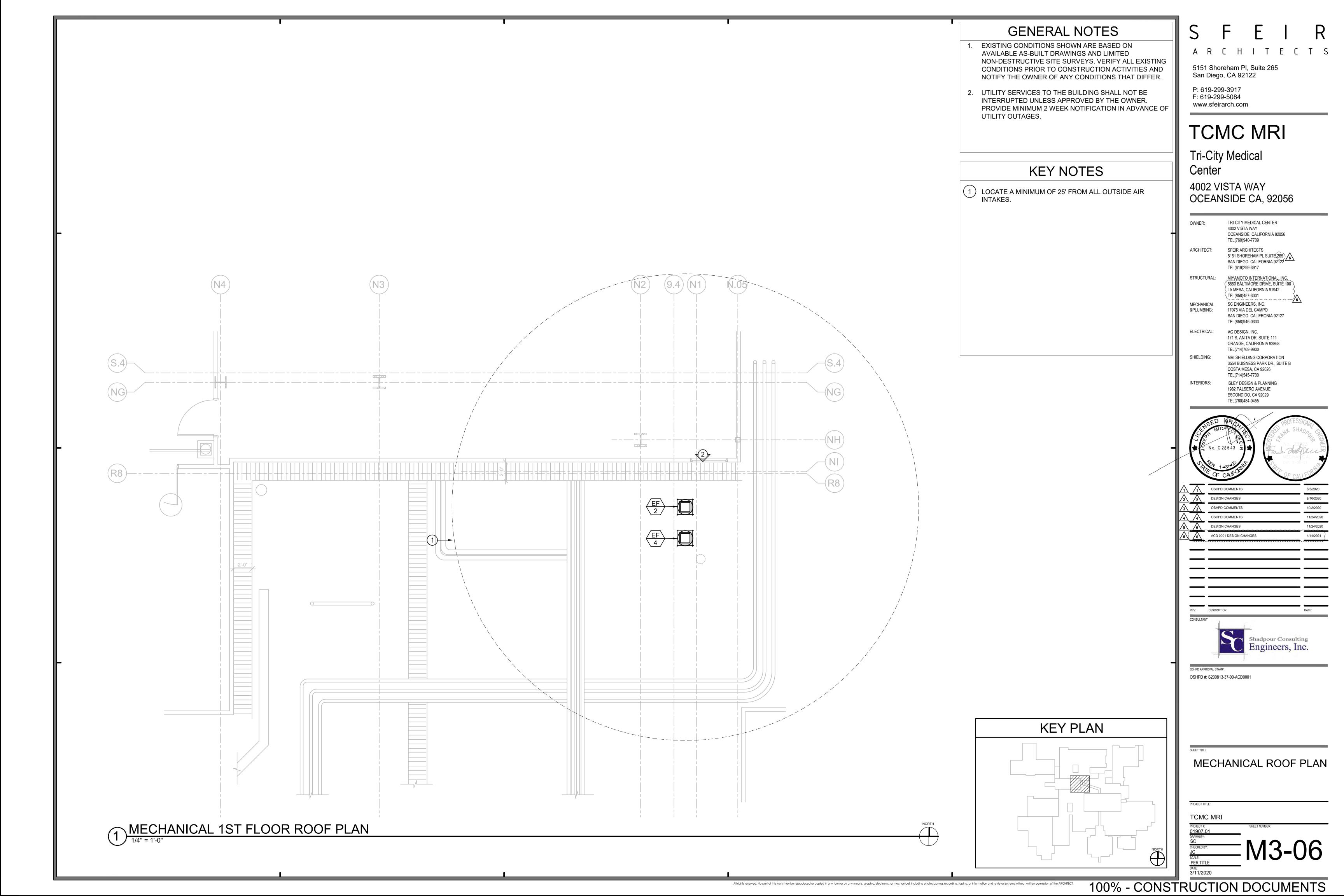
42x10 RA

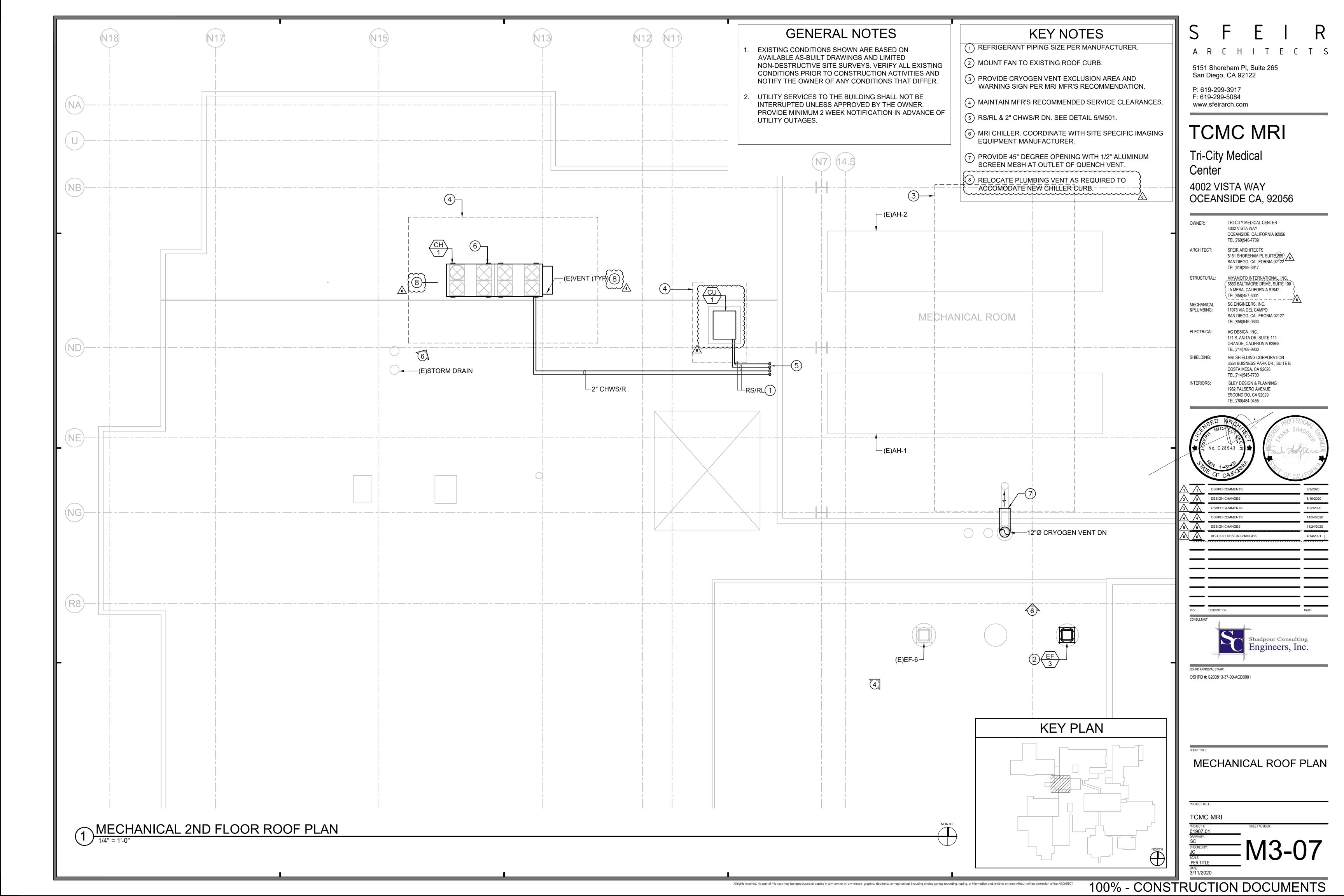


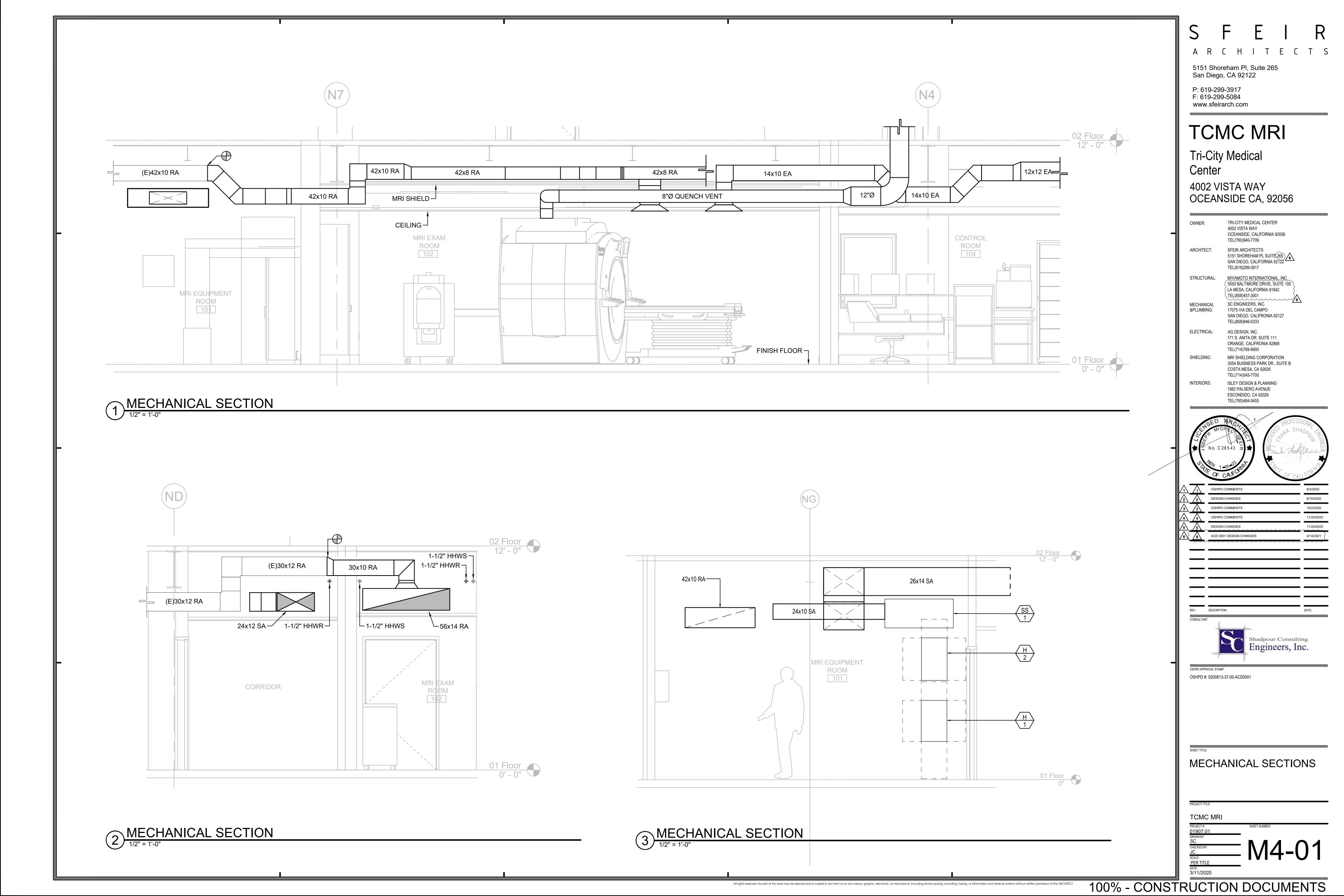


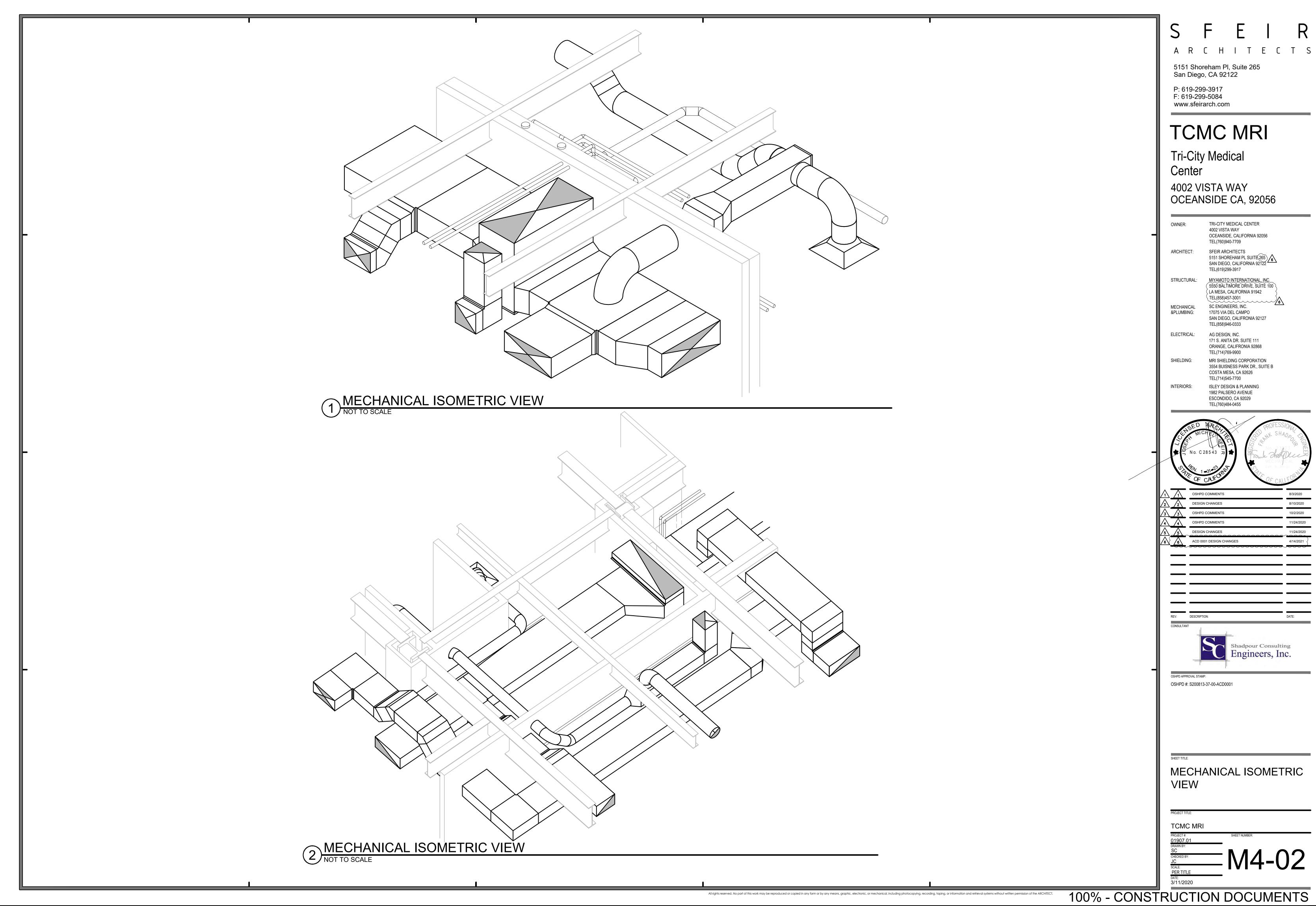


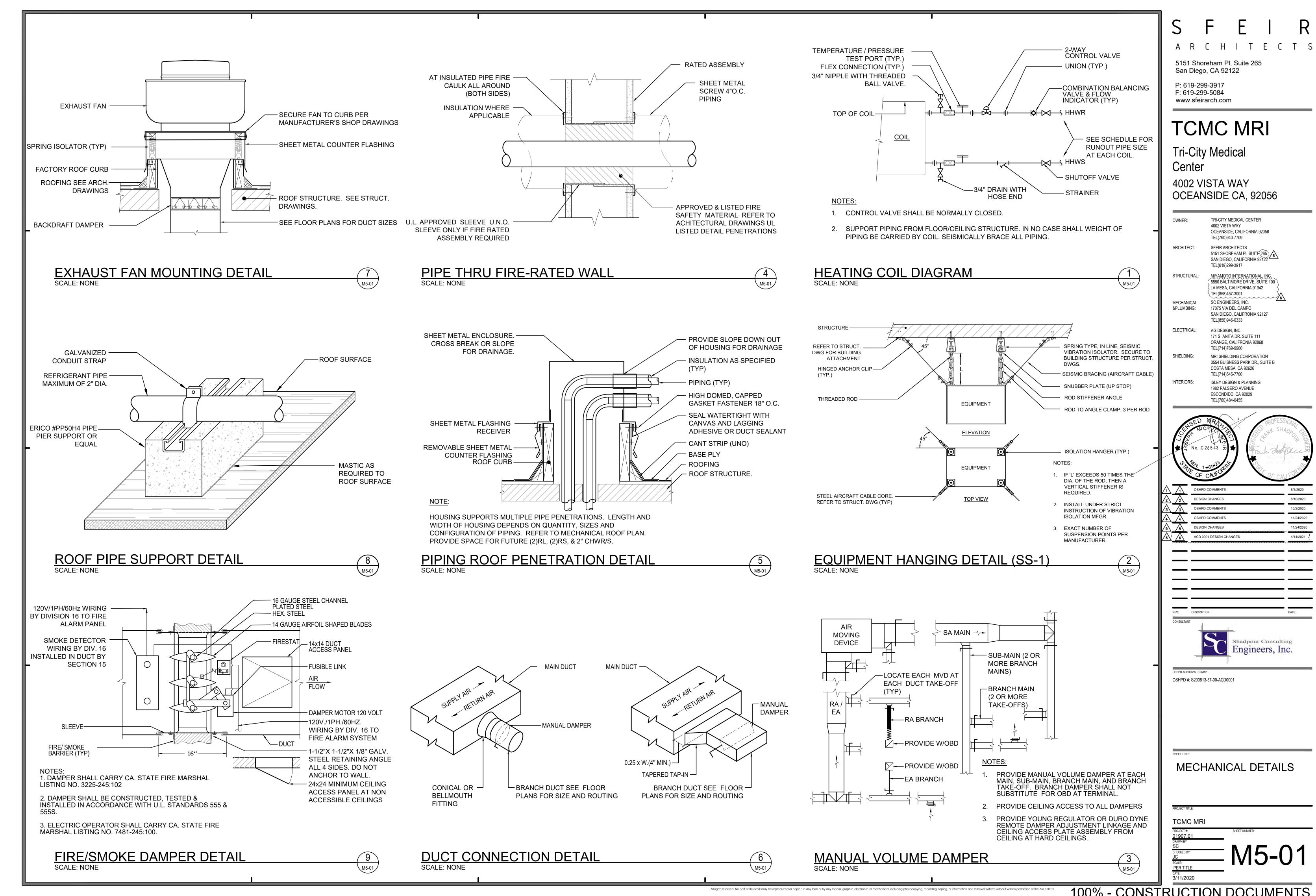
#### **GENERAL NOTES** 1. EXISTING CONDITIONS SHOWN ARE BASED ON ARCHITECTS AVAILABLE AS-BUILT DRAWINGS AND LIMITED NON-DESTRUCTIVE SITE SURVEYS. VERIFY ALL EXISTING 5151 Shoreham PI, Suite 265 CONDITIONS PRIOR TO CONSTRUCTION ACTIVITIES AND San Diego, CA 92122 NOTIFY THE OWNER OF ANY CONDITIONS THAT DIFFER. P: 619-299-3917 F: 619-299-5084 2. UTILITY SERVICES TO THE BUILDING SHALL NOT BE INTERRUPTED UNLESS APPROVED BY THE OWNER. www.sfeirarch.com PROVIDE MINIMUM 2 WEEK NOTIFICATION IN ADVANCE OF UTILITY OUTAGES. TCMC MRI Tri-City Medical Center **KEY NOTES** 4002 VISTA WAY 1 12" QUENCH VENT DOWN. OCEANSIDE CA, 92056 2 MAINTAIN SPACE FOR FUTURE MRI ROOM PIPING. 3 PROVIDE 2 HOUR FIRE WRAP TRI-CITY MEDICAL CENTER 4002 VISTA WAY OCEANSIDE, CALIFORNIA 92056 TEL(760)940-7709 ARCHITECT: SFEIR ARCHITECTS 5151 SHOREHAM PL SUITE 265 SAN DIEGO, CALIFORNIA 92122 TEL(619)299-3917 STRUCTURAL: MIYAMOTO INTERNATIONAL, INC. (5550 BĂLŤIMOŘE DŘIVĚ, SÚITĚ 100) (LA MESA, CALIFORNIA 91942 TEL(858)457-3001 SC ENGINEERS, INC. MECHANICAL 17075 VIA DEL CAMPO SAN DIEGO, CALIFRONIA 92127 TEL(858)946-0333 ELECTRICAL: AG DESIGN, INC. 171 S. ANITA DR. SUITE 111 ORANGE, CALIFRONIA 92868 TEL(714)769-9900 MRI SHIELDING CORPORATION 3554 BUISNESS PARK DR., SUITE B COSTA MESA, CA 92626 TEL(714)545-7700 ISLEY DESIGN & PLANNING 1982 PALSERO AVENUE ESCONDIDO, CA 92029 TEL(760)484-0455 No. C 285 43 万 ★ 2" CHWS/R DN-RL/RS DN (ND)OSHPD COMMENTS (E)14x12 EA UP&DN DESIGN CHANGES OSHPD COMMENTS -2" CHWS/R -RL/RS OSHPD COMMENTS 2" CHWS/R UP— RL/RS UP — (E)54x24 SA UP&DN (AH-1) DESIGN CHANGES ACD 0001 DESIGN CHANGES CLEAN UTILITY 296 NURSE STATION 296 Shadpour Consulting Engineers, Inc. 12"Ø QUENCH——— VENT UP OSHPD #: S200813-37-00-ACD0001 **KEY PLAN** 12"Ø QUENCH VENT MECHANICAL 2ND FLOOR PLAN MECHANICAL 2ND FLOOR PLAN 1/4" = 1'-0" NORTH

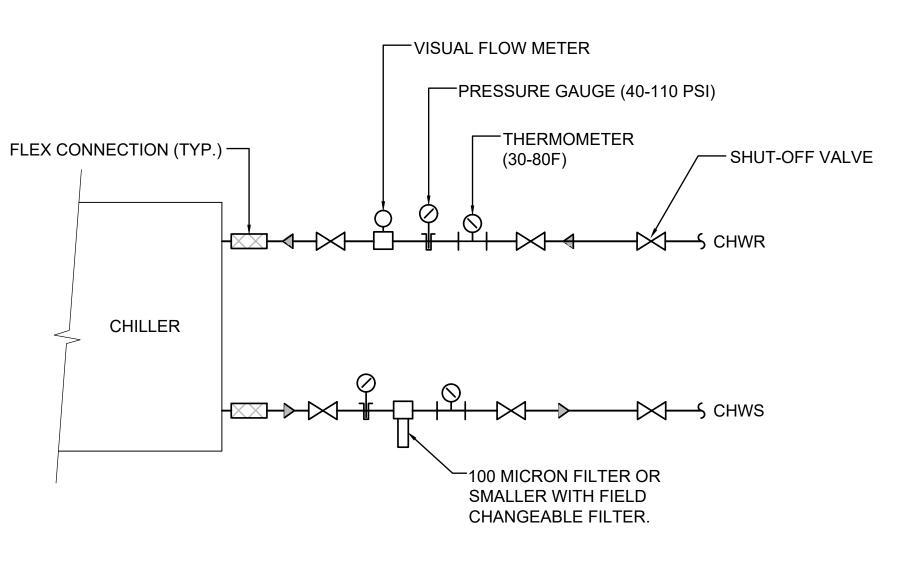








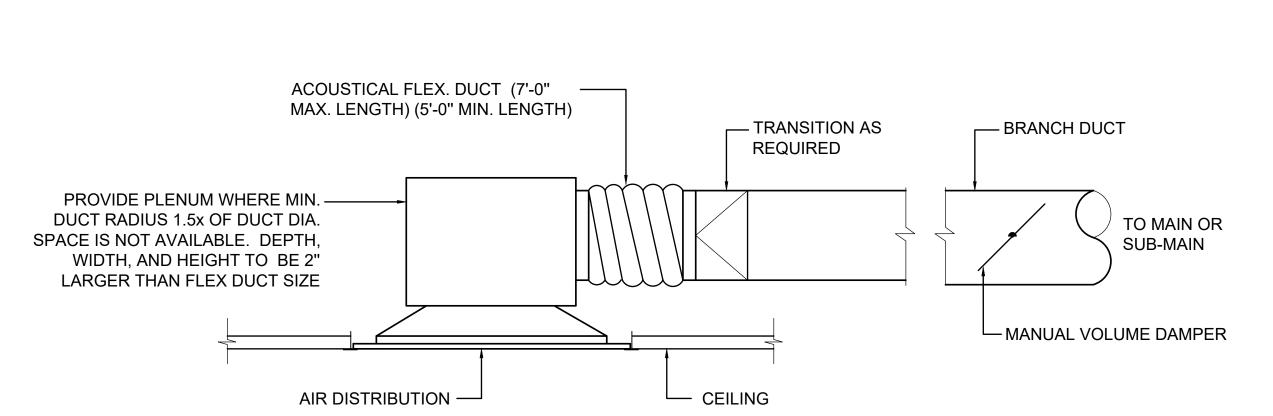




### NOTES:

- 1. SUPPORT PIPING FROM STRUCTURE. IN NO CASE SHALL WEIGHT OF PIPING BE
- CARRIED BY CHILLER. SEISMICALLY BRACE ALL PIPING.
- 2. COORDINATE WITH MRI MANUFACTURER

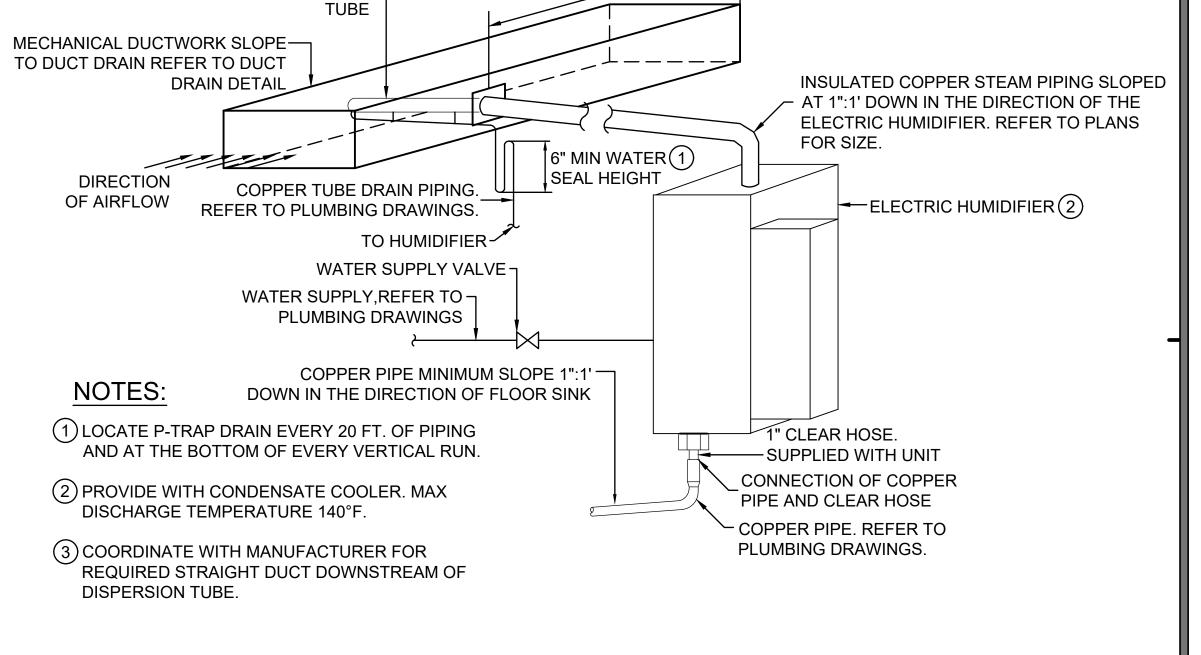
### MRI EQUIPMENT/MRI CHILLER CHW PIPING DETAIL SCALE: NONE



BRANCH D SUPPL	
MAX. CFM	SIZE
0-95	6"Ø
96-210	8"Ø
211-370	10"Ø
371-600	12"Ø
601-900	14"Ø
901-1290	16"Ø
1291-1750	18"Ø
1751-2300	20"Ø

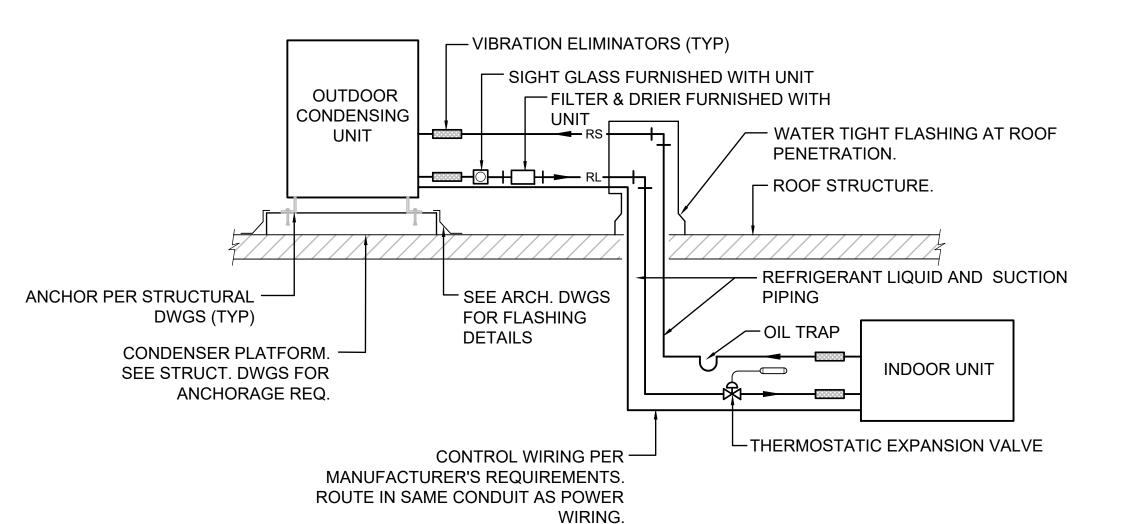
	DUCT SIZES EXHAUST AIR
MAX. CFM	SIZE
0-50	6"Ø
51-190	8"Ø
191-340	10"Ø
341-560	12"Ø
561-840	14"Ø
841-1190	16"Ø
1191-1610	18"Ø
1611-2150	20''Ø

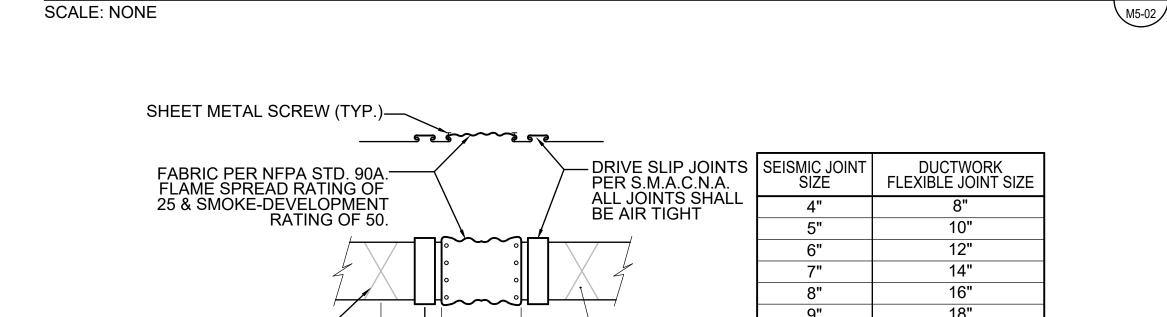
AIR DISTRIBUTION CONNECTION DETAIL



**ELECTRIC STEAM HUMIDIFIER DETAIL** SCALE: NONE

STEAM DISPERSION





FOR FLEXIBLE DUCT JOINT SIZE SEE SCHEDULE BELOW

**DUCT CONNECTION AT EXPANSION JOINT** SCALE: NONE

REFRIGERANT PIPING DETAIL

DUCT SUPPORT TYP. EACH SIDE
OF JOINT 18" MAX-

3 M5-02

22"

11"

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M5-02



TEL(760)484-0455

DESIGN CHANGES OSHPD COMMENTS 10/2/2020 OSHPD COMMENTS 11/24/2020 DESIGN CHANGES 11/24/2020 ACD 0001 DESIGN CHANGES

Engineers, Inc.

OSHPD #: S200813-37-00-ACD0001

MECHANICAL DETAILS

100% - CONSTRUCTION DOCUMENTS

### EXHAUST FAN SCHEDULE

SYMBOL	LOCATION	AREA SERVED	CFM	ESP (IN W.G.)	DRIVE	RPM	ВНР	HP	MOTOR V Q	ð Hz	EMERGENCY POWER	OSP NUMBER	OPER WEIGHT (LBS)	MTG DETAIL	REMARKS
EF 2	ROOF	MRI ROOM	1,200	0.7	DIRECT	1725	0.24	1/2	120	1 60	YES	0148-10	90	7/M5-01	12
EF 3	ROOF	PATIENT RESTROOM	300	1.6	DIRECT	2500	0.24	1/2	120	1 60	YES	0148-10	90	7/M5-01	1
EF 4	ROOF	WAITING ROOM	540	0.7	DIRECT	1725	0.15	1/4	120	1 60	YES	0148-10	60	7/M5-01	1
										•					

1 PROVIDE W/BACKDRAFT DAMPER 2 EMERGENCY EXHAUST FAN. PROVIDE MANUAL FAN SWITCH NEAR OPERATOR WORKSPACE AND IN MAGNET ROOM WIRED IN PARALLEL PER MFR REQUIREMENTS.

### REHEAT COIL SCHEDULE

SYMBOL	DESCRIPTION	MODEL	CFM	COIL SIZE (H"xL")	MAX FACE VEL. (FPM)	MAX TOTAL PD (IN W.G.)	MIN. NO. OF ROWS	CAPACITY (MBH)	EWT (°F)	LWT (°F)	EAT (°F)	LAT (°F)	GPM	BRANCH SIZE (IN)	MAX WATER PD (FT)	OPER WEIGHT (LBS)	REMARKS
RC 1	HYDRONIC HEATING COIL	TRANE-TYPE 5W	800	12x20	500	0.15	2	30.2	180	160	55	90	3.0	1	3	45	1
RC 2	HYDRONIC HEATING COIL	TRANE-TYPE ST	350	12x12	500	0.15	2	13.2	180	160	55	90	1.3	3/4	3	20	1
RC 3	HYDRONIC HEATING COIL	TRANE-TYPE ST	300	6x12	500	0.15	2	11.3	180	160	55	90	1.1	3/4	3	15	1
RC 4	HYDRONIC HEATING COIL	TRANE-TYPE ST	270	9x9	500	0.15	2	10.2	180	160	55	90	1.0	3/4	3	15	1
RC 5	HYDRONIC HEATING COIL	TRANE-TYPE ST	170	6x9	500	0.15	2	6.4	180	160	55	90	0.6	3/4	3	10	1
$ \begin{array}{c}             \hline                        $	HYDRONIC HEATING COIL	TRANE-TYPE ST	270	9x9	500	0.15	2	10.2	180	160	55	90	1.1	3/4	3	15	1

(1) COPPER TUBE, ALUMINUM FIT, HOT WATER COIL

### SPLIT SYSTEM SCHEDULE

•																												
						INDO	OR FA	N SECTION						OUTDO	OOR SE	CTIC	NC	С	OOLING	CAP.		HEATING CAF	P.					
SYMBOL	DESCRIPTION	AREA SERVED	MIN CFM	ESI (IN WC	P DRIVE	MCA	A V	Ø Hz	OPER WEIGH (LBS)	EMERG. POWER	SYMBOL	DESCRIPTION	MCA	\ V	Ø H	Hz	OPER WEIGHT (LBS)	TOTAL CAP. (MBH)	AMB (°F)	ENT DB (°F)	ENT WB (°F)	TOTAL AMB CAP. (°F)	REFRIGERANT TYPE	OSP NUMBER	DETAIL	EMERGENCY POWER	REMARKS	
$\left\{\begin{array}{ c c }\hline\hline & SS\\\hline & 1\\\hline \end{array}\right.$	MITSUBISHI TPEFYP072	EQUIPMENT RM 1	1,760	0.2	2 DIRECT	7.7	208	1 60	214	YES	CU 1	MITSUBISHI TUHYP072	11	480	3 (	60	479	72	95	80	67	N/A N/A	R-410A	OSP-0537	2/M5.0 ²	1 YES	12	
	<del>-</del>		-	-	-	-	-		-	-	-	<del>-</del>	<del>-</del>	- I	-	-	-	-	-	-	-		-	-	-	-		

1) PROVIDE MERV 8 FILTER 2) PROVIDE SEPARATE WALL MOUNTED TEMPERATURE SENSOR IN ROOM FOR MONITORING BY DDC SYSTEM.

### **HUMIDIFIER SCHEDULE**

SYMBOL	DESCRIPTION	MODEL	AREA SERVED		kW \	1	ECTRICAL Hz MCA	MOCP		EMERGENCY POWER	OSP NUMBER	MTG. DETAIL	REMARKS
$\begin{pmatrix} H \\ 1 \end{pmatrix}$	ELECTRODE STEAM GENERATOR HUMIDIFIER	NORTEC-CONDAIR EL-005	EQUIPMENT ROOM	1.9	1.9 12		60 15.6		55	YES	OSP-0225-10	4/S4-1	12356
(H) 2	ELECTRODE STEAM GENERATOR HUMIDIFIER	NORTEC-CONDAIR EL-010	MRI ROOM	7.2	3.7 20	08 1	60 18.0	25	55	YES	OSP-0225-10	4/S4-1	12356
$\begin{pmatrix} H \\ 3 \end{pmatrix}$	ELECTRODE STEAM GENERATOR HUMIDIFIER	NORTEC-CONDAIR EL-005	CONTROL ROOM	3.0	1.9 12	20 1	60 15.6	20	55	YES	OSP-0225-10	4/S4-1	12356

1 WALL MOUNT INSTALLATION 2 PROVIDE DUCT HIGH LIMIT HUMIDISTAT AND AIRFLOW PROVING SWITCH. 3 PROVIDE FACTORY MOUNTED CONTROLS FOR INTEGRATION INTO EXISTING BUILDING MANAGEMENT SYSTEM. 4-5 PROVIDE MANUFACTURER'S STAINLESS STEEL DISPERSION TUBE FOR DISPERSION INTO SA DUCT 6 PROVIDE MFG CONDENSATE COOLER

### MRI CHILLER SCHEUDLE (FOR REFERENCE ONLY. CHILLER DESIGNED BY GE MEDICAL)

SYMBOL	DESCRIPTION	AREA SERVED	NOMINAL CAPACITY	RATED CAPACITY	REFRIGERANT	EVAPO	RATOR	DATA		CON	IDENSE	ER DAT	A		TOTA	L UNIT	ELECT	RICAL	DATA	EMERGENCY		G REMARKS
STIVIBOL	DEGGINI FIGH	AILA GLIVLD	(TONS)	(TONS)	TYPE	GPM	EWT (°F)	LWT (°F)	AMB (°F)	QTY	HP	V	Ø	Hz	DISC FULL	FLA	V	Ø	Hz	POWER	WEIGHT (LBS)	NEWAINO
CH 1	ROOF MOUNTED AIR COOLED CHILLER	MRI MACHINE	30	20	R407C	35	63.7	50	122	8	1/2	460	3	60	100A	91A	460	3	60	YES	4300	123

1) COORDINATE WITH SITE SPECIFIC IMAGING EQUIPMENT MANUFACTURER FOR ACTUAL CHILLER MODEL REQUIRED. (2) SYSTEM PROVIDED WITH TWO 3 HP CHILLED WATER PUMPS. (3) PROVIDED BY GE

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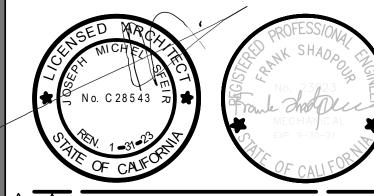
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OSHPD #: S200813-37-00-ACD0001

MECHANICAL SCHEDULES

#### EXISTING AIR HANDLING UNIT SCHEDULE (FOR REFERENCE ONLY PER OSHPD PROJECT #HL889969) **RETURN FAN COOLING COIL** SUPPLY FAN **HEATING COIL** EAT (°F) LAT (°F) MAX AIR PD GPM GPM (°F) LWT WATER PD (FT) CFM (°F) WBH) FACE AREA (SF) ROWS (°F) CFM (°F) WC) GPM EWT LWT WATER PD (°F) WATER PD (FT) FILT. VIBRATION IN SOLATION (°F) WC) MIN NO. VIBRATION WEIGHT MANUF. & TSP MIN AREA UNIT SYMBOL LOCATION TYPE CFM (IN OSA RPM HP V Ø Hz TYPE CFM (IN RPM HP V Ø Hz MODEL NO. AREA SERVED (LBS) SENS. TOTAL (SF) OF ROWS DB WB DB WB (IN WC) WC) CFM "PACE" PLUG MECHANICAL AIR 12,000 5 3150 1361 20 460 3 60 (E)RF-1 8,850 1.25 801 3 460 3 60 340.1 457.71 24.8 SOUTHEAST, 7.4 | 12,000 | 131 | 24.8 45 | 55 | 65 | 75 | .08 | 13.1 | 180 | 160 | SPRING 12,000 FAN DRAW-PENTHOUSE FOIL SOUTWEST ISOLATED THRU P-30

1) DEEP PLEATED HIGH EFFICIENCY 45% PRE FILTER & 95% FINAL FILTER. 2) TEST, ADJUST AND BALANCE AH-1 TO PROVIDE CFM REQUIRED BASED ON PRE-TAB AND QUANTITIES INDICATED ON MECHANICAL PLAN.

EXIS	TING E	XHAUST	FAN SCH	HEDU	JLE (F	OR	RE	FE	REI	NCE	E ONLY)		
SYMBOL	LOCATION	AREA	FAN TYPE	CFM	ESP (IN	RPM		МОТ	ΓOR		VIBRATION	OPER	MANUFACTURER
OTWIDOL	200/11011	SERVED	1700 1111 2	01 101	W.G.)	TXI IVI	HP	V	Ø	Hz	ISOLATION	WEIGHT (LBS)	& MODEL NO.
(E)EF-1	ROOF	FIRST FLOOR SOUTHWEST	CENTRIFUGAL	1330	0.3	1290	1/4	120	1	60	ROOF MOUNTED	120	GREENHECK LBP-14

ASHRAE STA	NDARD 15 REF	RIGERANT	COMPLI	ANCE CA	ALCULATIO	N
CONDENSING UNIT	CRITICAL ROOM AREA (FT ² )	CRITICAL ROOM CEILING HEIGHT (FT)	CRITICAL ROOM VOLUME (FT ³ )	MAXIMUM RCL FACTOR FOR R-410A (LB/1000 FT ³ )	REFRIGERATION CONCENTRATION LIMIT (LBS)	ACTUAL REGRIGERATION CHARGE (LBS)
CU-1	98	8	784	26	20.4	{14.3} <u>6</u>
<del>-</del>	-	-	-	-	-	-

OUTSID	E AIR DES	IGN CONDITIONS										
OUTSIDE AIR DESIGN CONDITIONS  OUTSIDE AIR INTAKE CONDITIONS  SUMMER WINTER  80°F DB 67°F WB 37°F  INDOOR AIR DESIGN CONDITIONS  MRI ROOM  SUMMER WINTER  68°F DB 50% RH 68°F												
50	MMER T	WINTER										
80°F DB	67°F WB	37°F										
INDOOR	AIR DESI	GN CONDITIONS										
	MRI ROOM											
68°F DB	50% RH	68°F										
CON	ROL ROOM / EQUIPME	NT ROOM										
SU	MMER	WINTER										
78°F DB	50% RH	68°F										
	CONDITIONED SPACE	ES										
SU	MMER	WINTER										
78°F DB	50% RH	68°F										

AIK DIS	STRIBU	TION SCHE	EDU	LE ①				
SYMBOL	SERVICE	DESCRIPTION	NECK SIZE	CFM RANGE	MOUNTING SURFACE	РНОТО	REMARKS	MAX NC LEVEL
			6"Ø	0-95				
		4-WAY, MODULAR	8"Ø	95-210				
	SUPPLY	CORE,	10"Ø	210-370	T-BAR/		ALUMINUM	25
A CFM	AIR	PERFORATED FACE, CEILING	12"Ø	370-600	HARD CEILING		CONSTRUCTION	25
		DIFFUSER	14"Ø	600-900				
			16"Ø	900-1290				
			6"Ø	190				
	DETUDN	PERFORATED	8"Ø	340	T-BAR/			
B CFM	I OK EXHAUST	RETURN / EXHAUST GRILLE	10"Ø	560	HARD CEILING		ALUMINUM CONSTRUCTION	25
	AIR	OT WEEL	12"Ø	890				
			14"Ø	1190				
			16"Ø	1610				
			6"Ø	0-95				
			8"Ø	95-210				
	SUPPLY	4-WAY, MRI	10"Ø	210-370	T-BAR/		A. I. A. I. INAINI INA	
C CFM	AIR	COMPATIBLE CEILING DIFFUSER	12"Ø	370-600	HARD CEILING		ALL ALUMINUM CONSTRUCTION	25
			14"Ø	600-900	02.2			
			16"Ø	900-1290				
			6"Ø	190				
		PERFORATED, MRI	8"Ø	340	T-BAR/			
D CFM	RETURN OR EXHAUST	COMPATIBLE RETURN/EXHAUST	10"Ø	560	HARD CEILING		ALL ALUMINUM	25
	AIR	GRILLE	12"Ø	890			CONSTRUCTION	
			14"Ø	1190				
			16"Ø	1610				
			24x24	-		ž 2		
E CFM	TRANSFER AIR	FIXED ANGLE SIDEWALL REGISTER			SIDE WALL		ALL ALUMINUM CONSTRUCTION, 45-DEG FIXED BLADE	N/A
			18x8	-				
F CFM	SUPPLY AIR	DOUBLE DEFLECTION SIDEWALL DIFFUSER			DUCTWORK		ALL ALUMINUM CONSTRUCTION	N/A
1) DIFFUSERS	AND GRILLES V	WITHIN MRI EXAM RC	OM SHI	ELDING SHA	LL BE MRI COM	PATIBLE.		

### 5151 Shoreham PI, Suite 265 San Diego, CA 92122 P: 619-299-3917 F: 619-299-5084 www.sfeirarch.com TCMC MRI Tri-City Medical Center 4002 VISTA WAY OCEANSIDE CA, 92056 TRI-CITY MEDICAL CENTER 4002 VISTA WAY OCEANSIDE, CALIFORNIA 92056 TEL(760)940-7709 SFEIR ARCHITECTS 5151 SHOREHAM PL SUITE 265 SAN DIEGO, CALIFORNIA 92122 TEL(619)299-3917 STRUCTURAL: MIYAMOTO INTERNATIONAL, INC. (5550 BĂLŤIMOŘE DŘIVĚ, SÚITĚ 100) LA MESA, CALIFORNIA 91942 TEL(858)457-3001 SC ENGINEERS, INC. MECHANICAL 17075 VIA DEL CAMPO SAN DIEGO, CALIFRONIA 92127 TEL(858)946-0333 ELECTRICAL: AG DESIGN, INC. 171 S. ANITA DR. SUITE 111 ORANGE, CALIFRONIA 92868 TEL(714)769-9900 MRI SHIELDING CORPORATION 3554 BUISNESS PARK DR., SUITE B COSTA MESA, CA 92626 TEL(714)545-7700 ISLEY DESIGN & PLANNING 1982 PALSERO AVENUE ESCONDIDO, CA 92029 TEL(760)484-0455

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> OSHPD COMMENTS DESIGN CHANGES

ACD 0001 DESIGN CHANGES

OSHPD #: S200813-37-00-ACD0001

MECHANICAL SCHEDULES

AIR BAI	LANCE TABLE																
ZONE	ROOM NAME	ADEA (5T ² )	LIC (ET)		CMC TABLE 4-A									DES	IGN AIRFLOV	/ V	
ZONE	ROOM NAME	AREA (FT ² )	HG (FT)	ROOM DESIGNATION	AIR BALANCE RELATIONSHIP	O.A. (ACH)	O.A. (CFM)	S.A. (ACH)		.A. (ACH) E.A	. (CFM)	SA (CFM)	RA (CFM)	EA (CFM)	OA (CFM)	TA (CFM)	AIR BALANCE
RC-1	MRI EXAM ROOM 102	530 6\	8.3	MRI Room	No Requirement for Continous Directional Control	2	147	6	440	-	-	800	800	0	210	0	EQ
RC-2	CONTROL ROOM 104	116	8.2	Patient Holding Room	No Requirement for Continous Directional Control	2	32	6	95	-	-	350	0	0	92	350	POSITVE
RC-3	PATIENT RESTROOM 105	43	8.0	Toilet Room	Negative	-	-	-	-	10	57	0	100	70	0	(170)	NEGATIVE
NC-3	OUTPATIENT HOLDING 106	296	8.3	Patient Holding Room	No Requirement for Continous Directional Control	2	81	6	244	-	-	300	550	0	144	(250)	NEGATIVE
RC-4	INPATIENT HOLDING 107	252	8.3	Patient Holding Room	No Requirement for Continous Directional Control	2	69	6	208		-	270	235	0	71	35	POSITVE
	SUBWAITING ROOM 108	141	8.3	Radiology Waiting Room	Negative	2	39	12	233	-	-	120	0	240	63	(120)	NEGATIVE
RC-5	ADA DRESSING ROOM 110	45	8.0	-	No Requirement for Continous Directional Control	-	-	-	-	-	-	25	0	0	7	25	POSITVE
	DRESSING ROOM 109	26	8.0	-	No Requirement for Continous Directional Control	-	-	-	-	-	-	25	0	0	7	25	POSITVE
RC-6	WAITING ROOM 112	116	8.0	Radiology Waiting Room	Negative	2	31	12	186	12	186	270	0	300	79	(30)	NEGATIVE
(E)RC	RADIOLOGY READING ROOM 116	708	8.0	-	No Requirement for Continous Directional Control	-	-	-	-	-	-	700	700	0	184	0	EQ
(E)RC	(E) CORRIDOR B07	600	7.5	Patient Corridor	No Requirement for Continous Directional Control	2	150	2	150	-	-	575	900	0	236	(325)	NEGATIVE
(E)RC	(E) HC-1009	65	7.5	Patient Corridor	No Requirement for Continous Directional Control	-	_	-	-	10	81	150	0	190	50	(40)	NEGATIVE

ARCHITECTS

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3554 BUISNESS PARK DR., SUITE B COSTA MESA, CA 92626 TEL(714)545-7700

MECHANICAL

INTERIORS: ISLEY DESIGN & PLANNING 1982 PALSERO AVENUE ESCONDIDO, CA 92029 TEL(760)484-0455



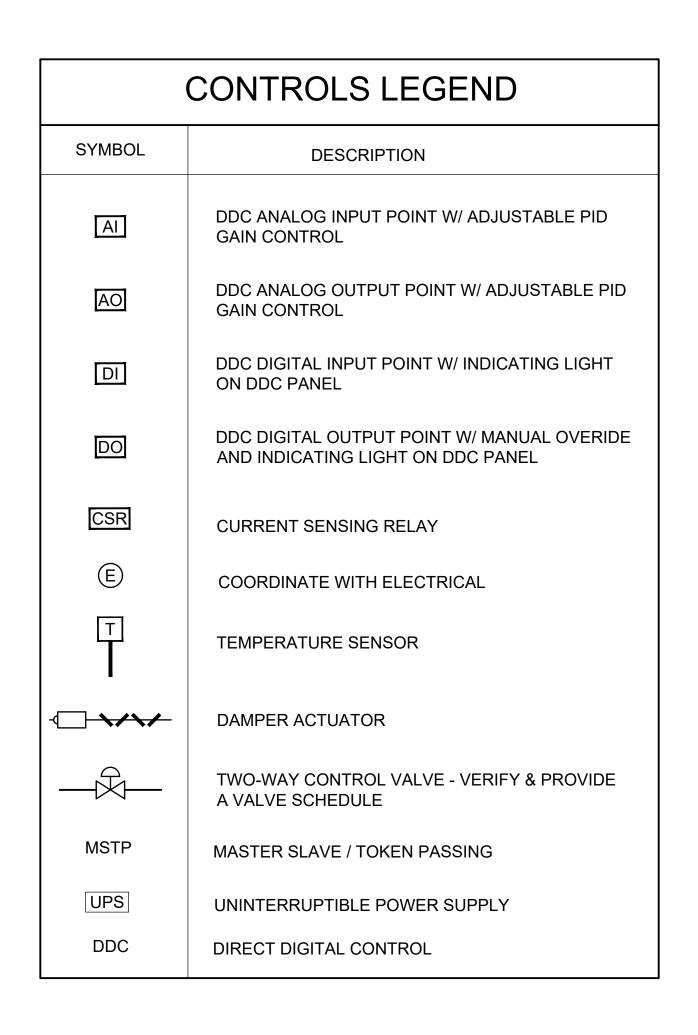
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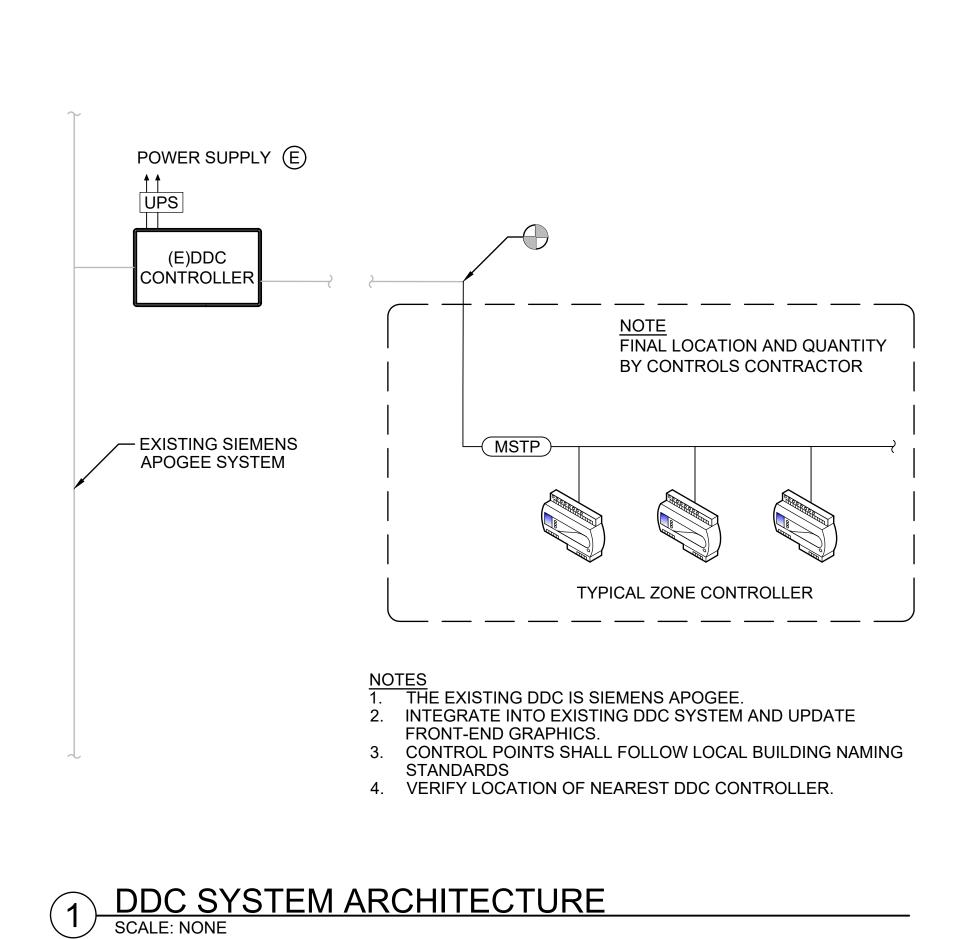
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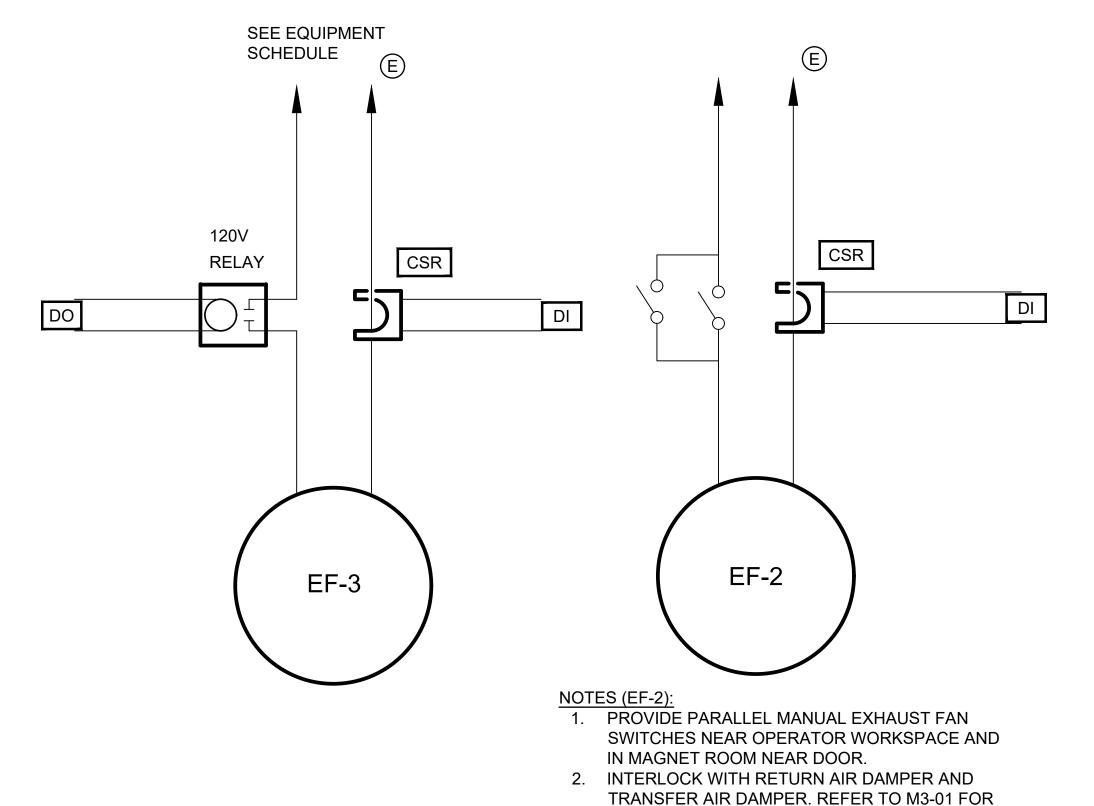


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MECHANICAL AIR BALANCE TABLE







LOCATION.

**EF MOTOR CONTROL** 

-HARDWIRE CONTROL WIRING **KEYNOTE** PROVIDE TEMPERATURE

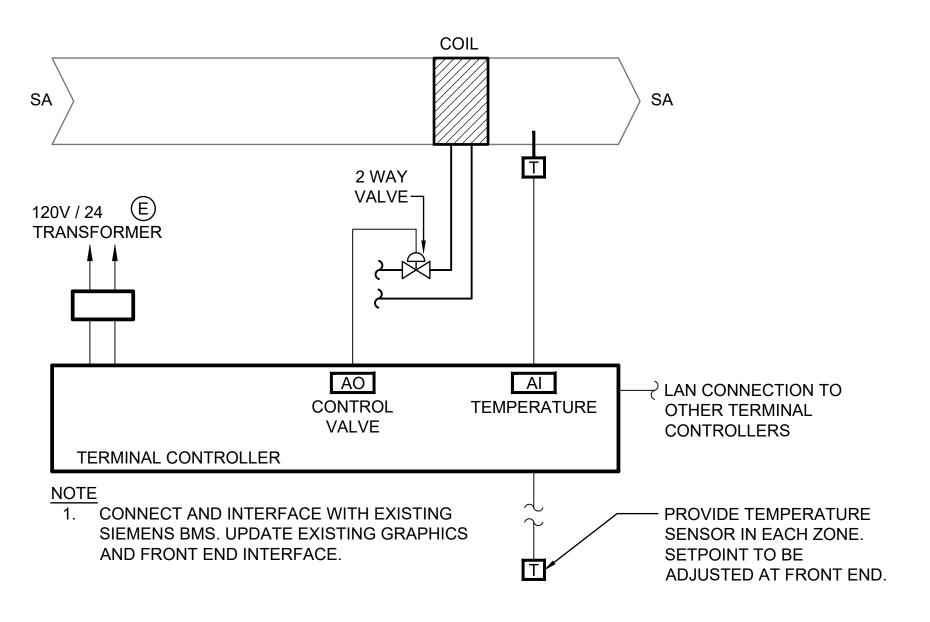
### SEQUENCE OF OPERATION

FOR MONITORING

- 1. SYSTEM SHALL BE ENERGIZED AND PROVIDE SPACE CONDITIONING FOR 24 HOURS
- 2. THE UNIT SHALL RUN ON ITS INTEGRAL CONTROLS TO MAINTAIN A 75°F (ADJ.)
- TEMPERATURE SET POINT.

SENSOR WITH DDC SENSOR

DDC SYSTEM SHALL VERIFY PROPER OPERATION BY ROOM TEMPERATURE SENSOR. SENSOR SHALL SEND AN ALARM SIGNAL IF ROOM TEMPERATURE DEVIATES 5°F (ADJ.) FROM SETPOINT FOR MORE THAN 10 MINUTES (ADJ.)

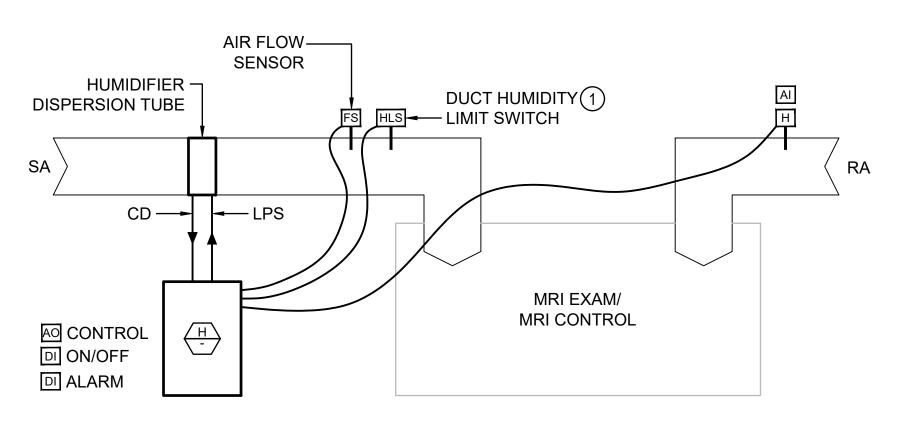


#### **SEQUENCE OF OPERATION:**

1. REHEAT VALVE SHALL BE MODULATED TO MAINTAIN THE ROOM TEMPERATURE SETPOINT, SET BY ROOM OCCUPANT LIMITED TO 68°F-78F° (ADJ).

DX SPLIT SYSTEM UNIT (SS-1)





#### NOTES:

1) LOCATE PER MANUFACTURER'S RECOMMENDED DISTANCE FROM DISPERSION TUBE

DUCT STEAM HUMIDIFIER CONTROL DETAIL

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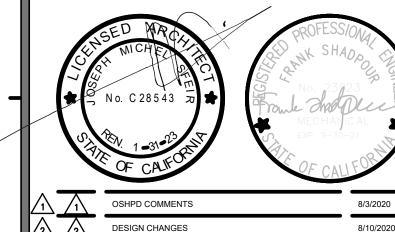
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MECHANICAL CONTROLS

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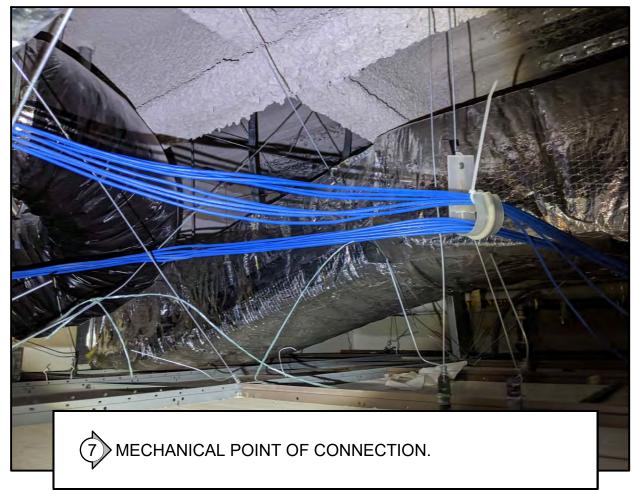






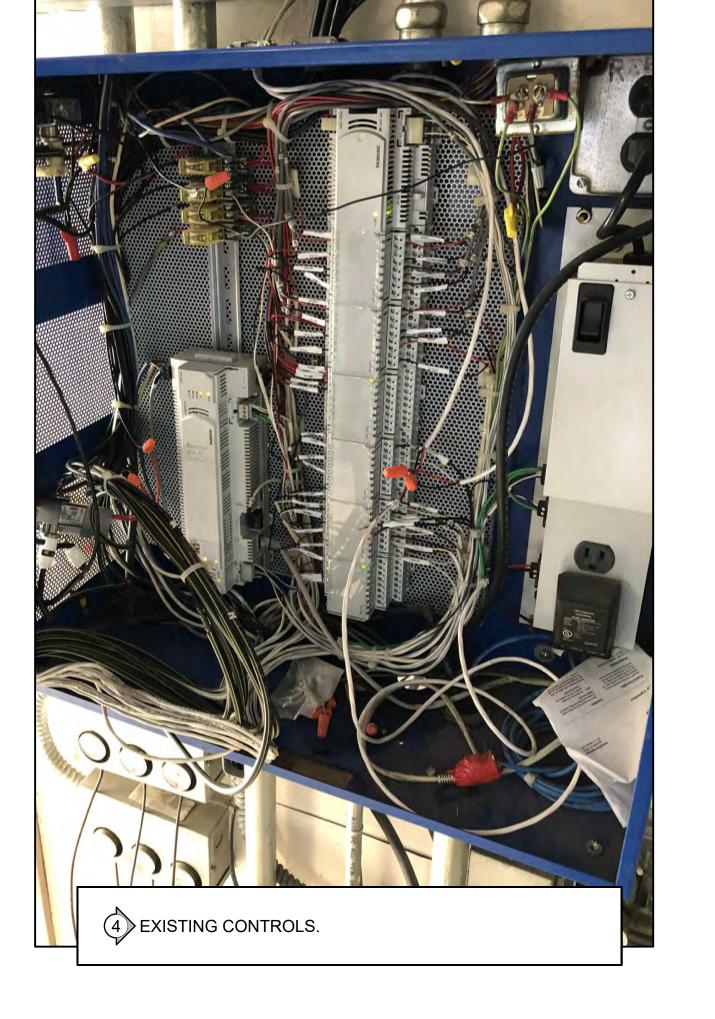






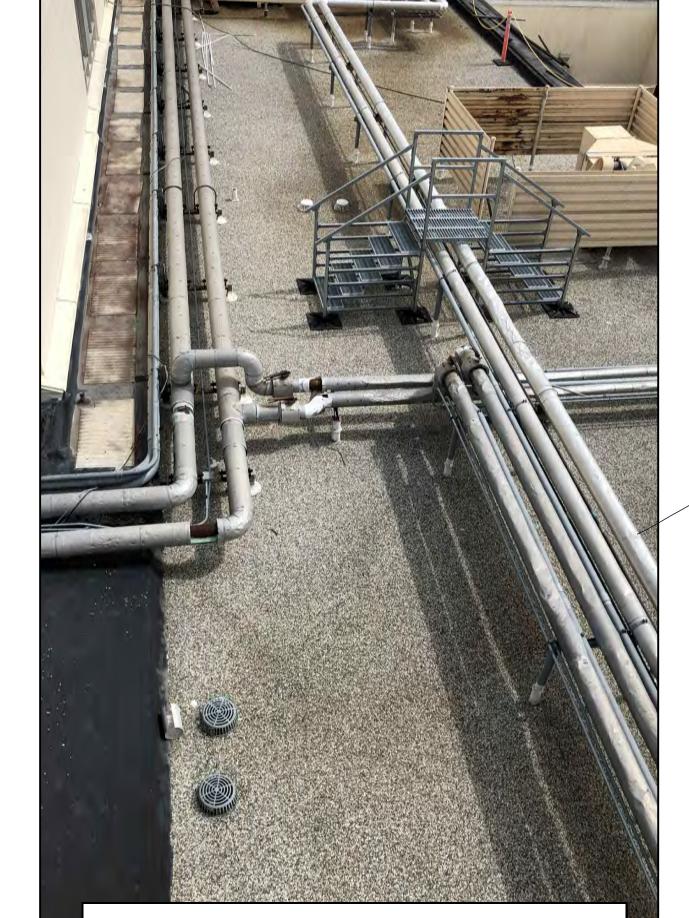
















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DESIGN CHANGES

3 OSHPD COMMENTS

10/2/20

OSHPD COMMENTS

11/24/2

DESIGN CHANGES

11/24/2

ACD 0001 DESIGN CHANGES

4/14/20

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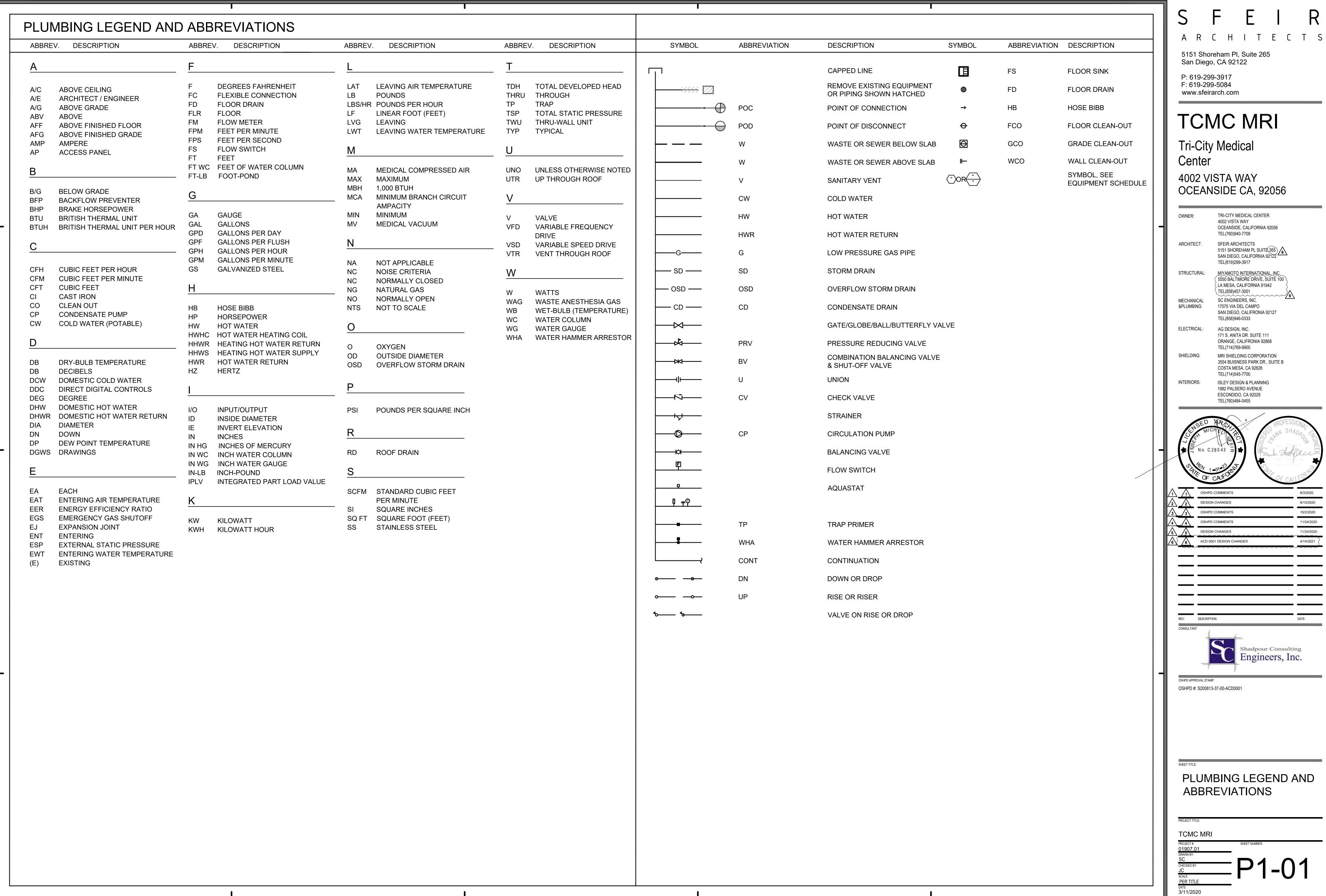
SHEET TITLE:

MECHANICAL PHOTOS

TCMC MRI
PROJECT #: SHEE
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DRAWN BY:

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2 PROPOSED EF-2 LOCATION.



100% - CONSTRUCTION DOCUMENTS

## TCMC MRI

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	O/N	
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<u></u>	OSHPD COMMENTS	_
5	DESIGN CHANGES	_

Engineers, Inc.

PLUMBING LEGEND AND

### **OSHPD NOTES**

- PIPES AND CONDUITS SHALL BE SUPPORTED AND BRACED PER OSHPD ANCHORAGE PRE-APPROVAL NO. OPM-0043-13 (MASON INDUSTRIES GUIDLINES FOR SEISMIC RESTRAINTS OF MECHANICAL AND PLUMBING SYSTEMS) OR OTHER OSHPD PRE-APPROVED GUIDELINES.
- 2. IN ADDITION TO THE REQUIREMENTS SPECIFIED ELSEWHERE,
- THE FOLLOWING GUIDELINES SHALL BE ADHERED TO: ALL DUCT, PIPE, AND CONDUIT SHALL HAVE A MINIMUM OF TWO (2) TRANSVERSE AND ONE (1) LONGITUDINAL SEISMIC RESTRAINT IN EVERY RUN
- LONGITUDINAL AND TRANSVERSE RESTRAINT SHALL OCCUR AT INTERVALS SPECIFIED BY STRUCTURAL ENGINEER, MECHANICAL ENGINEER, AND SHALL NOT EXCEED THE SPACING SPECIFIED IN SMACNA AND PRE-APPROVED SYSTEM.
- SPECIFY AND USE ONLY ONE PRE-APPROVED SYSTEM.
- 3. THE INTENT OF THE DRAWINGS AND SPECIFICATIONS IS TO CONSTRUCT THE BUILD-OUT IN ACCORDANCE WITH THE CALIFORNIA BUILDING STANDARDS CODE, TITLES 19 AND 24, CALIFORNIA CODE OF REGULATIONS. SHOULD ANY CONDITIONS DEVELOP NOT COVERED BY THE CONTRACT DOCUMENTS WHEREIN THE FINISHED WORK WILL NOT COMPLY WITH TITLE 24, CALIFORNIA CODE OF REGULATIONS, A CHANGE ORDER. DETAILING AND SPECIFYING THE REQUIRED WORK SHALL BE SUBMITTED TO AND APPROVED BY OSHPD BEFORE PROCEEDING WITH THE WORK.
- 4. "SHOP DRAWINGS. SHOWING THE BRACING/SUPPORT LOCATIONS AND REFERENCES TO DETAILS FROM THE RELEVANT OSHPD PRE-APPROVALS FOR PIPING/DUCTS/CONDUITS EXCEPT FIRE SPRINKLERS, NEED TO BE REVIEWED AND ACCEPTED BY THE AOR AND EOR (SE AND ME) PRIOR TO STARTING INSTALLATION OF THE BRACING/SUPPORT. IOR SHALL ENSURE THE ABOVE REQUIREMENTS ARE SATISFIED."

### **PROJECT NOTES**

1. NEITHER WATER NOR DRAINAGE PIPING WILL BE LOCATED OVER ELECTRICAL WIRING OR EQUIPMENT UNLESS ADEQUATE PROTECTION AGAINST WATER (INCLUDING CONDENSATION) DAMAGE HAS BEEN PROVIDED. INSULATION ALONE IS NOT ADEQUATE PROTECTION AGAINST CONDENSATION.

### **EXISTING BUILDING NOTES**

- 1. ALL ITEMS TO BE REMOVED AND RELOCATED OR REPLACED SHALL BE HANDLED WITH PROPER CARE AND STORED IN A SAFE PLACE TO PREVENT DAMAGE: OR BE REPLACED AT THE CONTRACTOR'S EXPENSE.
- 2. WHEN INSTALLING DRILLED ANCHORS OR POWDER DRIVEN PINS INTO EXISTING REINFORCED CONCRETE, USE CARE TO AVOID CUTTING OR DAMAGING THE REINFORCING BARS.
- 3. FOR EXISTING FLOORS, CEILINGS, PARTITIONS, AND SERVICES TO REMAIN, THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING ALL FINISHES AND MATERIALS AND REPAIRING OR REPLACING ALL ITEMS THAT ARE DAMAGED OR SOILED DURING THE COURSE OF CONSTRUCTION.

### **GENERAL NOTES**

- THESE DRAWINGS ARE A GENERAL GRAPHIC PRESENTATION OF THE WORK. PIPING, AND EQUIPMENT, AS SHOWN, ARE SCHEMATIC. FABRICATE AND INSTALL BASED ON ACTUAL FIELD MEASUREMENT. COORDINATE WITH OTHER TRADES. PROVIDE A COMPLETE SET OF COORDINATED SHOP DRAWINGS REFLECTING ACTUAL DIMENSIONS, ACCESS REQUIREMENTS, AND DETAILS BASED UPON THE ACTUAL EQUIPMENT PROCURED. SHOP DRAWINGS SHALL BE FULLY COORDINATE WITH OTHER TRADES INCLUDING BUT NOT LIMITED TO ARCHITECTURAL, CIVIL, STRUCTURAL, ELECTRICAL, MECHANICAL, FIRE PROTECTION AND SEISMIC PRIOR TO SUBMITTAL. WORK SHALL NOT COMMENCE UNTIL SHOP DRAWINGS HAVE BEEN FULLY REVIEWED AND APPROVED. MAINTAIN AN UP TO DATE SET OF AS-BUILT DRAWINGS AT THE JOB SITE.
- 2. NO PLUMBING SHALL BE INSTALLED UNTIL ALL REQUIRED PLUMBING PLAN CHECK PERMITS AND APPROVALS HAVE BEEN OBTAINED FROM ALL REQUIRED AGENCIES.
- 3. LAVATORY FAUCETS, SINK FAUCETS (NOT INCLUDING SERVICE SINK FAUCETS OR FAUCETS DESIGNATED AS INSTITUTIONAL) SHALL MEET THE FLOW REQUIREMENTS OUTLINED IN THE APPLIANCE EFFICIENCY STANDARDS.
- COORDINATE WITH THE ARCHITECTURAL DRAWINGS FOR EXACT LOCATION OF PLUMBING FIXTURES AND DRAINS.
- 5. PROVIDE ALL TAILPIECES, TRAPS, STOPS, SUPPLY PIPES TO LAVATORIES DESIGNED AS ACCESSIBLE, WITH PREFORMED INSULATION JACKET.
- 6. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CUTTING AND PATCHING OF WALLS, ROOFS, FOOTINGS, FLOORS, INCLUDING ALL SAW CUTTING AND CORE DRILLING. COORDINATE ALL SAW CUTTING AND CORE DRILLING WITH STRUCTURAL DRAWINGS. ANY CUTTING AND DRILLING REQUIRED OF STRUCTURAL ELEMENTS THAT IS NOT SPECIFICALLY SHOWN ON THE PLANS SHALL BE BROUGHT TO THE ARCHITECTS ATTENTION PRIOR TO CUTTING AND DRILLING. CONTRACTOR SHALL SUBMIT PROPOSED LOCATION AND SIZES OF SUCH CUTTING AND DRILLING FOR THE ARCHITECTS AND STRUCTURAL ENGINEERS APPROVAL.
- COORDINATE ALL EQUIPMENT LOCATIONS, PIPE PENETRATIONS AND EQUIPMENT PAD LOCATIONS WITH STRUCTURAL DRAWINGS PRIOR TO WORK.
- COORDINATE INSTALLATION OF ALL EQUIPMENT AND PIPING WITH OTHER TRADES PRIOR TO INSTALLATION. ENSURE THAT ALL CONTROL DEVICES, SHUT-OFF VALVES, ETC. ARE ACCESSIBLE FOR MAINTENANCE. WHERE ACCESS PANELS IN FINISHED SPACES, OTHER THAN THAT SHOWN, CONTRACTOR SHALL PROVIDE AND COORDINATE EXACT LOCATION OF PANELS WITH ARCHITECT PRIOR TO INSTALLATION.
- ANY STRUCTURAL FIREPROOFING DAMAGED DURING INSTALLATION OF PLUMBING EQUIPMENT, PIPING, ETC. SHALL BE REPAIRED AT NO COST TO THE OWNER. REPAIRS SHALL BE AS DIRECTED BY THE ARCHITECT.
- 10. PROVIDE ESCUTCHEON PLATES AT ALL EXPOSED TO VIEW CEILING AND WALL PENETRATIONS.
- 11. CONFORM TO ALL APPLICABLE LOCAL, STATE, FEDERAL AND HEALTH AUTHORITY CODES.
- 12. CROSS CONNECTION PROTECTION SHALL BE PROVIDED AT ALL POTABLE WATER SUPPLIED APPLIANCES AND EQUIPMENT (OTHER THAN THOSE LISTED IN INFORMATION BULLETIN 103).
- 13. THE CONTRACTOR SHALL COORDINATE ALL DIMENSIONS, SERVICES AND CLEARANCES PRIOR TO START OF WORK.
- 14. PROVIDE WATER HAMMER ARRESTORS TO ABSORB HIGH PRESSURES RESULTING FROM QUICK ACTING VALVES (SECTION 609.10 CPC)

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PLUMBING GENERAL NOTES

### PLUMBING FACILITIES

PER CPC TABLE A GROUP B OCCUPANT LOAD FACTOR = 200 S.F. B OCCUPANY AT LEVEL: 3,610 SF OCCUPANTS: 19

MAX STAFF PER DAY - 10 OCCUPANTS

TOTAL = 19 +10 = 29 OCCUPANTS

15 MALE + 15 FEMALE

PER CPC TABLE 422.1 I-2 INSTITUTIONAL OCCUPANCY EMPLOYEE USE, WATER CLOSETS REQUIRED: 1 MALE + 1 FEMALE

TABLE 4-2 - MINIMUM PLUMBING FIXTURES											
SPACE	HANDWASHING FIXTURE	SCRUB SINKS	TOILET	BATHTUBS OR SHOWERS	SERVICE SINKS	CLINIC SINKS	PROVIDED				
RADIOLOGICAL/IMAGING SERVICES SPACE	1	-	1	-	-	-	PATIENT RESTROOM 105: WATER CLOSET, LAVATORY. OUTPATIENT HOLDING 106: ACCESSIBLE SINK				
WAITING AREA/ROOM	1	-	1	-	-		(E)MALE TOILET 369: (2)EXISITING WATER CLOSETS, (3)EXISTING URINALS, (3)EXISTING LAVATORIES, (1)LAVATORY. (E)FEMALE TOILET 373: (4)EXISTING WATER CLOSETS, (3)EXISTING LAVATORIES.				
(E) STAFF TOILET - MALE	1	-	1:1-15	-	<del>-</del>	-	(E)STAFF TOILET: (2)EXISTING WATER CLOSETS, (1)URINAL, (3)EXISTING LAVATORIES.				
(E) STAFF TOILET - FEMALE	1	-	1: 1-15	-	-	-	(E)STAFF TOILET: (3)EXISTING WATER CLOSETS (3)EXISTING LAVATORIES.				

- EXISTING CONDITIONS ARE BASED UPON INFORMATION OBTAINED FROM AVAILABLE AS-BUILT DRAWINGS AND LIMITED NON-DESTRUCTIVE FIELD INVESTIGATIONS. PERFORM A FULL SITE SURVEY WITHIN 30 DAYS OF COMMENCEMENT OF WORK. SURVEY SHALL BE ALL INCLUSIVE OF ALL AREAS WITHIN THE SCOPE OF WORK AND BEYOND AS REQUIRED FOR A COMPLETE AND OPERATIONAL SYSTEM. NOTIFY OWNER IF CONDITIONS THAT DIFFER FROM DESIGN ARE IDENTIFIED THAT WILL IMPACT THE PROJECT.
- UTILITY SERVICES TO THE BUILDING SHALL NOT BE INTERRUPTED UNLESS APPROVED BY THE OWNER. PROVIDE MINIMUM 2 WEEK NOTIFICATION IN ADVANCE OF UTILITY OUTAGES.

### **KEY NOTES**

ACCOMMODATE MRI SHIELDING.

DEMOLISH SANITARY PIPING AS REQUIRED TO

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STRUCTURAL:

MECHANICAL

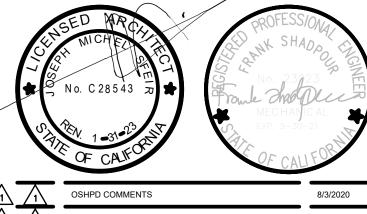
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DESIGN CHANGES OSHPD COMMENTS DESIGN CHANGES

ACD 0001 DESIGN CHANGES

Shadpour Consulting Engineers, Inc.

OSHPD #: S200813-37-00-ACD0001

**KEY PLAN** 

NORTH

PLUMBING DEMOLITION PLAN - AREA A

P2-01

1 PLUMBING DEMOLITION PLAN - AREA A

3/4" CW-

3/4" HW

2" CW-

--2" SD

DOCTORS

٧---

-3/4" CW

3/4" HW

3/4" HW

3/4" HWR

—3/4" CW

3/4" HW

-3/4" CW

3/4" HW

√4" OSD

2" CW-

1" HW

3/4"HWR R

−4" SD

1-1/9

2" W UP

FILM STORAGE

∕ 6" SD

_4" OSD

**1** 2" W UP

4" W UP-

2" CW -

1" HW

8

3/4" HWR

2" CW -

(E)O -(E)MV

_2" W

-(R8)

1-1/4" HW

3/4" HWR

(E)O

_2" W UP

(E)MV

(E)MA

2" W UP-

2" W -

100% - CONSTRUCTION DOCUMENTS

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### **KEY NOTES**

- (E)2" WASTE UP.
- 2 REROUTE SANITARY PIPING AS REQUIRED TO ACCOMMODATE ADDITIONAL CEILING SPACE. PROVIDE NON-FERROUS PIPING FOR ALL PIPING BELOW RF ENCLOSURE.
- PROVIDE NON-FERROUS STORM DRAIN PIPING FOR PIPING BELOW RF ENCLOSURE.

**KEY PLAN** 

(4) PROVIDE DRIP PAN

### **)** |

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ELECTRICAL:

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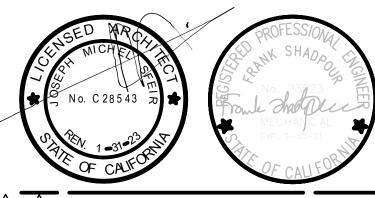
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10/2/2020 11/24/2020 11/24/2020 4/14/2021

OSHPD COMMENTS

DESIGN CHANGES

OSHPD COMMENTS

OSHPD COMMENTS

OSHPD COMMENTS

DESIGN CHANGES

ACD 0001 DESIGN CHANGES

Shadpour Consulting Engineers, Inc.

OSHPD APPROVAL STAMP:

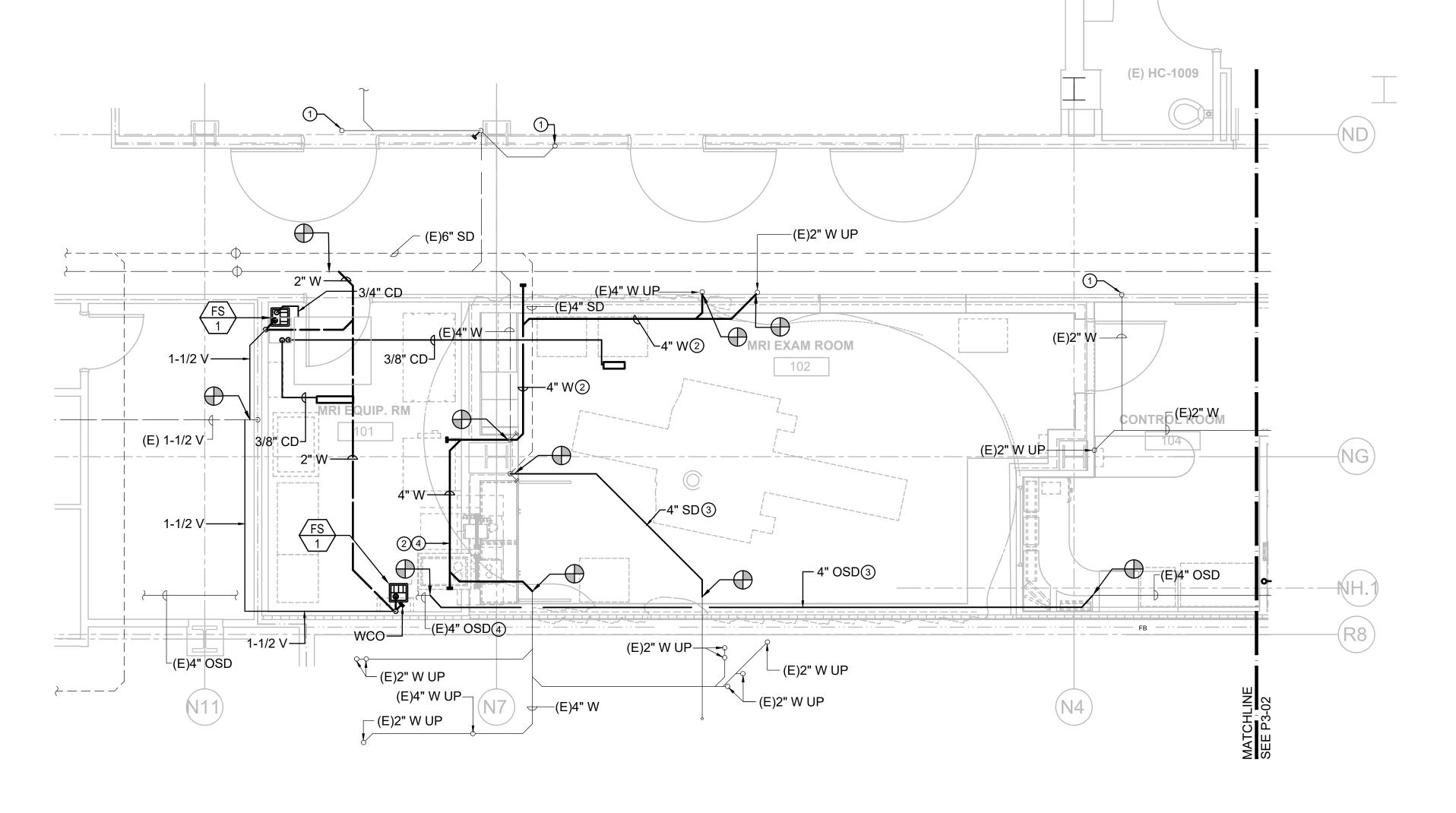
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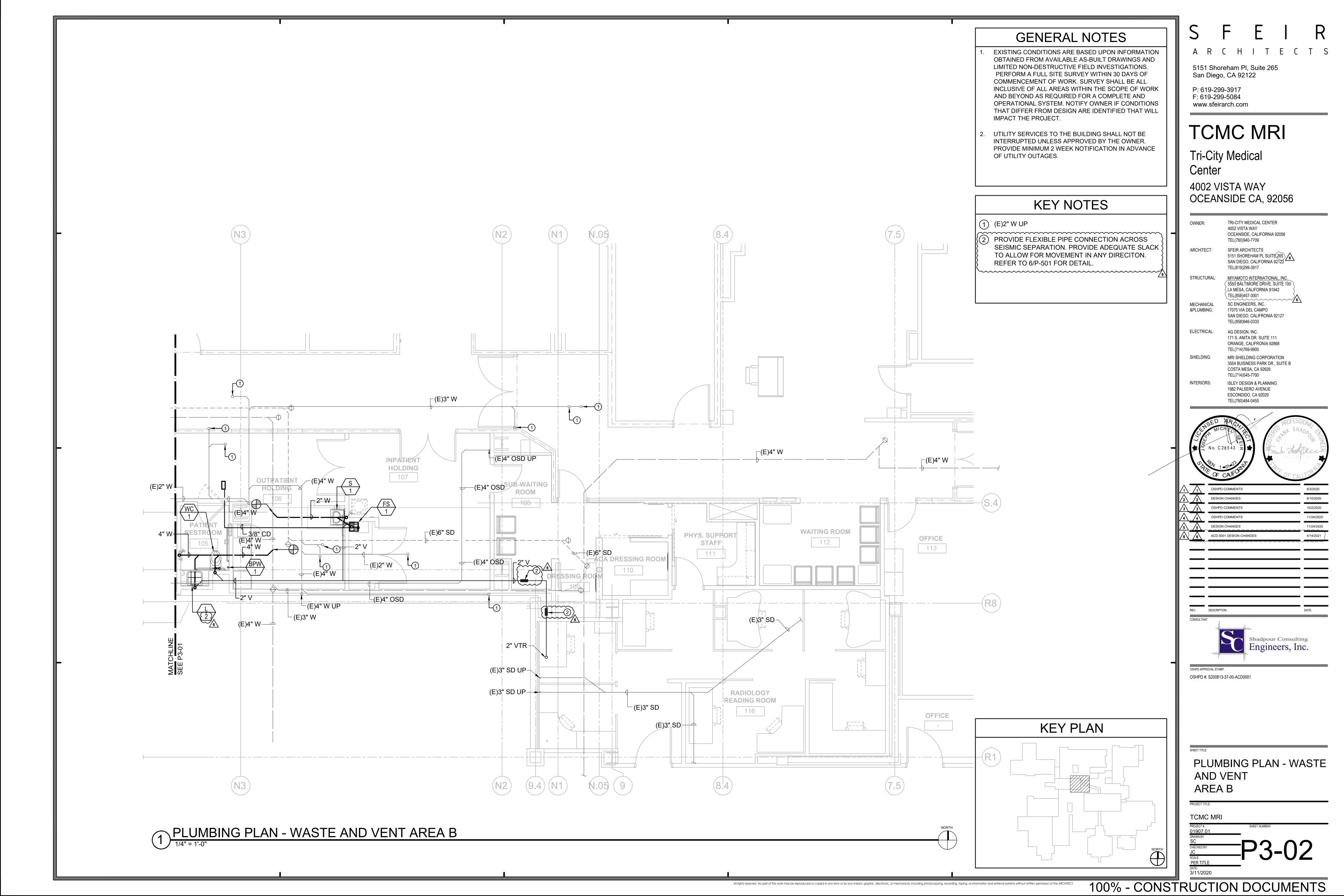
NORTH

PLUMBING PLAN - WASTE AND VENT AREA A

TCMC MRI

SHEET NUMBER:
07.01
N BY:
P3-01
ITITLE





- LIMITED NON-DESTRUCTIVE FIELD INVESTIGATIONS. PERFORM A FULL SITE SURVEY WITHIN 30 DAYS OF COMMENCEMENT OF WORK. SURVEY SHALL BE ALL AND BEYOND AS REQUIRED FOR A COMPLETE AND IMPACT THE PROJECT.

### **KEY NOTES**

- 3 PROVIDE DRIP PAN.
- (4) PROVIDE 1/2" TP LINE TO TRAP PRIMER INLET CONNECTION AT FLOOR SINK. REFER TO 3/P5-01 FOR

- EXISTING CONDITIONS ARE BASED UPON INFORMATION OBTAINED FROM AVAILABLE AS-BUILT DRAWINGS AND INCLUSIVE OF ALL AREAS WITHIN THE SCOPE OF WORK OPERATIONAL SYSTEM. NOTIFY OWNER IF CONDITIONS THAT DIFFER FROM DESIGN ARE IDENTIFIED THAT WILL
- UTILITY SERVICES TO THE BUILDING SHALL NOT BE INTERRUPTED UNLESS APPROVED BY THE OWNER. PROVIDE MINIMUM 2 WEEK NOTIFICATION IN ADVANCE OF UTILITY OUTAGES.

- 1) PROVIDE 1/2" ICW TO HUMIDIFIERS H-1 & H-2.
- 2 PROVIDE CONNECTION TO MANUAL WATER BACKUP SYSTEM.
- DETAILS.
- (5) PROVIDE MAKE-UP WATER TO GE CHW LOOP.

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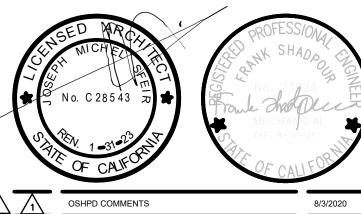
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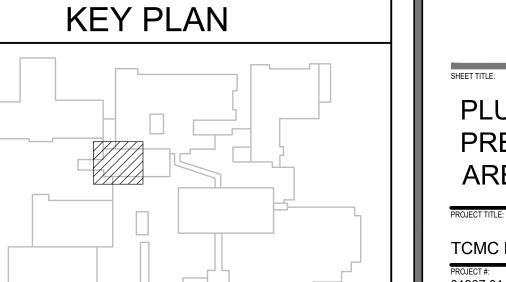


DESIGN CHANGES OSHPD COMMENTS

DESIGN CHANGES ACD 0001 DESIGN CHANGES

Shadpour Consulting Engineers, Inc.

OSHPD #: S200813-37-00-ACD0001



PLUMBING PLAN -PRESSURE PIPING AREA A

1 PLUMBING PLAN - PRESSURE PIPING AREA A

(E) HC-1009

(E)1-1/4"MV (E)3/4" MA-

(E)3/4" O

(E)1-1/4"MV—

(E)3/4" MA

(E)3/4" O

-(ND)

-NG

-(R8)

(E)3/4" CW

—(E)3/4" HW

(E)3/4" CW

(E)3/4" HW

MRI EXAM ROOM

(E)2" CW-

(E)1" HW

(E)3/4" HWR

_ (E)3/4" CW-

(E)3/4" HW

(E)2" CW-

(E)3/4" HW

(E)3/4" CW -

(E)3/4" HW

----1" CW

4 (TP)

MRI EQUIP. RM

101

3/4" ICW

(E)3/4" HWR

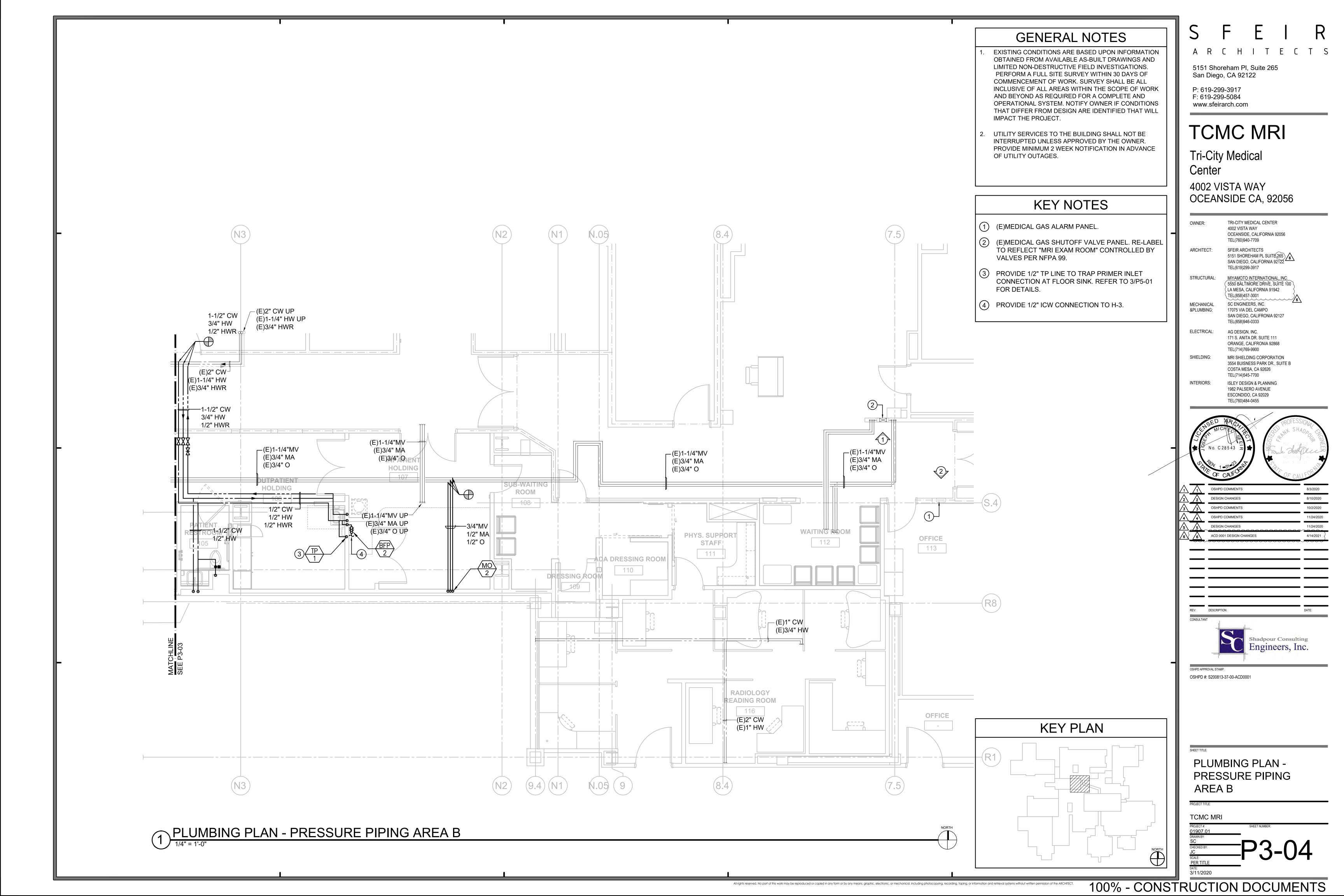
(E)2" CW-

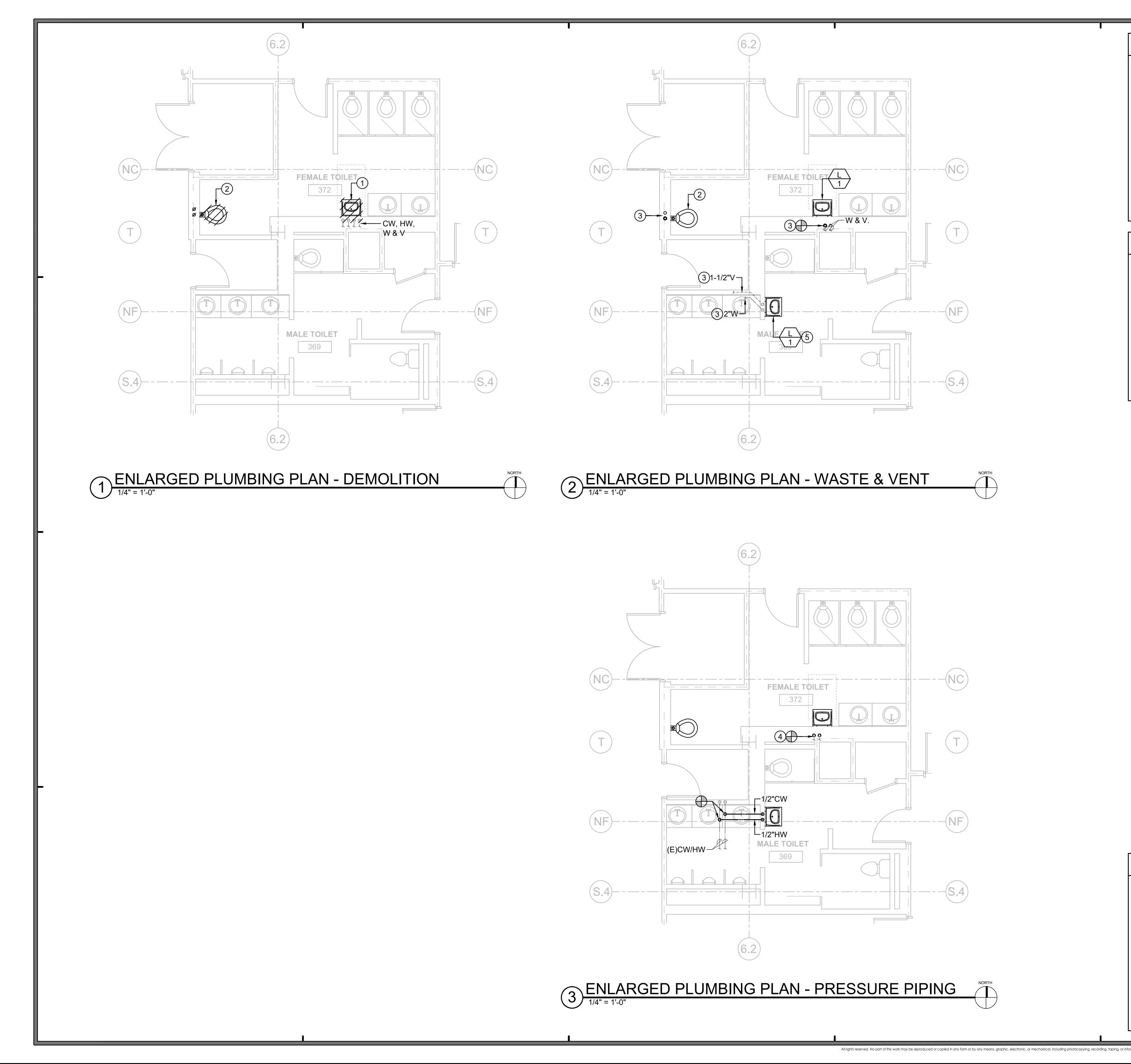
(Ę)1" HW

3/4"MV -1/2" MA 1/2" O

(E)3/4" HWR

NORTH





- EXISTING CONDITIONS ARE BASED UPON INFORMATION OBTAINED FROM AVAILABLE AS-BUILT DRAWINGS AND LIMITED NON-DESTRUCTIVE FIELD INVESTIGATIONS. PERFORM A FULL SITE SURVEY WITHIN 30 DAYS OF COMMENCEMENT OF WORK. SURVEY SHALL BE ALL INCLUSIVE OF ALL AREAS WITHIN THE SCOPE OF WORK AND BEYOND AS REQUIRED FOR A COMPLETE AND OPERATIONAL SYSTEM. NOTIFY OWNER IF CONDITIONS THAT DIFFER FROM DESIGN ARE IDENTIFIED THAT WILL IMPACT THE PROJECT.
- UTILITY SERVICES TO THE BUILDING SHALL NOT BE INTERRUPTED UNLESS APPROVED BY THE OWNER. PROVIDE MINIMUM 2 WEEK NOTIFICATION IN ADVANCE OF UTILITY OUTAGES.

### **KEY NOTES**

- 1) DEMOLISH LAVATORY.
- 2 RELOCATE WATER CLOSET AND CARRIER TO MEET ADA REQUIREMENTS. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATION.
- 3 PROVIDE CONNECTION TO (E)WASTE & (E)VENT.
- 4) PROVIDE CONNECTION TO (E)1/2"CW & (E)1/2"HW.
- 5 PROVIDE 1-1/2"V & 2"W CONNECTION TO ADJACENT LAVATORY. CONTRACTOR SHALL FIELD VERIFY EXACT LOCATION.

**KEY PLAN** 

### $\neg$ $\blacksquare$ $\mathsf{S}$

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OSHPD COMMENTS

DESIGN CHANGES

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ACD 0001 DESIGN CHANGES

11/24/2020
11/24/2020
4/14/2021

SCRIPTION:



OSHPD APPROVAL STAMP:

OSHPD #: S200813-37-00-ACD0001

ENLARGED PLUMBING PLANS

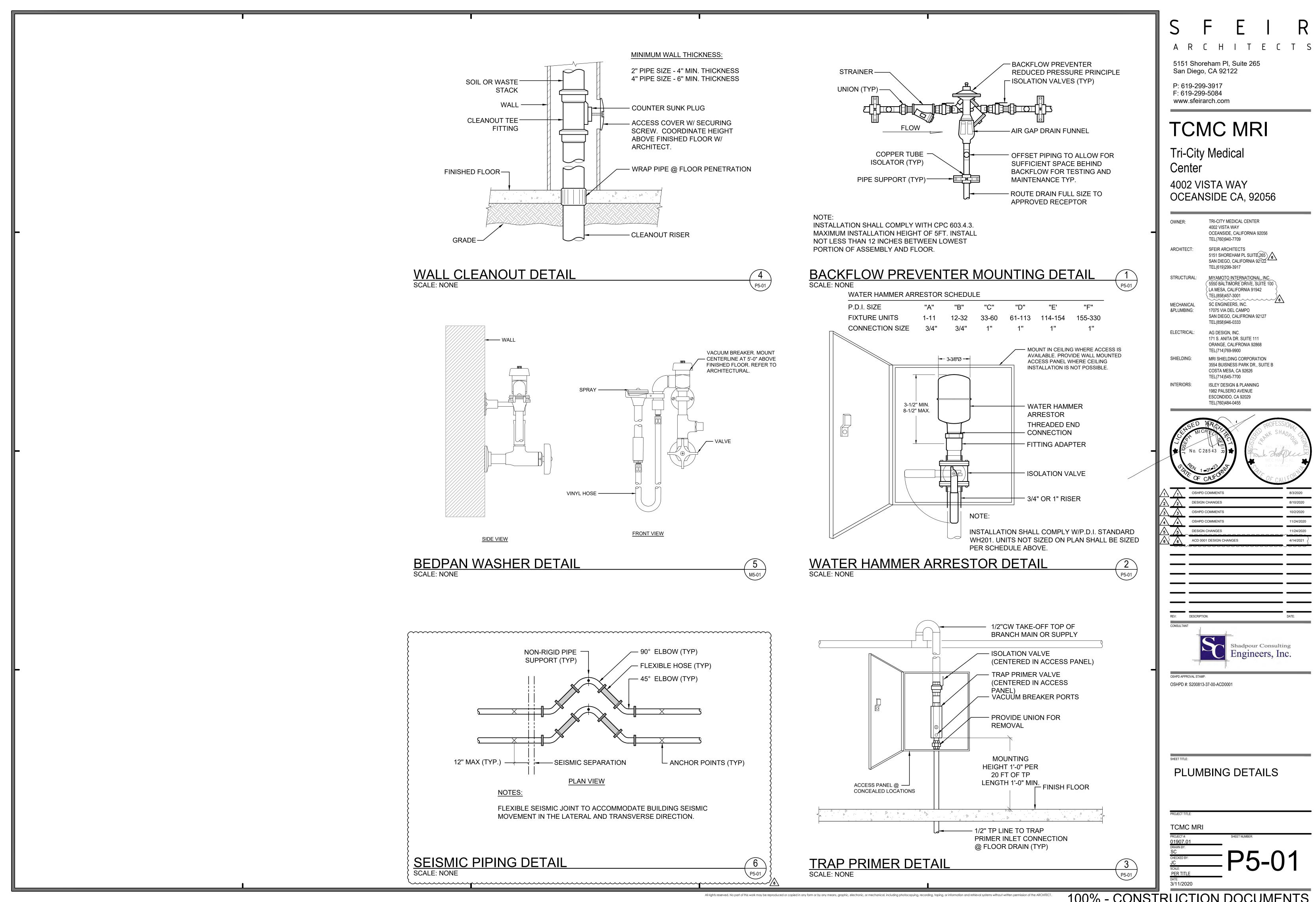
PROJECT TITLE:

TCMC MRI

PROJECT #:
01907 01

T#: SHEET NUMBER: 7.01
BY: P4-0

NORTH



#### PLUMBING FIXTURE SCHEDULE ROUGH-IN SYMBOL **FIXTURE** REMARKS HW TRAP GPM/GPF CW W WALL MOUNTED, BACK OUTLET, WHITE VITREOUS, MANUAL FLUSH VALVE, OFFSET BED PAN WASHER / LUGS, INSTALL ADA HEIGHT WATER CLOSET NA 1-1/4" 4" INT. (L) 1-1/2" 1-1/2" 1/2" 1/2" WALL MOUNTED, WHITE VITREOUS CHINA, 4" CENTERSET MANUAL FAUCET, GOOSENECK SPOUT, ADA HEIGHT LAVATORY LAVATORY 1/2" 1/2" 1-1/2" 1-1/2" COUNTER MOUNTED, WHITE VITREOUS CHINA, SELF RIMMING BOWL. 4" CENTERSET MANUAL FAUCET, GOOSENECK SPOUT FS FLOOR SINK 2" 1-1/2" NA NA 1-1/2" 12"x12" SQ x 6" DEEP CAST IRON WITH PARTIAL GRATE FOR DISCHARGE PIPING. PROVIDE WITH TRAP PRIMER CONNECTION WHERE INDICATED ON PLANS. 1/2" 1/2" 1-1/2" 1-1/2" WALL MOUNTED, 18 GAUGE STAINLESS STEEL SINK 2-HOLE SINK, DECK FAUCET GOOSENECK WITH DUAL WRIST BLADE HANDLES SINK 1.5 BPW 1 NA 1/2" NA NA NA BED PAN WASHER WITH INTEGRAL VACUUM BREAKER, ANGLE KEY STOPS, WALL MOUNTED SHUT-OFF VALVE, 5' HOSE AND SPRAY HEAD BED PAN WASHER 1. PLUMBING FIXTURES AND FITTINGS SHALL MEET STANDARDS REFERENCED IN CPC TABLE 5.303.6 2. FAUCETS FOR LAVATORIES AND SINKS SHALL NOT BE EQUIPPED WITH AERATORS (CPC 402.7)

PLU	PLUMBING EQUIPMENT SCHEDULE								
SYMBOL	DESCRIPTION DESCRIPTION								
TP 1	TRAP PRIMER	ASME 1018, 125 PSIG MIN. PRESSURE RATING							
BFP 1	BACKFLOW PREVENTER	HORIZONTAL INTERIOR MOUNTED DOMESTIC WATER BACKFLOW PREVENTER. 5 PSIG MAX PRESSURE DROP @ 2.6 GPM. PROVIDE FLOOR SINK DRAIN CONNECTION.							
BFP 2	BACKFLOW PREVENTER	HORIZONTAL INTERIOR MOUNTED DOMESTIC WATER BACKFLOW PREVENTER. 5 PSIG MAX PRESSURE DROP @ 0.5 GPM. PROVIDE FLOOR SINK DRAIN CONNECTION.							

	MED	ICAL GAS OU	ITLET SCHEDULE		
┢	SYMBOL	LOCATION	TYPE	REMARKS	-
	MO 1	MRI EXAM ROOM	AMICO WALL OUTLET	PROVIDE ONE OUTLET FOR MEDICAL AIR, MEDICAL VACUUM AND OXYGEN. SIZE PER FLOOR PLAN	
	MO 2	TRANSFER ROOM	AMICO WALL OUTLET	PROVIDE ONE OUTLET FOR MEDICAL AIR, MEDICAL VACUUM AND OXYGEN. SIZE PER FLOOR PLAN	

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1	OSHPD COMMENTS	8/3
2	DESIGN CHANGES	8/1
3	OSHPD COMMENTS	10
4	OSHPD COMMENTS	11.
5	DESIGN CHANGES	11.
6	ACD 0001 DESIGN CHANGES	4/1

DESCRIPTION:



OSHPD #: S200813-37-00-ACD0001

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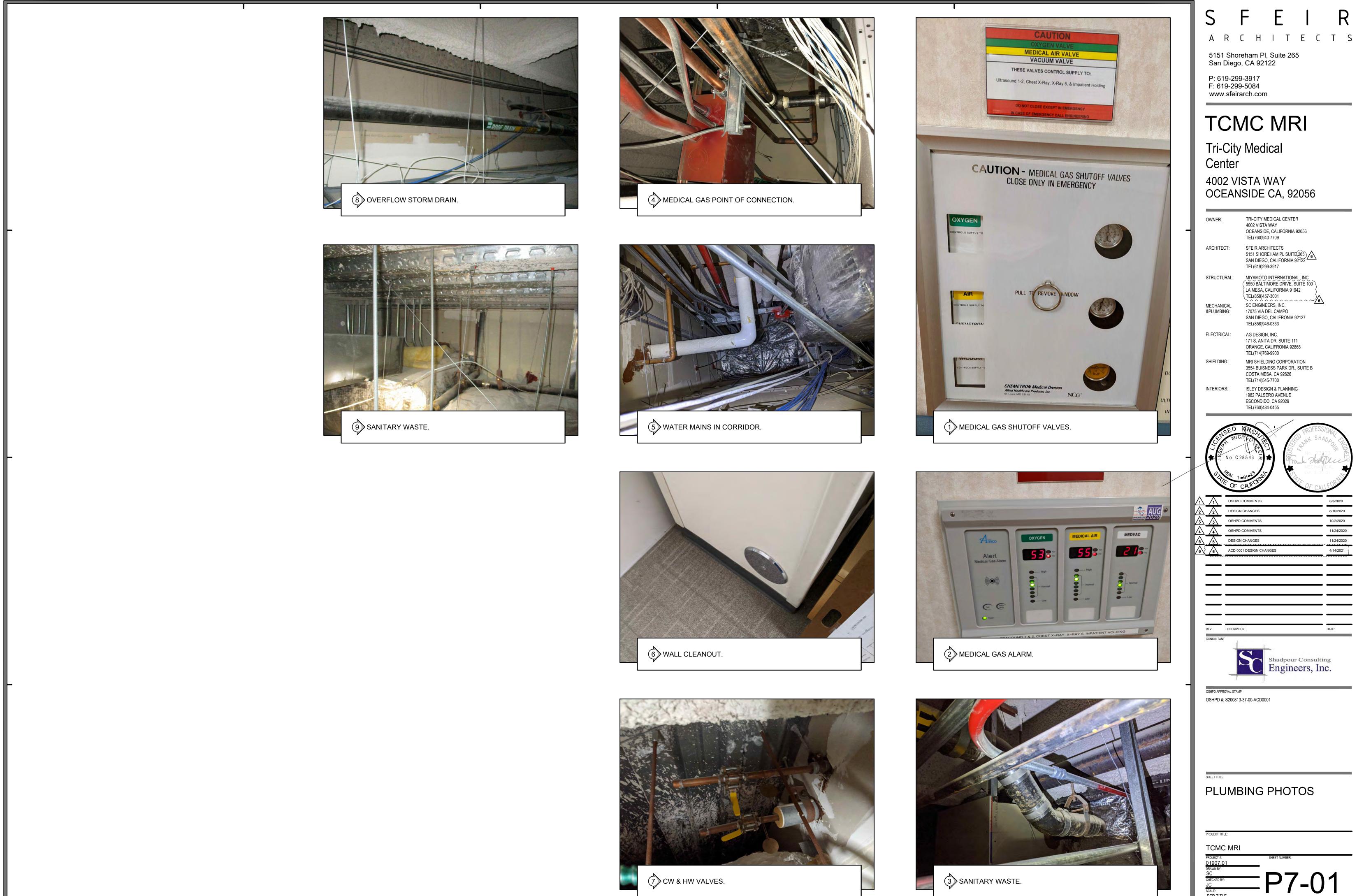
PLUMBING SCHEDULES

PROJECT TITLE:

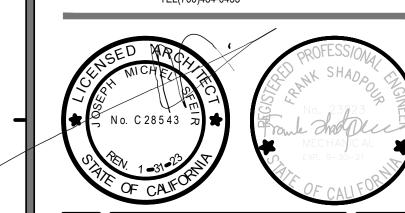
TCMC MRI

PROJECT #:

=P6-0



100% - CONSTRUCTION DOCUMENTS



- 33. ELECTRICAL DRAWINGS ARE DIAGRAMMATIC. AS SUCH, ALL ELECTRICAL EQUIPMENT LOCATIONS, CONDUIT ROUTING, ETC. ARE NOT PRECISE AND SHALL BE COORDINATED, VERIFIED, AND DETERMINED IN THE FIELD. EC TO INSTALL ALL ELECTRICAL EQUIPMENT AND ROUTE ALL CONDUITS IN LOCATIONS WHICH MEET CODE REQUIREMENTS FOR ACCESSIBILITY/MOUNTING AND DO NOT INTERFERE WITH ANY BUILDING STRUCTURES, UTILITIES, OR OTHER TRADE EQUIPMENT.
- 34. ALL EXISTING SITE RELATED ELECTRICAL EQUIPMENT (I.E. UNDERGROUND UTILITIES, DUCTS, STRUCTURES, PULL BOXES, ETC.) LOCATIONS ARE DIAGRAMMATIC IN NATURE AND ONLY REFLECT APPROXIMATE LOCATIONS, QUANTITIES, AND/OR ROUTING INFORMATION. ALL REFERENCED INFORMATION HAS EITHER BEEN SURVEYED, REPORTED BY THE OWNER/ OWNERS REP, AND/OR REFERENCED ON AN AS-BUILT RECORD DOCUMENTS. ALL EXISTING ELECTRICAL EQUIPMENT REFERENCE D ON THESE DRAWINGS IS TO BE FIELD VERIFIED BY THE CONTRACTOR PRIOR TO COMMENCEMENT OF WORK, BY ACCEPTING THESE PLANS OR PROCEEDING WITH ELECTRICAL SCOPE OF WORK, AGREES TO ACCEPT LIABILITY AND SHALL RENDER THE ENGINEER OF RECORD HARMLESS FOR ANY ELECTRICAL EQUIPMENT NOT REPORTED TO THE ENGINEER DURING THE DESIGN PROCESS. THE CONTRACT TO TAKE THE REQUIRED PRECAUTIONARY MEASURES TO ENSURE ALL EXISTING ELECTRICAL EQUIPMENT IS PROTECTED IN PLACE.
- 35. ANY EXISTING BUILDING STRUCTURES OR SURFACES DAMAGED BY DEMOLITION OR DURING INSTALLATION ACTIVITIES SHALL BE REPAIRED, PATCHED, AND/OR REFINISHED TO THE SATISFACTION OF THE OWNER.
- REMOVED ENTIRELY AND ALL AFFECTED SURFACES OR STRUCTURES SHALL BE REPAIRED, REPLACED, AND/OR REFINISHED TO MATCH THE ADJACENT SURFACES OR DAMAGED ITEM(S)

36. ALL EXISTING ELECTRICAL EQUIPMENT INDICATED TO BE DEMOLISHED SHALL BE

- 37. FOR CLARITY ONLY RECONSTRUCTION OR NEW WORK RELATED ELEMENTS AND SELECT EXISTING FACILITIES SPECIFICALLY REQUIRING COORDINATION WITH ANY NEW WORK.
- 38. ALL CONDUITS, BOXES, SURFACE MOUNTED RACEWAYS, SUPPORT DEVICES, AND ASSOCIATED FITTINGS SHALL BE MOUNTED IN CONCEALED LOCATIONS ABOVE CEILINGS, DUCTS, TRUSSES, BEAMS, ETC. IN AREAS WHERE A CONCEALED MOUNTING LOCATION IS NOT AVAILABLE EQUIPMENT SHALL BE PAINTED TO MATCH THE ADJACENT SURFACES.
- 39. PENETRATIONS BY CONDUITS OR OTHER ELECTRICAL EQUIPMENT THROUGH A FIRE RATED WALL - WHETHER EXISTING OR NEW - SHALL MAINTAIN THE APPROPRIATE FIRE RATING BY SEALING THE PENETRATION WITH THE APPROPRIATE UL-LISTED FIRE-STOP MATERIAL/SYSTEM
- 40. INTENT OF THE CONSTRUCTION DOCUMENTS IS TO RECONSTRUCT THE HOSPITAL BUILDING IN ACCORDANCE WITH THE 2019 CBSC. SHOULD ANY CONDITION DEVELOP NOT COVERED BY THE APPROVED CONSTRUCTION DOCUMENTS, WHEREIN THE FINISHED WORK WILL NOT COMPLY WITH THE 2019 CBSC, AMENDED CONSTRUCTION DOCUMENTS (ACDs) DETAILING AND SPECIFYING THE REQUIRED WORK SHALL BE SUBMITTED TO AND APPROVED BY OSHPD BEFORE PROCEEDING WITH THE WORK.

#### PIPING, DUCTWORK AND ELEC. DIST. SYSTEM BRACING NOTE

PIPING, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEMS SHALL BE BRACED TO COMPLY WITH THE FORCES AND DISPLACEMENTS PRESCRIBED IN ASCE 7-16 PER OSHPD CAN 1-0 AND 2019 CBC, SECTIONS 1617A.

THE METHOD OF SHOWING BRACING AND ATTACHMENTS TO THE STRUCTURE FOR THE IDENTIFIED DISTRIBUTION SYSTEM ARE AS NOTED BELOW. WHEN BRACING AND ATTACHMENTS ARE BASED ON A PRE-APPROVED INSTALLATION GUIDE (E.G. OSHPD OPM), COPIES OF THE BRACING SYSTEM INSTALLATION GUIDE OR MANUAL SHALL BE AVAILABLE ON THE JOBSITE PRIOR TO THE START OF AND DURING THE HANGING AND BRACING OF THE DISTRIBUTION SYSTEMS. THE STRUCTURAL ENGINEER OF RECORD SHALL VERIFY THE ADEQUACY OF THE STRUCTURE TO SUPPORT THE HANGER AND BRACE LOADS.

MECHANICAL PIPING (MP, MECHANICAL DUCTS (MD), PLUMING PIPING (PP), ELECTRICAL DISTRIBUTION SYSTEMS (E):

MP MD PP E OPTION 1: DETAILED ON THE APPROVED DRAWINGS WITH PROJECT SPECIFIC NOTES AND DETAILS

MP ☐ MD ☐ PP ☐ E ☑ OPTION 2: SHALL COMPLY WITH THE APPLICABLE OSHPD PRE-APPROVAL (OPM #) #0043-13 or 0052-13

ALL LOW VOLTAGE CONDUIT FOR MECHANICAL CONTROLS PROVIDED AND INSTALLED BY ELECTRICAL CONTRACTOR. SEE MECHANICAL DRAWINGS FOR LOCATIONS.

### CONDUIT GRAVITY SUPPORT AND SEISMIC BRACING NOTES FOR DEFERRED SUBMITTALS

- SUPPORT AND BRACING FOR CONDUIT INSTALLED WITH THIS SCOPE OF SERVICES IS TO BE PROVIDED AND INSTALLED PER OPM-0043-13 MASON SEISMIC RESTRAINT COMPONENTS FOR SUSPENDED UTILITIES OR OTHER
- LAYOUT DRAWINGS IDENTIFYING/DEMONSTRATING THE BRACING/SUPPORT LOCATIONS AND REFERENCES TO DETAILS FROM THE RELEVANT OSHPD PRE-APPROVALS ARE TO BE SUBMITTED FOR USE BY THE INSPECTOR OF RECORD AND OSHPD FIELD STAFF. THE LAYOUT DRAWINGS ARE TO BE PREPARED BY THE SUBCONTRACTOR AND SIGNED BY A LICENSED STRUCTURAL ENGINEER PER ASCE 7 CHAPTER 16/OSHPD CAN 1-0 AS MODIFIED BY 2019 CBC SECTIONS 1617A. REFERENCES TO DETAILS FROM THE OSHPD PRE-APPRVAL ARE TO BE FOR AN ENTIRE DETAIL AS SUBMITTED OR REFERENCE IS TO BE PREPARED FOR EACH ASPECT OF A SUBMITTED DETAIL, CUSTOM DETAILS ARE TO BE PROVIDED FOR SITUATIONS WHERE OSHPD PRE-APPROVALS DO NOT APPLY. AT LEAST 4-WEEKS PRIOR TO BEGINNING INSTALLATION FOUR COPIES OF THE PLANS ARE TO BE SUBMITTED TO THE ARCHITECT OF RECORD WHO WILL SUBMIT THEM TO THE STRUCTURAL ENGINEER OF RECORD FOR REVIEW AND APPROVAL. AFTER THIS APPROVAL DRAWINGS WILL BE SUBMITTED TO THE OSHPD DISTRICT STRUCTURAL ENGINEER FOR REVIEW AND APPROVAL. THE PLANS SHALL BE COORDINATED WITH THE PLANS AND OTHER TRADES. A COPY OF THE CHOSEN BRACING SYSTEM INSTALLATION GUYED/MANUAL IS REQUIRED TO BE ON THE JOBSITE PRIOR TO THE START OF INSTALLATION.
- THE STRUCTURAL ENGINEER WILL DETERMINE THE APPROPRIATE SEISMIC FORCES BASED ON THE DESIGN CRITERIA INCLUDED IN THE STRUCTURAL DRAWINGS.
- ONCE THE LOCATIONS OF ALL CONDUIT HAVE BEEN ESTABLISHED, THE STRUCTURAL ENGINEER MUST CHECK THE ADEQUACY OF THE SUPPORTING STRUCTURE TO ENSURE THAT THE ORIGINAL DESIGN IS STILL ADEQUATE THE INSPECTOR OF RECORD IS TO ENSURE THAT ALL WORK IS PROPERLY INSTALLED PER THE APPLICABLE OSHPD PRE-APPROVAL

#### MISCELLANEOUS SYMBOLS

21_04-29_AGD Bid Set_ACD 0006_All Sheets

- ON/OFF WALL MOUNTED DIGITIAL SWITCH WITH RAISE/LOWER. MOUNT PER ADA DEVICE MOUNTING DETAIL U.O.N. LOWER CASE LETTER REFERS TO QUANTITY OF DEVICES AND REFERENCES CORRESPONDING FIXTURE SWITCH LEG(S). DEVICE TO BE nLIGHT #nPODM DX (COLOR PER ARCHITECT) OR APPROVED EQUAL DEVICE. REFER TO LIGHTING CONTROL WIRING DIAGRAM DETAIL 2 ON E0-02 FOR ADDITIONAL REQUIREMENTS.
- 2-CHANNEL ON/OFF WALL MOUNTED DIGITAL SWITCH WITH RAISE/LOWER. MOUNT PER ADA DEVICE MOUNTING DETAIL U.O.N. LOWER CASE LETTER REFERS TO QUANTITY OF DEVICES AND REFERENCES CORRESPONDING FIXTURE SWITCH LEG(S). DEVICE TO BE nLIGHT #nPODM 2P DX (COLOR PER ARCHITECT) OR APPROVED EQUAL DEVICE. REFER TO LIGHTING CONTROL WIRING DIAGRAM DETAIL 2 ON E0-02 FOR ADDITIONAL REQUIREMENTS.
- d4 D abcd 4-CHANNEL ON/OFF WALL MOUNTED DIGITAL SWITCH WITH RAISE/LOWER. MOUNT PER ADA DEVICE MOUNTING DETAIL U.O.N. LOWER CASE LETTER REFERS TO QUANTITY OF DEVICES AND REFERENCES CORRESPONDING FIXTURE SWITCH LEG(S). DEVICE TO BE nLIGHT #nPODM 4P DX (COLOR PER ARCHITECT) OR APPROVED EQUAL

DEVICE. REFER TO LIGHTING CONTROL WIRING DIAGRAM DETAIL 2 ON E0-02 FOR ADDITIONAL REQUIREMENTS.

- s4 D abcd 4-SCENE ON/OFF WALL MOUNTED DIGITAL SWITCH WITH RAISE/LOWER. MOUNT PER ADA DEVICE MOUNTING DETAIL U.O.N. LOWER CASE LETTER REFERS TO QUANTITY OF DEVICES AND REFERENCES CORRESPONDING FIXTURE SWITCH LEG(S). DEVICE TO BE ILIGHT #INPODM 4S DX (COLOR PER ARCHITECT) OR APPROVED EQUAL DEVICE. REFER TO LIGHTING CONTROL WIRING DIAGRAM DETAIL 2 ON E0-02 FOR ADDITIONAL REQUIREMENTS.
- WALL MOUNTED PASSIVE INFRARED OCCUPANCY SENSOR. MOUNT PER ADA DEVICE MOUNTING DETAIL. DEVICE TO BE WATTSTOPPER #DW-200 OR APPROVED EQUAL DEVICE.
- nLIGHT #nPP16 D ER SA RELAY PACK FOR VACANCY MODE CONTROL OF EMERGENCY LIGHTING DEVICE IS TO BE MOUNTED TO A 4S BOX ABOVE THE CEILING IN AN ACCESSIBLE LOCATION AND INTERFACED WITH ROOM/SPACE OCCUPANCY SENSOR(S) AND DIGITAL SWITCH DEVICES. OWER CASE LETTER REFERS TO QUANTITY OF DEVICES AND REFERENCES CORRESPONDING FIXTURE SWITCH LEG(S). REFER TO LIGHTING CONTROL WIRING DIAGRAM DETAIL 2 ON E0-02 FOR ADDITIONAL REQUIREMENTS.
- LC1 a nLIGHT #nPP16 D SA RELAY PACK FOR CONTROL OF NORMAL LIGHTING DEVICE IS TO BE MOUNTED TO A 4S BOX ABOVE THE CEILING IN AN ACCESSIBLE LOCATION AND INTERFACED WITH ROOM/SPACE OCCUPANCY SENSOR(S) AND DIGITAL SWITCH DEVICES. OWER CASE LETTER REFERS TO QUANTITY OF DEVICES AND REFERENCES CORRESPONDING FIXTURE SWITCH LEG(S). REFER TO LIGHTING CONTROL WIRING DIAGRAM DETAIL 2 ON E0-02 FOR ADDITIONAL REQUIREMENTS.
- NOTE: ALL LIFE SAFETY AND CRITICAL FEEDER/BRANCH CIRCUITS WILL NEED TO BE MECHANICALLY PROTECTED TO COMPLY WITH CEC 517.30(C)(3).

- 1. THE ELECTRICAL CONTRACTOR (EC) SHALL INCLUDE AND PROVIDE IN BID ALL LABOR AND MATERIALS NECESSARY FOR A COMPLETE AND OPERATIONAL INSTALLATION OF ALL ELECTRICAL SYSTEMS.
- EC SHALL COORDINATE AND OBTAIN ALL APPROVALS, PERMITS, AND DOCUMENTS FROM REGULATORY AGENCIES AND UTILITY COMPANIES.
- 3. ALL CONDUIT RACEWAY SYSTEMS ARE TO BE INSTALLED AS FOLLOWS: a. RIGID GALVANIZED STEEL IS TO BE INSTALLED IN ALL AREAS WHICH ARE EXPOSED TO WEATHER AND/OR PHYSICAL DAMAGE FLEXIBLE METALLIC CONDUIT I S PERMITTED FOR SHORT CONNECTIONS TO
  - IN WOODEN STUD WALLS. c. ELECTRICAL METALLIC TUBING (EMT) WITH COMPRESSION TYPE FITTINGS SHALL BE USED FOR BUILDING INTERIOR WORK.

LIGHT FIXTURES (6'-0" MAX). FLEXIBLE CONDUIT SHALL ALSO BE INSTALLED

FOR EQUIPMENT REQUIRING VIBRATION ISOLATION AND HORIZONTAL RUNS

- d. P.V.C. CONDUIT SHALL BE USED FOR UNDERGROUND CONDUITS. ROUTE CODE SIZED GROUND WIRE INSIDE OF CONDUIT. CONDUIT RISERS AND STUBS ABOVE GRADE SHALL BE I.M.C. WITH HALF-LAPPED TAPE COVERING OR P.V.C. COATING.
- 4. UNLESS OTHERWISE NOTED OR REFERENCED ON THE DRAWINGS ALL NEW ELECTRICAL WIRING IS TO BE 600V RATED COPPER WITH TYPE "THHN/THWN"
- 5. ALL MOUNTING HEIGHTS REFERENCED ON DRAWINGS ARE MEASURED FROM FINISHED FLOOR UNLESS OTHERWISE REFERENCED OR INDICATED ON THE DRAWINGS ALL ELECTRICAL EQUIPMENT LOCATIONS (LIGHTING, RECEPTACLE, FLOOR BOX,
- ETC.) ARE TO BE VERIFIED WITH THE ARCHITECT AND/OR EQUIPMENT SUPPLIER PRIOR TO BEGINNING ANY ROUGH-IN. ALL LIGHTING FIXTURES SHALL BE MOUNTED AND SUPPORTED IN ACCORDANCE WITH OSHA STANDARDS, AND ALL STATE, LOCAL, SEISMIC, AND NATIONAL
- ELECTRIC CODES. THE DRAWINGS INCLUDED IN THIS DOCUMENT SET ARE DIAGRAMMATIC. THEY ARE REPRESENTATIVE OF THE ENGINEER OF RECORDS DESIGN INTENT FOR ALL ELECTRICAL DEVICES/EQUIPMENT AND THE INDIVIDUAL POWER FEEDS THEY ARE TO BE CONNECTED TO. THE SELECTED EC SHALL BE RESPONSIBLE FOR PROVIDING ALL J-BOXES, CONDUIT, WIRING/CABLING, ETC. AS REQUIRED FOR A
- COMPLETE AND OPERATIONAL ELECTRICAL INSTALLATION. ALL ELECTRICAL EQUIPMENT (PANELS, RECEPTACLES, J-BOXES, ETC.) SHALL BE WEATHERPROOF AND/OR INSTALLED IN A NEMA 3R ENCLOSURE WHERE APPLICABLE OR INSTALLED OUTDOORS.
- 10. ALL ELECTRICAL WORK SHALL BE PERFORMED ACCORDING TO STATE, LOCAL. NATIONAL, AND DISTRICT STANDARDS AND CODES. COORDINATE SPECIFIC REQUIREMENTS WITH DISTRICT STANDARDS AND AUTHORITY HAVING JURISDICTION.
- 11. ALL ELECTRICAL EQUIPMENT SHALL BE NEW AND IS TO BE CLEARLY LABELED/ IDENTIFIED AS UNDERWRITER LABORATORIES (UL) COMPLIANT UNLESS OTHERWISE NOTED OR REFERENCED IN THE DRAWINGS OR SPECIFICATIONS. ANY EQUIPMENT WITH A LISTING OTHER THAN "UL" OR OTHER NATIONALLY RECOGNIZED TESTING LABORATORY (NRTL) LISTING AS REFERENCED IN CEC 110.2 (I.E. EQUIPMENT WITH A RECOGNIZED "UR/"RU" LISTING) ARE NOT PERMITTED FOR USE.
- EC IS RESPONSIBLE FOR SECURING ALL REQUIRED BUILDING PERMITS AND SHALL INCLUDE THE COST TO SECURE BUILDING PERMITS IN THEIR FINAL BID. UNLESS OTHERWISE WRITTEN, STATED, OR REFERENCED IN DRAWINGS OR SPECIFICATIONS CONTRACTOR SHALL GUARANTEE THE COMPLETE ELECTRICAL INSTALLATION FOR A PERIOD OF 1-YEAR
- ALL ELECTRICAL DISTRIBUTION EQUIPMENT (PANELS, DISTRIBUTION BOARDS, TRANSFORMERS, ETC), FEEDERS (CONDUIT, CONDUCTOR SIZE, AND QUANTITY), MECHANICAL EQUIPMENT, ELEVATORS, VARIABLE FREQUENCY DRIVES (VFD'S), ETC. MAY ONLY BE REFERENCED ON THE SINGLE-LINE DRAWING AND NOT INDIVIDUAL PLAN SHEETS. EC SHALL REVIEW AND VERIFY ALL REFERENCED INFORMATION ON THE SINGLE-LINE DRAWING.
- PATCHING, REFINISHING, ETC. AS REQUIRED FOR INSTALLATION OF ELECTRICAL EQUIPMENT AND SYSTEMS. ANY PENETRATIONS OR OPENINGS MADE IN WALLS OR STRUCTURES SHALL BE PATCHED AND/OR SEALED AS REQUIRED TO MAINTAIN THE INTEGRITY AND/OR RATING OF THE WALL OR STRUCTURE. EC SHALL VISIT THE SITE PRIOR TO SUBMISSION OF THEIR FINAL BID TO VERIFY ALL EXISTING SITE CONDITIONS WHICH MAY AFFECT THE COMPLETION OF THE ELECTRICAL INSTALLATION, ALL METHODS AND REQUIREMENTS FOR \ INSTALLATION SHALL BE DETERMINED PRIOR TO BID DATE. ELECTRICAL EC SHALL NOTIFY THE ENGINEER OF RECORD OF ANY REQUIRED MODIFICATIONS WHICH

EC SHALL BE RESPONSIBLE FOR ALL REQUIRED SAW-CUTTING, CORE DRILLING,

EC'S BID DEMONSTRATES THE CONTRACTOR'S AWARENESS OF ALL SITE CONDITIONS AND REQUIRED WORK TO BE PERFORMED. ALL CEILINGS AND CEILING SYSTEMS AS A RULE ARE CONSIDERED TO BE INACCESSIBLE. ALL ELECTRICAL DEVICES AND EQUIPMENT INSTALLED ABOVE CEILINGS ARE TO BE MOUNTED IN A LOCATION WHICH IS ACCESSIBLE. IN SITUATIONS WHERE ELECTRICAL DEVICES AND EQUIPMENT MUST BE INSTALLED IN AN AREA WHICH IS INACCESSIBLE, EC SHALL INSTALL AN ADEQUATELY SIZED. CODE COMPLIANT ACCESS PANEL AS REQUIRED BY CURRENT CODES -LOCATION OF THE REQUIRED ACCESS PANEL SHALL BE COORDINATE WITH THE

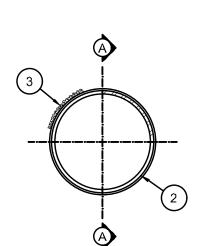
ARE NOT REFERENCED ON THESE ELECTRICAL PLANS. SUBMITTAL OF THE

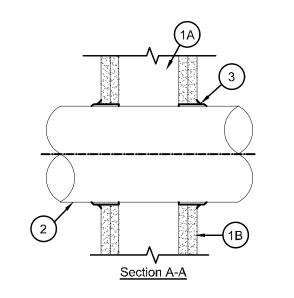
- ARCHITECT AND INTERIOR DESIGNER PRIOR TO ROUGH-IN. EC IS RESPONSIBLE FOR COMPLETING ALL FINAL ELECTRICAL CONNECTIONS TO OWNER FURNISHED EQUIPMENT AND SHALL PROVIDE ALL MOTOR START SWITCHES, DISCONNECTS, ETC. AS REQUIRED.
- ALL ELECTRICAL EQUIPMENT CONNECTIONS, MOUNTING LOCATIONS, ELECTRICAL REQUIREMENTS, ETC. ARE TO BE COORDINATED AND VERIFIED PRIOR TO COMMENCEMENT OF ELECTRICAL ROUGH-IN.
- EC TO SUBMIT SHOP DRAWINGS FOR THE APPROVAL OF THE ELECTRICAL ENGINEER OF RECORD FOR ALL ELECTRICAL EQUIPMENT AND MATERIALS TO BE UTILIZED IN THE ELECTRICAL INSTALLATION. ALL APPROVALS BY THE ENGINEER OF RECORD MUST BE SECURED PRIOR TO COMPLETION OF ANY PURCHASE ORDERS OR ROUGH-IN WORK
- THESE ELECTRICAL DRAWINGS AND ASSOCIATED SPECIFICATIONS ARE TO BE CONSIDERED CONTRACT DOCUMENTS FOR AGENCY REVIEW/APROVAL AND EC BIDDING PURPOSES
- THE COMPLETE ELECTRICAL SYSTEM SHALL BE GROUNDED IN ACCORDANCE WITH NEC/CEC ARTICLE 250. ALL POWER AND LIGHTING CIRCUITS SHALL BE INSTALLED WITH A MINIMUM #12AWG CU GROUND WIRE UNLESS OTHERWISE NOTED OR REFERENCED.
- EC TO PROVIDE ENGRAVED PHENOLIC NAMEPLATES ON ALL DISCONNECT SWITCHES, DISTRIBUTION EQUIPMENT, J-BOXES ETC. WITH METALLIC COVERS. SEE GENERAL NOTES ON SINGLE-LINE DIAGRAM FOR SPECIFIC INFORMATION REGARDING NAMEPLATE REQUIREMENTS.
- ALL COVER PLATES FOR LIGHT SWITCHES AND OUTLETS SHALL BE STAINLESS STEEL WITH PANEL AND CIRCUIT ENGRAVED NAMEPLATES - UNLESS OTHERWISE NOTED. PLASTIC COVER PLATES WITH THE APPROPRIATE COLOR SHALL BE PERMITTED IN ALL OTHER AREAS - UNLESS OTHERWISE NOTED. IN INSTANCES WHERE PLASTIC COVER PLATES ARE UTILIZED EC SHALL WALL MOUNT AN ENGRAVED PHENOLIC NAMEPLATE WITH THE PANEL AND CIRCUIT NUMBER DIRECTLY ABOVE THE DEVICE.
- AT THE COMPLETION OF THE PROJECT THE EC SHALL PROVIDE THE OWNER WITH A COMPLETE SET OF AS-BUILT ELECTRICAL DRAWINGS ANY AND ALL WORK THAT REQUIRES AN INTERRUPTION TO A BUILDING(S)
- ELECTRICAL SERVICE MUST BE COORDINATED WITH THE DISTRICT A MINIMUM OF 48 HOURS IN ADVANCE. ANY SERVICE DOWNTOWN SHALL NOT OCCUR DURING EC SHALL BE RESPONSIBLE FOR FOR ENSURING THAT ALL LOW VOLTAGE
- SYSTEMS ARE COMPATIBLE AND ARE COMPLETE AND OPERATIONAL. EC SHALL PERMANENTLY TAG ALL CONDUCTORS IN EACH ELECTRICAL AND LOW VOLTAGE SYSTEM AS REFERENCED IN THE SPECIFICATIONS.
- ANY SURFACE MOUNTED EXPOSED CONDUIT IN VIEW OF THE PUBLIC SHALL BE PAINTED TO MATCH THE FINISH OF THE SURFACE TO WHICH IT IS MOUNTED WITH TWO (2) COATS OF PAINT. ALL EXTERIOR SURFACE MOUNTED EXPOSED CONDUITS ARE TO BE PAINTED WITH TWO (2) COATS OF WEATHERPROOF LATEX
- EC TO PROVIDE ALL CONDUIT ONLY (C.O.) INFRASTRUCTURE WITH A 3/16" NYLON LL ROPE. LABEL PULL ROPE AT EACH END WITH THE LOCATIONS OF ORIGIN AND TERMINATION. IN INSTANCES WHERE A CONFLICT BETWEEN THE ELECTRICAL DRAWINGS AND
- THE SPECIFICATIONS FOR THE PROJECT EXISTS, THE EC SHALL ADHERE TO THE MORE STRINGENT REQUIREMENT SUPPORTS AND ATTACHMENTS OF ALL EQUIPMENT TO BE INSTALLED AS A PART OF THIS PROJECT SHALL BE DETAILED ON CONSTRUCTION DOCUMENTS, EXCEPT THOSE EXEMPTED BY THE 2019 CBC SECTION 1616A.1.18. EQUIPMENT SUPPORTS AND ATTACHMENTS SHALL BE APPROVED BY THE APPROPRIATE REGISTERED DESIGN PROFESSIONAL (RDP) AND OSHPD AS A PART OF FIELD REVIEWS/OBSERVATIONS. THE INSPECTOR OF RECORD (IOR) SHALL ASSURE

THAT THE ABOVE REQUIREMENTS ARE ENFORCED.

#### ADDDE\/IATIONS

ABBREVIATIONS										
4S/DP	4" SQUARE BY 2 1/8" DEEP BOX	LTG, LTS	LIGHTING							
ADA	AMERICAN WITH DISABILITIES ACT	LPS	LOW PRESSURE SODIUM							
A.F.F.	ABOVE FINISH FLOOR	MAX.	MAXIMUM							
A.F.G.	ABOVE FINISH GRADE	MDF	MAIN DISTRIBUTION FRAME							
AWG	AMERICAN WIRE GAUGE	MOCP	MAXIMUM OVERCURRENT PROTECTION							
AMP, A	AMPERE	MCB	MAIN CIRCUIT BREAKER							
A.I.C.	AMPERES INTERRUPTING CAPACITY	MLO	MAIN LUGS ONLY							
7	(SYMMETRICAL)	M.C.	MECHANICAL CONTRACTOR							
AF/AT	AMP FRAME, AMP TRIP	M	METER							
AHJ	AUTHORITY HAVING JURISDICTION	M/M	METER MAIN							
AS/AF	AMP SWITCH, AMP FUSE	MV	MERCURY VAPOR							
		MH	METAL HALIDE							
ATS	AUTOMATIC TRANSFER SWITCH									
AVG	AVERAGE	MIN.	MINIMUM							
BDF	BUILDING DISTRIBUTION FRAME	MCA	MINIMUM CIRCUIT AMPS							
BR	BRANCH	MCC	MOTOR CONTROL CENTER							
BLDG	BUILDING	MCM	THOUSAND CIRCULAR MILS							
CEC	CALIFORNIA ELECTRICAL CODE	MCP	MOTOR CIRCUIT PROTECTOR							
CIRC., CKT.	CIRCUIT	MFR.	MANUFACTURER							
СВ	CIRCUIT BREAKER	MTD	MOUNTED							
CSFD	COMBINATION SMOKE FIRE DAMPER	MW	MICROWAVE							
С	CONDUIT	N	NEW EQUIP.							
C.O.	CONDUIT ONLY, COMPLETE WITH	NATS	NON AUTOMATIC DISCONNECT							
	PULLSTRING	NEC	NATIONAL ELECTRICAL CODE							
CONN	CONNECTED	NEMA	NATIONAL ELECTRICAL							
CPT	CONTROL POWER TRANSFORMER		MANUFACTURERS' ASSOCIATION							
CLCB	CURRENT LIMITING CIRCUIT BREAKER	NC	NORMALLY CLOSED							
CLF	CURRENT LIMITING FUSE	NO	NORMALLY OPENED							
CT	CURRENT TRANSFORMER	NF	NON-FUSED							
DIA	DIAMETER	NIC	NOT IN CONTRACT							
DISC	DISCONNECT	N.T.S.	NOT TO SCALE							
DIST										
	DISTRIBUTION	NL NO 57 #	NIGHT LIGHT							
E	EXISTING EQUIP. TO REMAIN	NO or #	NUMBER							
E.C.	ELECTRICAL CONTRACTOR	OFCI	OWNER FURNISHED, CONTRACTOR							
EMS	ENERGY MANAGEMENT CONTROL		INSTALLED.							
	SYSTEM	%Z	PERCENT IMPEDANCE							
EMT	ELECTRICAL METALLIC TUBING	PH. or ~	PHASE							
ENT	ELECTRICAL NON-METALLIC TUBING	PC	PHOTOCELL							
EWC	ELECTRIC WATER COOLER	PVC	POLY VINYL CHLORIDE							
E.P.O.	EMERGENCY POWER OFF	PDU	POWER DISTRIBUTION UNIT							
E-O-L	END-OF-LINE CIRCUIT TERMINATOR.	PRIMARY	OVER 600 VOLTS							
EF	EXHAUST FAN	PROVIDE	FURNISH, INSTALL AND CONNECT.							
EP	EXPLOSION PROOF	REC, RECEPT	RECEPTACLE							
ER*	EXISTING EQUIP. TO BE REOLCATED	REF	REFRIGERATOR							
	(* CORRESPONDS TO NEW LOCATION)	RGS	RIGID GALVANIZED STEEL							
ERT*	NEW LOCATION FOR REOLCATED EQUIP.	RMS	ROOT MEAN SQUARE							
	(* CORRESPONDS TO PREVIOUS LOCATION)	SCC	SHORT CIRCUIT CURRENT							
FT or '	FEET	SCS	STRUCTURED CABLING SYSTEM							
FA	FIRE ALARM	SFD	SMOKE FIRE DAMPER							
FLA	FULL LOAD AMPS	SECONDARY	600 VOLTS AND LESS							
GFCI	GROUND FAULT CIRCUIT INTERRUPTER.	TV	TELEVISION							
GFP	GROUND FAULT PROTECTION	T.V.S.S.	TRANSIENT VOLTAGE SURGE							
GEC	GROUNDING ELECTRODE CONDUCTOR	1.4.0.0.	SUPPRESSION							
HACR	HEATING AIR CONDITIONING	TYP	TYPICAL							
ПАСК	REFRIGERATION									
LID		U.G.P.S.	UNDERGROUND PULL SECTION							
HP "	HORSEPOWER	U.O.N.	UNLESS OTHERWISE NOTED							
IN. or "	INCHES	U.P.S.	UNINTERRUPTABLE POWER SYSTEM							
JBOX	JUNCTION BOX	V	VOLTS							
K	DEGREE KELVIN	VA	VOLT AMPERES							
MCM	THOUSAND CIRCULAR MILS	VD	VOLTAGE DROP							
KVA	KILOVOLT AMPERES	VL	VERIFY LOCATION							
KW	KILOWATT	WP	WEATHERPROOF							
KWH	KILOWATT HOUR	XFMR	TRANSFORMER							
LCL	LONG CONTINUOUS LOAD	XX	EXISTING EQUIP. TO BE DEMO'D							





SYSTEM NO. W-L-1001 F RATINGS - 1, 2, 3 AND 4 HR (SEE ITEMS 2 AND 3) T RATINGS - 0, 1, 2, 3, AND 4 HR (SEE ITEM 3) L RATING AT AMBIENT - LESS THAN 1 CFM/SQ FT L RATING AT 400 F - LESS THAN 1 CFM/SQ FT

WALL ASSEMBLY- THE 1, 2, 3 OR 4 HR FIRE-RATED GYPSUM WALLBOARD/STUD WALL ASSEMBLY SHALL BE CONSTURCTED OF THE MATERIALS AND IN THE MANNER DESCRIBED IN THE INDIVIDUAL U300 AND U400 SERIES WALL OR PARTITION DESIGNS IN THE UL FIRE RESISTANCE DIRECTORY AND SHALL INCLUDE THE FOLLOWING CONSTRUCTION FEATURES:

- A. STUDS WALL FRAMING MAY CONSIST OF EITHER WOOD STUDS (MAX 2 HR FIRE RATED ASSEMBLIES) OR STEEL CHANNEL STUDS. WOOD STUDS TO CONSIST OF NOM 2 BY 4 IN. LUMBER SPACED 16 IN. OC. WITH NOM 2 BY 4 IN. LUMBER END PLATES AND CROSS BRACES. STEEL STUDS TO BE MIN 3-5/8 IN. WIDE BY
- 1-3/8 IN. DEEP CHANNELS SPACED MAX 24 IN. OC. B. WALLBOARD, GYPSUM * - NOM 1/2 OR 5/8 IN. THICK, 4 FT. WIDE WITH SQUARE OR TAPERED EDGES. THE GYPSUM WALLBOARD TYPE, THICKNESS, NUMBER OF LAYERS, FASTENER TYPE AND SHEET ORIENTATION SHALL BE AS SPECIFIED IN THE INDIVIDUAL U300 OR U400 SERIES DESIGN IN THE UL FIRE RESISTANCE DIRECTORY. MAX DIAMETER OF OPENING IS 13-1/2 IN.
- PIPE OR CONDUIT NOM 12 IN. DIAM (OR SMALLER) SCHEDULE 10 (OR HEAVIER) STEEL PIPE, NOM 12 IN DIAM (OR SMALLER) SERVICE WEIGHT (OR HEAVIER) CAST IRON SOIL PIPE, NOM 12 IN. DIAM (OR SMALLER) CLASS 50 (OR HEAVIER) DUCTILE IRON PRESSURE PIPE, NOM 6 IN. DIAM (OR SMALLER) STEEL CONDUIT, NOM 4 IN. DIAM (OR SMALLER) STEEL ELECTRICAL METALLIC TUBING, NOM 6 IN. DIAM (OR SMALLER) TYPE L OR (OR HEAVIER) COPPER TUBING OR NOM 1 IN. DIAM (OR SMALLER) FLEXIBLE STEEL CONDUIT. WHEN COPPER PIPI IS USED, MAX F RATING OF FIRESTOP SYSTEM (ITEM 3) IS 2 HR. STEEL PIPES OR CONDUITS LARGER THAN NOM 4 IN. DIAM MAY ONLY BE USED IN WALLS CONSTRUCTED USING STEEL CHANNEL STUDS. A MAX OF ONE PIPE OR CONDUIT IS PERMITTED IN THE FIRESTOP SYSTEM. PIPE OR CONDUIT TO BE INSTALLED NEAR CENTER OF STUD CAVITY WIDTH AND TO BE RIGIDLY SUPPORTED ON BOTH SIDES OF WALL ASSEMBLY.
- FILL, VOID OR CAVITY MATERIAL* CAULK FILL MATERIAL INSTALLED TO COMPLETELY FILL ANNULAR SPACE BETWEEN PIPE OR CONDUIT AND GYPSUM WALLBOARD AND WITH A MIN 1/4 IN. DIAM BEAD OF CAULK APPLIED TO PERIMETER OF PIPE OR CONDUIT AT TIS EGRESS FROM THE WALL. CAULK INSTALLED SYMMETRICALLY ON BOTH SIDES OF WALL ASSEMBLY. THE HOURLY F RATING OF THE FIRESTOP SYSTEM IS DEPENDENT UPON THE HOURLY FIRE RATING OF THE WALL ASSEMBLY IN WHICH IT IS INSTALLED, AS SHOWN IN THE FOLLOWING TABLE THE HOURLY T RATING OF THE FIRESTOP SYSTEM IS DEPENDENT UPON THE TYPE OR SIZE OF THE PIPE OR CONDUIT AND THE HOURLY FIRE RATING OF THE WALL ASSEMBLY IN WHICH IT IS INSTALLED, AS TABULATED BELOW:

MAX PIPE	ANNULAR	F	T
R CONDUIT	SPACE,	RATING	RATING
DIAM, IN	IN	HR	HR
1	0 TO 3/16	1 OR 2	0+, 1 OR 2
1	1/4 TO 1/2	3 OR 4	3 OR 4
4	0 TO 1/4	1 OR 2	0
4	0 TO 1-1/2#	1 OR 2	0
6	1/4 TO 1/2	3 OR 4	0
12	3/16 TO 3/8	1 OR 2	0

+WHEN COPPER PIPE IS USED, T RATING IS 0 HR. #0 TO 1-1/2 IN. ANNULAR SPACE APPLIES ONLY WHEN TYPE CP-25 WB+ CAULK IS USED AND ONLY WHEN THE MIN THICKNESS OF THE GYPSUM WALLBOARD IS 5/8 IN. FOR 1 HR RATED WALLS AND 1-1/4 IN. FOR 2 HR RATED WALLS.

MINNESOTA MINING & MFG. CO. - CP 25WB+ * BEARING THE UL CLASSIFICATION MARKING

FIRE RATED PENETRATION DETAIL (TYP.)

### **BRANCH CIRCUIT SYMBOLS**

CONCEALED CONDUIT OR BRANCH CIRCUIT UNLESS OTHERWISE NOTED. 1/2" CONDUIT MINIMUM, (2) #12 AWG CONDUCTORS MINIMUM

CONDUIT OR BRANCH CIRCUIT CONCEALED BELOW GRADE, 3/4" CONDUIT MINIMUM WITH (2) 12 AWG CONDUCTORS MINIMUM AND A CODE SIZED EQUIPMENT GROUND.

CONDUIT STUB OUT, CAP, MARK AND RECORD ON AS-BUILT DRAWINGS

CONDUIT CONTINUATION. FLEXIBLE CONNECTION AS REQUIRED. NUMBER OF CONDUCTORS AS REQUIRED. VERIFY

CONNECTION REQUIREMENTS WITH MANUFACTURER PRIOR TO ROUGH-IN.

#### ANNOTATIONS

MECHANICAL EQUIPMENT CALLOUT, "AC" INDICATES UNIT TYPE AND "2" INDICATES UNIT NUMBER. REFER TO MECHANICAL DRAWINGS FOR EXACT LOCATION AND ELECTRICAL REQUIREMENTS.

DETAIL CALLOUT, "3" INDICATES DETAIL NUMBER "E-1" INDICATES SHEET NUMBER.

 $\langle xxx-x \rangle$ LIGHTING FIXTURE DESIGNATION

PLAN NOTE REFERENCE, REFER TO NOTES ON SHEET, OR AS DIRECTED.

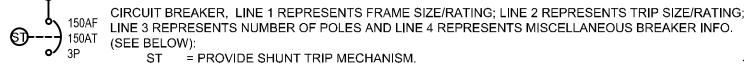
REVISION REFERENCE.

STARTER SIZES

"EMERGENCY"

### POWER SYMBOLS

- DUPLEX RECEPTACLE. MOUNTING HEIGHT PER ADA DEVICE MOUNTING REQUIREMENTS OR AS NOTED. WP INDICATES WEATHERPROOF, REFER TO THE GENERAL PRODUCT SPECIFICATIONS.
- DOUBLE DUPLEX RECEPTACLE, MOUNTING HEIGHT PER ACCESSIBLE DEVICE MOUNTING REQUIREMENTS OR AS NOTED.
- DUPLEX, GFCI RECEPTACLE, MOUNTING HEIGHT PER ACCESSIBLE DEVICE MOUNTING REQUIREMENTS OR AS NOTED. WP INDICATES WEATHERPROOF, REFER TO THE GENERAL PRODUCT SPECIFICATIONS.
- DUPLEX RECEPTACLE MOUNTED ABOVE COUNTER, MOUNTING HEIGHT PER ACCESSIBLE DEVICE MOUNTING REQUIREMENTS - UON OR REQUIRED.
- DUPLEX RECEPTACLE MOUNTED IN CHIEF #525F BACK BOX RECESSED IN THE WALL, MOUNTING HEIGHT PER ADA DEVICE MOUNTING REQUIREMENTS - UON OR REQUIRED. DUPLEX, GFCI RECEPTACLE MOUNTED ABOVE COUNTER, MOUNTING HEIGHT PER ACCESSIBLE DEVICE MOUNTING REQUIREMENTS - UON OR REQUIRED. WP INDICATES WEATHERPROOF, REFER TO
- THE GENERAL PRODUCT SPECIFICATIONS. FUSED DISCONNECT SWITCH, HP RATED, OR COMBINATION MOTOR STARTER/DISCONNECT SWITCH WITH FUSES PER EQUIPMENT MANUFACTURER AND WEATHERPROOF AS REQUIRED. PROVIDE FINAL CONNECTION TO UNIT EQUIPMENT. SEE MOTORIZED EQUIPMENT SCHEDULE FOR DISCONNECT AND
- WALL MOUNTED JUNCTION BOX. MOUNTING HEIGHT AS NOTED. 4S/DP MINIMUM OR AS REQUIRED
- JUNCTION BOX, MOUNTED IN ACCESSIBLE CEILING FOR APPLICATION DENOTED ON PLAN. 4S/DP MINIMUM OR AS REQUIRED BY N.E.C..
  - SURFACE MOUNTED ELECTRICAL PANELBOARD OR LOAD CENTER. REFER TO PANEL SCHEDULE. CIRCUIT BREAKER, LINE 1 REPRESENTS FRAME SIZE/RATING; LINE 2 REPRESENTS TRIP SIZE/RATING; LINE 3 REPRESENTS NUMBER OF POLES AND LINE 4 REPRESENTS MISCELLANEOUS
  - BREAKER INFO. (SEE BELOW): SHUNT = PROVIDE SHUNT TRIP MECHANISM. = GROUND FAULT PROTECTION



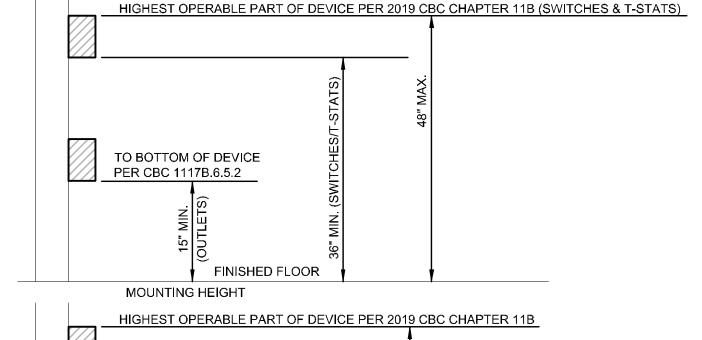
SOLENOID KEY RELEASE UNIT TO BE PROVIDE AND INSTALLED AS PART OF KIRK KEY INTERLOCK SKRU

GROUND CONNECTION, SIZE AS INDICATED OR AS REQUIRED. SINGLE POLE SWITCHES, MOUNTING HEIGHT PER ACCESSIBLE DEVICE MOUNTING REQUIREMENTS SUBSCRIPTS AT SYMBOL INDICATE THE FOLLOWING:

M - MOTOR STARTING NOTE: ALL WALL SWITCHES CONTROLLING EMERGENCY CIRCUITS SHALL BE ENGRAVED WITH

#### TELEPHONE/DATA SYMBOLS

- COMBINATION TELEPHONE AND DATA OUTLET BOX WALL MOUNTED AT +15" A.F.F. (MIN. AS MEASURED TO THE BOTTOM OF THE BOX) - UON OR REQUIRED. STUB TWO (2) 1-1/4"C.O. WITH PULL STRINGS UP 6" ABOVE THE ACCESSIBLE CEILING AND PROVIDE A BUSHING. 4S/DP MINIMUM WITH SINGLE GANG RING.
- COMBINATION TELE AND DATA OUTLET BOX, WALL MOUNTED AT 44" MAX AFF TO HIGHEST OPERABLE PART OF DEVICE - UON OR REQUIRED. STUB TWO (2) 1-1/4"C.O. WITH PULL STRING UP 6" ABOVE THE ACCESSIBLE CEILING AND PROVIDE A BUSHING. 4S/DP MINIMUM WITH SINGLE GANG RING.
- COMBINATION TELE/DATA OUTLET AND AV DEVICE MOUNTED WITHIN CHIEF #525F RECESSED WALL BOX. STUB TWO (2) 1-1/4"C.O. WITH PULL STRING UP 6" ABOVE THE ACCESSIBLE CEILING AND PROVID A BUSHING. 4S/DP MINIMUM WITH SINGLE GANG RING.



FINISHED FLOOR

ADA DEVICE MOUNTING DETAIL

24" MAX.

OVER OBSTRUCTION

TCMC MRI 01907.01/AGD 20-0001

03/11/2020

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> TEL(714)545-7700 ISLEY DESIGN & PLANNING 1982 PALSERO AVENUE ESCONDIDO, CA 92029 TEL(760)484-0455



DESIGN CHANGES 8/10/2020 OSHPD COMMENTS 10/2/2020 ____ OSHPD COMMENTS 11/24/2020 DESIGN CHANGES 11/24/2020 ACD 0001 DESIGN CHANGES

DESCRIPTION:

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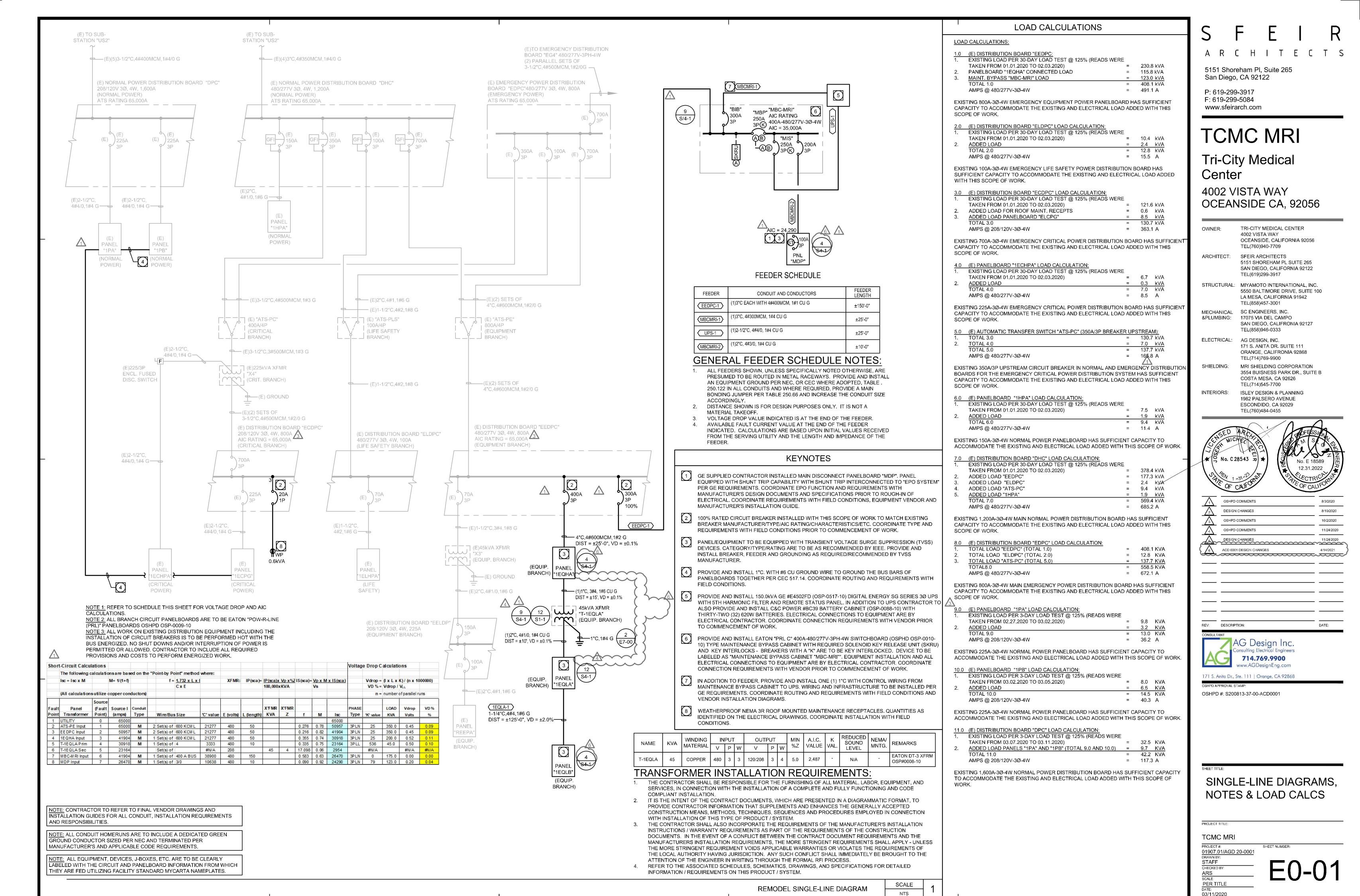
OSHPD #: \$200813-37-00-ACD0001

**ELECTRICAL COVER** SHEET

STAFF CHECKED BY:

100% - CONSTRUCTION DOCS

PER TITLE



21 04-29 AGD Bid Set ACD 0006 All Sheets

100% - CONSTRUCTION DOCS

- 10. ALL LIGHTING FIXTURES TO BE MOUNTED IN A SUSPENDED CEILING ARE TO BE SUPPORTED BY T-BAR CLIPS AND (2)#12 SUPPORT WIRES ATTACHED TO THE BUILDING FRAME. IN ADDITION, LIGHTING FIXTURES ARE TO BE SECURED TO THE CEILING GRID WITH (4) SHEET METAL SCREWS ((1) AT EACH CORNER OF THE FIXTURE) SCREWS SHALL BE NEITHER VISIBLE NOR IMPEDE THE INSTALLATION OF CEILING TILES.
- 11. ALL FIXTURES MUST BE SUPPLIED WITH "QUICK DISCONNECT" SAFETY BALLASTS WHICH ARE UL AND CSA CERTIFIED IN ACCORDANCE WITH NEC 410.73(G) AND CEC 30-308(4).
- 12. ALL FIXTURES ARE TO BE PROVIDED WITH THE REQUIRED UL AND CBM LABELS AND MUST CONFORM TO T-24 STANDARDS AND REQUIREMENTS FOR PERFORMANCE AND EFFICIENCY.
- 13. ALL FIXTURES, TRIMS, AND LAMPS SHALL BE CLEANED AND FREE FROM DIRT, DUST, LABEL/ADHESIVE, AND FINGER
- PRINTS.
- 14. EMERGENCY LIGHTING FIXTURES AND BATTERY PACKS ARE TO BE PROVIDED BASED ON FOLLOWING THE CRITERIA:a. FIXTURES SPECIFIED WITH INTEGRAL EMERGENCY BATTERY PACKS ARE TO BE FED USING THE FOLLOWING

TAPPED AHEAD OF ANY TIME-CLOCK/PHOTO-CELL CONTROLLED DEVICES).

- GUIDELINES:

  1a,1* FOR EMERGENCY FIXTURES SPECIFIED WITH AN EMERGENCY BATTERY PACK REPRESENTS A
  FIXTURE WITH A NORMAL BALLAST TO BE CONNECTED TO SWITCH LEG "a" AND AN EMERGENCY
  BALLAST TO BE CONNECTED TO A CONSTANT HOT LEG "1" (CONSTANT HOT CIRCUITS ARE TO BE
- 1* REPRESENTS ONE OF THE FOLLOWING FIXTURE TYPES WHICH ARE TO BE CONNECTED TO A CONSTANT HOT CIRCUIT "1": a) NORMAL FIXTURE DESIGNATED AS A NIGHT LIGHT (NL); b) EXIT SIGN(S); AND/OR c) AN EMERGENCY FIXTURE EQUIPPED WITH AN EMERGENCY BATTERY PACK WHICH ALSO SPECIFIED TO BE A NIGHT LIGHT. (ALL CONSTANT HOT CIRCUITS ARE TO BE TAPPED AHEAD OF ANY TIME-CLOCK/PHOTO-CELL CONTROLLED DEVICES)
- b. EMERGENCY BATTERY PACKS SHALL BE PROVIDED AND INSTALLED AS FOLLOWS:

#### LED LAMPS:

#### BODINE #BSL23 OR #BSL722 OR EQUAL IF AVAILABLE

NOTE: ALL LED FIXTURES EQUIPPED WITH EMERGENCY BATTERY PACKS SHALL HAVE THE BATTERY PACKS FACTORY INSTALLED AND TESTED AT THE FIXTURE MANUFACTURER'S FACILITY TO ENSURE UL LISTING OF THE FIXTURE IS MAINTAINED. FIELD INSTALLATION OF LED EMERGENCY BATTERY PACKS IS STRICTLY PROHIBITED. NOTIFY ENGINEER OF RECORD SHOULD SPECIFIED FIXTURE NOT HAVE ADEQUATE SPACE TO ACCOMMODATE THE EMERGENCY BATTERY PACK. CONTRACTOR TO MODIFY BASE BID TO INCLUDE ALL NECESSARY EQUIPMENT FOR A COMPLETE AND OPERATIONAL, ADEQUATELY SIZED MINIATURE INVERTER SYSTEM TO BE MOUNTED IN NEAREST ELECTRICAL ROOM IN THE EVENT THE BATTERY PACK CAN NOT BE INSTALLED IN THE FIXTURE.

NOTE: ALL BATTERY PACKS ARE TO BE FACTORY INSTALLED IN FIXTURE ASSEMBLIES WHEN APPLICABLE. ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR CONTACTING FIXTURE MANUFACTURERS TO VERIFY SPECIFIED (OR APPROVED SUBSTITUTE) FIXTURE HAS ADEQUATE SPACE WITHIN THE FIXTURE TO MOUNT THE EMERGENCY BATTERY PACK. IF IT IS DETERMINED THE BATTERY PACK CANNOT BE MOUNTED IN THE FIXTURE THEN CONTRACTOR SHALL INCLUDE ALL COSTS REQUIRED FOR REMOTE MOUNTING THE EMERGENCY BATTERY PACK ABOVE NEAREST ACCESSIBLE CEILING. ENSURE DISTANCE FROM FIXTURE TO REMOTE BATTERY PACK LOCATION DOES NOT EXCEED THE MANUFACTURER'S RECOMMENDED DISTANCES. COORDINATE ALL ACCESS PANELS WITH ARCHITECT OF \ RECORD PRIOR TO INSTALL.

- c. ALL LIGHTING FIXTURES WITH EMERGENCY BATTERY PACKS ARE TO BE PROVIDED WITH INTEGRAL TEST SWITCHES AND CHARGE LIGHTS UNLESS OTHERWISE NOTED OR REQUIRED BY THE AUTHORITY HAVING JURISDICTION (AHJ). IN THE EVENT INTEGRAL TEST SWITCHES ARE NOT ALLOWED NOTIFY ENGINEER OF RECORD PRIOR TO INSTALLATION OF REMOTE TEST SWITCHES. TEST SWITCHES TO BE INSTALLED IN FIXTURES WITH A MINIMUM OF 18" OF ADDITIONAL WIRING TO ALLOW FOR GENERAL FIXTURE MAINTENANCE.
- 15. INSTALL ALL EXIT SIGNS IN ACCORDANCE WITH THE LOCAL AHJ AND FIRE AUTHORITY. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING ALL REQUIRED PARTS, PIECES, AND MOUNTING HARDWARE FOR EXIT SIGNS, AS WELL AS, ENSURING THE EXIT SIGNS ARE MOUNTED IN AN APPROVED VISIBLE LOCATION. VERIFY ALL REQUIRED CHEVRONS, MIRRORS, AND FACES AS REFERENCED ON THE ARCHITECTURAL REFLECTED CEILING PLAN. NOTIFY ARCHITECT AND ENGINEER OF RECORD OF ANY DISCREPANCIES BETWEEN ARCHITECTURAL AND ELECTRICAL DRAWINGS PRIOR TO ORDERING OF EQUIPMENT.
- 16. CONTRACTOR SHALL INSTALL ALL LIGHTING FIXTURES PER LOCAL AND NATIONAL BUILDING, ELECTRICAL AND SEISMIC CODES. CONTRACTOR IS RESPONSIBLE FOR PROVIDING ALL REQUIRED MOUNTING HARDWARE AND BRACING MATERIALS FOR COMPLETE AND CODE COMPLIANT INSTALLATION. COORDINATE REQUIREMENTS WITH AUTHORITY HAVING JURISDICTION PRIOR TO INSTALLATION.
- 17. CONTRACTOR SHALL COORDINATE ALL LIGHTING FIXTURE LOCATIONS AND QUANTITIES WITH THE ARCHITECTURAL REFLECTED CEILING PLANS. IN ADDITION, CONTRACTOR SHALL ALSO COORDINATE ANY FIXTURE SPECIFIC DIMENSIONS WITH ARCHITECTURAL RCP. NOTIFY ARCHITECT AND ENGINEER OF RECORD OF ANY DISCREPANCIES PRIOR TO FINALIZING FIXTURE ORDER WITH THE DISTRIBUTOR.
- 8. CONTRACTOR TO INCLUDE IN BASE BID A MINIMUM OF 2-HOURS FOR A ONE TIME AIMING AND ADJUSTMENT TIME OF ALL MULTI-HEAD AND DIRECTIONAL FIXTURE ASSEMBLIES. AIMING AND ADJUSTMENT TO BE SCHEDULED FOR AT NIGHT AND AFTER HOURS WITH THE ARCHITECT, ENGINEER, AND OWNER PRESENT. CONTRACTOR IS RESPONSIBLE FOR SCHEDULING AN APPROPRIATE TIME PRIOR TO ORDERING THE FINAL PUNCH WALK FOR THE PROJECT.

LIGHTING

**RECEPTACLE** 

LIGHTING CONTROL SYSTEM KEYNOTES:

2 POWER SUPPLY PROVIDED WITH EQUIPMENT.

WITH ARCHITECT

(1) CLASS II CAT-5e NON-BOOTED NETWORK CABLE CONNECTION WITH RJ45 COUPLINGS

3 LOW VOLTAGE ENTRY KEY PAD - nLIGHT #PODM (COORDINATE DEVICE FINISH WITH

(4) LOW VOLTAGE SCENE SELECTOR - nLIGHT #PODM-2SB (COORDINATE DEVICE FINISH

TO SENSORVIEW

### 1. ALL LIGHTING FIXTURES SHALL BE LABELED WITH THE APPROPRIATE UL LABEL (DAMP, WET, ETC) AS REQUIRED BY

- 1. ALL LIGHTING FIXTURES SHALL BE LABELED WITH THE APPROPRIATE UL LABEL (DAMP, WET, ETC) AS REQUIRED BY CODES AND LOCAL ORDINANCES.
- SHOP DRAWING SUBMITTALS SHALL INCLUDE ALL FIXTURES, LAMPS, AND BALLAST INFORMATION. ANY SHOP DRAWINGS WHICH ARE SUBMITTED WITHOUT ANY ONE OF THESE ITEMS WILL BE REJECTED AS INCOMPLETE AND WILL BE REQUIRED TO BE RESUBMITTED WITH THE REQUIRED INFORMATION.
- 3. ALL LIGHTING FIXTURE SPECIFIC INFORMATION (TYPE, LAMPING, BALLAST, COLOR, MOUNTING, ETC.) HAS BEEN SPECIFIED WITH THE CONSIDERATION OF SPECIFIC PERFORMANCE AND AESTHETIC REQUIREMENTS. ANY SUBSTITUTION OF THE SPECIFIED FIXTURES IS SUBJECT TO THE ARCHITECT AND ENGINEER OF RECORDS FINAL APPROVAL AND ARE SUBJECT TO THE FOLLOWING CRITERIA:
- a. AN OPERABLE SAMPLE WITH THE SPECIFIED LAMP/BALLAST COMBINATION AND A 120V CORD AND PLUG.
- b. SITE LIGHTING FIXTURES PROVIDE A COMPLETE PHOTOMETRIC REPORT WHICH INCLUDES THE FOLLOWING INFORMATION SITE PLAN WHICH CLEARLY IDENTIFIES FOOT-CANDLE LEVELS. PLAN IS TO INCLUDE ALL INPUT DATA UTILIZED IN THE CALCULATION (LAMP/BALLAST TYPE, LAMP LUMENS, LIGHT LOSS FACTOR, ETC.). IN SITUATIONS WHERE SUBSTITUTIONS AFFECT FIXTURES EQUIPPED WITH EMERGENCY BATTERY PACKS, OR OTHER EMERGENCY SOURCES OF POWER, PROVIDE ADDITIONAL PHOTOMETRIC REPORT(S) WHICH CLEARLY IDENTIFY A MINIMUM 1.0 FOOT-CANDLES ALONG THE PATH(S) OF EGRESS THIS REPORT SHALL ALSO INCLUDE ALL INPUT DATA UTILIZED IN THE CALCULATIONS (FOR FIXTURES UTILIZING AN EMERGENCY BATTERY PACK INCLUDE THE LUMEN RATING AND QUANTITY OF LAMPS FOR THE EMERGENCY BATTERY PACK). SEE BELOW FOR PHOTOMETRIC PLAN GUIDELINES:
- 1) POINT BY POINT SPACING IS NOT EXCEED 10'-0" IN ANY DIRECTION.

GENERAL NOTES - LIGHTING FIXTURE/SCHEDULE:

- 2) PHOTOMETRIC STUDY IS TO BE BASED ON A MAINTAINED FOOT-CANDLE LEVEL USING MEAN LAMP LUMENS AND A LIGHT LOSS FACTOR TO BE DETERMINED BY THE ENGINEER OF RECORD.
- 3) ASSOCIATED REPORT TO INCLUDE AN ENERGY COST MODEL WHICH IDENTIFIES ADDITIONAL ENERGY OR ENERGY COSTS FOR A 10-YEAR PERIOD AS COMPARED TO THE SPECIFIED ITEM. ALL ADDITIONAL EXPENSES WILL BE SUBTRACTED FROM THE CONTRACT COST.
- C. INTERIOR LIGHTING FIXTURES SPECIFIC INTERIOR FIXTURES AS DETERMINED BY THE ENGINEER OF RECORD WILL REQUIRE SUPPLEMENTAL PHOTOMETRIC REPORTS CONFIRMING SUBSTITUTE FIXTURE LIGHT LEVELS EQUAL OR EXCEED DESIGNED LIGHT LEVELS IN SPACES IDENTIFIED. IF THE SUBSTITUTED FIXTURE IS AN EMERGENCY FIXTURE A PHOTOMETRIC REPORT SHALL BE SUBMITTED FOR ALL PATHS OF EGRESS WHICH CLEARLY IDENTIFIES 1.0 MINIMUM FOOT-CANDLES ALONG THE PATH. IN ADDITION, TEST SWITCH MOUNTING (INTEGRAL OR REMOTE) SHALL MATCH THE MOUNTING AS SPECIFIED ON THE DESIGN DOCUMENTS CONTRACTOR IS RESPONSIBLE FOR PROVIDING ALL REQUIRED COVER PLATES, TRIMS, REFLECTORS, ETC NECESSARY FOR THE SPECIFIC TEST SWITCH MOUNTING. ALL REPORTS SHALL INCLUDE INPUT DATA UTILIZED IN THE CALCULATIONS (FOR FIXTURES UTILIZING AN EMERGENCY BATTERY PACK INCLUDE THE LUMEN RATING AND QUANTITY OF LAMPS FOR THE EMERGENCY BATTERY PACK).
- d. MANUFACTURER'S CATALOG CUT SHEET WHICH INCLUDES BUT IS NOT LIMITED TO THE FOLLOWING INFORMATION 1) LAMP TYPES AND QUANTITIES; 2) BALLAST OPTIONS; 3) VOLTAGES; 4) EPA RATING (WHERE APPLICABLE); 5) FIXTURE DIMENSIONS; 5) EMERGENCY BATTERY PACK AND TEST SWITCH OPTIONS (WHERE APPLICABLE); AND 6) EXTURE FINISHES
- e. FOR ALL SITE LIGHTING FIXTURES PROVIDE POLE SPECIFICATIONS WITH SUPPLEMENTAL DOCUMENTATION IDENTIFYING POLE SIZE IS RATED ACCORDINGLY BASED ON FIXTURE(S) EPA AND A WIND RATING FOR THE PROJECT ZONE
- A SIGNED COPY OF THE "SUBSTITUTION COMPLIANCE FORM" LOCATED IN THE DIVISION 1 SPECIFICATION WHICH STATES THAT IF THE PROPOSED SUBSTITUTION IS ACCEPTED, THEN THE PROJECT SCHEDULE WILL NOT BE NEGATIVELY AFFECTED. IF THE COMPLETION OF THE PROJECT IS DELAYED DUE TO THE PROPOSED SUBSTITUTION THEN THE ELECTRICAL CONTRACTOR WILL BE RESPONSIBLE FOR ANY AND ALL ESTABLISHED LIQUIDATED DAMAGES.
- CONTRACTOR TO PROVIDE ARCHITECT AND ENGINEER OF RECORD WITH ALL SUBSTITUTE INFORMATION REFERENCED ABOVE NO LATER THAN TWO WORKING WEEKS PRIOR TO THE BID DEADLINE.
- 4. CATALOG NUMBERS AS REFERENCED ON THE FIXTURE SCHEDULE PROVIDE GENERAL FIXTURE INFORMATION. CONTRACTOR SHALL REVIEW LIGHTING PLANS AND SPECIFICATIONS TO VERIFY ALL FIXTURE ASSOCIATED DESIGN INFORMATION. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING ALL NECESSARY PARTS AND PIECES REQUIRED FOR A COMPLETE AND OPERATIONAL INSTALLATION. ANY DISCREPANCIES BETWEEN DESCRIPTIONS, SPECIFICATIONS, AND CATALOG NUMBERS ARE TO BE PRESENTED TO THE ENGINEER OF RECORD PRIOR TO COMPLETION OF THE BID PROCESS FOR CLARIFICATION.
- 5. ALL COLOR SPECIFIC INFORMATION WHICH RELATES TO LIGHTING FIXTURES AND/OR THEIR RELATED PARTS ARE TO BE REVIEWED AND COMMENTED ON BY THE ARCHITECT. FIXTURES WHICH REQUIRE A CUSTOM COLOR WILL HAVE A CUSTOM COLOR PAINT WHICH WILL BE INCLUDED IN THE ARCHITECT'S SHOP DRAWING REVIEW COMMENTS.
- ALL LIGHTING EQUIPMENT LOCATIONS ARE TO BE COORDINATED WITH THE ARCHITECTURAL REFLECTED CEILING PLAN PRIOR TO ORDERING AND INSTALLING.
- 7. ALL FIXTURES MOUNTED IN FIRE RATED CEILINGS ARE TO BE PROVIDED AND INSTALLED WITH AN APPROVED FIRE RATED ENCLOSURE.
- 8. ENSURE COMPATIBILITY OF ALL DIMMING SYSTEM AND INDIVIDUAL LIGHTING CONTROLS WITH LAMPS AND FIXTURES. ALL COMPONENTS ARE TO BE FACTORY CERTIFIED COMPATIBLE FOR A FULL RANGE OF DIMMING.

TO SWITCH (a) TO SWITCH (b) TO SWITCH (c) TO SWITCH (d)

LIGHTING FIXTURE CLEARANCES FROM COMBUSTIBLE MATERIALS ARE TO BE A MINIMUM OF 1/2" (OTHER THAN AT POINTS OF SUPPORT) AND 3" FROM INSULATION FOR NON-IC RATED RECESSED LIGHTING FIXTURES.

		TERIOR LIGH			1	
TYPE	MANUFACTURER & CATALOG #	LAMP	FIXT. WATTAGE	FIXT. FINISH	VOLTS	ADDITIONAL INFORMATION
LR1	KENALL #MRIDL6-FF-PAFW-31L-40K9-M-CSS-T WITH #RIMR16-24V-DIM1	LED	31W	BY ARCHITECT	MVOLT	6" RECESSED 24V LED DOWNLIGHT SUITABLE FOR USE WITHIN AN MRI SUITE. FIXTURE TO BE EQUIPPED WITH 1% 0-10V DIMMING. CONTRACTOR TO PROVIDE ONE (1) KENALL "MRIPSF-480" (QUANTITY AS PER PLANS). FIXTURES TO BE WIRED WITHIN MRI SUITE USING 24V WIRING SUITABLE FOR INSTALLATION IN AN MRI SUITE.
LR2	KENALL #MRIDL6-FF-PAFW-31L-40K9-WW-CSS-T WITH #RIMR16-24V-DIM1	LED	31W	BY ARCHITECT	MVOLT	6" RECESSED 24V LED WALL WASH DOWNLIGHT SUITABLE FOR USE WITHIN AN MRI SUITE. FIXTURE TO BE EQUIPPED WITH 1% 0-10V DIMMING CONTRACTOR TO PROVIDE ONE (1) KENALL "MRIPSF-480" (QUANTITY AS PER PLANS). FIXTURES TO BE WIRED WITHIN MRI SUITE USING 24V WIRING SUITABLE FOR INSTALLATION IN AN MRI SUITE.
LR3	LITHONIA #2ALL2 40L MVOLT EZ1 LP840	LED	35W	BY ARCHITECT	MVOLT	RECSSED 2'X2' LED FIXTURE SUITABLE FOR INSTALLATION WITHIN A T-B. GRID CEILING - CONTRACTOR TO COORDINATE CEILING T-BAR TYPE WIT ARCHITECTURAL DRAWINGS. FIXTURE TO BE EQUIPPED WITH 1% 0-10V DIMMING.
LR4	LITHONIA #LDN6 40/30 L06 AR LD MVOLT EZ1 TRW	LED	35W	BY ARCHITECT	MVOLT	RECESSED 6" LED DOWNLIGHT. FIXTURE TO BE SUITABLE FOR INSTALLATION IN T-BAR CEILINGS AND AND HARD LID SOFFITS. FIXTURE TO BE EQUIPPED WITH 1% 0-10V DIMMING.
LR5	LITHONIA #LDN6 40/30 LW6 AR LD MVOLT EZ1 TRW	LED	35W	BY ARCHITECT	MVOLT	RECESSED 6" LED WALL WASH DOWNLIGHT. FIXTURE TO BE SUITABLE FOR INSTALLATION IN T-BAR CEILINGS AND AND HARD LID SOFFITS. FIXTURE TO BE EQUIPPED WITH 1% 0-10V DIMMING.
LR6	LITHONIA #3G-4RPE-L500-S80-40K-UNV-D01-GCX-RG2-EF- (RUN LENGTHS TO BE VERIFIED WITH ARCHITECTURAL PLANS PRIOR TO SUBMISSION OF SHOP DRAWINGS)	LED	3.9W / LF	BY ARCHITECT	MVOLT	RECESSED PERIMETER LIGHTING SYSTEM. FIXTURE TO BE SUITABLE FO INSTALLATION IN T-BAR CEILINGS AND AND HARD LID SOFFITS. FIXTURE TO BE EQUIPPED WITH 1% 0-10V DIMMING. COORDINATE RUN LENGTHS, CEILING TYPES, ETC. WITH ARCHITECTURAL DRAWINGS.
LS1	LITHONIA #FMLWL48 8 40 ZT MVOLT	LED	42W	BY ARCHITECT	MVOLT	SURFACE WALL MOUNTED LED WRAP AROUND TO BE INSTALLED ON TH CEILING WITHIN THE EQUIPMENT ROOM COORDINATE MOUNTING LOCATIONS AND REQUIREMENTS WITH OVERHEAD CONDUITS, CABLE TRAY, ETC.
EX1	SIGNTEX #CRR BB - 1 - R - C - BA - *(VERIFY W/ PLANS) - T - DG	LED	-W	BY ARCHITECT	MVOLT	LED EXIT SIGN. VERIFY ARROWS/NUMBER OF FACES/ETC. WITH PLANS. FIXTURE IS TO BE EQUIPPED WITH BATTERY BACKUP AND SUITABLE FO USE WITH EMERGENCY GENERATOR POWERED BRANCH CIRCUIT.
EX2	LITHONIA #LE P 1 R ELN SW11	LED	-W	BY ARCHITECT	MVOLT	MRI IN-USE LIGHT. VERIFY ARROWS/NUMBER OF FACES/ETC. WITH PLANFIXTURE IS TO BE EQUIPPED WITH BATTERY.

NOTE: ALL FIXTURES AND LIGHTING CONTROLS SHALL BE PROVIDED AS SPECIFIED. NO FIXTURE/CONTROL SUBSTITUTIONS WILL BE CONSIDERED OR ACCEPTED UNLESS SPECIFICALLY REFERENCED AS AN EQUAL ON THE SCHEDULE OR HEREIN. IN SITUATIONS WHERE THE OWNER CHOOSES TO CONSIDER "VALUE ENGINEERING ALTERNATIVES" WHICH DEVIATE FROM ANY OF THE SPECIFIED/REFERENCED FIXTURES/EQUIPMENT - ALL FIXTURE SUBSTITUTIONS MUST BE SUBMITTED PER NOTE 3 OF THE "GENERAL NOTES - LIGHTING FIXTURE SCHEDULE". IN ADDITION TO MEETING THESE REQUIREMENTS CONTRACTOR IS RESPONSIBLE FOR PROVIDING LINE ITEM PRICING COMPARISONS BETWEEN THE SPECIFIED FIXTURE AND THE PROPOSED ALTERNATE FIXTURE TO THE ENGINEER OF RECORD/OWNER/ARCHITECT - PRICING SHALL BE REPRESENTATIVE OF THE FINAL COST PER UNIT TO THE OWNER AND INCLUSIVE OF ALL CONTRACTOR/DISTRIBUTOR MARK-UPS AND SHIPPING COSTS. ALL FIXTURES WHICH ARE NOT SUBMITTED PER THESE REQUIREMENTS WILL BE REJECTED AS INCOMPLETE.

"OR EQUAL = IN ORDER FOR A PRODUCT BY ONE OF THE REFERENCED "OR EQUAL" MANUFACTURERS TO BE CONSIDERED AN EQUAL PRODUCT ALL REQUIREMENTS IDENTIFIED IN THE "GENERAL NOTES - LIGHTING FIXTURE/SCHEDULE:" AND PROJECT SPECIFICATIONS MUST BE MET WITHIN TWO-WEEKS PRIOR TO THE BID DEADLINE. ANY PRODUCTS SELECTED WHICH DO NOT MEET THESE REQUIREMENTS WILL BE DETERMINED NOT TO BE AN EQUAL AND THEREFORE NOT A CONSIDERATION FOR THE PROJECT. CONTRACTOR IS RESPONSIBLE FOR PROVIDING A COPY OF THE FIXTURE SCHEDULE AND LIGHTING/FIXTURE SCHEDULE GENERAL NOTES TO ALL REPRESENTATIVE AGENCIES/DISTRIBUTORS."

### LIGHTING FIXTURE SCHEDULE

EMERGENCY LIGHTING FIXTURES.

TO SWITCH (a-em)

NOTE: WIRING DIAGRAM IS DIAGRAMMATIC AND IS INTENDED TO

AND INDIVIDUAL ROOMS FOR QUANTITY, LOCATION AN D TYPES OF

DEVICES REQUIRED FOR EACH SPACE. PROVIDE DIMMER CONTROL

DEVICE SPECIFICATIONS U.O.N...

INTERFERENCE FROM MRI EQUIPMENT.

DEMONSTRATE GENERIC WIRING TOPOLOGY. REFER TO LIGHTING PLANS

CONDUCTORS AS REQUIRED. REFER TO COVER SHEET SYMBOLS LIST FOR

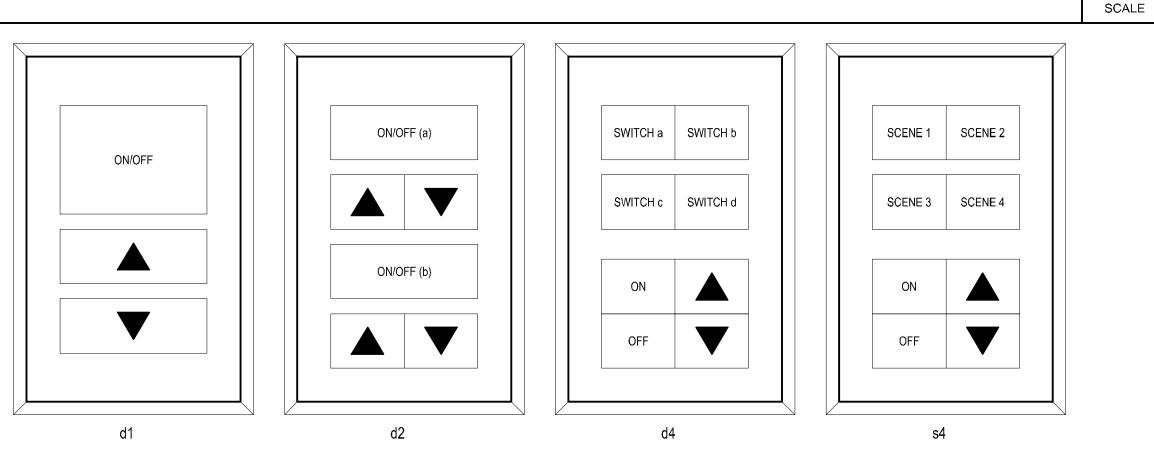
NOTE: ALL EXPOSED LOW VOLTAGE WIRING ROUTED IN THE ACCESSIBLE

CEILING IS REQUIRED TO BE PLENUM RATED AND SHIELDED TO MINIMIZE

TO SWITCHED RECEPTACLE

UTILIZE IN ROOMS WITH INVERTER POWERED

TO SWITCH (b-em



### LIGHTING CONTROL SYSTEM REQUIREMENTS:

- 1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE FURNISHING OF ALL MATERIAL, LABOR EQUIPMENT, AND SERVICES, IN CONNECTION WITH THE INSTALLATION OF A COMPLETE AND FULLY FUNCTIONING AND CODE COMPLIANT INSTALLATION.
- IT IS THE INTENT OF THE CONTRACT DOCUMENTS, WHICH ARE PRESENTED IN A DIAGRAMMATIC FORMAT, TO PROVIDE CONTRACTOR INFORMATION THAT SUPPLEMENTS AND ENHANCES THE GENERALLY ACCEPTED CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES AND PROCEDURES EMPLOYED IN CONNECTION WITH INSTALLATION OF THIS TYPE OF PRODUCT / SYSTEM.
- 3. THE CONTRACTOR SHALL ALSO INCORPORATE THE REQUIREMENTS OF THE MANUFACTURER'S INSTALLATION INSTRUCTIONS / WARRANTY REQUIREMENTS AS PART OF THE REQUIREMENTS OF THE CONSTRUCTION DOCUMENTS. IN THE EVENT OF A CONFLICT BETWEEN THE CONTRACT DOCUMENT REQUIREMENTS AND THE MANUFACTURERS INSTALLATION REQUIREMENTS, THE MORE STRINGENT REQUIREMENTS SHALL APPLY UNLESS THE MORE STRINGENT REQUIREMENT VOIDS APPLICABLE WARRANTIES OR VIOLATES THE REQUIREMENTS OF THE LOCAL AUTHORITY HAVING JURISDICTION. ANY SUCH CONFLICT SHALL IMMEDIATELY BE BROUGHT TO THE ATTENTION OF THE ENGINEER IN WRITING THROUGH THE FORMAL RFI PROCESS.
- 4. REFER TO THE ASSOCIATED SCHEDULES, SCHEMATICS, DRAWINGS, AND SPECIFICATIONS FOR DETAILED INFORMATION / REQUIREMENTS ON THIS PRODUCT / SYSTEM.

#### LOW VOLTAGE LIGHTING CONTROL WIRING DIAGRAM

## NOT TO SCALE

NOT TO

A R C H I T E C T S

5151 Shoreham PI, Suite 265 San Diego, CA 92122

P: 619-299-3917 F: 619-299-5084 www.sfeirarch.com

### TCMC MRI

# Tri-City Medical Center

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STRUCTURAL: MIYAMOTO INTERNATIONAL, INC. 5550 BALTIMORE DRIVE, SUITE 100 LA MESA, CALIFORNIA 91942

MECHANICAL SC ENGINEERS, INC.

&PLUMBING: 17075 VIA DEL CAMPO
SAN DIEGO, CALIFRONIA 92127
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TEL(858)457-3001

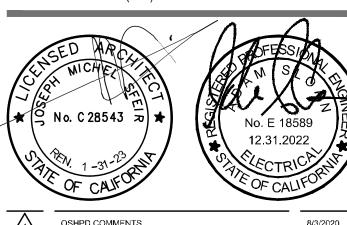
ELECTRICAL: AG DESIGN, INC.
171 S. ANITA DR. SUITE 111
ORANGE, CALIFRONIA 92868

TEL(714)769-9900

SHIELDING: MRI SHIELDING CORPORATION
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TEL(714)545-7700

INTERIORS: ISLEY DESIGN & PLANNING
1982 PALSERO AVENUE
ESCONDIDO, CA 92029
TEL(760)484-0455



1	OSHPD COMMENTS	8/3/2020
2	DESIGN CHANGES	8/10/2020
$\sqrt{3}$	OSHPD COMMENTS	10/2/2020
4	OSHPD COMMENTS	11/24/2020
$\Delta$	DESIGN CHANGES	11/24/2020
6	ACD 0001 DESIGN CHANGES	4/14/2021

AG Design Inc.
Consultant

Consulting Electrical Engineers

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OSHPD #: S200813-37-00-ACD0001

LIGHTING FIXTURE SCHEDULE, NOTES & WIRING DIAGRAMS

TCMC MRI

PROJECT #: SHEET NI
01907.01/AGD 20-0001

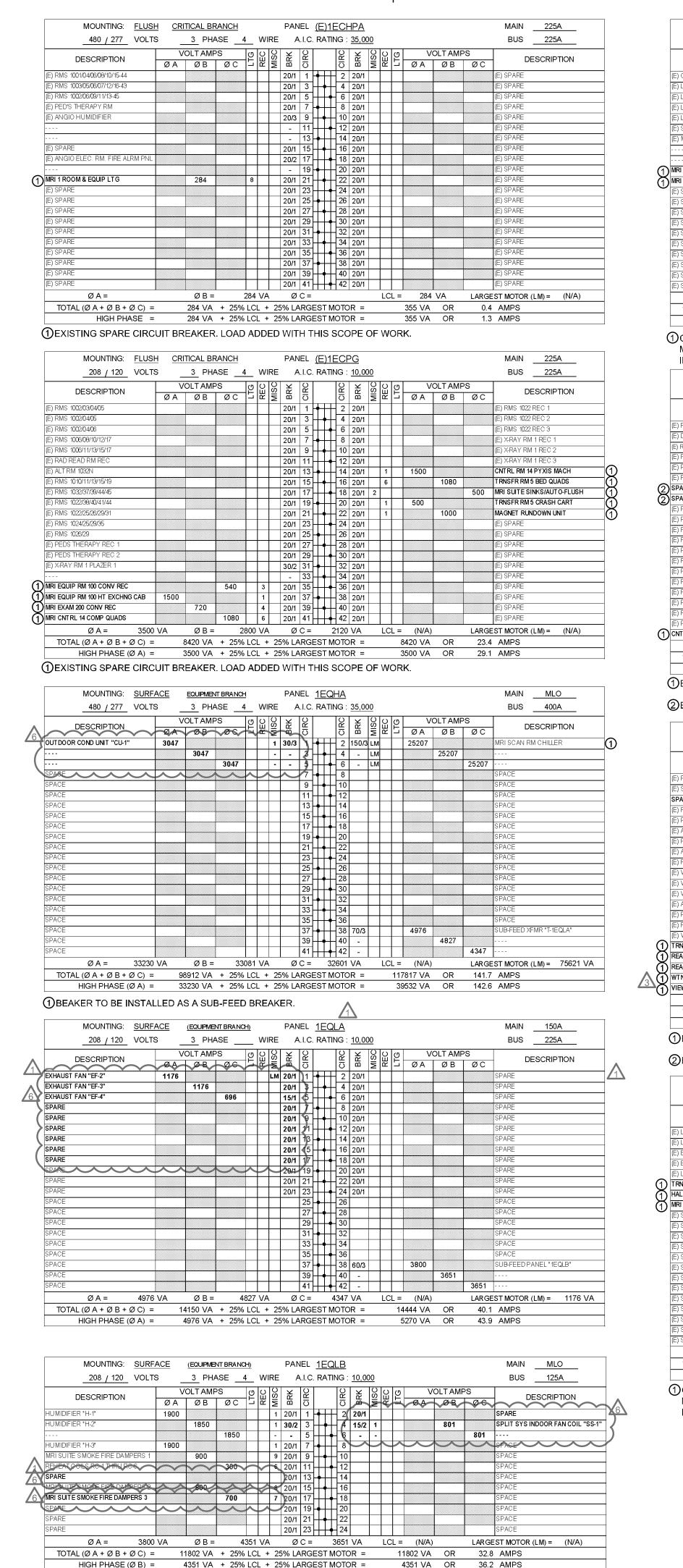
DRAWN BY:
STAFF
CHECKED BY:
ARS

PER TITLE

03/11/2020

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DATE:



MOUNTING: FLUSH	H NO	RMAL PO	OWER			PAN	1EL	(E)	1HP	'A							MAIN	150	)A
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(E) SPACE				Н			37	┡	1 3	8		$\top$	$\top$		1		(E) SPACE		
(E) SPACE			<b>†</b>				39	<b>∐</b> ∔	1 40			$\dagger$					(E) SPACE		
(E) SPACE							41	Ш	4:	2		1					(E) SPACE		
Ø A = 434	VA	ØB=	1	400	VA	ø					-	LC	L =	1834	VA	LARGE	ST MOTOR	(LM) =	(N/A)
TOTAL (Ø A + Ø B + Ø C) =		1834 VA	+ 25%	LCI	+ 2	5% LA	RG	FST	MOT	OR =				2293 VA	OR		AMPS	(=/	( /
HIGH PHASE (Ø B) =		1400 VA												1750 VA	OR		AMPS		
1) CIRCUIT BREAKER AND MANUFACTURER, AIC F	LOAE RATING	ADDE 3, ETC.	D WITH COORI	I TH	HIS S IATE	COP REQ	E C	F V	VOR IENT	K. BF	REA	l EX	ER '	TO MAT	TCH EX	ISTING ONDITI	BREAKI ONS. BR	EAKE	
TINK TIPM TO THE TOTAL PORT OF THE TAX TO TH									1PA		•						MAIN	225	iΑ
	- NO	KIYIAL PU						<u> </u>		<u> </u>									
MOUNTING: FLUSH 208 / 120 VOLTS		RMAL PO		1	WIRE			. RA	TING	: <u>10,0</u>	00						BUS	225	iA

20/1 1 + 2 20/1 20/1 3 4 20/1 (E) DRINKING FNTN 20/1 5 6 20/1 (E) REC VEND. MACH. / MAMMO DOOR 20/1 7 + 8 20/1 (E) REC LOBBY 20/1 9 10 20/1 (E) REC CNTRL DESK 20/1 11 12 20/1 2 SPARE 20/1 13 + 14 20/1 (E) TEMP RM SPARE (E) TEMP RM 2 20/1 15 4 16 20/1 20/1 17 + 18 20/1 1260 MRI RMS 5/6/READING REC (E) ULTRA SOUND 1 (E) RMS 1001-03 / 1050 CORR 20/1 19 + 20 20/1 20/1 21 22 20/1 20/1 23 24 20/1 20/1 25 26 20/1 5 (E) RM 1001-3 (E) REC ROOF EXHAUS (E) RM 1004 COPIER HALL 300/TRNSFR 5 CONV REC (E) RM 1005-06 20/1 27 28 20/1 (E) RM 1006 (E) ULTRA SOUND 1000 20/1 29 30 20/1 20/1 31 32 50/2 (E) RM 1006 / TIMECLOC (E) RMS 1002/8/10-13/15/19 20/1 33 4 34 -(E) RMS 1002/4-6/8/10-13/15 20/1 35 36 20/1 (E) RMS 1007-11 (E) RMS 1007/8/10/11 20/1 37 + 38 20/1 (E) RMS 1007/8/10/11 20/1 39 40 20/1 (1) CNT RL RM 14 COPY MACH. 20/1 41 42 20/1 Ø A = ØC = 2260 VA LCL = (N/A)TOTAL  $(\emptyset A + \emptyset B + \emptyset C)$  = 3160 VA + 25% LCL + 25% LARGEST MOTOR = 3160 VA OR 8.8 AMPS HIGH PHASE (Ø C) = 2260 VA + 25% LCL + 25% LARGEST MOTOR = 2260 VA OR 18.8 AMPS (1) EXISTING SPARE CIRCUIT BREAKER. LOAD ADDED WITH THIS SCOPE OF WORK.

②EXISTING BREAKER LOAD REMOVED WITH THIS SCOPE OF WORK, UPDATE DIRECTORY AS REQUIRED.

208 / 120 VOLTS 3 PHASE WIRE A.I.C. RATING : 10,000 BUS25	<u>A</u>
PEOCRIPTION VOLTAMPS 0000 ¥ 00 00 ¥ 0000 VOLTAMPS	TION
DESCRIPTION  VOLT AMPS  VOLT AMPS  VOLT AMPS  DESCRIPTION  OA ØB ØC  DESCRIPTION  DESCRIPTION  DESCRIPTION	TION
(E) PED'S THERAPY ROOMS 20/1 1 4 2 20/1 (E) VIEWBOXRM 1032	1
(E) SPARE 20/1 3 + 4 20/1 (E) VIEWBOXRM 1032	_
SPARE 20/1 5 6 20/1 SPARE	② ② ②
(E) RMS 1036/36/40/43 20/1 7 4 8 20/1 SPARE	
(E) RMS 1032/35/36 20/1 9 + 10 20/1 SPARE	<u></u>
(E) ALTRM 1032 1 20/1 11 12 20/1 (E) RMS 1024/25/27/29/3	31 FIRE DAMP
(E) RM 1018/CORR 1039/39/41 (E) SCREEN RM 1031	
(E) ALTRM 1032C 20/1 15 + 16 20/1 (E) ALTRM 1030	
(E) RMS 1032/39/39 (E) RMS 1022/25/26/29/3	30/39
(E) VIEWBOX RMS 1035/36 1 20/1 19 4 20 20/1 (E) RMS 1029/40/44	
(E) VIEWBOX RMS 1035/36 2 20/1 20 (E) RMS 1032/37/40/41/4	43
(E) VIEWBOX RMS 1035/37 20/1 23 4 20/1 (E) RMS 1033/37/40/41	
(E) ALTRM 1032 2 20/1 25 + 26 20/1 (E) RMS 1032/37/39/40	
(E) RMS 1022/18 / CORR 1032 20/1 27 + 28 20/1 (E) VIEWBOX RM 1031	
(E) RMS 1022/32 20/1 29 30 20/1 SPARE	
(E) VIEWBOX RM 1038N 20/1 31 + 32 20/1 (E) MONITORS VIEW F	
1 TRNSFR RM 5 BED QUADS 1260 7 20/1 33 + 34 20/1 (E) MONITOR CAB RM	1022
1 READING RMS 16/SUPPORT 8 REC 1260 7 20/1 35 + 36 20/1 (E) MONITORS VIEW F	ROOM
1) READING RM 16 REC 1260 7 20/1 37 + 38 20/1 (E) PEDS THERAPY/E	XAM/OBSERV 1
(E) PEDS THERAPY/E	XAM/OBSERV 2
VIEWING ROOMSTAFF SUPPORT REC 1260 7 20/1 41 42 20/1 (E) PEDS THERAPY/E.	XAM/OBSERV 3
Ø A = 1260 VA Ø B = 2700 VA Ø C = 2520 VA LCL = (N/A) LARGEST MOTOR (LM) =	(N/A)
TOTAL (Ø A + Ø B + Ø C) = 6480 VA + 25% LCL + 25% LARGEST MOTOR = 6480 VA OR 18.0 AMPS	
HIGH PHASE (Ø B) = 2700 VA + 25% LCL + 25% LARGEST MOTOR = 2700 VA OR 22.5 AMPS	

(1) EXISTING SPARE CIRCUIT BREAKER. LOAD ADDED WITH THIS SCOPE OF WORK.

MOUNTING: FLUSH	<u>LIFE</u>	SAFET	Y BRAN	CH		PAN	EL	<u>(E)1</u>	<u>EL</u>	<u>IPA</u>						MAIN	
_480 / 277_ VOLTS	} _	3 PHASE4 WIRE				<del></del>										BUS <u>125A</u>	
DESCRIPTION	V	OLT AMF	PS .	MISC NA MISC		BRK		CIRC		ပ္ကုပ္က	ပြု	VOLT AMPS		PS .	DESCRIPTION		
DESCRIPTION	ØΑ	ØВ	ØС	]드  &	∣ĝ	B	ਠ	5   7	≅	5 B B	≅  ≅	REC	ØΑ	ØВ	ØС	DESCRIPTION	
E) LTS N TWR 1ST FLR CORR						20/1	1	+	2	20/1						(E) LTS CORR. & LOBBY	
E) LTS 1047/50						20/1	3	++	4	20/1						(E) LTS N & S SHELL SPACE	
E) EXIT LTS 1018						20/1	5		- 6	20/1						(E) LTS MAMMO HALL	
E) EXIT LTS						20/1	7	+	- 8	20/1						(E) LTS CORRIDOR 1	
E) LOAD						20/1	9	++	10	20/1						(E) LTS CORRIDOR 2	
RNSFR 5 MOT OR DOOR			1000		1	20/1	11		12							(E) SPACE	
ALL 300/TRNSFR 5 MOTOR DOOR	1000				1	20/1	13	+	14							(E) SPACE	
RI1 CNTRL RM/HALLWAY/WAIT LTG		350		10		20/1	15	++	16							(E) SPACE	
) SPACE							17		18							(E) SPACE	
) SPACE							19	+	20							(E) SPACE	
) SPACE							21	┤┿┤	22							(E) SPACE	
) SPACE							23		24							(E) SPACE	
E) SPACE							25	+++	26							(E) SPACE	
E) SPACE							27	++	28							(E) SPACE	
E) SPACE							29		30							(E) SPACE	
E) SPACE							31	+	32							(E) SPACE	
E) SPACE							33	++	34							(E) SPACE	
E) SPACE							35		36							(E) SPACE	
E) SPACE							37	+	38							(E) SPACE	
E) SPACE							39	┤┿┤	40							(E) SPACE	
E) SPACE							41	┤┤┿	42							(E) SPACE	
Ø A = 1000	VA	ØB=		350 V	Ä	Ø	C =		1000	VA	LC	CL =	350	VA	LARGE	EST MOTOR (LM) = (N/A)	
TOTAL (Ø A + Ø B + Ø C) =		2350 VA	+ 25%	LCL	+ 2	5% LA	RG	ESTN	OTO	R =		2	438 VA	OR	2.9	AMPS	
HIGH PHASE =		1000 VA	+ 25%	LCL	+ 2	5% LA	RG	EST M	OTO	)R =		1	000 VA	OR	3.6	AMPS	

1 CIRCUIT BREAKER AND LOAD ADDED WITH THIS SCOPE OF WORK. BREAKER TO MATCH EXISTING BREAKER TYPE, MANUFACTURER, AIC RATING, ETC. COORDINATE REQUIREMENTS WITH EXISTING FIELD CONDITIONS. BREAKERS TO BE INSTALLED "HOT" AND CONTRACTOR TO INCLUDE ALL NECESSARY PROVISIONS TO PERFORM LIVE WORK

### **GENERAL PANEL SCHEDULE NOTES:**

- 1. WHERE PANEL IS INDICATED AS RECESSED OR FLUSH MOUNTED, PROVIDE SPARE CONDUITS STUBBED UP INTO THE ACCESSIBLE CEILING SPACE. PROVIDE ONE (1) 3/4" CONDUIT ONLY FOR EACH THREE (3) SPARES OR SPACES. MINIMUM OF TWO (2). EACH CONDUIT SHALL BE TAGGED, CAPPED AND MARKED FOR FUTURE USE.
- 2. ALL BUSSING SHALL BE COOPER.
- 3. ALL CIRCUIT BREAKERS USED AS SWITCHES SHALL BE UL LISTED AND LABELED "SWD" FOR SWITCHING DUTY.
- 4. ALL CIRCUIT BREAKERS USED TO SERVE MECHANICAL OR HEATING EQUIPMENT SHALL BE UL LISTED AND LABELED "HACR" FOR USE WITH THESE LOADS, WHERE
- 5. ALL CIRCUIT BREAKERS SHALL BE BOLT-ON TYPE AND SHALL BE SUITABLE FOR 75 DEGREE AMPACITY CONDUCTORS.
- 6. PANELS SHALL BE OF THE DEAD FRONT SAFETY TYPE. PANELS SHALL BE MINIMUM

20" WIDE AND 5 3/4" DEEP UNLESS OTHERWISE NOTED ON PLAN.

NUMBERS FOR BRANCH CIRCUIT PANELBOARDS.

- 7. COORDINATE WITH APPLICABLE TRADE TO INSURE RECESSED MOUNTED PANELBOARDS WILL SEAT FLUSH IN THE WALLS PROVIDED. PANEL TRIMS SHALL HAVE CONCEALED DOORS AND FASTENERS WITH FLUSH TYPE COMBINATION LOCK AND CATCH. PROVIDE TWO MILLED TYPE KEYS SUPPLIED WITH EACH PANEL. ALL LOCKS SHALL BE KEYED ALIKE AND EACH DOOR SHALL HAVE A PLASTIC COVERED DIRECTORY FRAME WITH A TYPED IDENTIFICATION CARD OF ALL CIRCUIT AND PANEL
- 8. UPON PROJECT COMPLETION, CONTRACTOR SHALL INSTALL TYPED AS-BUILT PANE DIRECTORIES IN EACH PANEL WITHIN THE MFGR-PROVIDED DIRECTORY HOLDER. DIRECTORIES SHALL CONSIST OF LOAD DESCRIPTION AND CIRCUIT NUMBER FOR EACH CIRCUIT BASED ON AS-BUILT PANEL SCHEDULES. HANDWRITTEN DIRECTORIES ARE UNACCEPTABLE. LOCAL AHJ MAY REQUIRE COPIES OF ENGINEERED PANEL SCHEDULES BE PLACED IN PANEL DIRECTORIES. E.C. TO VERIFY REQUIREMENTS PRIOR TO BID AND INCLUDE ALL COSTS REQUIRED FOR LARGER-THAN-STANDARD CUSTOM PANEL DIRECTORY HOLDERS TO ACCOMMODATE COPIES OF ENGINEERED PANEL SCHEDULES.
- 9. PANELBOARDS SHALL BE MANUFACTURED BY G.E., CUTLER-HAMMER, SIEMENS, OR SQUARE "D". REFER TO SINGLE-LINE DIAGRAM FOR ADDITIONAL REQUIREMENTS.
- 10. PROVIDE SHOP DRAWING SUBMITTAL PER THE ELECTRICAL SPECIFICATION SUBMITTAL REQUIREMENTS FOR EACH PANEL DEPICTING CONFORMANCE WITH THE ABOVE NOTES AND SCHEDULES.

(E)1HPA (E)1PA (E)1ECPG 1EQHA (E)1PB 1EQLA (E)1ELHPA

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#### SINGLE LINE NOTES

- . ALL EQUIPMENT TO BE SQUARE D OR EQUAL BY SIEMENS OR CUTLER HAMMER.
- 2. ALL ELECTRICAL EQUIPMENT SHALL BE PROVIDED WITH SPECIFIED AND APPROPRIATE UL LISTING BASED ON THE ENVIRONMENT IN WHICH THE EQUIPMENT IS TO BE MOUNTED.
- 3. ALL ELECTRICAL EQUIPMENT SHALL BE PROVIDED WITH AND BRACED FOR REQUIRED FAULT CURRENT RATINGS BASED ON THEIR VOLTAGE AND LOCATION WITHIN THE SYSTEM. SHOP DRAWINGS TO INCLUDE FAULT CURRENT RATINGS FOR ALL ELECTRICAL EQUIPMENT. NO SERIES RATING SHALL BE
- I. ALL TERMINATIONS AND ENCLOSURES SHALL BE RATED FOR USE WITH 75 DEGREES CELSIUS CONDUCTORS.
- 5. ALL SERVICE ENTRANCE EQUIPMENT/DISTRIBUTION BOARDS/SWITCHBOARDS RATED AT 600A OR GREATER SHALL BE PROVIDED WITH A SOLID STATE MAIN OVER-CURRENT PROTECTIVE DEVICE AND BUSSING RATED AT 100% OPERATION.
- 6. ALL SWITCH/DISTRIBUTION BOARDS SHALL BE PROVIDED WITH:
- a. COPPER BUSSING WITH RECTANGULAR CROSS SECTION. HORIZONTAL AND VERTICAL BUSSING SHALL BE FULL LENGTH AND HAVE PROVISIONS FOR FUTURE EXTENSIONS WERE APPLICABLE. AL BUSSING SHALL HAVE A MINIMUM WITHSTAND RATING EQUAL TO AVAILABLE FAULT CURRENT INDICATED ON THE AIC CALCULATION. ALL VERTICAL AND HORIZONTAL BUSSING SHALL BE RATED AT FULL CAPACITY IN ALL SWITCHBOARD AND DISTRIBUTION BOARD ASSEMBLIES. PROVIDE 100% NEUTRAL BUSSING MINIMUM - UNLESS OTHERWISE NOTED. PROVIDE FULL LENGTH GROUND BUSS, AND WHERE INDICATED ON PLANS, ISOLATED GROUND BUSSING. PROVIDE REAR WIRE WAY IN ALI SWITCHBOARD SECTIONS - UNLESS OTHERWISE NOTED OR REQUIRED.
- b. LUGS SHALL BE SUITABLE FOR USE WITH COPPER CONDUCTORS AND 75 DEGREE CELSIUS AMPACITY CONDUCTORS.
- 2. PERMANENT PLACARDS(S) MARKED PER THE SPECIFICATIONS AND PER NEC (CEC WHERE ADOPTED) SECTIONS 225.37, 230.2(E), 408.4(B), 517.30(B), 690.56(B) & (C), 692.56, 700.8, 701.9, AND 702.8 DENOTING PRESENCE OF ADDITIONAL SERVICES, PHOTOVOLTAIC SYSTEMS, FUEL CELLS, EMERGENCY OR STAND-BY POWER SOURCES, ETC. AS APPLICABLE.
- . CONTRACTOR SHALL PROVIDE SWITCHBOARD SHOP DRAWINGS TO SERVING UTILITY COMPANY PRIOR TO FABRICATION OF EQUIPMENT. CONTRACTOR SHALL SECURE CONFIRMATION PROPOSED SWITCHBOARD COMPLIES WITH ELECTRICAL UTILITY COMPANY REGULATIONS.
- ). ELECTRICAL EQUIPMENT SUBMITTALS SHALL BE ACCOMPANIED BY A 1/4" = 1'-0" SCALED DRAWING WHICH REFERENCES ALL ELECTRICAL EQUIPMENT ROOMS AND EQUIPMENT. DRAWING SHALL CLEARLY IDENTIFY ADEQUATE SPACE IS PROVIDED IN ELECTRICAL ROOMS TO ACCOMMODATE THE INSTALLATION OF ELECTRICAL EQUIPMENT WHILE MAINTAINING ALL REQUIRED CODE CLEARANCES. ALL SUBMITTALS NOT ACCOMPANIED BY SCALED DRAWING WILL BE REJECTED AS INCOMPLETE.
- 10.EC SHALL CONDUCT, WITH ASSISTANCE OF SWITCHGEAR MANUFACTURER, AN ELECTRICAL HAZARD ANALYSIS CONSISTING OF AN ARC FLASH, SHORT CIRCUIT, AND COORDINATION STUDY TO DETERMINE APPROPRIATE LEVELS OF PERSONNEL PROTECTIVE EQUIPMENT (PPE) AS REQUIRED BY NFPA 70E AND IEEE STD 1584, AND TO ENSURE PROPER COORDINATION (INCLUDING GROUND FAULT COORDINATION) EXISTS BETWEEN ALL OVER- CURRENT PROTECTIVE DEVICES SHOWN ON SINGLE-LINE DIAGRAM. ADDITIONALLY:
- a. STUDY SHALL INCLUDE ALL PORTIONS OF ELECTRICAL SINGLE-LINE DIAGRAM. NORMAL SYSTEM CONNECTIONS AND THOSE THAT RESULT IN MAXIMUM FAULT CONDITION SHALL BE ADEQUATELY COVERED IN THE STUDY. PERFORM STUDY WITH THE AID OF A COMPUTER PROGRAM, SKM CAPTOR OR EQUAL. STUDY SHALL IDENTIFY SELECTIVE COORDINATION SUCH THAT DEVICE CLOSEST TO FAULT WILL TRIP FIRST. GROUND FAULT PORTION OF THE STUDY SHALL DEMONSTRATE COORDINATION OF MAIN BREAKER AND ANY FEEDER GROUND FAULT DEVICES WITH DOWNSTREAM CIRCUIT BREAKERS 30A AND LESS.
- b. EC SHALL BE RESPONSIBLE TO RECOMMEND SETTINGS OF ALL DEVICES AND TO NCLUDE GROUND FAULT SETTINGS NECESSARY TO ACHIEVE SYSTEM COORDINATION. CONTRACTOR SHALL FIELD ADJUST DEVICES ACCORDINGLY UTILIZING A QUALIFIED MANUFACTURER'S
- c. DURING THE CONSTRUCTION PHASE OF THE PROJECT ALL GROUND FAULT RELAYS SHALL BE SET AT SHORTEST AVAILABLE TIME DELAY.
- d. RESULT OF COORDINATION STUDY SHALL BE SUBMITTED AS PART OF OVERALL SWITCHGEAR SUBMITTAL AND SHALL INCLUDE PROTECTIVE DEVICE TIME VERSUS CURRENT COORDINATION CURVES, GROUPING APPROPRIATE DEVICES TOGETHER, TABULATIONS OF RELAY AND CIRCUIT BREAKER TRIP SETTINGS, FUSE SELECTION, AND COMMENTARY REGARDING SAME.
- e. A GROUND FAULT SYSTEM TEST SHALL BE CONDUCTED BY AN INDEPENDENT TESTING AGENCY PER NEC (CEC - WHERE ADOPTED) 230.95(C). GROUND FAULT SYSTEM TEST SHALL BE PERFORMED IN PRESENCE OF LOCAL AHJ. VERIFICATION OF DEVICE SETTINGS PER THE COORDINATION STUDY SHALL BE PERFORMED BY SAME INDEPENDENT TESTING AGENCY. GROUND FAULT TEST RESULTS, SHALL BE DELIVERED TO ENGINEER OF RECORD.
- PERFORM ARC FLASH ANALYSIS TO DETERMINE FLASH BOUNDARY, FLASH HAZARD CATEGORY, PPE REQUIREMENTS, AND MINIMUM ARC RATING (CAL/SQUARE CM). ABOVE INFORMATION SHALL BE INDICATED AT EACH ARC FLASH SOURCE ON A NEC (CEC WHERE ADOPTED) COMPLIANT ARC FLASH HAZARD LABEL(S) AS MANUFACTURED BY BRADY.
- 1. GROUND ALL ELECTRICAL EQUIPMENT, BRANCH CIRCUITS, FEEDERS, PANEL AND DISTRIBUTION BOARDS, ELECTRICAL SERVICES, ETC. PER ADOPTED NEC ARTICLE 250.
- 2.FEEDER SPECIFICATIONS ARE BASED ON USE OF COPPER CONDUCTORS AND SHALL BE PROVIDED WITH A CODE SIZED COPPER GROUNDING CONDUCTOR.
- 13. ALL MAIN SWITCHBOARDS, PANELBOARDS, DISTRIBUTION BOARDS, ETC SHALL BE PROVIDED WITH A COPPER BUSS RATED AT SPECIFIED AMPACITY. ALL SWITCHBOARDS AND DISTRIBUTION BOARDS SHALL ALIGN IN FRONT. ALL PANELBOARDS SHALL BE PROVIDED WITH BOLT-ON BREAKERS. DEADFRONT COVERS WITH LOCKABLE DOORS, FACTORY INSTALLED MAIN CIRCUIT BREAKERS (IF APPLICABLE), AND PANEL DIRECTORY PER THESE DOCUMENTS.
- 14. ALL ELECTRICAL EQUIPMENT (I.E. SWITCHGEAR, TRANSFORMERS, DISTRIBUTION BOARDS, PANELBOARDS, DISCONNECT SWITCHES, ETC.) SHALL BE PROVIDED WITH A PHENOLIC NAMEPLATE WITH ENGRAVED WHITE LETTERS REFERENCING FOLLOWING INFORMATION:
- LINE 1 "EQUIPMENT NAME" LINE 2 - "FED FROM ..."
- LINE 3 "VOLTAGE, AMPACITY, PHASE"
- LINE 4 "DATE INSTALLED"
- SWITCHBOARDS, DISTRIBUTION BOARDS, TRANSFORMERS:

NAMEPLATES SHALL BE SIZED BASED ON FOLLOWING:

- * LINE 1 = 1/2" LETTERS, LINES 2, 3, & 4 = 1/4" LETTERS
- PANELBOARDS, MOTOR CONTROL CENTERS, DISCONNECTS, STARTERS, ETC: * LINE 1 = 3/8" LETTERS, LINES 2, 3, & 4 = 1/4" LETTERS
- NAMEPLATE COLORS SHALL BE AS FOLLOWS:
- BLACK = NORMAL POWER RED = LIFE SAFETY/EMERGENCY POWER
- BLUE = STANDBY POWER GREEN = INVERTER POWER
- ALL NAMEPLATES SHALL BE FASTENED WITH A MINIMUM OF TWO (2) MACHINE SCREWS. NO SELF ADHESIVE NAMEPLATES ARE ALLOWED.
- 5.ELECTRICAL DESIGN COMPUTES VOLTAGE DROP BASED ON FEEDER LENGTHS REFERENCED ON SINGLE-LINE DIAGRAM. EC TO NOTIFY ENGINEER OF RECORD IN EVENT FIELD CONDITIONS CAUSE A SUBSTANTIAL INCREASE IN OVERALL FEEDER LENGTH.
- 16. ALL MOTOR RELATED CIRCUITS ARE TO BE PROVIDED WITH PROTECTIVE RELAYS FOR PHASE FAILURE AND UNDER-VOLTAGE.
- 7.ELECTRICAL CONTRACTOR TO INCLUDE IN BID ALL ASSOCIATED COSTS FOR THIRD PARTY TESTING OF ELECTRICAL EQUIPMENT, GROUND FAULT, CONDUCTORS, ETC..
- 8. ALL FEEDER DISTANCES REFERENCED ON DRAWINGS ARE FOR DESIGN PURPOSES ONLY. LENGTHS AS INDICATED ARE NOT TO BE UTILIZED IN MATERIAL TAKE-OFFS.
- 9. ALL EQUIPMENT SHALL BEAR A UL OR OTHER NRTL APPROVED LABEL AS PER CEC 110.2. REFER TO GENERAL NOTES ON THE SHEET E0.1 FOR ADDITIONAL REQUIREMENTS.

### SPECIFIC PANEL SCHEDULE NOTES:

- PROVIDE LOCK-ON DEVICE.
- PROVIDE A RED CIRCUIT BREAKER.
  - PROVIDE BREAKER INTERLOCK WITH ADJACENT BREAKER. BREAKER INTERLOCK GROUPING SHALL BE BY BRANCH CIRCUIT GROUP (i.e. MULTIPLE CIRCUITS ON A COMMON YOKE NEC 210.4(B) FURNITURE SYSTEM NEC 605.7)

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LA MESA, CALIFORNIA 91942

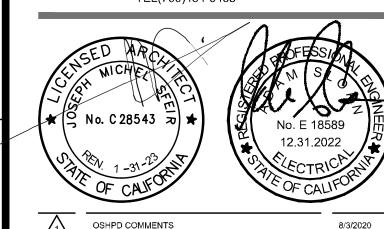
MECHANICAL SC ENGINEERS, INC. &PLUMBING: 17075 VIA DEL CAMPO SAN DIEGO, CALIFRONIA 92127

TEL(858)457-3001

TEL(858)946-0333 ELECTRICAL: AG DESIGN, INC. 171 S. ANITA DR. SUITE 111 ORANGE, CALIFRONIA 92868

TEL(714)769-9900 SHIELDING: MRI SHIELDING CORPORATION 3554 BUISNESS PARK DR., SUITE B COSTA MESA, CA 92626

TEL(714)545-7700 ISLEY DESIGN & PLANNING 1982 PALSERO AVENUE ESCONDIDO, CA 92029 TEL(760)484-0455



	Gr Ora	, OPID
$\overline{ 1}$	OSHPD COMMENTS	8/3/2020
	DESIGN CHANGES	8/10/2020
	OSHPD COMMENTS	10/2/2020
4	OSHPD COMMENTS	11/24/2020
$\overline{}$	•	

5 DESIGN CHANGES 11/24/2020 ACD 0001 DESIGN CHANGES 

DESCRIPTION DATE:

AG Design Inc onsulting Electrical Engineers 714.769.9900 www.AGDesignEng.com

171 S. Anita Dr., Ste. 111 | Orange, CA 92868 OSHPD APPROVAL STAMP:

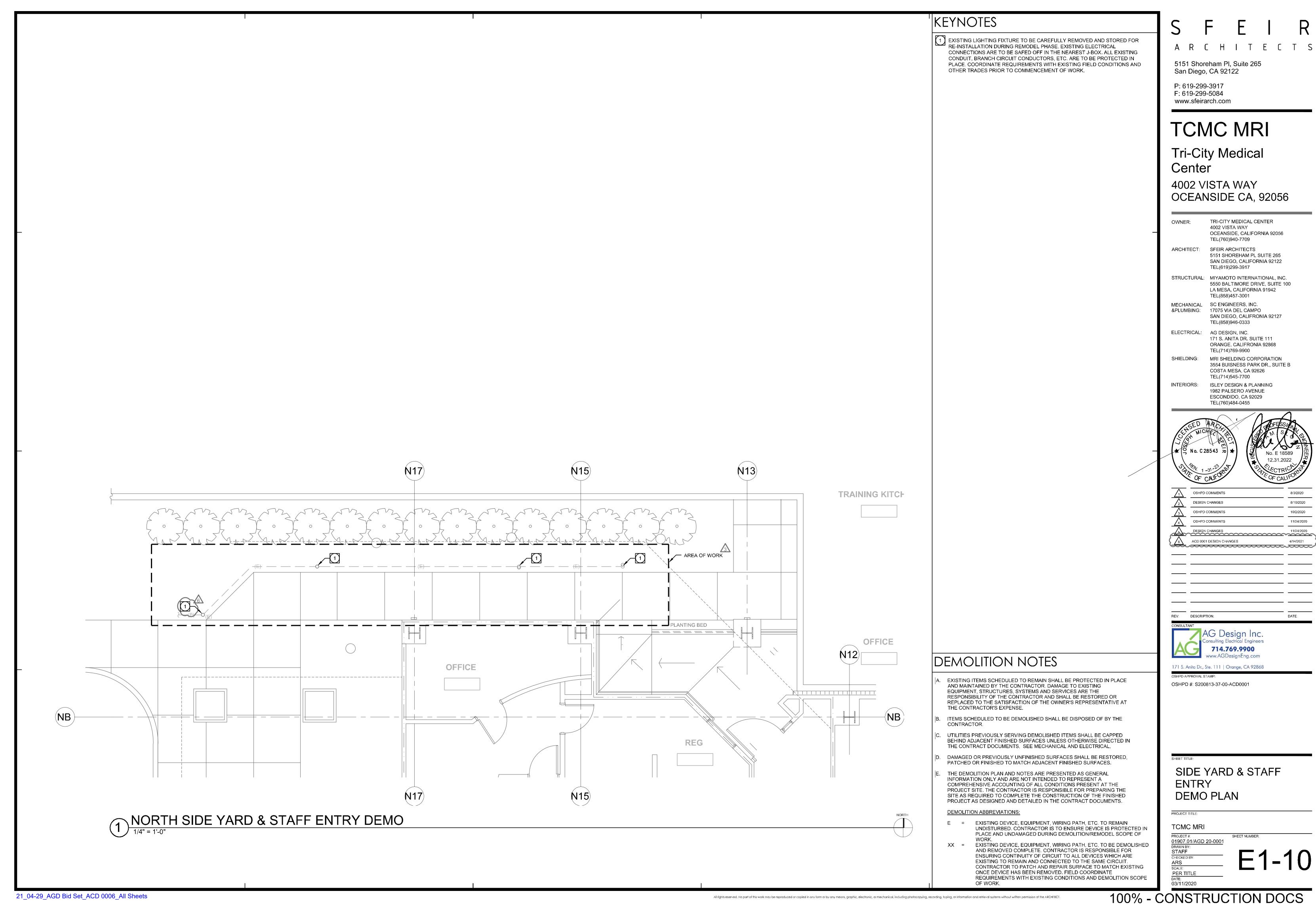
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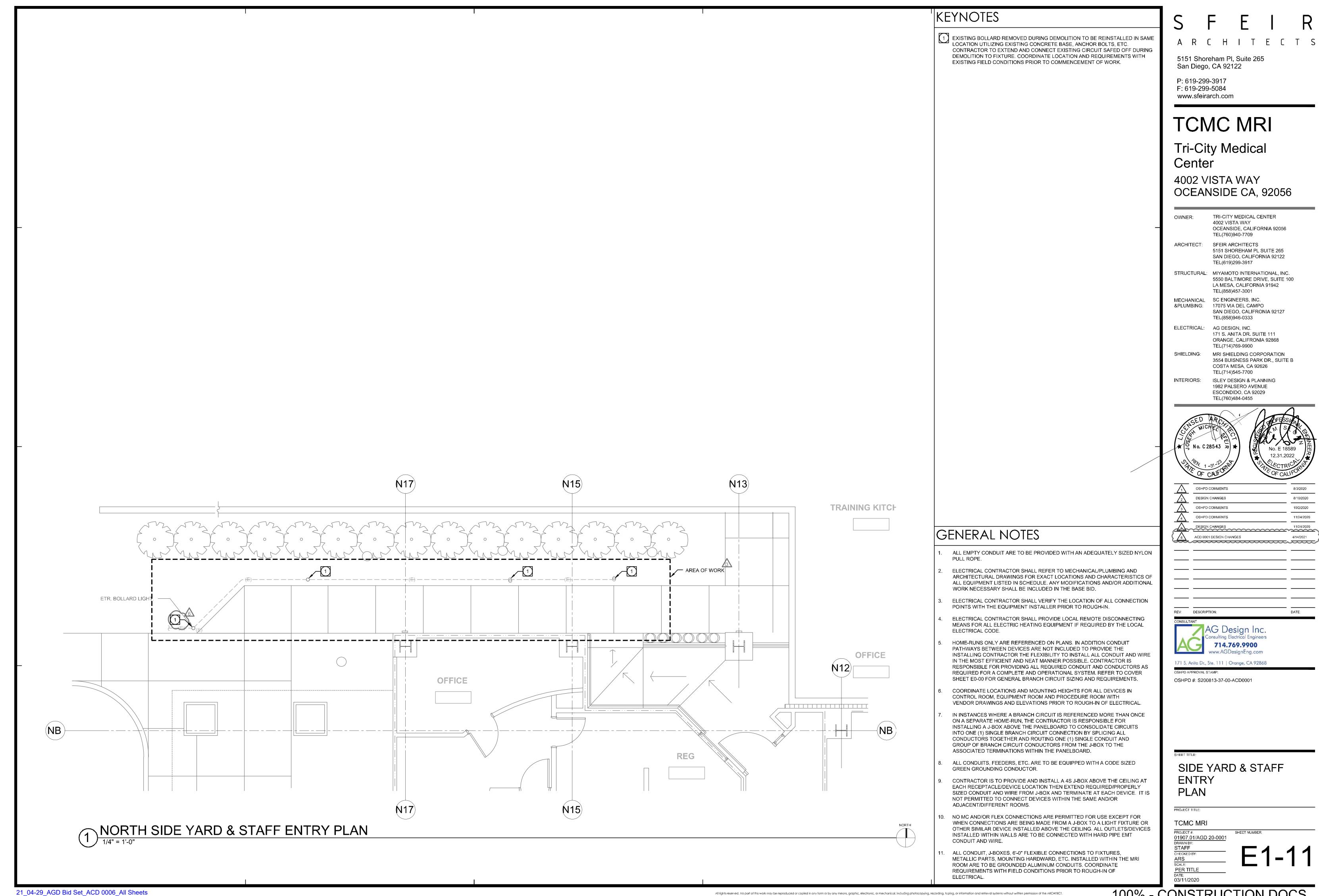
PANEL SCHEDULES & SINGLE-LINE NOTES

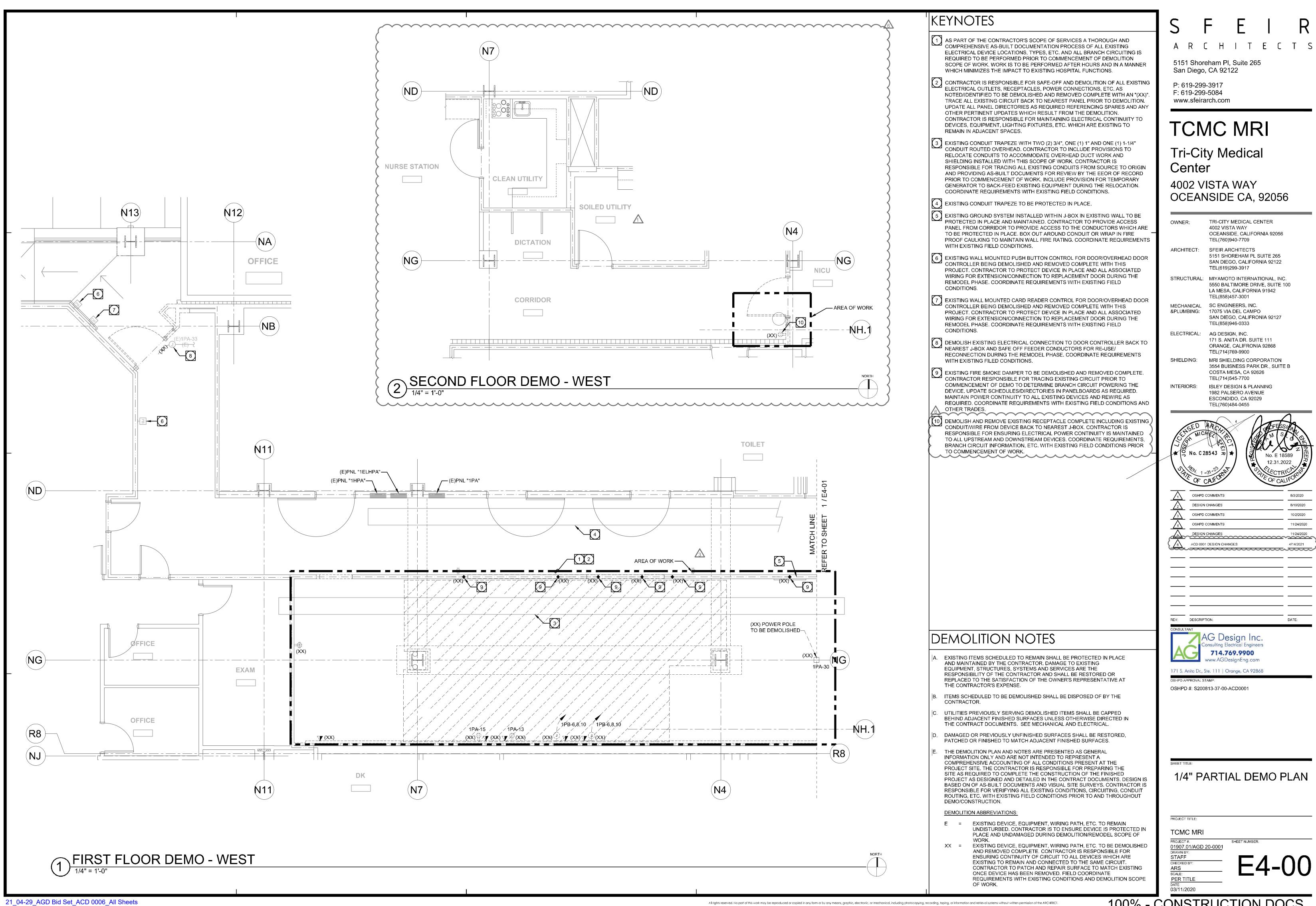
01907.01/AGD 20-0001 STAFF CHECKED BY:

TCMC MRI

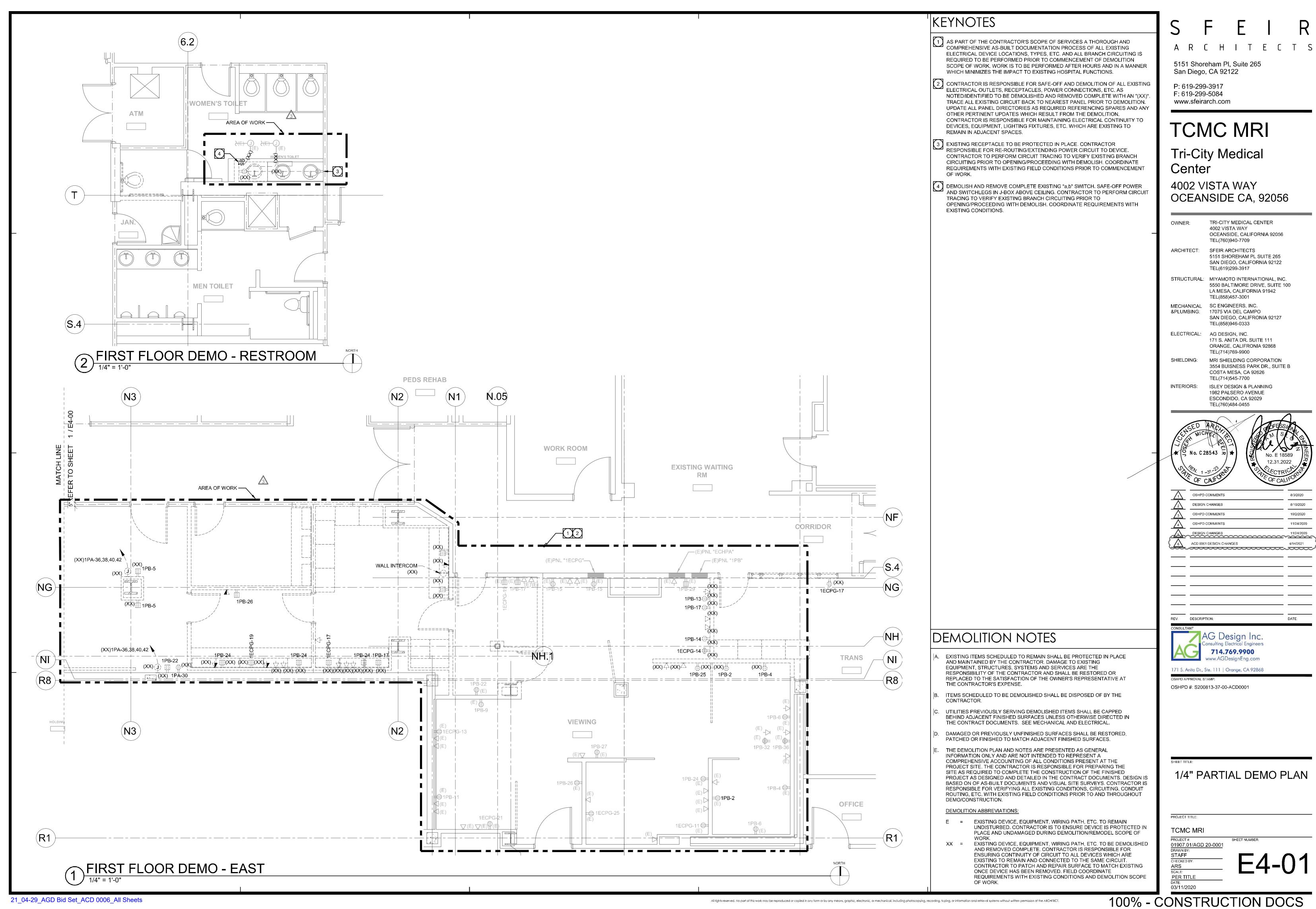
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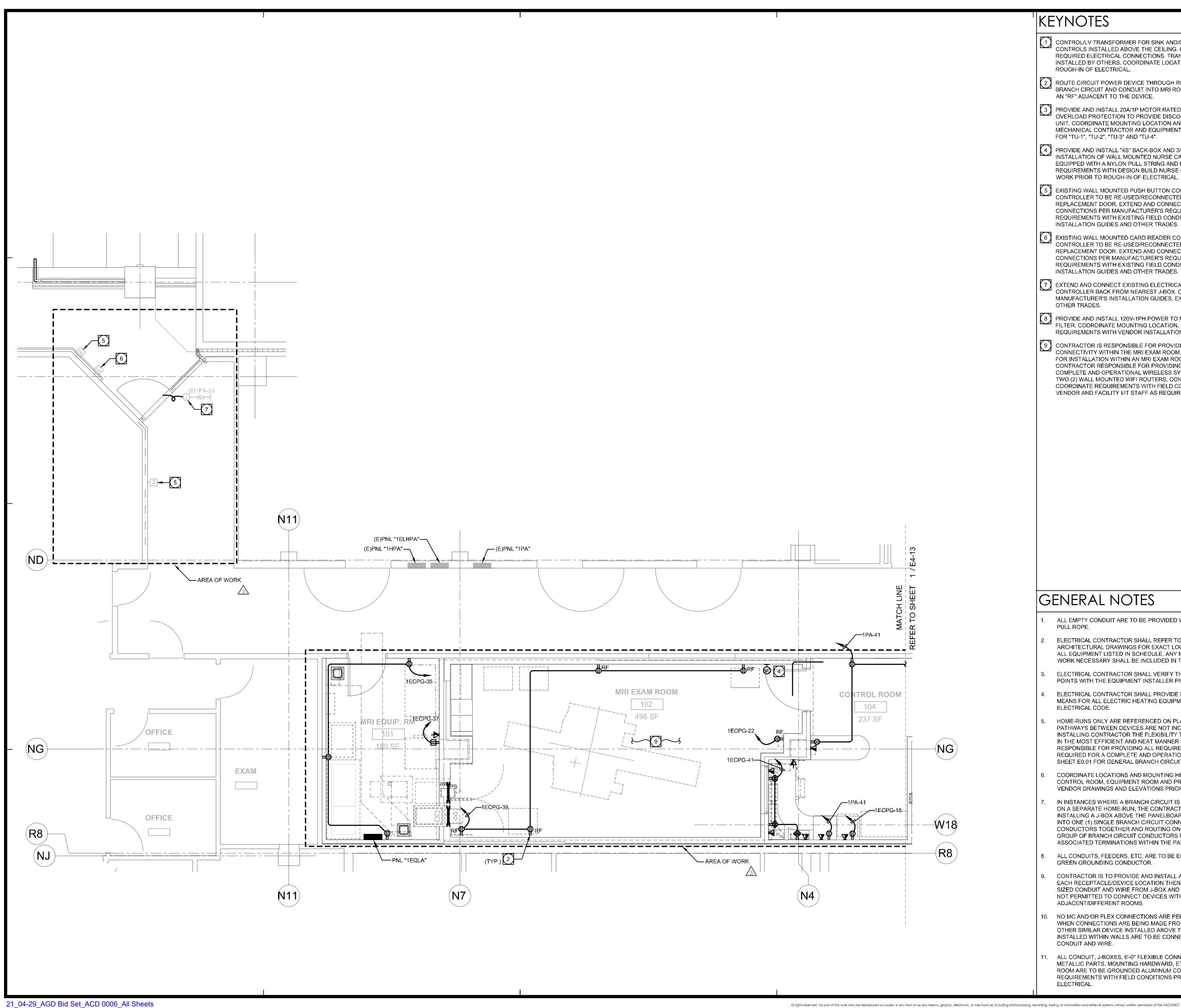






100% - CONSTRUCTION DOCS





### KEYNOTES

- 1 CONTROL/LV TRANSFORMER FOR SINK AND/OR AUTOFLUSH VALVE AUTOMATIC CONTROLS INSTALLED ABOVE THE CEILING. CONTRACTOR TO PROVIDE ALL REQUIRED ELECTRICAL CONNECTIONS. TRANSFORMER PROVIDED AND INSTALLED BY OTHERS. COORDINATE LOCATION AND REQUIREMENTS PRIOR TO ROUGH-IN OF ELECTRICAL.
- 2 ROUTE CIRCUIT POWER DEVICE THROUGH RF FILTER PRIOR TO EXTENDING BRANCH CIRCUIT AND CONDUIT INTO MRI ROOM. TYPICAL FOR ALL DEVICES WITH AN "RF" ADJACENT TO THE DEVICE.
- 3 PROVIDE AND INSTALL 20A/1P MOTOR RATED TOGGLE SWITCH WITH THERMAL OVERLOAD PROTECTION TO PROVIDE DISCONNECTING MEANS FOR TERMINAL UNIT. COORDINATE MOUNTING LOCATION AND CONNECTIONS POINT WITH MECHANICAL CONTRACTOR AND EQUIPMENT INSTALLATION DRAWINGS. TYPICAL FOR "TU-1", "TU-2", "TU-3" AND "TU-4".
- PROVIDE AND INSTALL "4S" BACK-BOX AND 3/4"C.O. TO ACCESSIBLE CEILING FOR INSTALLATION OF WALL MOUNTED NURSE CALL DEVICE. CONDUIT TO BE EQUIPPED WITH A NYLON PULL STRING AND PROTECTIVE BUSHING. COORDINATE REQUIREMENTS WITH DESIGN BUILD NURSE CALL CONTRACTOR SCOPE OF WORK PRIOR TO ROUGH-IN OF ELECTRICAL.
- (5) EXISTING WALL MOUNTED PUSH BUTTON CONTROL FOR DOOR/OVERHEAD DOOR CONTROLLER TO BE RE-USED/RECONNECTED FOR MOTORIZED CONTROL OF REPLACEMENT DOOR. EXTEND AND CONNECT LOW VOLTAGE CONTROL CONNECTIONS PER MANUFACTURER'S REQUIREMENTS. COORDINATE REQUIREMENTS WITH EXISTING FIELD CONDITIONS, MANUFACTURER'S INSTALLATION GUIDES AND OTHER TRADES.
- (6) EXISTING WALL MOUNTED CARD READER CONTROL FOR DOOR/OVERHEAD DOOR CONTROLLER TO BE RE-USED/RECONNECTED FOR MOTORIZED CONTROL OF REPLACEMENT DOOR. EXTEND AND CONNECT LOW VOLTAGE CONTROL CONNECTIONS PER MANUFACTURER'S REQUIREMENTS. COORDINATE REQUIREMENTS WITH EXISTING FIELD CONDITIONS, MANUFACTURER'S INSTALLATION GUIDES AND OTHER TRADES.
- (7) EXTEND AND CONNECT EXISTING ELECTRICAL CONNECTION TO DOOR CONTROLLER BACK FROM NEAREST J-BOX. COORDINATE REQUIREMENTS MANUFACTURER'S INSTALLATION GUIDES, EXISTING FILED CONDITIONS AND OTHER TRADES.
- 8 PROVIDE AND INSTALL 120V-1PH POWER TO MAGNET RUNDOWN UNIT FROM RF FILTER. COORDINATE MOUNTING LOCATION, CONNECTION AND INSTALLATION REQUIREMENTS WITH VENDOR INSTALLATION GUIDE AND INSTALLER.
- (9) CONTRACTOR IS RESPONSIBLE FOR PROVIDING WIFI DEVICES AND CONNECTIVITY WITHIN THE MRI EXAM ROOM. ALL EQUIPMENT TO BE SUITABLE FOR INSTALLATION WITHIN AN MRI EXAM ROOM AND SHIELDED AS REQUIRED. CONTRACTOR RESPONSIBLE FOR PROVIDING ALL EQUIPMENT NECESSARY FOR A COMPLETE AND OPERATIONAL WIRELESS SYSTEM INCLUSIVE OF A MINIMUM OF TWO (2) WALL MOUNTED WIFI ROUTERS, CONDUITS, CABLING, ETC. AS REQUIRED. COORDINATE REQUIREMENTS WITH FIELD CONDITIONS, OTHER TRADES, MRI VENDOR AND FACILITY I/IT STAFF AS REQUIRED.

### GENERAL NOTES

- ALL EMPTY CONDUIT ARE TO BE PROVIDED WITH AN ADEQUATELY SIZED NYLON PULL ROPE.
- ELECTRICAL CONTRACTOR SHALL REFER TO MECHANICAL/PLUMBING AND ARCHITECTURAL DRAWINGS FOR EXACT LOCATIONS AND CHARACTERISTICS OF ALL EQUIPMENT LISTED IN SCHEDULE. ANY MODIFICATIONS AND/OR ADDITIONAL WORK NECESSARY SHALL BE INCLUDED IN THE BASE BID.
- ELECTRICAL CONTRACTOR SHALL VERIFY THE LOCATION OF ALL CONNECTION POINTS WITH THE EQUIPMENT INSTALLER PRIOR TO ROUGH-IN.
- ELECTRICAL CONTRACTOR SHALL PROVIDE LOCAL REMOTE DISCONNECTING MEANS FOR ALL ELECTRIC HEATING EQUIPMENT IF REQUIRED BY THE LOCAL ELECTRICAL CODE.
- HOME-RUNS ONLY ARE REFERENCED ON PLANS. IN ADDITION CONDUIT PATHWAYS BETWEEN DEVICES ARE NOT INCLUDED TO PROVIDE THE INSTALLING CONTRACTOR THE FLEXIBILITY TO INSTALL ALL CONDUIT AND WIRE IN THE MOST EFFICIENT AND NEAT MANNER POSSIBLE. CONTRACTOR IS RESPONSIBLE FOR PROVIDING ALL REQUIRED CONDUIT AND CONDUCTORS AS REQUIRED FOR A COMPLETE AND OPERATIONAL SYSTEM. REFER TO COVER SHEET E0.01 FOR GENERAL BRANCH CIRCUIT SIZING AND REQUIREMENTS.
- COORDINATE LOCATIONS AND MOUNTING HEIGHTS FOR ALL DEVICES IN CONTROL ROOM, EQUIPMENT ROOM AND PROCEDURE ROOM WITH VENDOR DRAWINGS AND ELEVATIONS PRIOR TO ROUGH-IN OF ELECTRICAL
- IN INSTANCES WHERE A BRANCH CIRCUIT IS REFERENCED MORE THAN ONCE ON A SEPARATE HOME-RUN, THE CONTRACTOR IS RESPONSIBLE FOR INSTALLING A J-BOX ABOVE THE PANELBOARD TO CONSOLIDATE CIRCUITS INTO ONE (1) SINGLE BRANCH CIRCUIT CONNECTION BY SPLICING ALL CONDUCTORS TOGETHER AND ROUTING ONE (1) SINGLE CONDUIT AND GROUP OF BRANCH CIRCUIT CONDUCTORS FROM THE J-BOX TO THE ASSOCIATED TERMINATIONS WITHIN THE PANELBOARD.
- ALL CONDUITS, FEEDERS, ETC. ARE TO BE EQUIPPED WITH A CODE SIZED GREEN GROUNDING CONDUCTOR.
- CONTRACTOR IS TO PROVIDE AND INSTALL A 4S J-BOX ABOVE THE CEILING AT EACH RECEPTACLE/DEVICE LOCATION THEN EXTEND REQUIRED/PROPERLY SIZED CONDUIT AND WIRE FROM J-BOX AND TERMINATE AT EACH DEVICE. IT IS NOT PERMITTED TO CONNECT DEVICES WITHIN THE SAME AND/OR ADJACENT/DIFFERENT ROOMS.
- NO MC AND/OR FLEX CONNECTIONS ARE PERMITTED FOR USE EXCEPT FOR WHEN CONNECTIONS ARE BEING MADE FROM A J-BOX TO A LIGHT FIXTURE OR OTHER SIMILAR DEVICE INSTALLED ABOVE THE CEILING. ALL OUTLETS/DEVICES INSTALLED WITHIN WALLS ARE TO BE CONNECTED WITH HARD PIPE EMT CONDUIT AND WIRE.
- 1. ALL CONDUIT, J-BOXES, 6'-0" FLEXIBLE CONNECTIONS TO FIXTURES, METALLIC PARTS, MOUNTING HARDWARD, ETC. INSTALLED WITHIN THE MRI ROOM ARE TO BE GROUNDED ALUMINUM CONDUITS. COORDINATE REQUIREMENTS WITH FIELD CONDITIONS PRIOR TO ROUGH-IN OF ELECTRICAL.

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> TEL(714)545-7700 ISLEY DESIGN & PLANNING

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DESIGN CHANGES 8/10/2020 10/2/2020 OSHPD COMMENTS OSHPD COMMENTS 11/24/2020 ACD 0001 DESIGN CHANGES 4/14/2021

DESCRIPTION:

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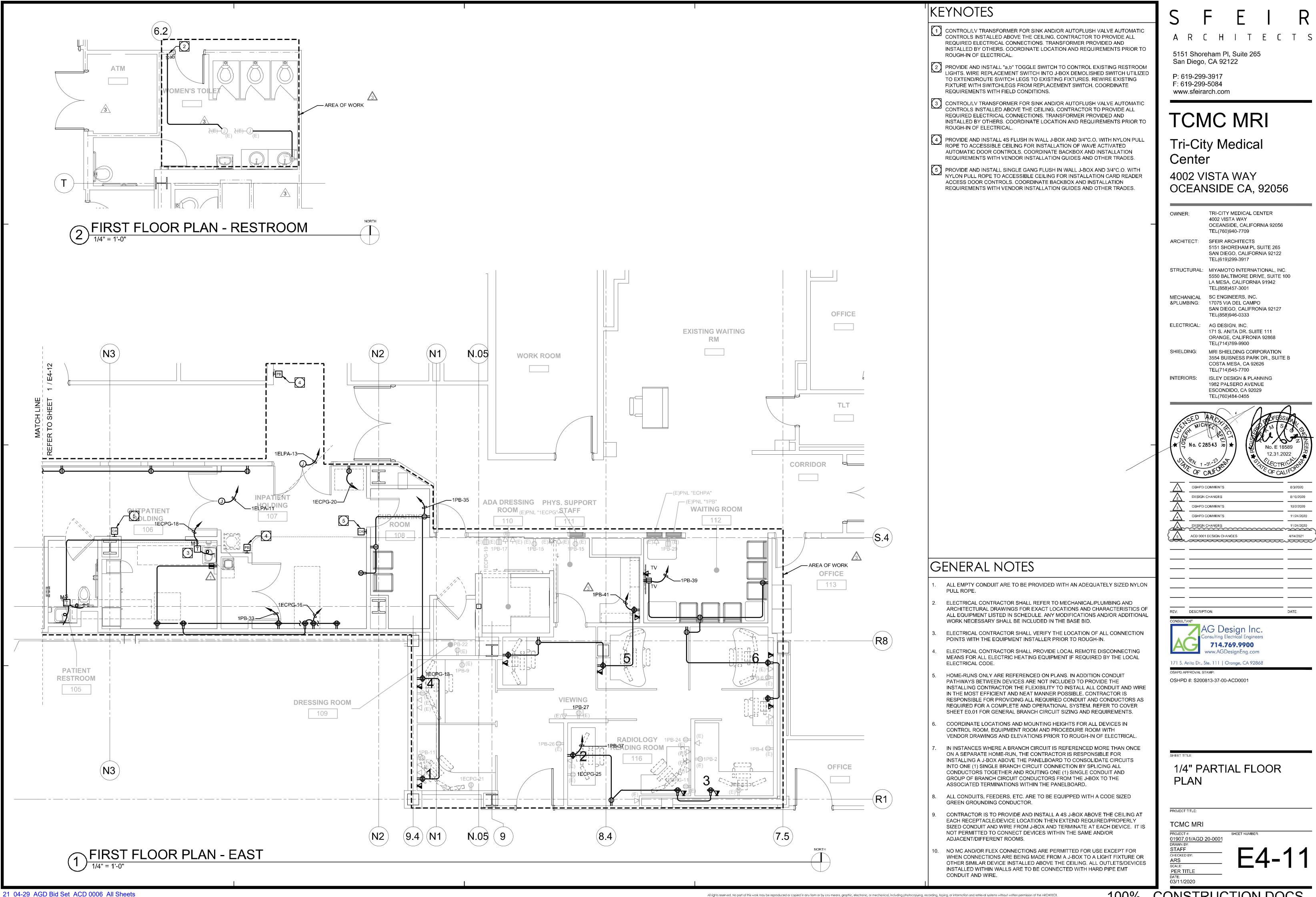
OSHPD #: \$200813-37-00-ACD0001

### 1/4" PARTIAL FLOOR PLAN

TCMC MRI

PER TITLE

01907.01/AGD 20-0001



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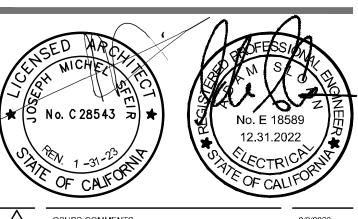
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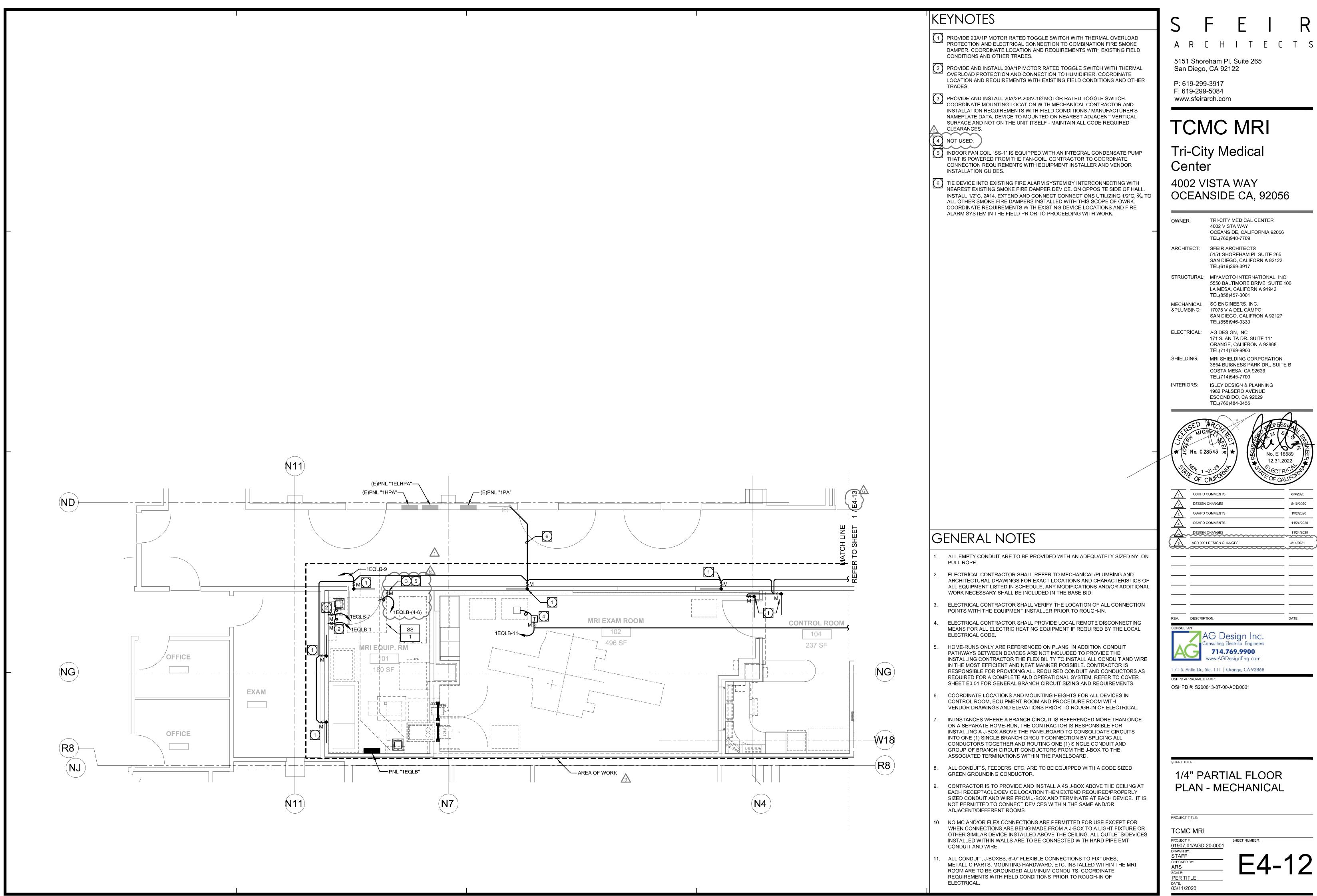
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1/4" PARTIAL FLOOR

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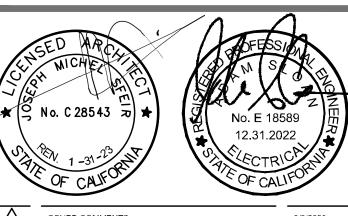
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5550 BALTIMORE DRIVE, SUITE 100

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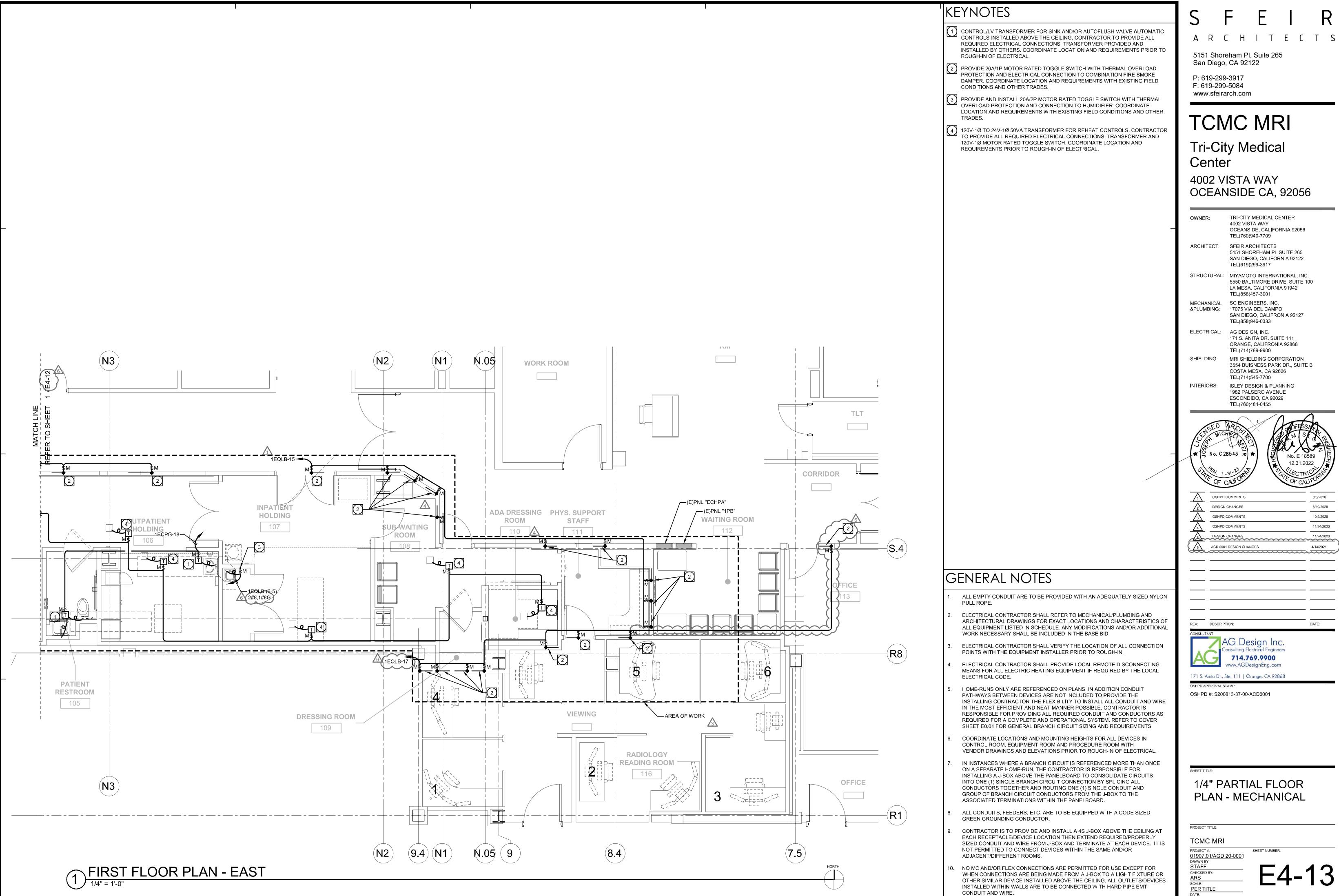
SHIELDING: MRI SHIELDING CORPORATION



1	OSHPD COMMENTS	8/3/2020
2	DESIGN CHANGES	8/10/2020
3	OSHPD COMMENTS	10/2/2020
4	OSHPD COMMENTS	11/24/2020
<u></u>	DESIGN CHANGES	11/24/2020

ACD 0001 DESIGN CHANGES

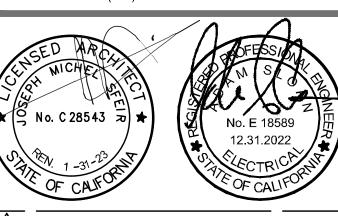
1/4" PARTIAL FLOOR



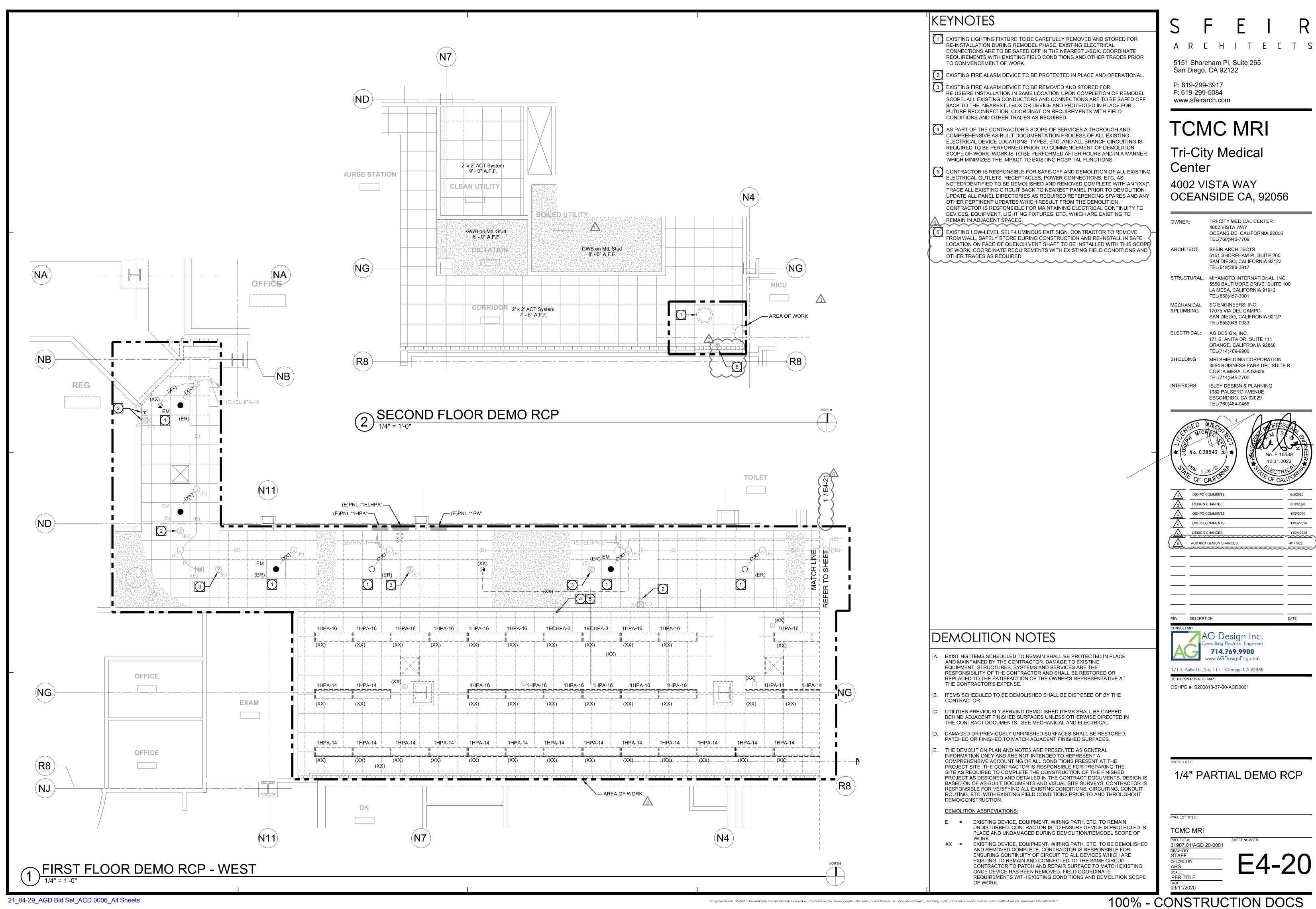
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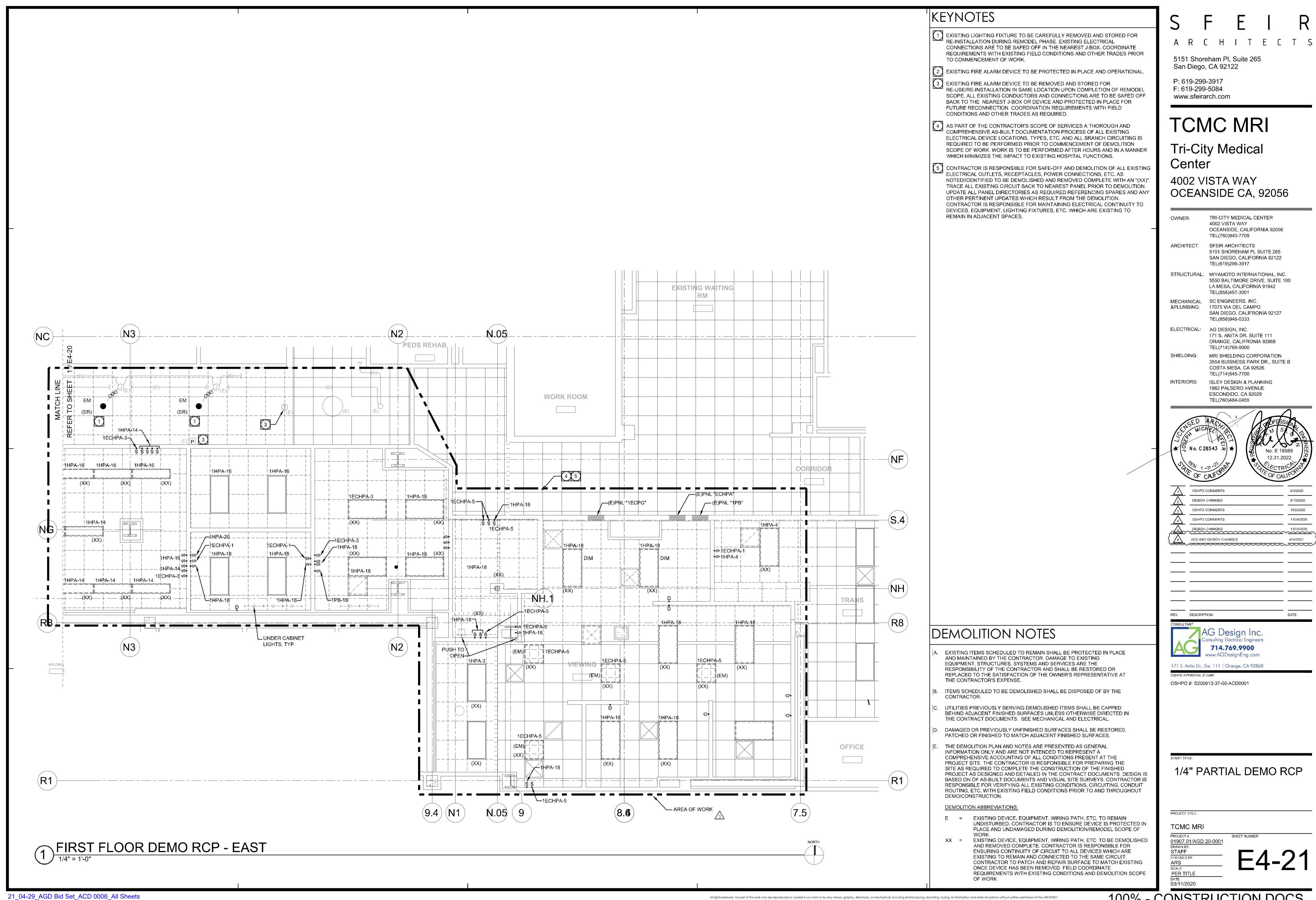
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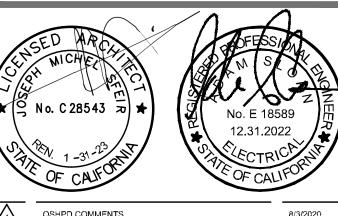
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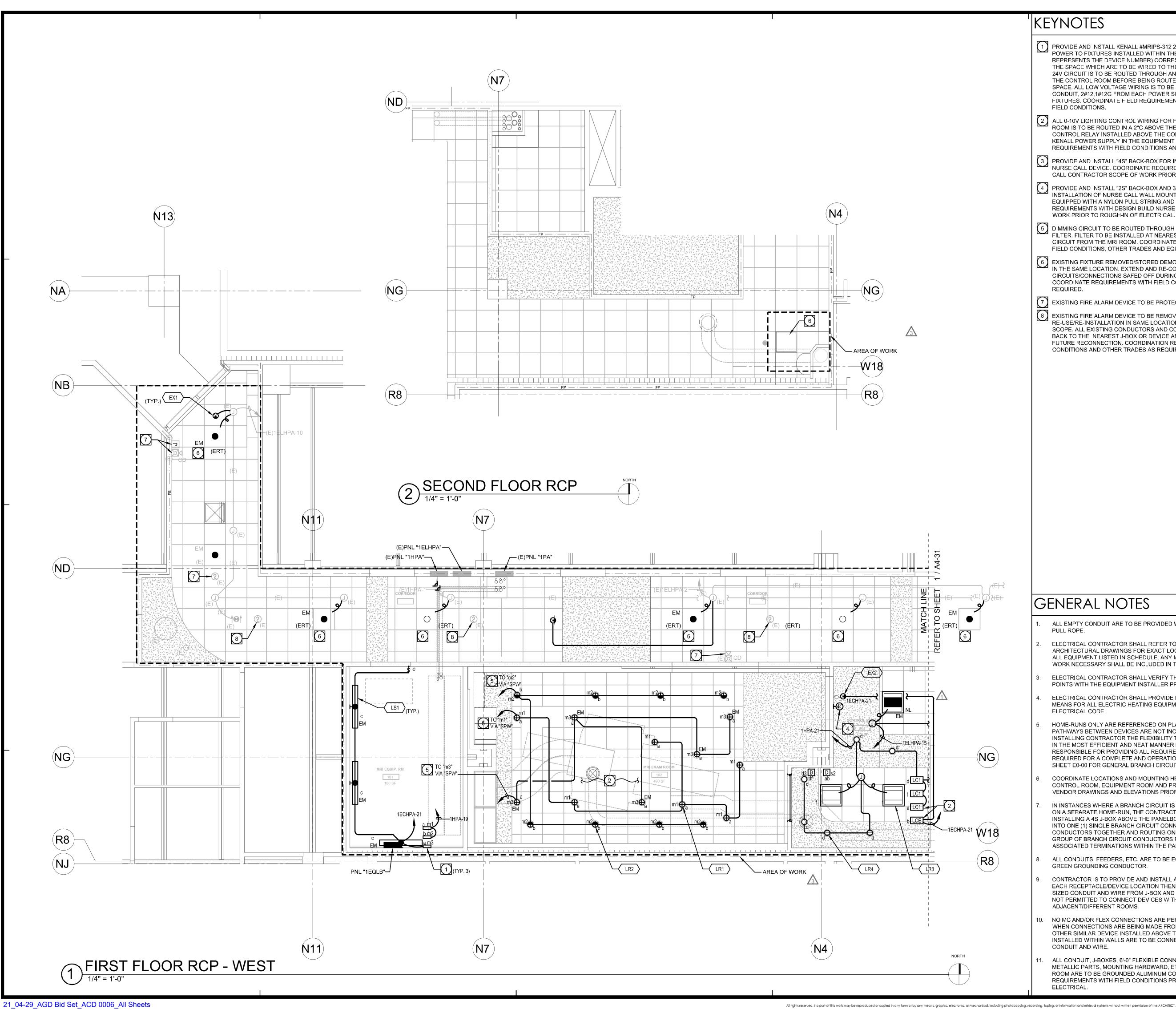
1	OSHPD COMMENTS	8/3/2020
2	DESIGN CHANGES	8/10/2020
$\sqrt{3}$	OSHPD COMMENTS	10/2/2020
4	OSHPD COMMENTS	11/24/2020
<u> </u>	DESIGN CHANGES	11/24/2020







	OSHPD COMMENTS	8/3/2020
2	DESIGN CHANGES	8/10/2020
3	OSHPD COMMENTS	10/2/2020
4	OSHPD COMMENTS	11/24/2020
	DESIGN CHANGES	11/24/2020
<u>6</u>	ACD 0001 DESIGN CHANGES	4/14/2021



### KEYNOTES

- 1 PROVIDE AND INSTALL KENALL #MRIPS-312 24V POWER SUPPLY TO PROVIDE POWER TO FIXTURES INSTALLED WITHIN THE MRI ROOM. THE "M* (WHERE THE * REPRESENTS THE DEVICE NUMBER) CORRESPONDS TO THE FIXTURE(S) WITHIN THE SPACE WHICH ARE TO BE WIRED TO THE SPECIFIC POWER SUPPLY. EACH 24V CIRCUIT IS TO BE ROUTED THROUGH AN RF FILTER ALSO INSTALLED WITHIN THE CONTROL ROOM BEFORE BEING ROUTED TO THE FIXTURES WITHIN THE SPACE. ALL LOW VOLTAGE WIRING IS TO BE SHIELDED. ROUTE (1)1/2" ALUMINUM CONDUIT, 2#12,1#12G FROM EACH POWER SUPPLY TO THE RESPECTIVE FIXTURES. COORDINATE FIELD REQUIREMENTS WITH EQUIPMENT VENDOR AND FIELD CONDITIONS.
- 2 ALL 0-10V LIGHTING CONTROL WIRING FOR FIXTURES INSTALLED IN MRI SCAN ROOM IS TO BE ROUTED IN A 2"C ABOVE THE SHIELDING FROM LIGHTING CONTROL RELAY INSTALLED ABOVE THE CONTROL ROOM CEILING TO THE KENALL POWER SUPPLY IN THE EQUIPMENT ROOM. COORDINATE ROUTING AND REQUIREMENTS WITH FIELD CONDITIONS AND VENDOR REQUIREMENTS.
- 3 PROVIDE AND INSTALL "4S" BACK-BOX FOR INSTALLATION OF CEILING MOUNTED NURSE CALL DEVICE. COORDINATE REQUIREMENTS WITH DESIGN BUILD NURSE CALL CONTRACTOR SCOPE OF WORK PRIOR TO ROUGH-IN OF ELECTRICAL.
- PROVIDE AND INSTALL "2S" BACK-BOX AND 3/4"C.O. TO ACCESSIBLE CEILING FOR INSTALLATION OF NURSE CALL WALL MOUNTED DEVICE. CONDUIT TO BE EQUIPPED WITH A NYLON PULL STRING AND PROTECTIVE BUSHING. COORDINAT REQUIREMENTS WITH DESIGN BUILD NURSE CALL CONTRACTOR SCOPE OF WORK PRIOR TO ROUGH-IN OF ELECTRICAL.
- [ 5 ] DIMMING CIRCUIT TO BE ROUTED THROUGH KENALL "MRIFD-1A" DIMMING RF FILTER. FILTER TO BE INSTALLED AT NEAREST POINT OF EXIT OF DIMMING CIRCUIT FROM THE MRI ROOM. COORDINATE ROUTING AND REQUIREMENTS WITH FIELD CONDITIONS, OTHER TRADES AND EQUIPMENT VENDOR AS REQUIRED.
- 6 EXISTING FIXTURE REMOVED/STORED DEMOLITION PHASE TO BE RE-INSTALLED IN THE SAME LOCATION. EXTEND AND RE-CONNECT EXISTING CIRCUITS/CONNECTIONS SAFED OFF DURING THE DEMOLITION PHASE. COORDINATE REQUIREMENTS WITH FIELD CONDITIONS AND OTHER TRADES AS
- 7 EXISTING FIRE ALARM DEVICE TO BE PROTECTED IN PLACE AND OPERATIONAL.
- 8 EXISTING FIRE ALARM DEVICE TO BE REMOVED AND STORED FOR RE-USE/RE-INSTALLATION IN SAME LOCATION UPON COMPLETION OF REMODEL SCOPE. ALL EXISTING CONDUCTORS AND CONNECTIONS ARE TO BE SAFED OFF BACK TO THE NEAREST J-BOX OR DEVICE AND PROTECTED IN PLACE FOR FUTURE RECONNECTION. COORDINATION REQUIREMENTS WITH FIELD CONDITIONS AND OTHER TRADES AS REQUIRED.

### GENERAL NOTES

- ALL EMPTY CONDUIT ARE TO BE PROVIDED WITH AN ADEQUATELY SIZED NYLON
- ELECTRICAL CONTRACTOR SHALL REFER TO MECHANICAL/PLUMBING AND ARCHITECTURAL DRAWINGS FOR EXACT LOCATIONS AND CHARACTERISTICS OF ALL EQUIPMENT LISTED IN SCHEDULE. ANY MODIFICATIONS AND/OR ADDITIONAL WORK NECESSARY SHALL BE INCLUDED IN THE BASE BID.
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- COORDINATE LOCATIONS AND MOUNTING HEIGHTS FOR ALL DEVICES IN CONTROL ROOM, EQUIPMENT ROOM AND PROCEDURE ROOM WITH VENDOR DRAWINGS AND ELEVATIONS PRIOR TO ROUGH-IN OF ELECTRICAL
- IN INSTANCES WHERE A BRANCH CIRCUIT IS REFERENCED MORE THAN ONCE ON A SEPARATE HOME-RUN, THE CONTRACTOR IS RESPONSIBLE FOR INSTALLING A 4S J-BOX ABOVE THE PANELBOARD TO CONSOLIDATE CIRCUITS INTO ONE (1) SINGLE BRANCH CIRCUIT CONNECTION BY SPLICING ALL CONDUCTORS TOGETHER AND ROUTING ONE (1) SINGLE CONDUIT AND GROUP OF BRANCH CIRCUIT CONDUCTORS FROM THE J-BOX TO THE ASSOCIATED TERMINATIONS WITHIN THE PANELBOARD.
- ALL CONDUITS, FEEDERS, ETC. ARE TO BE EQUIPPED WITH A CODE SIZED GREEN GROUNDING CONDUCTOR.
- CONTRACTOR IS TO PROVIDE AND INSTALL A 4S J-BOX ABOVE THE CEILING AT EACH RECEPTACLE/DEVICE LOCATION THEN EXTEND REQUIRED/PROPERLY SIZED CONDUIT AND WIRE FROM J-BOX AND TERMINATE AT EACH DEVICE. IT IS NOT PERMITTED TO CONNECT DEVICES WITHIN THE SAME AND/OR ADJACENT/DIFFERENT ROOMS.
- 10. NO MC AND/OR FLEX CONNECTIONS ARE PERMITTED FOR USE EXCEPT FOR WHEN CONNECTIONS ARE BEING MADE FROM A J-BOX TO A LIGHT FIXTURE OR OTHER SIMILAR DEVICE INSTALLED ABOVE THE CEILING. ALL OUTLETS/DEVICES INSTALLED WITHIN WALLS ARE TO BE CONNECTED WITH HARD PIPE EMT CONDUIT AND WIRE.
- ALL CONDUIT, J-BOXES, 6'-0" FLEXIBLE CONNECTIONS TO FIXTURES, METALLIC PARTS, MOUNTING HARDWARD, ETC. INSTALLED WITHIN THE MRI ROOM ARE TO BE GROUNDED ALUMINUM CONDUITS. COORDINATE REQUIREMENTS WITH FIELD CONDITIONS PRIOR TO ROUGH-IN OF

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2	DESIGN CHANGES	8/10/2020
3	OSHPD COMMENTS	10/2/2020
4	OSHPD COMMENTS	11/24/2020
<u></u>	DESIGN CHANGES	11/24/2020

<u>/</u> ACD 0001 DESIGN CHANGES

DESCRIPTION:

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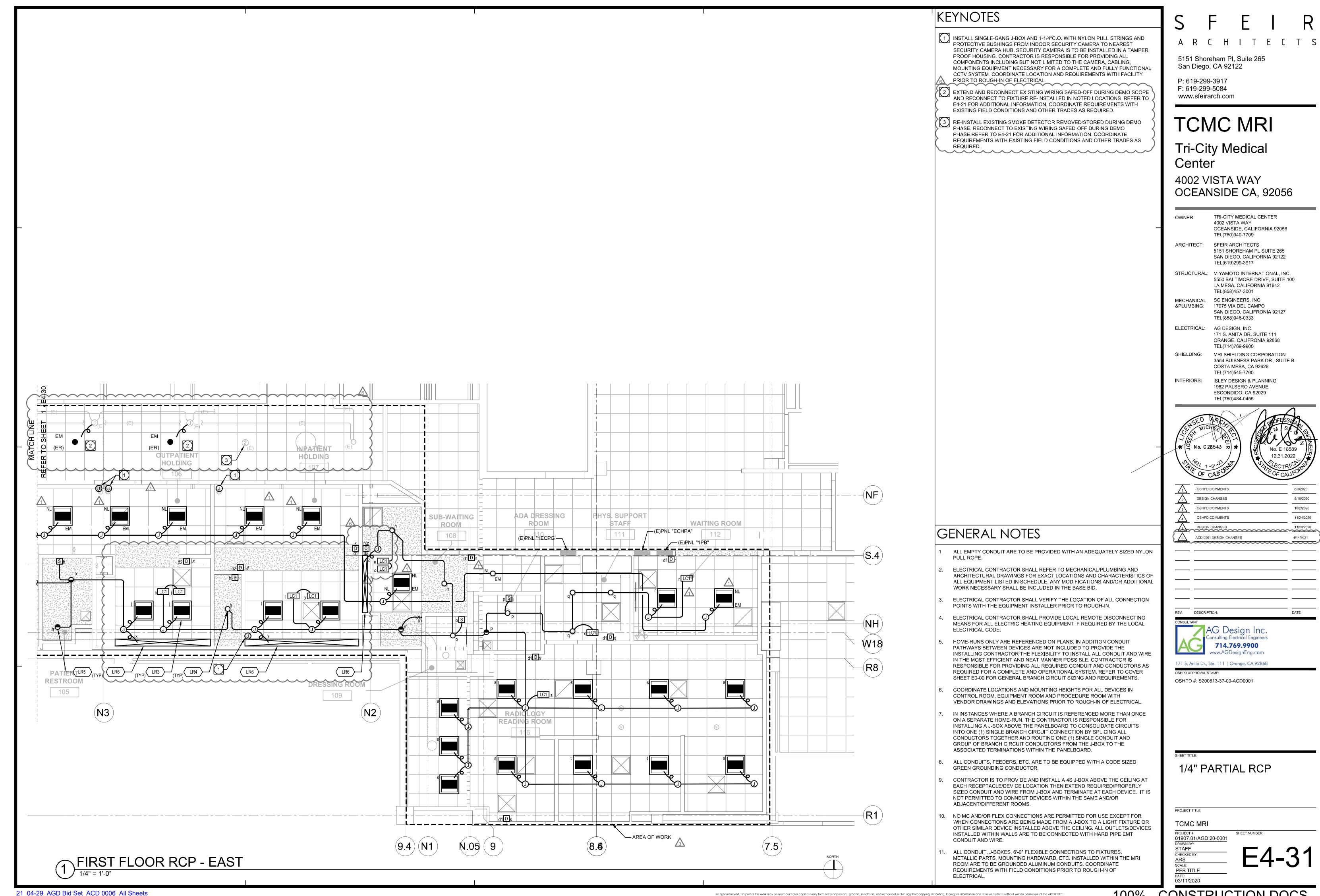
OSHPD #: \$200813-37-00-ACD0001

1/4" PARTIAL RCP

TCMC MRI

PER TITLE

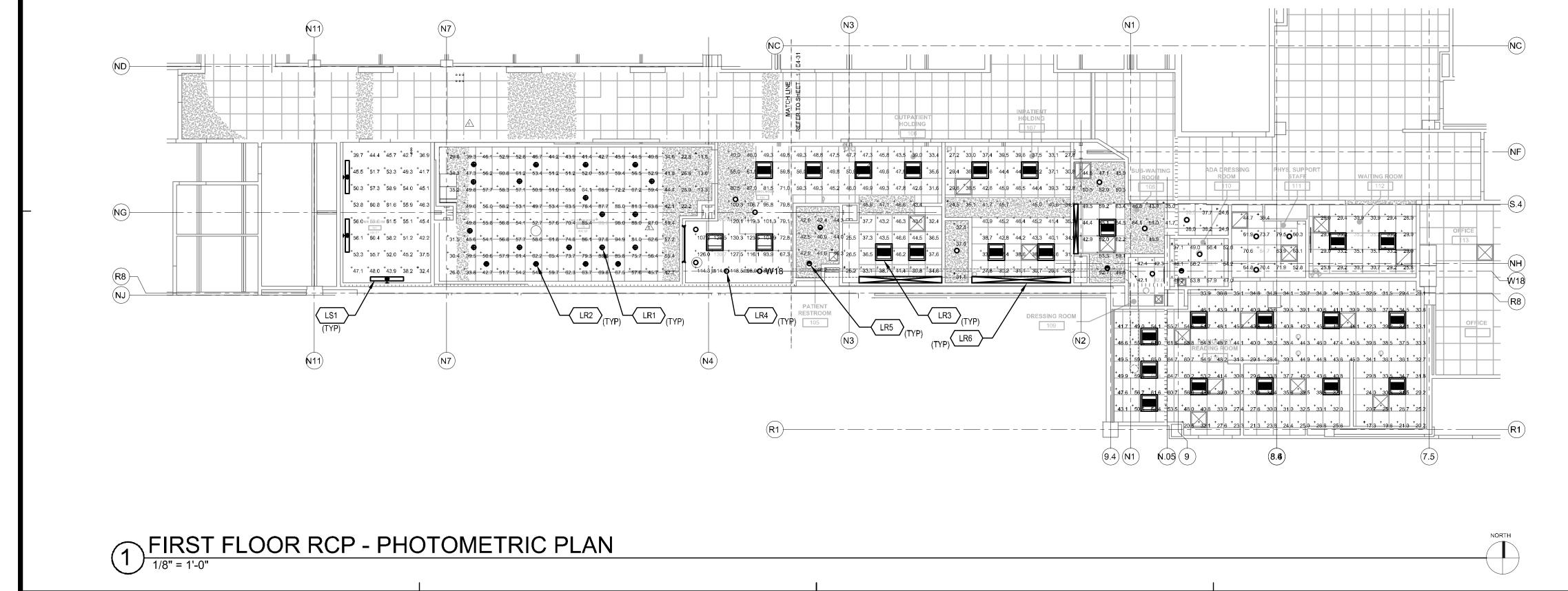
01907.01/AGD 20-0001 STAFF



Label	Lumens Per Lamp	Light Loss Factor	Wattage
LR3	3920	0.9	35
LS1	4682	0.9	41.44
LR1	151	0.9	37
LR2	132	0.9	37
LS2	4559	0.9	34.31
LR4	2707	0.9	34.75
LR5	2647	0.9	0.8829

			Statistics						
	Light Loss Factor	Wattage	Description	Symbol	Avg	Max	Min	Max/Min	Avg/Min
	0.9	35	DRESSING ROOM 109	+	42.3 fc	42.6 fc	42.1 fc	1.0:1	1.0:1
			DRESSING ROOM 110	+	52.0 fc	63.1 fc	37.1 fc	1.7:1	1.4:1
			HALLWAY 103/ CONTROL 104/ HOLDING RM 105	+	64.0 fc	130.7 fc	25.2 fc	5.2:1	2.5:1
	0.9	41.44	MRI EQUIP. RM. 101	+	49.9 fc	62.0 fc	32.4 fc	1.9:1	1.5:1
	0.9	41.44	MRI EXAM RM. 102	+	55.8 fc	99.7 fc	11.8 fc	8.4:1	4.7:1
			PATIENT RESTROOM 105	+	43.1 fc	46.6 fc	40.3 fc	1.2:1	1.1:1
			PHYS. SUPPORT STAFF 11	+	65.8 fc	84.7 fc	39.4 fc	2.1:1	1.7:1
		<u> </u>	RAIDIOLOGY READING ROOM 116	+	39.7 fc	65.4 fc	17.3 fc	3.8:1	2.3:1
	0.9	37	STORAGE 107	+	34.4 fc	37.1 fc	31.1 fc	1.2:1	1.1:1
			SUB-WAITING RM. 108	+	51.6 fc	65.0 fc	35.0 fc	1.9:1	1.5:1
			SUB-WAITING ROOM 108	+	33.6 fc	38.3 fc	24.6 fc	1.6:1	1.4:1
			TRANSFER RM. 107	+	37.5 fc	46.7 fc	24.5 fc	1.9:1	1.5:1
			WAITING ROOM 112	T +	30.6 fc	35.2 fc	25.8 fc	1.4:1	1.2:1
			NOTE: STANDARD IES RECOMMEN CALCULATION: 50% CEILING, 80%		-	-	-		

RECESSED BASED - CEILING HEIGHTS REFERENCED ON PLANS. LIGHT LOSS FACTOR OF 0.9 WAS UTILIZED AS NOTED IN FIXTURE SCHEDULE.



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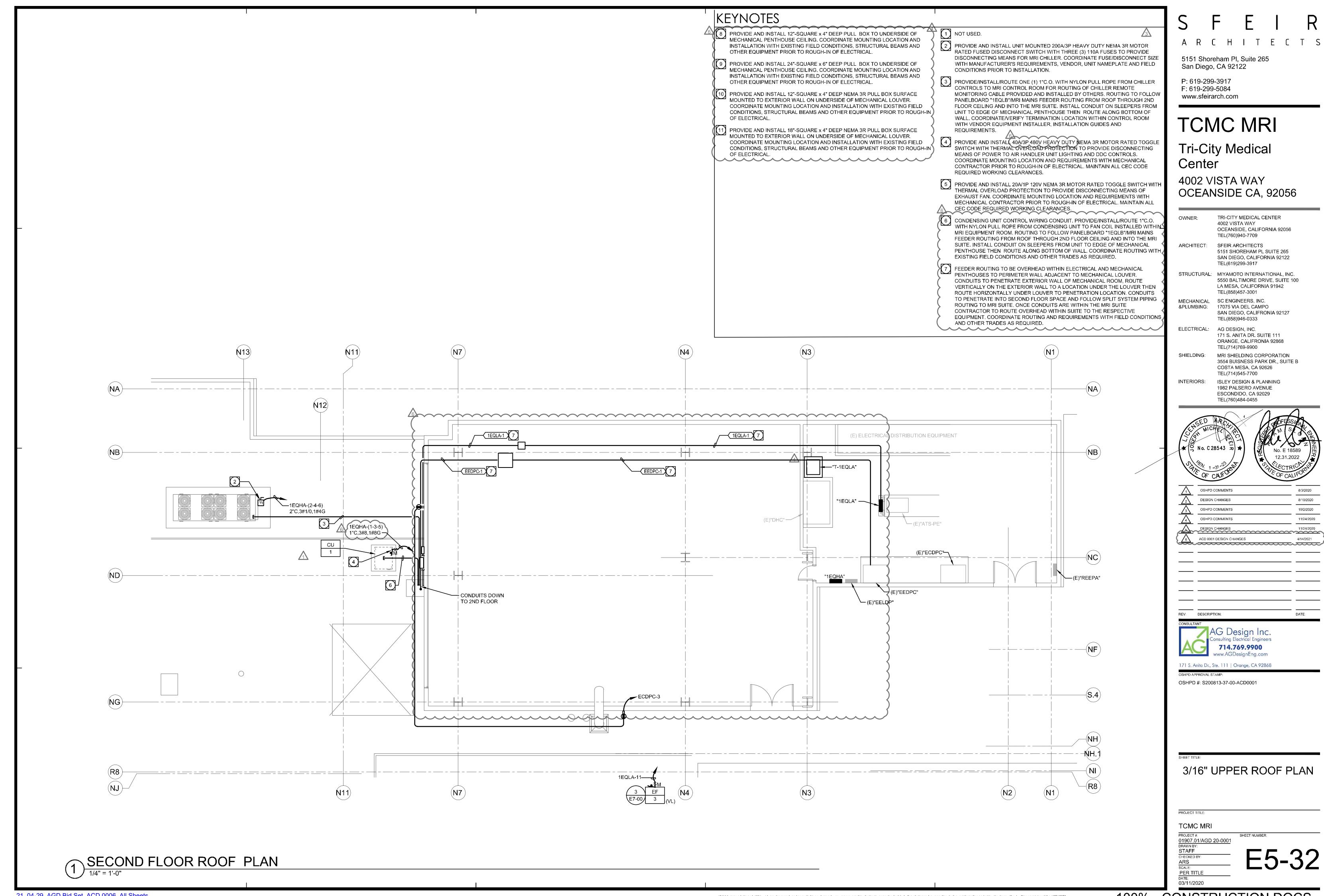


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2	DESIGN CHANGES	8/10/2020
3	OSHPD COMMENTS	10/2/2020
4	OSHPD COMMENTS	11/24/2020
<u> </u>	DESIGN CHANGES	11/24/2020
6	ACD 0001 DESIGN CHANGES	4/14/2021

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1/8" OVERALL LIGHTING **PHOTOMETRIC** 

TCMC MRI PROJECT #:
01907.01/AGD 20-0001
DRAWN BY:
STAFF
CHECKED BY:
ARS
SCALE:
PER TITLE
DATE:
03/11/2020



### KEYNOTES

- (1) ROUTE FEEDER TO PERIMETER WALL ON COMPOSITE SLEEPERS THEN ROUTE CONDUIT ALONG BASE OF WALL TO EXISTING MECHANICAL DUCT/ELECTRICAL CONDUIT RACK MOUNTED UP THE SIDE OF THE BUILDING. CONDUIT TO BE ROUTED ON EXISTING RACK UP AND OVER PARAPET WALL THEN STUBBED INTO ELECTRICAL ROOM AND HOME-RUN TO THE PANEL/CIRCUIT IDENTIFIED. REFER TO IMAGES 1 AND 2 THIS SHEET FOR ADDITIONAL INFORMATION. COORDINATE ROUTING AND REQUIREMENTS WITH EXISTING FIELD CONDITIONS.
- 2 EXISTING ROOF MOUNTED MAINTENANCE RECEPTACLE IN WEATHER PROOF ENCLOSURE TO BE PROTECTED IN PLACE.

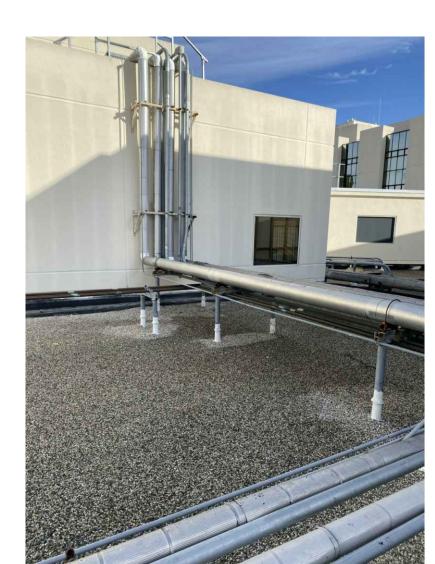
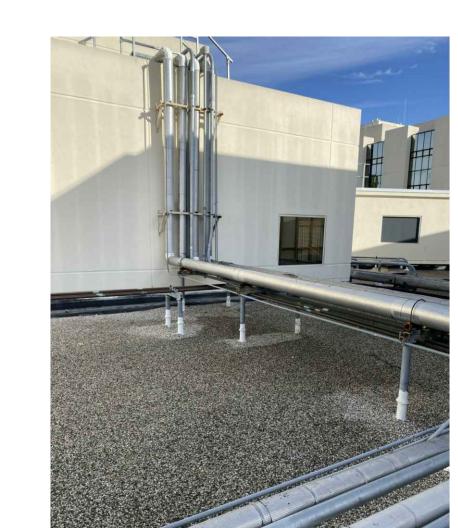


IMAGE 1 - VERTICAL CONDUIT RACK FROM 1ST FLOOR ROOF TO 2ND FLOOR ROOF



IMAGE 1 - HORIZONTAL CONDUIT RACK @ 2ND FLOOR ROOF

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MECHANICAL SC ENGINEERS, INC. &PLUMBING: 17075 VIA DEL CAMPO

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No. C 28543 2

OSHPD COMMENTS

DESIGN CHANGES OSHPD COMMENTS

ACD 0001 DESIGN CHANGES

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1/4" LOWER ROOF PLAN

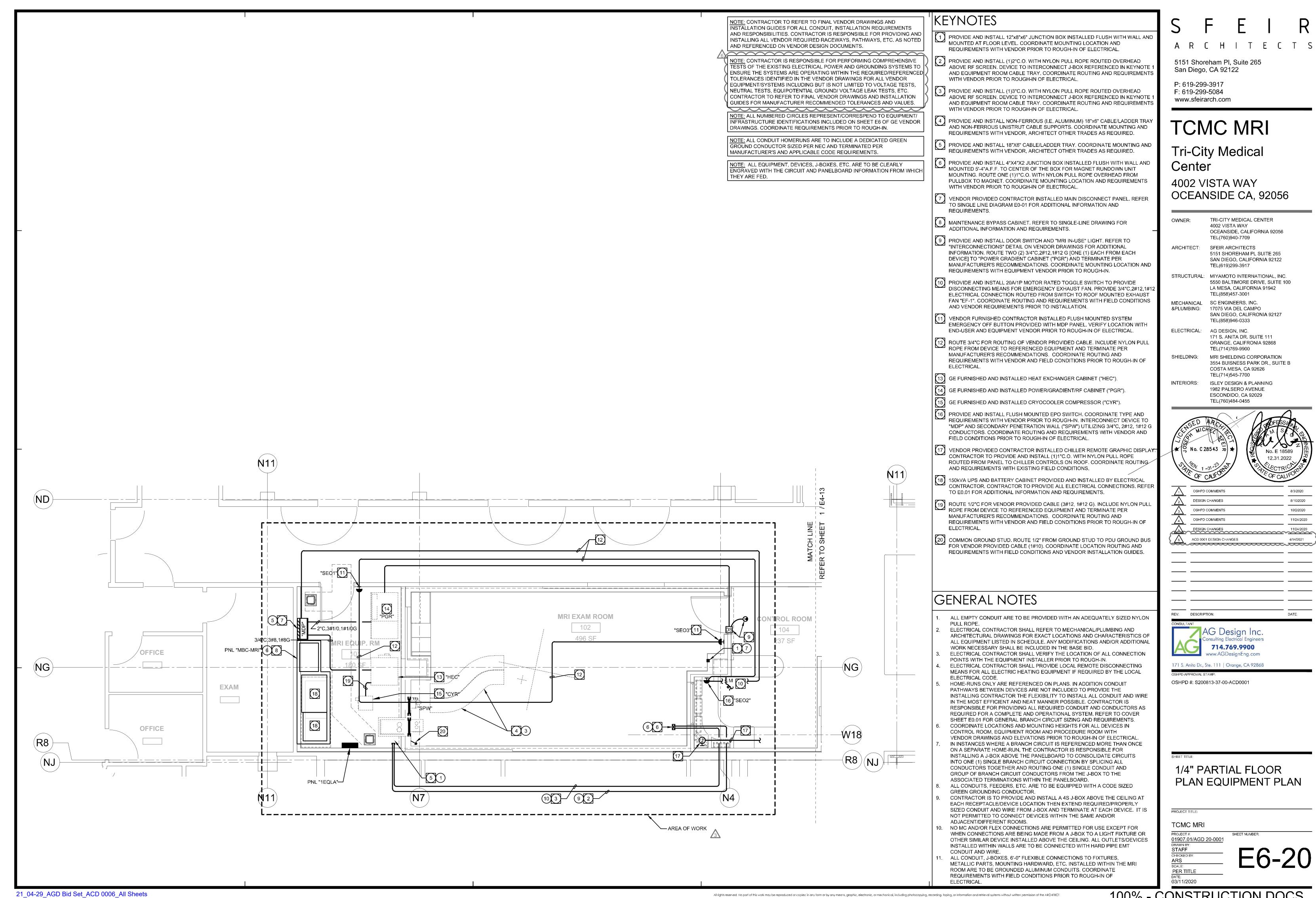
TCMC MRI

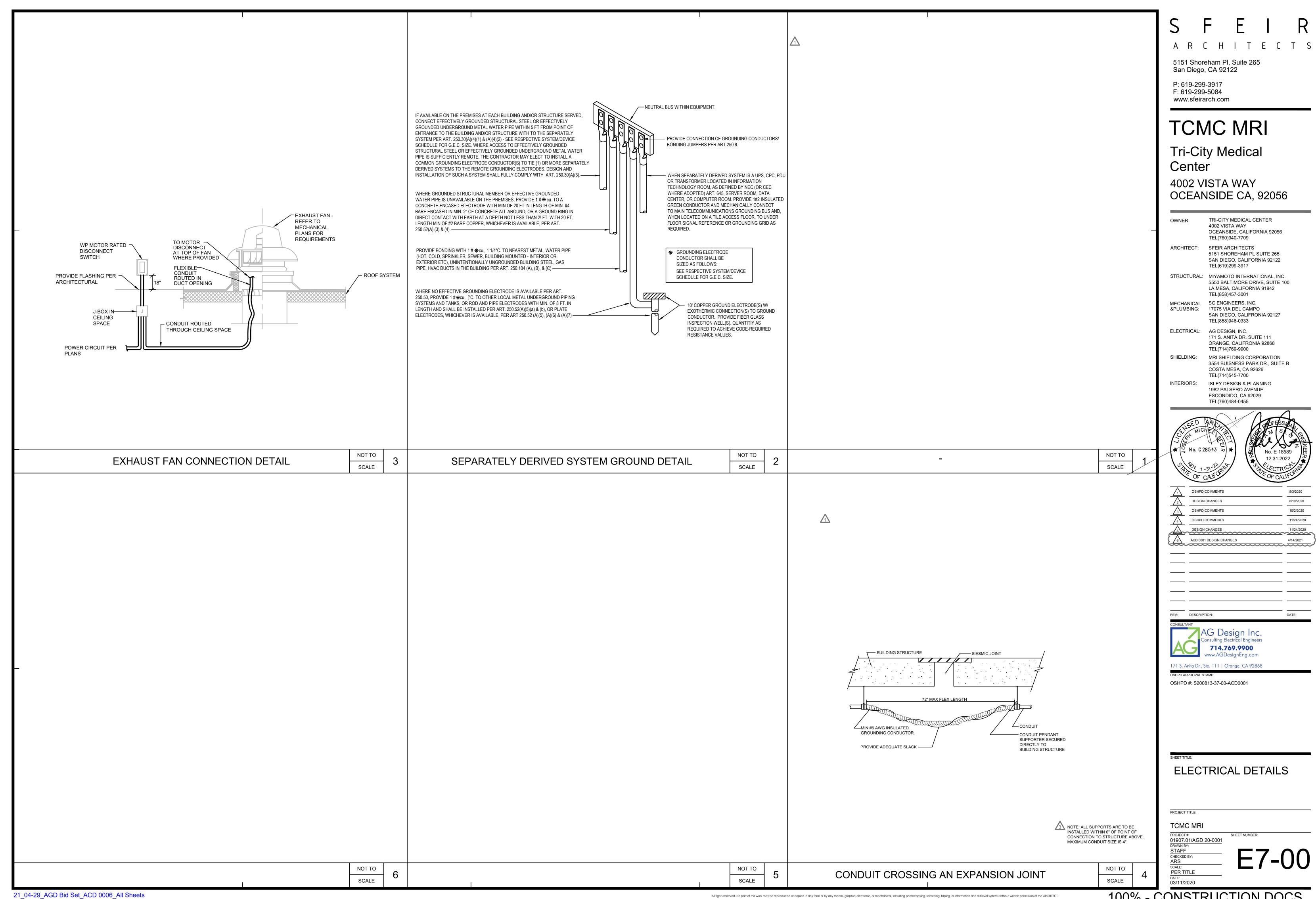
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ARS
SCALE:
PER TITLE

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MOUNT ON WALL OUTSIDE





#### GENERAL FIRE ALARM'NOTES SYMBOL LEGEND WITH CSFM LISTING NUMBERS (1) THE FIRE ALARM SYSTEM AND ALL WIRING SHALL CONFORM TO CFC 907.2.3 ARTICLE 760 OF THE 2019 **BACKBOX** QTY. SYMBOL DESCRIPTION PART# **MANUFACTURER CSFM LISTING** CALIFORNIA ELECTRIC CODE AND 2019 NFPA 72, WITH CA AMENDMENTS. 7272-1657:0331 PHOTO SMOKE DETECTOR **EDWARDS** SIGA-PD 4 "S" DEEP W/ (2) THE SYSTEM SHALL CONFORM TO CURRENT CALIFORNIA CODE OF REGULATIONS (CCR) TITLES 19 & 24 AS STANDARD DETECTOR BASE 7300-1657:0120 **EDWARDS** SIGA-SB 3"0" RING APPLICABLE TO THIS PROJECT, AND NATIONAL FIRE PROTECTION AGENCY (NFPA) STANDARD 723. 7270-1657:00125 4 "S" DEEP W/ **EDWARDS** ATTIC HEAT DETECTOR (135° F) SIGA-HRS 3 ALL DEVICES OF THE FIRE ALARM SYSTEM SHALL BE APPROVED AND LISTED BY THE CALIFORNIA STATE FIRE 7300-1657:0120 STANDARD DETECTOR BASE SIGA-SB 3"O" RING **EDWARDS** MARSHAL AND SHALL BE COMPATIBLE AND INSTALLED ACCORDING TO MANUFACTURERS SPECIFICATIONS. FIRE ALARM WALL MOUNTED HORN/STROBE 4 "S" 2-1/8" DEEP BOX **EDWARDS** 7125-1657:0220 G1F-CVM 4 THE EXISTING FIRE ALARM SYSTEM SHALL BE PROTECTED IN PLACE, MAINTAINED AND LEFT IN OPERATION DURING THE SCOPE OF THIS PROJECT (5) THE SILENT KNIGHT FIRE ALARM SYSTEM AND ROUGH-IN DEMONSTRATED ON THIS PLAN IS ALL NEW. A COMPLETE NAC END OF LINE RESISTER NEW FIRE ALARM INFRASTRUCTURE WILL BE INSTALLED. (6) AN APPROVED SET OF FIRE ALARM PLANS SHALL BE ON THE JOB SITE AND USED FOR INSTALLATION. ANY SEQUENCE OF OPERATIONS DEVIATION FROM APPROVED PLANS, INCLUDING THE SUBSTITUTION OF DEVICES, SHALL BE APPROVED BY THE OSHPD FIRE MARSHAL. (7) ANY DISCREPANCIES BETWEEN THE DRAWINGS AND THE CODE OR RECOGNIZED STANDARDS SHALL BE BROUGHT TO THE ATTENTION OF THE INSPECTOR OF RECORD. (8) ALL ANNUNCIATORS, INITIATING, AND INDICATING DEVICES SHALL BE SUPERVISED TO THE PRINCIPLE POINT OF ANNUNCIATION, THE FIRE ALARM CONTROL PANEL (9) WIRING SHALL NOT BE LOOPED THROUGH DEVICES AND MUST BE CUT IN AND OUT AT EACH DEVICE.

DEVICE		WIRING	П	M	TIC	:: OKE
ACTION	AC POWER FAILURE	SYSTEM TROUBLE/WIRING FAULT OR OPEN	MANUAL PULI STATION	AREA SMOKE/BEAM DETECTOR	AREA OR ATTIC HEAT DETECTOR	SMOKE/FIRE DAMPER SMOKE
ACTIVATE CONTROL PANEL TROUBLE BUZZER	YES	YES	NO	NO	NO	NO
ACTIVATE CONTROL PANEL SUPERVISORY BUZZER	NO	NO	NO	NO	NO	NO
ACTIVATE CONTROL PANEL ALARM BUZZER	NO	NO	YES	YES	YES	YES
ACTIVATE RELAY FOR CENTRAL STATION MONITORING	YES	YES	YES	YES	YES	YES
ANNUNCIATE AT FACP (ALARM OR TROUBLE)	YES	YES	YES	YES	YES	YES
ANNUNCIATE AT REMOTE ANNUCIATOR PANEL (ALARM OR TROUBLE)	YES	YES	YES	YES	YES	YES
ACTIVATE NOTIFICATION (AUDIBLE/VISUAL) ALARM SIGNAL THROUGHOUT BUILDING	NO	NO	YES	YES	YES	YES
SHUT DOWN ASSOCIATED AIR HANDLING (HVAC) THROUGHOUT BUILDING	NO	NO	NO	YES	NO	YES
CLOSE COMBO SMOKE/FIRE DAMPERS THROUGHOUT FLOOR OF ALARM	YES	NO	NO	YES	NO	YES
NOTIFY FIRE DEPARTMENT VIA MONITORING STATION	NO	NO	YES	YES	YES	YES
RETURN LIGHTING TO 100% OF LUMEN OUTPUT UPON ACTIVATION OF SYSTEM	NO	NO	YE\$	YES	YES	YE\$
SHUTDOWN AUTONOMOUS PUBLIC ADDRESS SYSTEM UPON ACTIVATION OF SYSTEM	NO	NO	YES	YES	YES	YES
ALARM TO CONSTANTLY MONITOR AREA TO ADMINISTRATION BUILDING	NO	NO	NO	NO	NO	NO

PER 2019 CALIFORNIA MECHANICAL CODE 605.8, WHEN THE AUTOMATIC ACTIVATION OF A SMOKE DAMPER OR A COMBINATION SMOKE/FIRE DAMPER OCCURS, THE HVAC SYSTEM SERVICING SUCH DAMPERS SHALL IMMEDIATELY SHUT DOWN. THE HVAC SYSTEM SHALL NOT BE RESTARTED AGAIN UNTIL ALL DAMPERS ARE RESET AND FULLY OPENED. ALL HVAC UNITS CONTAINING SMOKE FIRE DAMPERS AS PART OF THEIR DUCTING SYSTEM SHALL BE PROVIDED WITH RELAYS AND DEVICES FOR IMMEDIATE SHUT DOWN UPON THE ACTIVATION/CLOSURE OF ASSOCIATED COMBINATION SMOKE FIRE DAMPERS.

#### FIRE ALARM PROJECT NOTES

- 1 ALL WORK SHALL CONFORM TO THE 2019 EDITION OF TITLE 24, CALIFORNIA CODE OF REGULATIONS.
- THE INTENT OF THE DRAWINGS AND SPECIFICATIONS IS THAT THE WORK OF ALTERATION, REHABILITATION, OR RECONSTRUCTION IS TO BE IN ACCORDANCE WITH THE 2019 EDITION OF TITLE 24, CALIFORNIA CODE OF REGULATIONS. SHOULD ANY CONDITIONS BE DISCOVERED WHICH IS NOT COVERED BY THE CONTRACT DOCUMENTS WHEREIN THE FINISHED WORK WILL NOT COMPLY WITH SAID, TITLE 24, CALIFORNIA CODE OF REGULATIONS, A CHANGE ORDER, OR SEPARATE SET OF PLANS AND SPECIFICATIONS, DETAILING AND SPECIFYING THE REQUIRED WORK SHALL BE SUBMITTED TO AND APPROVED BY THE DIVISION OF STATE ARCHITECTS BEFORE PROCEEDING WITH THE WORK. (REFERENCE: SECTION 4-338 CALIFORNIA BUILDING STANDARDS ADMINISTRATIVE CODE, PART 1, TITLE 24 CCR)
- THE CONTRACTOR SHALL VISIT THE SITE AND BECOME THOROUGHLY FAMILIAR WITH ALL EXISTING CONDITIONS AS WELL AS ALL ASPECTS OF THE SCOPE OF THE WORK FOR THIS PROJECT BEFORE SUBMITTING THE BID. THE CONTRACTOR SHALL INCLUDE ALL RESULTING COSTS IN THE BID. BY THE ACT OF SUBMITTING THE BID, THE CONTRACTOR SHALL BE DEEMED TO HAVE MADE SUCH AN EXAMINATION, HAVE ACCEPTED THE EXISTING CONDITIONS AND HAVE INCLUDED THOSE COST IN THE BID.
- 4 IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN A COMPLETE SET OF CONTRACT DOCUMENTS, ADDENDA, DRAWINGS AND SPECIFICATIONS. FAILURE TO DO SO SHALL NOT RELEASE THE CONTRACTOR FROM DOING THE WORK IN COMPLETE ACCORDANCE WITH THE DRAWINGS AND SPECIFICATIONS.
- THE CONTRACTOR SHALL COORDINATE HIS WORK WITH THE EXISTING CONDITION OF THE SITE. ANY COSTS TO INSTALL WORK TO ACCOMPLISH THESE REQUIREMENT WHICH DIFFERS FROM THE WORK AS SHOWN ON THE DRAWINGS SHALL BE INCURRED BY THE CONTRACTOR. DISCREPANCIES, AMBIGUITIES OR CONFLICTS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT DURING BID TIME FOR CLARIFICATION. ANY SUCH CONFLICTS NOT CLARIFIED PRIOR TO BID SHALL BE SUBJECT TO THE INTERPRETATION OF THE ENGINEER AT NO ADDITIONAL COST TO THE DISTRICT.
- (6) IT IS THE INTENT OF THESE DRAWINGS THAT THE NEW FIRE ALARM SYSTEM SHALL BE INSTALLED INDEPENDENT OF THE EXISTING SYSTEM. THE EXISTING FIRE ALARM SYSTEM SHALL BE MAINTAINED IN OPERATION UNTIL THE NEW FIRE ALARM SYSTEM HAS BEEN INSTALLED, TESTED AND ACCEPTED BY THE OSHPD AHJ FOR OCCUPANCY. IF FOR ANY REASON THE EXISTING FIRE ALARM SYSTEM MUST BE TAKEN OUT OF SERVICE THE CONTRACTOR SHALL NOTIFY THE OSHPD IOR, DISTRICT & LOCAL FIRE CHIEF BEFORE REMOVING THE SYSTEM FROM SERVICE. IN ADDITION, THE CONTRACTOR SHALL PROVIDE QUALIFIED PERSONNEL TO PERFORM FIRE WATCH PER THE REQUIREMENTS OF CFC 901.7 AND 1404.5..

- MINOR ADJUSTMENTS CAUSED BY UNFORESEEN CONFLICTS WITH OTHER SYSTEMS OR UTILITIES DURING THE INSTALLATION OF THE NEW FIRE ALARM SYSTEM INFRASTRUCTURE SHALL BE COORDINATED IN THE FIELD. MAJOR DEVIATIONS SHALL BE BROUGHT TO THE ATTENTION OF THE DISTRICT, ARCHITECT AND ENGINEER FOR RESOLUTION BEFORE ANY CHANGES ARE PERFORMED. POTENTIAL CONFLICTS SHOULD BE ANTICIPATED AND RESOLVED DURING THE BID SITE VISIT AND PREPARATION PER NOTE 3 ABOVE
- 8 CONDUIT AND RACEWAY INFRASTRUCTURE ROUTING SHALL BE INSTALLED ACCORDING TO THE PLAN TO PREVENT UNACCOUNTABLE AND UNANTICIPATED VOLTAGE DROP AND COVERAGE PROBLEMS.
- 9 ALL MATERIALS AND WORKMANSHIP SHALL CONFORM TO THE REQUIREMENTS OF THE CALIFORNIA ELECTRICAL CODE AND ALL ALL APPLICABLE CALIFORNIA AND LOCAL CODES AND REGULATIONS.
- THE CONTRACTOR SHALL PROVIDE AND KEEP UP-TO-DATE A COMPLETE RECORD SET OF DRAWINGS. THESE PRINTS SHALL BE CORRECTED DAILY AND SHOW EVERY CHANGE FROM THE ORIGINAL OSHPD APPROVED DRAWINGS. THIS SET OF DRAWINGS SHALL BE KEPT ON THE JOB SITE AND SHALL BE USED ONLY AS A RECORD SET. UPON FINAL COMPLETION OF THE WORK, THE RECORD DRAWINGS SHALL BE USED TO GENERATE AN ACCURATE SET OF AS BUILT DRAWINGS FOR SUBMISSION PER THE REQUIREMENTS OF THE SPECIFICATIONS. FINAL AS BUILT DRAWINGS SHALL BE PROVIDED IN AUTOCAD AND HARD COPY FORMAT.
- THE CONTRACTOR SHALL PROVIDE ALL NECESSARY HARDWARE, FITTINGS, TERMINAL STRIPS, ANCILLARY PARTS, ETC. FOR THE INSTALLATION OF A COMPLETE, COMPLIANT AND CERTIFIED FIRE ALARM SYSTEM. ADDITIONAL QUANTITIES OF FIRE ALARM SYSTEM DEVICES, IF NECESSARY, SHALL BE PROVIDED TO INSURE A COMPLETE AND OPERABLE FIRE ALARM SYSTEM ACCEPTABLE TO DISTRICT AND THE INSPECTOR OF RECORD. DEVICE QUANTITIES SHALL BE REEXAMINED AND VERIFIED BY THE CONTRACTOR BEFORE THE BID IS SUBMITTED.
- UPON ACCEPTANCE OF THE NEW SILENT KNIGHT FIRE ALARM SYSTEM THE EXISTING FIRE*LITE SYSTEM SHALL BE REMOVED FROM SERVICE AND DEVICES SHALL BE REMOVED AND DEMOLISHED. ALL WIRING AND ACCESSIBLE CONDUIT, RACEWAY AND BACKBOXES SHALL BE REMOVED.

  ALL SURFACES SHALL BE RESTORED AND REFINISHED TO MATCH ADJACENT SURFACES.

#### APPLICABLE CODES

THE EQUIPMENT MUST BE LISTED, LABELED AND APPROVED FOR THE APPLICATION SHOWN IN THE CONTRACT DOCUMENTS, AS FIRE ALARM EQUIPMENT COMPLYING WITH THE FOLLOWING REQUIREMENTS:

- 1. ALL PARTS OF THE 2019 CALIFORNIA BUILDING CODE BECOME EFFECTIVE JANUARY 1, 2017 EXCEPT THE EFFECTIVE DATE FOR THE USE OF THE 2019 BUILDING ENERGY EFFICIENCY STANDARDS [TITLE 24, PART 1, CHAPTER 10, PART 6 AND AFFECTED PROVISIONS IN PART 11 (CAL GREEN BUILDING STANDARDS CODE)] IS JULY 1, 2014 AND THE EFFECTIVE DATE FOR CALIFORNIA ADMINISTRATIVE CODE, PART 1 TITLE 24 IS FEBRUARY 28, 2019. TITLE 24 CODES ARE AS FOLLOWS
  - ADMINSTRATIVE CODE, PART 1 TITLE 24 IS FEBRUARY 28, 2019. TITLE 24 CODES ARE AS FOLLO 2019 CALIFORNIA ADMINISTRATIVE CODE (CAC) PART 1, TITLE 24, CCR 2019 CALIFORNIA BUILDING CODE (CBC), PART 2, TITLE 24, CCR 2019 CALIFORNIA ELECTRICAL CODE (CEC), PART 3, TITLE 24 CCR

2019 CALIFORNIA EXISTING BUILDING CODE (CEBC), PART 10, TITLE 24, CCR (BASED ON THE 2018

- d. 2019 CALIFORNIA MECHANICAL CODE (CMC), PART 4, TITLE 24 CCR
  e. 2019 CALIFORNIA PLUMBING CODE (CPC), PART 5, TITLE 24, CCR
  f. 2019 CALIFORNIA ENERGY CODE (CEC), PART 6, TITLE 24 CCR
- INTERNATIONAL BUILDING CODE)

  1. 2019 CALIFORNIA FIRE CODE, PART 9, TITLE 24 CCR [BASED ON THE 2015 INTERNATIONAL FIRE]
- CODE (IFC)]
  2019 CALIFORNIA GREEN BUILDING STANDARDS CODE, PART 11, TITLE 24, CCR
- 2019 CALIFORNIA REFERENCED STANDARDS, PART 12, TITLE 24 CCR
   TITLE 19 CCR PUBLIC SAFETY, STATE MARSHALL REGULATIONS. 20017 ASME A17.1 (WITH A12.1A/CSA B44A-08 ADDENDA) SAFETY CODE FOR ELEVATORS AND ESCALATORS
- 2. NFPA STANDARDS AND GUIDLINES:
- NFPA 13 AUTOMATIC SPRINKLER SYSTEMS, 2019 EDITION
- NFPA 14 STANDPIPE SYSTEMS 2019 EDITION
  NFPA 17 DRY CHEMICAL EXTINGUISHING SYSTEMS 2013 EDITION
- NFPA 17A WET CHEMICAL SYSTEMS 2019 EDITION
  NFPA 20 STATIONARY PUMPS 2019 EDITION
- NFPA 22 STANDARD FOR WATER TANKS FOR PRIVATE FIRE PROTECTION
- NFPA 24 PRIVATE FIRE ALARM CODE 2019 EDITION
  NFPA 72 NATIONAL FIRE ALARM CODE 2019 EDITION
- i. NFPA 80 FIRE DOOR AND OTHER OPENING EDITION PROTECTIVES 2019 EDITION
- NFPA 92 STANDARD FOR SMOKE CONTROL SYSTEMS 2019 EDITION
  NFPA 243 CRITICAL RADIANT FLUX OF FLOOR COVERING SYSTEMS 2011 EDITION
- I. NFPA 2001 CLEAN AGENT FIRE EXTINGUISHING SYSTEMS 2012 EDITION
   m. UL 300 FIRE TESTING OF FIRE EXTINGUISHING SYSTEMS FOR PROTECTION OF RESTAURANT
- COOKING AREA 2005 EDITION
  n. UL 464 AUDIBLE SIGNAL APPLIANCES 2003 EDITION
- o. UL 521 HEAT DETECTORS FOR FIRE PROTECTIVE SIGNALING SYSTEMS 1999 EDITION
- p. UL 1971 STANDARD FOR SIGNALING DEVICES FOR THE HEARING IMPAIRED
  - ICC 300 STANDARD FOR BLEACHERS, FOLDING AND TELESCOPIC SEATING, AND GRANDSTANDS

#### **BUILDING DATA**

PROJECT ADDRESS:
TRI-CITY MEDICAL CENTER\
4002 VIST WAY

OCEANSIDE, CALIFORNIA 92056

EXISTING IMAGING OFFICE SPACE TO BE RENOVATED TO MRI AND CARE SUITE. FIRE ALARM DEVICES TO BE ADDED AS REQUIRED TO BRING THE SPACE UP TO CURRENT CODE.

#### FIRE ALARM SYSTEM CABLE SCHEDULE

TINE ALARM OTOTEM OADEL OOTEDOLE								
TAG	USAGE			MANUFACTURER	PART#			
C	CONTROL WIRING			#14 THHN				
Ρ	AUX POWER CIRCUIT	2#14 THHN	THHN	GENERAL	#14 THHN			
S	SLC - SIGNALING LINE CIRCUIT	2 COND. #16 TWISTED	FPLR	WEST PENN WIRE	990			
٧	VISUAL NAC - STROBE CIRCUIT	2#12 THHN	THHN	GENERAL	#12 THHN			
Z	MONITOR WIRING	2#14 THWN	THWN	GENERAL	#14 THWN			
WEST PE	WEST PENN CSFM LISTING: 7161-0859:0101							

AS REQUIRED THROUGHOUT THE COURSE OF CONSTRUCTION TO ENSURE THE REMODEL SPACE AND

TO PROTECT THE BUILDING AND ITS OCCUPANTS.

PER NFPA FIGURE A.14.6.2.4(9) INSTALLING

SYSTEM.

CONTRACTOR SHALL TEST AND ENSURE PROPER SEQUENCE OF OPERATION OF THE FIRE ALARM

SEQUENCE OF OPERATION TESTING

PENTIRETY OF THE FIRE ALARM SYSTEM ARE OPERATIONAL AND PERFORMING THE NECESSARY FUNCTIONS

**COMPLETE FIRE** 

**ALARM SUBMITTAL** 

AUTOMATIC ADDRESSABLE FIRE ALARM SYSTEM

NOTE: CONTRACTOR IS RESPONSIBLE FOR PROVIDING A TEMPORARY FIRE ALARM SYSTEM AND FIRE WATCH

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&PLUMBING:

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1	OSHPD COMMENTS	8/3/2020
2	DESIGN CHANGES	8/10/2020
$\sqrt{3}$	OSHPD COMMENTS	10/2/2020
4	OSHPD COMMENTS	11/24/2020
5	DESIGN CHANGES	11/24/2020
<u>{</u>	ACD 0001 DESIGN CHANGES	4/14/2021

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OSHPD APPROVAL STAMP:

OSHPD #: S200813-37-00-ACD0001

SHEET TITLE:

FIRE ALARM COVER SHEET

DJECT TITLE:

TCMC MRI

03/11/2020

01907.01/AGD 20-0001 DRAWN BY:

DRAWN BY:
STAFF
CHECKED BY:
ARS
SCALE:
PER TITLE

100% - CONSTRUCTION DOCS

### 21_04-29_AGD Bid Set_ACD 0006_All Sheets

ONLY SIGNALING LINE CIRCUITS (SLC) MAY BE T-TAPPED TO PROVIDE LESS RESISTANCE ON THE CIRCUIT.

REFER TO AND COMPLY WITH THE MANUFACTURERS REQUIREMENTS AND LIMITS FOR T-TAPPING.

(1) AUDIBLE AND VISUAL DEVICES SHALL COMPLY WITH THE AUDIBILITY AND FLASH LEVELS AS SPECIFIED

IN NFPA 72 AND ALL AMENDMENTS SPECIFIED IN TITLE 24. THIS INCLUDES DEVICE LOCATION AND

COVERAGE. VOICE ANNOUNCEMENTS SHALL BE INTELLIGIBLE PER CHAPTER 18 NFPA 72.

(13) AUDIBILITY WILL BE DETERMINED BY SOUND METER TESTING BY THE INSPECTOR OF RECORD.

TYPE APPROVED AND LISTED FOR USE UNDER WET CONDITIONS. (SECTION 310-8.1 C.E.C.)

(22) IDENTIFY FIRE ALARM CIRCUITS AT TERMINAL AND JUNCTION LOCATIONS PER CEC 760-42.

(16) WIRING MUST BE LISTED FOR USE AS REQUIRED BY TITLE 24/CEC, ARTICLE 760.

PERMANENTLY LABEL THE BREAKER AS "FIRE ALARM CONTROL POWER."

THIS REQUIREMENT SHALL NOT APPLY TO SINGLE-STATION SMOKE ALARMS.

(25) ALL EXTERIOR ALARM COMPONENTS SHALL BE LISTED FOR OUTDOOR USE.

NO TERMINATIONS SHALL BE MADE IN UNDERGROUND PULL BOXES.

REQUIREMENTS), AND WIRING FOR ACTUAL FIELD CONDITIONS.

OUT THE CAMPUS.

ALARM BACKBONE INFRASTRUCTURE.

RACEWAY AND CONDUIT SYSTEM

CALIFORNIA BUILDING CODE.

TO BE MEASURED AND RECORDED.

THE LOCATION NOTATED AT THE FACP.

ATTICS AND ABOVE ACCESSIBLE CEILING SPACES.

SIGNALING LINE CIRCUITS SHALL ONLY BE T-TAPPED AT DEVICES. IN TERMINAL OR CONTROL LOCATIONS.

(12) THE AUDIBLE ALERT TONE SHALL BE CODED TEMPORAL PATTERN FOLLOWED BY A VOICE ANNOUNCEMENT. THE

AUDIBLE SIGNAL SHALL HAVE A MINIMUM SOUND LEVEL OF 15 DECIBELS ABOVE THE AVERAGE AMBIENT NOISE.

LEVEL OR 5 dB ABOVE THE MAXIMUM SOUND LEVEL FOR A DURATION OF AT LEAST 60 SECONDS NOT TO EXCEED

110 DECIBELS AT THE MINIMUM HEARING DISTANCE. THE AUDIBLE SIGNAL SHALL BE SYNCHRONIZED THROUGH

14 INSTALL 3/4" CONDUIT MINIMUM OR SERIES V2400 WIREMOLD FOR ABOVE GROUND RACEWAY. WIREMOLD SHALL BE

SIZED ACCORDING TO FILL AND EXISTING CONDITIONS. ALL SURFACE MOUNT WIREMOLD SHALL BE STEEL V2400

DUE TO LACK OF ACCESS. ALL NEW 2" UNDERGROUND CONDUITS SHALL BE INSTALLED TO PROVIDE A NEW FIRE

(15) THE ELECTRICAL CONTRACTOR SHALL INSTALL PULL ROPES IN THE EMPTY CONDUIT SYSTEM AS INSTALLED.

(18) ONLY WIRING CONNECTED TO THE FIRE ALARM SYSTEM SHALL BE INSTALLED IN THE SAME JUNCTION BOXES,

(19) ALL ROUGH-IN CONDUIT, WIREMOLD, BACKBOXES, PULL BOXES, & 120 VAC POWER SHALL BE FURNISHED AND INSTALLED BY THE ELECTRICAL CONTRACTOR UNDER DIRECTION OF THE FIRE ALARM CONTRACTOR.

· (21) ALL TERMINIATIONS IN MAIN TERMINAL CABINETS SHALL BE MADE ON TERMINAL STRIPS. ALL FIRE ALARM WIRING

23) THE FIRE ALARM FLOOR PLANS ARE DIAGRAMMATIC. ADJUST DEVICE LOCATIONS (WITHIN LIMITS OF NFPA 72

(24) ALL SMOKE DETECTORS AND OTHER FIRE ALARM DEVICES SHALL BE COVERED AND PROTECTED UNTIL THE AREA

AT THE CONTROL UNIT WHERE ITS SENSITIVITY IS OUTSIDE ITS ACCEPTABLE RANGE OR OTHER CALIBRATED

(26) PENETRATIONS THROUGH FIRE RATED WALLS AND FLOORS SHALL BE SEALED WITH A MATERIAL CAPABLE

(28) A MINIMUM OF 48 HOURS NOTICE SHALL BE REQUIRED FOR ANY INSPECTION AND/OR TESTING.

INSPECTION SHALL INCLUDE STATEMENT OF COMPLIANCE NOTED IN CFC SECTION 901.2.1.

INSTALLING COMPANY AND PROVIDED TO THE INSPECTOR AND DISTRICT.

DISTRICT WILL DETERMINE THE CENTRAL STATIONS MONITORING COMPANY.

OF PREVENTING THE PASSAGE OF FLAMES AND HOT GASSES AND PROTECTED IN ACCORDANCE WITH THE

(27) THE NEW FIRE ALARM SYSTEM SHALL BE A FULLY AUTOMATIC SYSTEM. THE NEW SYSTEM DEVICES SHALL BE

INSTALLED AS AN AUTOMATIC SYSTEM WITH FULL SMOKE DETECTOR COVERAGE AND HEAT DETECTORS IN

. (29) UPON COMPLETION OF SYSTEM INSTALLATION, THE SYSTEM SHALL BE TESTED IN THE PRESENCE OF THE PROJECT

INSPECTOR AND IN A MANNER ACCEPTABLE TO OSHPD/PROJECT INSPECTOR. THE CONTRACTOR MUST SUPPLY

NECESSARY TESTING EQUIPMENT INCLUDING A "SOUND LEVEL METER" TO CHECK ACCEPTABLE DECIBEL LEVELS

OF AUDIBLE DEVICES. PROVIDE TEST RESULTS PER THE NFPA 72 "RECORD OF COMPLETION" TO THE ARCHITECT,

SHALL BE PROVIDED WITH A FIRE ALARM DECIBEL LEVEL AT 15 dBa ABOVE AMBIENT NOISE LEVELS. REQUEST FOR

OSHPD, PROJECT INSPECTOR, OWNER AND TO THE LOCAL FIRE AUTHORITY. ALL NORMALLY OCCUPIED AREAS

INSPECTOR AND SHALL NOT EXCEED A MAXIMUM OF 10% OF THE 24 VOLT SYSTEM. EACH COMPONENT IN THE

CIRCUIT SHALL NOT EXCEED THE LISTED MANUFACTURER'S MINIMUM OPERATING VOLTAGES. SEE NFPA 72, LOOP

RESISTANCE. THIS SECTION REQUIRES THAT ALL INITIATING AND INDICATING (NOTIFICATION APPLIANCE) CIRCUITS

(30) THE "END OF LINE RESISTANCE" FOR EACH CIRCUIT SHALL BE TESTED IN THE PRESENCE OF THE PROJECT

(31) AFTER INSTALLATION AND TESTING HAS BEEN COMPLETED AND WITNESSED BY THE FIRE INSPECTOR, A

(32) AT COMPLETION OF THE PROJECT, A COPY OF "AS BUILT" DRAWINGS SHALL BE PROVIDED TO THE OWNER/

FOR THE FIRE ALARM SYSTEM. A 24-HOUR EMERGENCY RESPONSE PHONE NUMBER FOR AN ALARM

(33) ALL FIRE ALARM SYSTEM DOCUMENTATION SHALL BE PROVIDED TO THE OWNER/ OCCUPANT EITHER IN A

RETAIN ON PREMISES MINIMUM 5 YEARS PER TITLE 19 SECTION 904.1(B). (3 YRS. PER CFC 901.6.2.)

COMPANY REPRESENTATIVE SHALL BE PERMANENTLY INSTALLED ADJACENT TO THE CONTROL PANEL.

COMPLETED NFPA CERTIFICATE OF COMPLIANCE (RECORD OF COMPLETION) SHALL BE ISSUED FROM THE

OCCUPANT ALONG WITH WRITTEN OPERATING INSTRUCTIONS, AND MAINTENANCE/TESTING INFORMATION

DOCUMENT CABINET ADJACENT TO THE FACP OR IN A LOCATION DESIGNATED BY OWNER/OCCUPANT AND

(34) THE FIRE ALARM CONTRACTOR SHALL COORDINATE, THROUGH THE GENERAL CONTRACTOR, WITH THE DISTRICT TO

PLACE BEFORE FINAL ACCEPTANCE TESTING. SECONDARY MEANS WILL BE BY CELLULAR TRANSMISSION. THE

PROVIDE A DEDICATED PRIMARY TELEPHONE LINE FOR SUPERVISING STATION MONITORING. THE LINE SHALL BE IN

OF WORK IS CLEAN AND FREE OF DUST AND DEBRIS. TO ENSURE THAT EACH SMOKE DETECTOR IS WITHIN ITS

LISTED AND MARKED SENSITIVITY RANGE. IT SHALL BE TESTED USING EITHER A CALIBRATED TEST METHOD. THE

MANUFACTURER'S CALIBRATED SENSITIVITY TEST INSTRUMENT, LISTED CONTROL EQUIPMENT ARRANGED FOR

THE PURPOSE, A SMOKE DETECTOR/ CONTROL UNIT ARRANGEMENT WHEREBY THE DETECTOR CAUSES A SIGNAL

SENSITIVITY TEST METHOD ACCEPTABLE TO THE FIRE CODE OFFICIAL. DETECTORS FOUND TO HAVE A SENSITIVITY

EXCEPTIONS: 1) DETECTORS LISTED AS FIELD ADJUSTABLE SHALL BE PERMITTED TO BE EITHER ADJUSTED WITHIN

THE LISTED AND MARKED SENSITIVITY RANGE AND CLEANED AND RECALIBRATED OR THEY SHALL BE REPLACED. 2)

OUTSIDE THE LISTED AND MARKED SENSITIVITY RANGE SHALL BE CLEANED AND RECALIBRATED OR REPLACED.

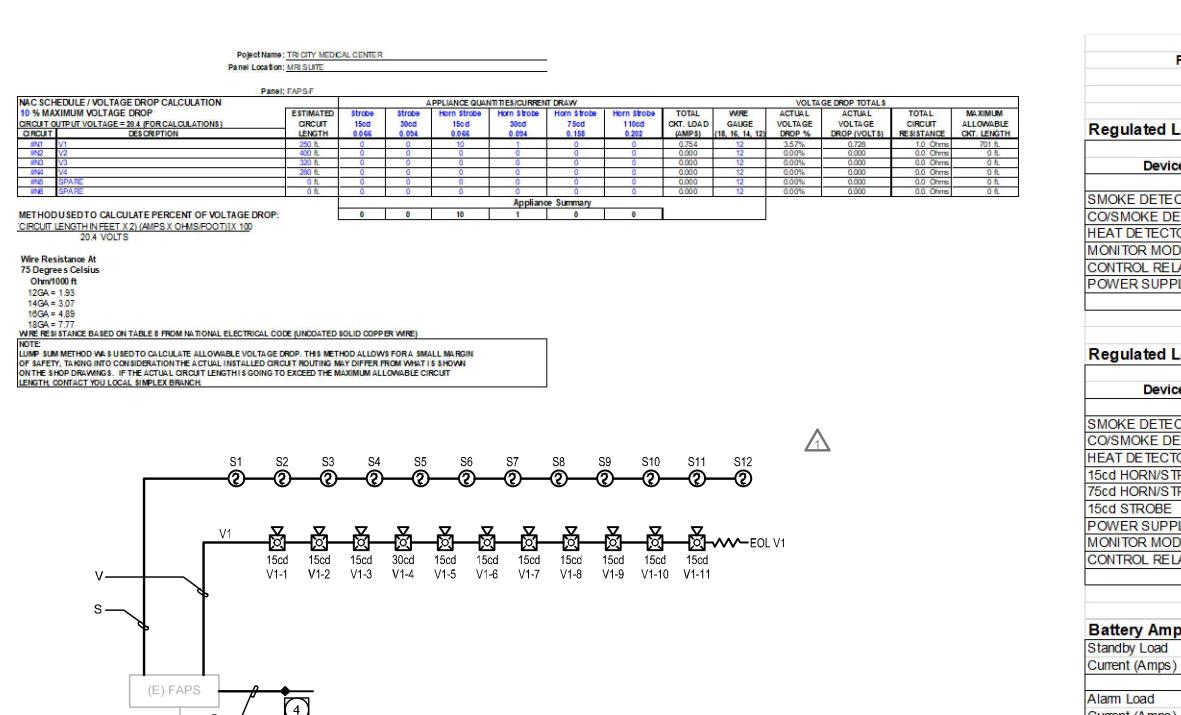
ERMINATIONS SHALL BE MADE AT THE FIRE ALARM DEVICES, JUNCTION BOXES OR IN THE TERMINAL CABINETS.

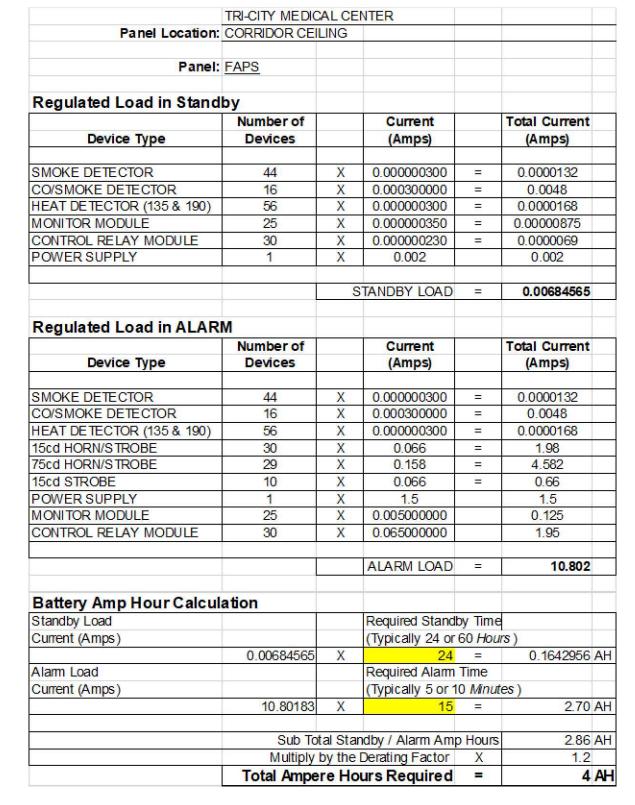
(20) THE ELECTRICAL CONTRACTOR SHALL PROVIDE AND INSTALL DEDICATED 120VAC POWER CIRCUITS TO ALL

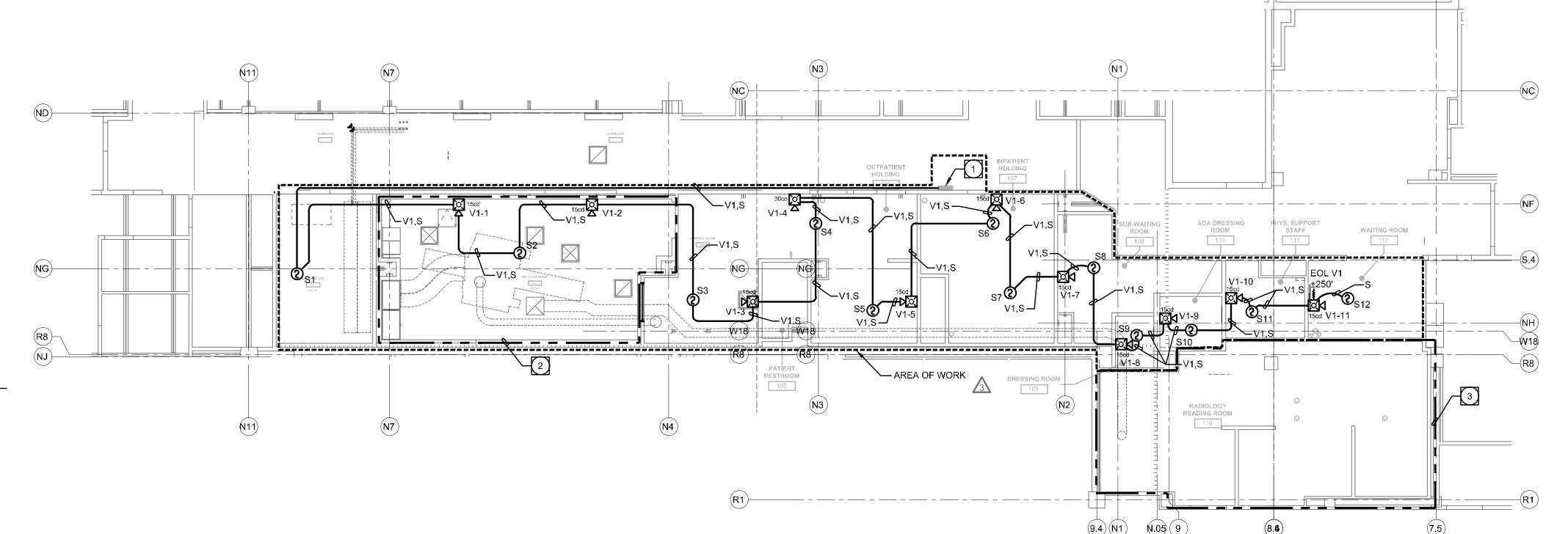
NEW FIRE ALARM SYSTEM PANELS. PROVIDE A LOCK-ON BREAKER AT THE ELECTRICAL PANELS AND

(17) CABLE INSTALLED IN WET LOCATIONS EITHER ABOVE OR BELOW GROUND SHALL BE MOISTURE RESISTANT OR A

SERIES. SURFACE WIREMOLD SHALL ONLY BE INSTALLED WHERE CONCEALED CONDUIT CAN NOT BE INSTALLED







# NEW PARTIAL FIRE ALARM CEILING PLAN 1/8" = 1'-0"

#### FLOOR PLA'N KEY NOTES

- EXISTING FIRE ALARM POWER SUPPLY INSTALLED ABOVE CEILING IN CORRIDOR. COORDINATE LOCATION AND AVAILABLE POINTS WITH EXISTING FIRE ALARM SYSTEM PRIOR TO COMMENCEMENT OF WORK.
- ALL DEVICES INSTALLED WITHIN THE MRI ROOM ARE TO BE COMPLETELY NON-FERROUS AND SUITABLE FOR USE WITHIN AN MRI SUITE. USE BRASS OR SCREWS/CONNECTIONS AT TERMINALS AS REQUIRED. ALL CONDUIT CONNECTIVITY IS TO BE ALUMINUM. AS AN ALTERNATE CONTRACTOR TO INCLUDE PROVISIONS TO PROVIDE AND INSTALL A VESDA "VSL-250" SYSTEM WITHIN THE MRI SUITE. COORDINATE REQUIREMENTS WITH EXISTING FIELD CONDITIONS, MRI VENDOR AND OTHER TRADES AS REQUIRED.
- 3 ALL FIRE ALARM DEVICES WITHIN EXISTING SPACE ARE TO BE PROTECTED IN PLACE AND MAINTAINED
- PROVIDE SIGNAL CONNECTION TO SMOKE FIRE DAMPERS. REFER TO PLANS FOR QUANTITIES AND LOCATIONS. TYPICAL ALL DEVICES.

## ARCHITECTS

5151 Shoreham PI, Suite 265

San Diego, CA 92122

P: 619-299-3917 F: 619-299-5084 www.sfeirarch.com

### TCMC MRI

### **Tri-City Medical** Center

4002 VISTA WAY OCEANSIDE CA, 92056

TRI-CITY MEDICAL CENTER OWNER: 4002 VISTA WAY OCEANSIDE, CALIFORNIA 92056 TEL(760)940-7709

ARCHITECT: SFEIR ARCHITECTS 5151 SHOREHAM PL SUITE 265

SAN DIEGO, CALIFORNIA 92122 TEL(619)299-3917 STRUCTURAL: MIYAMOTO INTERNATIONAL, INC.

LA MESA, CALIFORNIA 91942 TEL(858)457-3001 MECHANICAL SC ENGINEERS, INC.

5550 BALTIMORE DRIVE, SUITE 100

&PLUMBING: 17075 VIA DEL CAMPO SAN DIEGO, CALIFRONIA 92127 TEL(858)946-0333

ELECTRICAL: AG DESIGN, INC. 171 S. ANITA DR. SUITE 111 ORANGE, CALIFRONIA 92868 TEL(714)769-9900

SHIELDING: MRI SHIELDING CORPORATION 3554 BUISNESS PARK DR., SUITE B

TEL(714)545-7700 INTERIORS: ISLEY DESIGN & PLANNING 1982 PALSERO AVENUE ESCONDIDO, CA 92029

COSTA MESA, CA 92626

TEL(760)484-0455 No. C 28543 🕏

OSHPD COMMENTS 8/10/2020 DESIGN CHANGES 10/2/2020 OSHPD COMMENTS OSHPD COMMENTS 11/24/2020

ACD 0001 DESIGN CHANGES 

DESCRIPTION:

171 S. Anita Dr., Ste. 111 | Orange, CA 92868 OSHPD APPROVAL STAMP:

OSHPD #: S200813-37-00-ACD0001

#### 1/8" PARTIAL FIRE ALARM CEILING PLAN

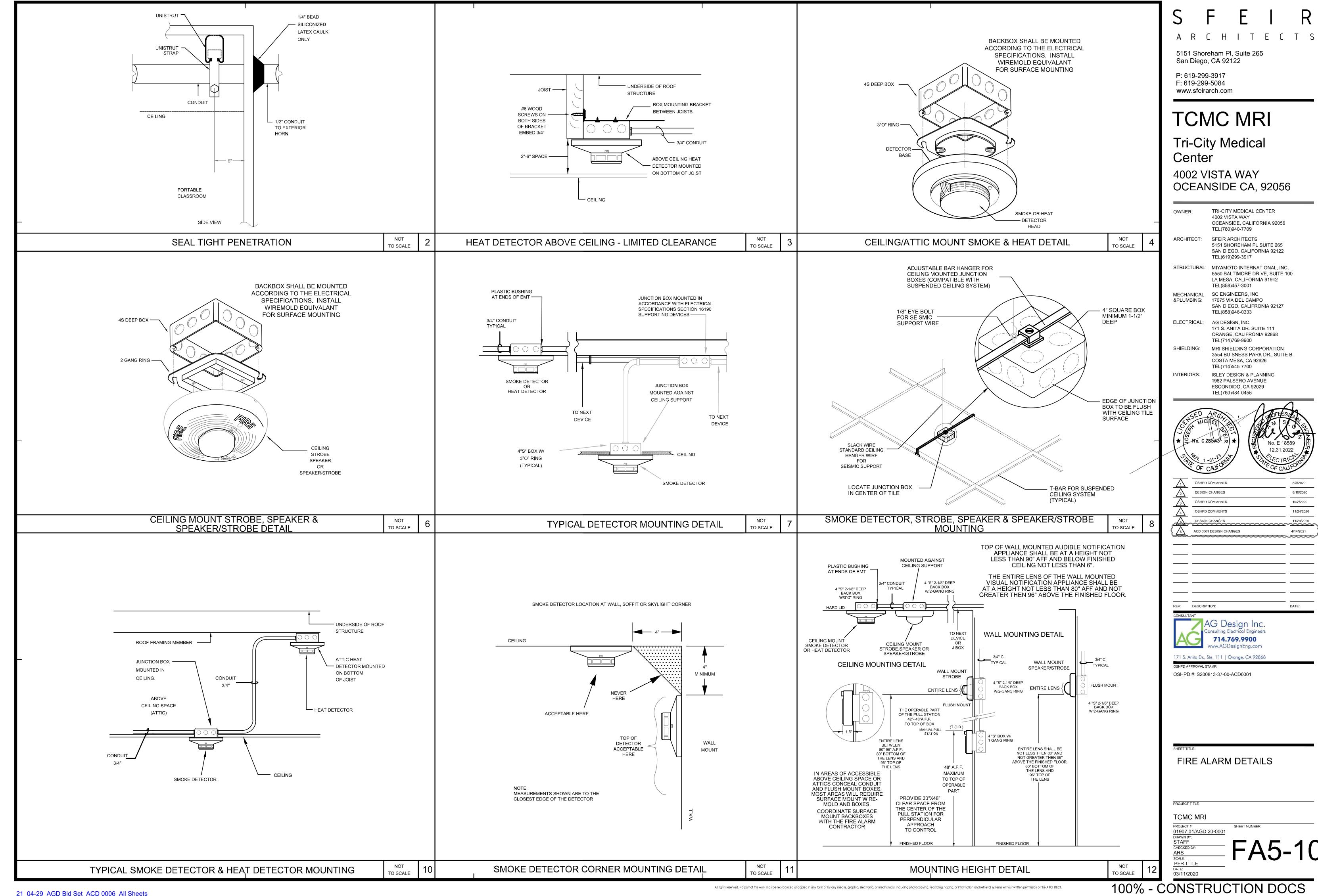
TCMC MRI

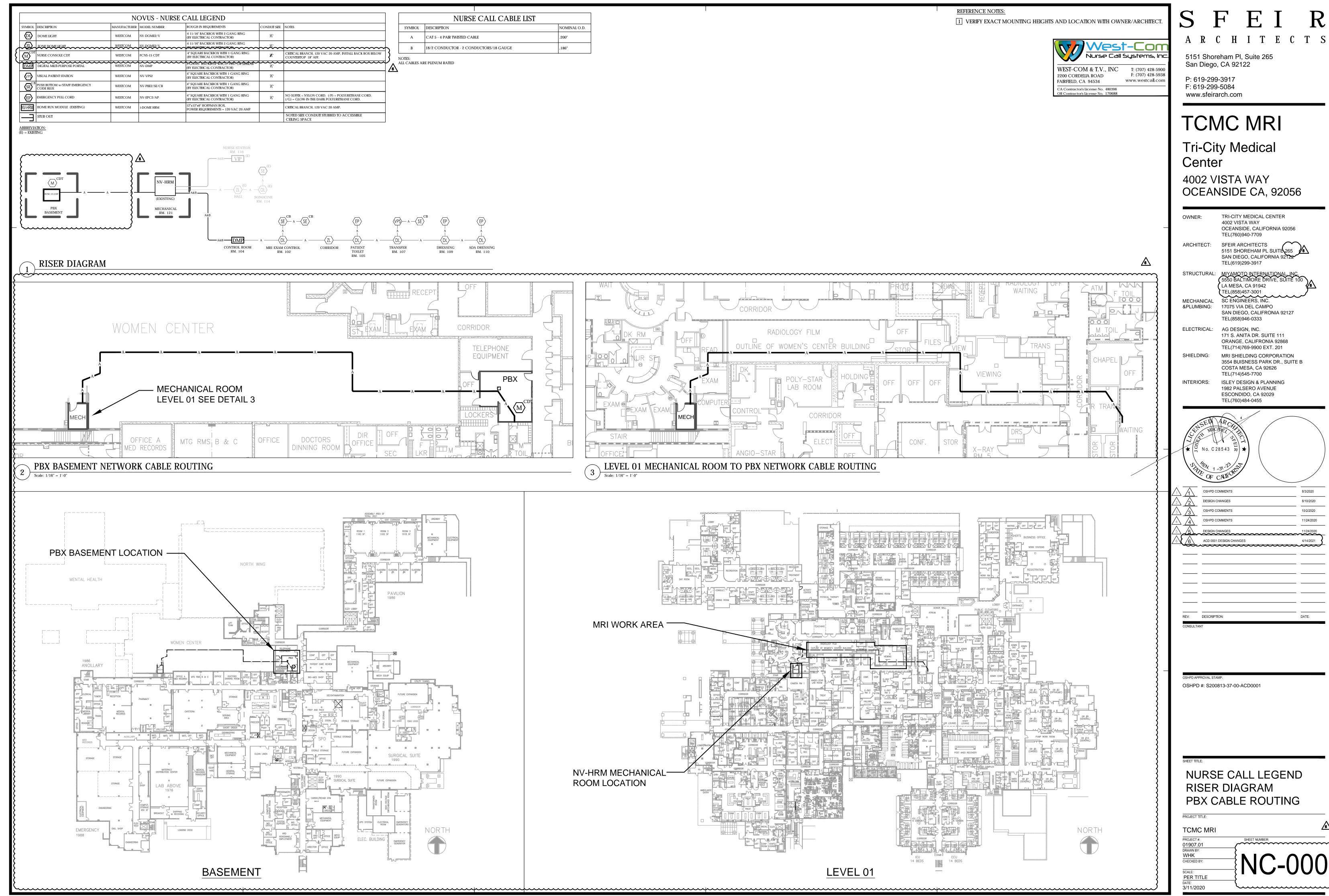
01907.01/AGD 20-0001 PER TITLE

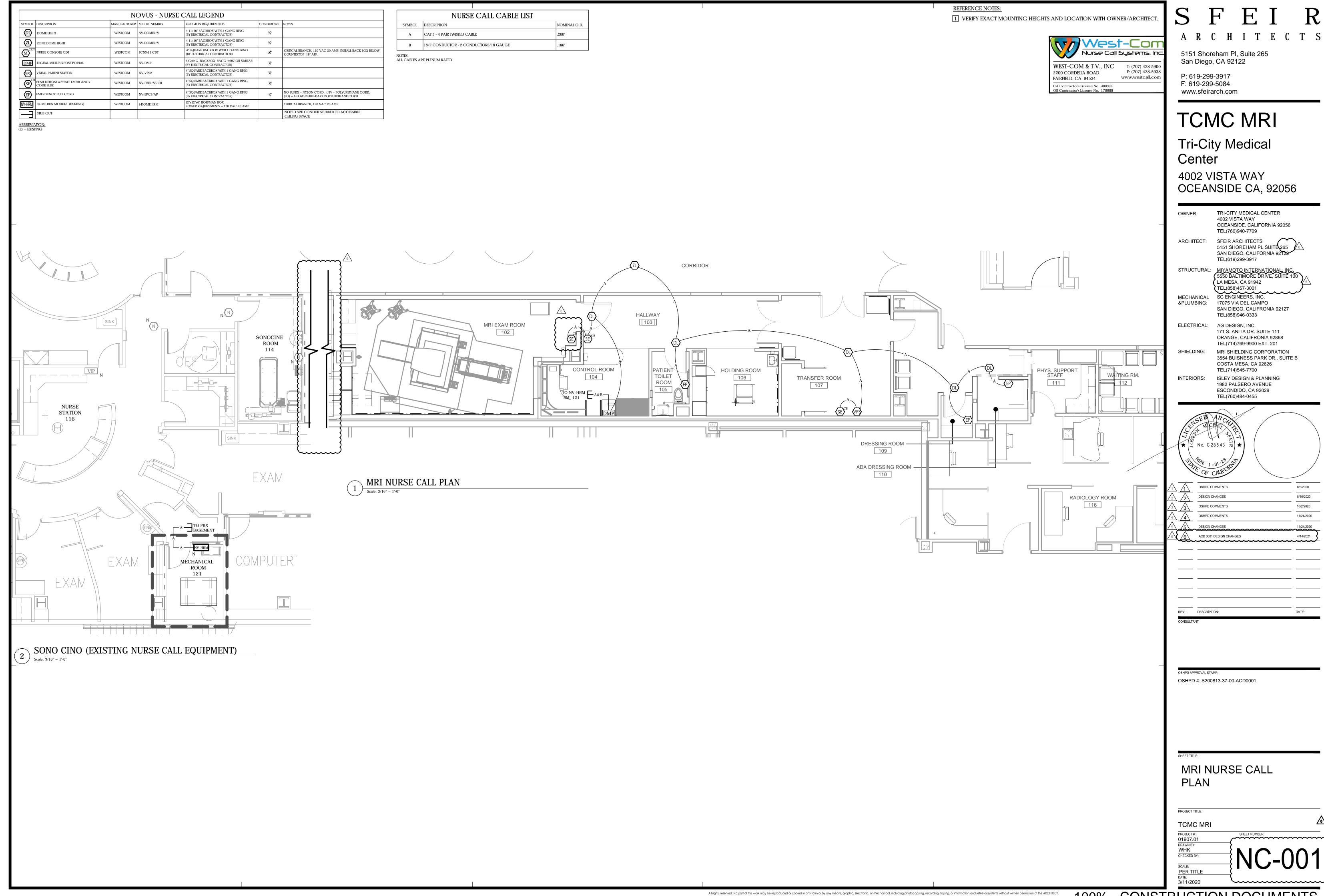
### **GENERAL NOTES**

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- ALL EMPTY CONDUIT ARE TO BE PROVIDED WITH AN ADEQUATELY SIZED NYLON PULL ROPE.
- ELECTRICAL CONTRACTOR SHALL REFER TO MECHANICAL/PLUMBING AND ARCHITECTURAL DRAWINGS FORT LOCATIONS AND CHARACTERISTICS OF ALL EQUIPMENT LISTED IN SCHEDULE. ANY MODIFICATIONS AND/OR ADDITIONAL WORK NECESSARY SHALL BE INCLUDED IN THE BASE BID.
- ELECTRICAL CONTRACTOR SHALL VERIFY THE LOCATION OF ALL CONNECTION POINTS WITH THE EQUIPMENT INSTALLER PRIOR TO ROUGH-IN.
- HOME-RUNS ONLY ARE REFERENCED ON PLANS. IN ADDITION CONDUIT PATHWAYS BETWEEN DEVICES ARE NOT INCLUDED TO PROVIDE THE INSTALLING CONTRACTOR THE FLEXIBILITY TO INSTALL ALL CONDUIT AND WIRE IN THE MOST EFFICIENT AND NEAT MANNER POSSIBLE. CONTRACTOR IS RESPONSIBLE FOR PROVIDING ALL REQUIRED CONDUIT AND CONDUCTORS AS REQUIRED FOR A COMPLETE AND OPERATIONAL SYSTEM. REFER TO COVER SHEET E0-00 FOR GENERAL BRANCH CIRCUIT SIZING AND REQUIREMENTS.
- COORDINATE LOCATIONS AND MOUNTING HEIGHTS FOR ALL DEVICES IN CONTROL ROOM, EQUIPMENT ROOM AND CATH LAB WITH VENDOR DRAWINGS AND ELEVATIONS PRIOR TO ROUGH-IN OF ELECTRICAL.
- IN INSTANCES WHERE A BRANCH CIRCUIT IS REFERENCED MORE THAN ONCEON A SEPARATE HOME-RUN, THE CONTRACTOR IS RESPONSIBLE FOR INSTALLING A J-BOX ABOVE THE PANELBOARD TO CONSOLIDATE CIRCUITS INTO ONE (1) SINGLE BRANCH CIRCUIT CONNECTION BY SPLICING ALL CONDUCTORS TOGETHER AND ROUTING ONE (1) SINGLE CONDUIT AND GROUP OF BRANCH CIRCUIT CONDUCTORS FROM THE J-BOX TO THE ASSOCIATED TERMINATIONS WITHIN THE PANELBOARD.
- ALL CONDUIT HOME-RUNS AND BRANCH CIRCUIT CONDUIT RUNS ARE TO INCLUDE A DEDICATED GREEN GROUND CONDUCTOR SIZED PER CEC AND TERMINATED PER MANUFACTURER'S AND APPLICABLE CODE REQUIREMENTS.
- CONTRACTOR IS TO PROVIDE AND INSTALL A 4S J-BOX ABOVE THE CEILING AT EACH RECEPTACLE/DEVICE LOCATION THEN EXTEND REQUIRED/PROPERLY SIZED CONDUIT AND WIRE FROM J-BOX AND TERMINATE AT EACH DEVICE. IT IS NOT PERMITTED TO CONNECT DEVICES WITH THROUGH PENETRATIONS BETWEEN WALLS TO CONNECT TO DEVICES IN DIFFERENT ROOMS.
- NO MC FLEX CONNECTIONS ARE PERMITTED FOR USE EXCEPT FOR WHEN CONNECTIONS ARE BEING MADE FROM A J-BOX TO A LIGHT FIXTURE OR OTHER SIMILAR DEVICE INSTALLED ABOVE THE CEILING. ALL OUTLETS/DEVICES INSTALLED WITHIN WALLS ARE TO BE CONNECTED WITH HARD PIPE EMT CONDUIT AND WIRE.







#### **GENERAL NOTES:**

PURPOSE OF RADIO FREQUENCY INTERFERENCE (RFI) SHIELDING THE PURPOSE OF THIS ENCLOSURE SYSTEM IS TO SHIELD THE EQUIPMENT WITHIN FROM OUTSIDE RADIO INTERFERENCE THAT COULD CAUSE THE EQUIPMENT TO MALFUNCTION OR PRODUCE ERRONEOUS RESULTS.

#### MATERIAL SELECTION

TO PRESERVE THE HOMOGENEITY OF THE MAGNETIC FIELD ALL MATERIALS SELECTED FOR THE FABRICATION OF THE ENCLOSURE SYSTEM WHERE FEASIBLE WILL BE NON-FERROUS (IE. COPPER, BRASS, STAINLESS STEEL) WHERE NOT FEASIBLE, HEAVY FERROUS MATERIALS ARE NOT TO EXCEED 3 LBS PER SQUARE FOOT AND ARE TO BE PERMANENTLY ATTACHED TO NOT MOVE AND/OR VIBRATE.

#### SHIELD PERFORMANCE REQUIREMENT

SHIELD SYSTEM IS TO BE ISOLATED FROM GROUND BY AT LEAST 1000 OHMS THE REQUIRED ATTENUATION LEVELS ARE 100 DB AT 102.2, 127.27, AND 153.3MHz FOR A 3T PLANEWAVE.

#### RADIO FREQUENCY TESTING

RF TESTING TO FOLLOW MIL. STD. 285 TESTING PROCEDURES FOR RF ENCLOSURES.

TEST SHALL BE WITNESSED BY THE GE FIELD ENGINEER AND THE TEST REPORT DELIVERED TO THE GE PROJECT MANAGER. MAGNET IN PLACE, DOCK ANCHOR INSTALLED, GE FRAMES INSTALLED, BLANK PANELS INSTALLED FOR FINAL TEST.

#### FLOOR CONSTRUCTION DETAILS

THE RFI SHIELDED FLOOR CONSISTS OF 3 OZ. COPPER PLANE LAMINATED TO WOOD. ADDITIONAL WOOD IS LAYED OVER R.F. SHIELD TO WHICH THE FINISHED FLOOR MAY BE APPLIED UNLESS OTHERWISE NOTED. (PREP B.O.)

#### CEILING AND WALL CONSTRUCTION DETAILS

3 OZ. COPPER PLANE WILL BE ATTACHED TO INTEGRATED WALL AND CEILING FRAMING WITH THE PLYWOOD AND ALL SEAMS ARE OVERLAPPED MINIMUM 2". ALL ROUGH FRAMED OPENINGS FOR DOOR, WINDOW, PENETRATION PANEL TO BE WOOD FRAMED 4X4 (B.O.) AND MECHANICAL DUCTS AND OTHERS TO BE 2X4 WOOD (B.O.) FRAMED OR AS NOTED ON DETAILS.

#### DOOR CONSTRUCTION DETAILS

THE MRI SHIELDED DOOR UNIT ISA FACTORY ASSEMBLY CONSISTING OF THE DOOR FRAME, DOOR LEAF, DOOR SILL, HARDWARE AND PNEUMATIC BLADDER AROUND THE ENTIRE PERIMETER TO FORM THE RF SEAL. SEE SHEET 5 DOOR DETAIL G.C. TO PROVIDE A 120 V NON-DEDICATED OUTLET IN EQUIPMENT ROOM FOR COMPRESSOR.

#### VIEWING WINDOW CONSTRUCTION DETAILS

THE RFI VIEWING WINDOW ASSEMBLY CONSISTS OF AN ANGLE FRAME AND TWO COPPER-MESH SCREEN SHIELD. SEE SHEET 6 FOR DETAIL.

#### HVAC PENETRATIONS

HONEYCOMB WAVEGRILLS ARE SUPPLIED AT ALL HVAC PENETRATION. SEE SHEET 7. DUCTING (BY OTHERS), AT INTERIOR OF EXAM ROOM, CAN BE ATTACHED TO A FLANGE DIRECTLY ONTO HONEYCOMB TO MAINTAIN THE SINGLE-POINT GROUNDING REQUIREMENT ATTACHED PLENUM TYPE BOX TO ROUGH WOOD FRAMED OPENING WITHOUT TOUCHING THE HONEYCOMB OR R.F. SHIELD. NOTE: IT IS THE RESPONSIBILITY OF THE GC / ARCHITECT TO PROVIDE MRI WITH SIZE, LOCATION, ROUGH WOOD FRAMED OPENING OF HVAC DUCTING.

#### REMOVABLE PANEL FEATURE

ONE WALL PANEL / ROOF HATCH MAY BE REMOVED TO ALLOW THE EQUIPMENT TO ENTER AND / OR EXIT THE ENCLOSURE. THE CLEAR OPENING AT THE LOCATION SHOULD BE PER EQUIPMENT MANUFACTURER'S SPECIFICATIONS UNLESS NOTED OTHERWISE.

#### ELECTRICAL / DATA / PHONE / SMOKE FILTERS

ALL ELECTRICAL POWER, DATA, SMOKE, PHONE SIGNAL WIRES ENTERING THIS ROOM MUST BE FILTERED. ELECTRIC, PHONE, DATA, SMOKE DETECTION FILTERS PROVIDED BY MRI CORP. ANY FILTERS NEEDED BEYOND ORIGINAL BUDGET PROVIDED SHALL BE EXTRA.

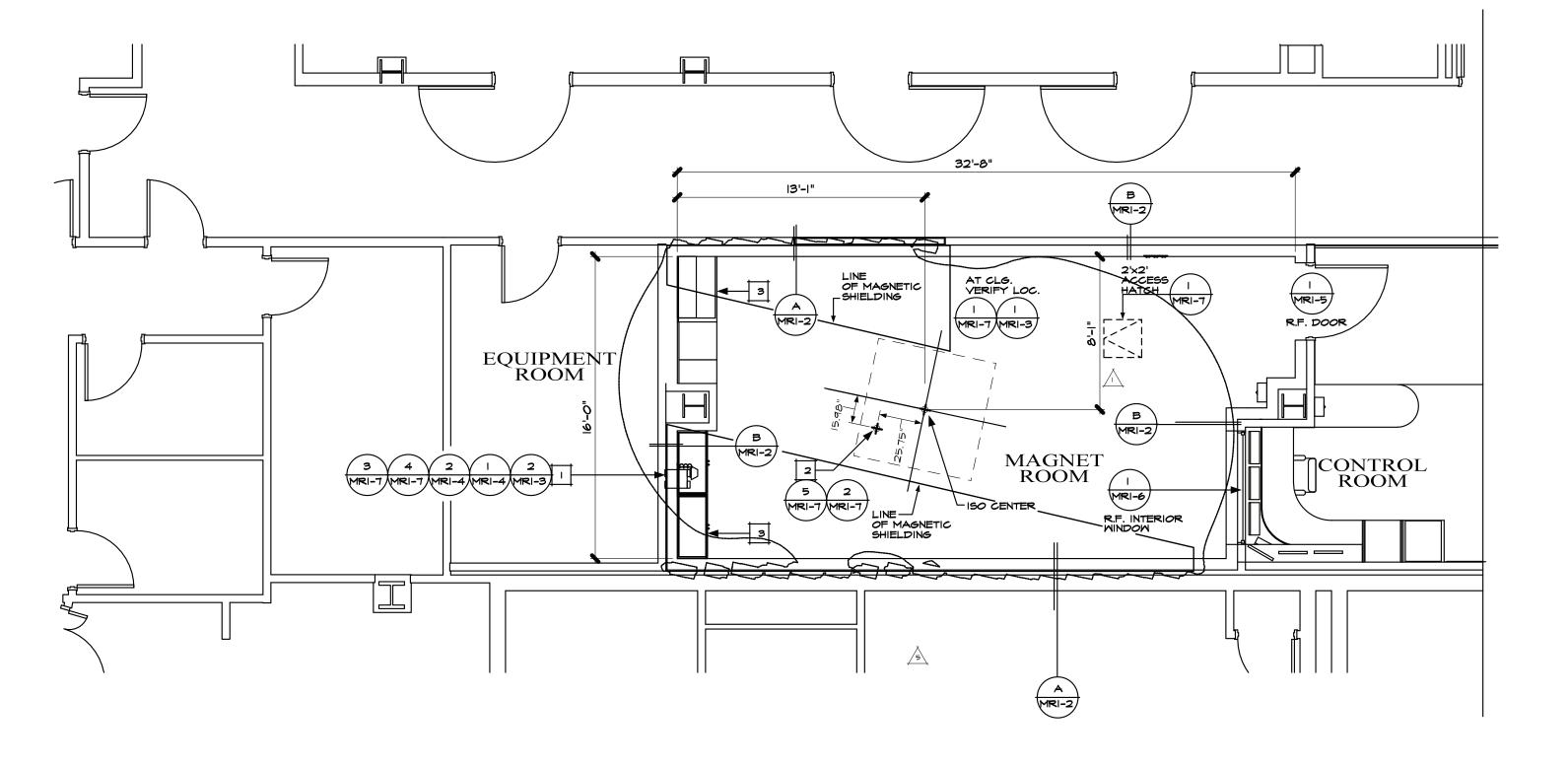
#### STRUCTURAL NOTES:

THESE DRAWINGS ARE PREPARED FOR R.F. SHIELDING INSTALL PURPOSE ONLY. ARCHITECT, ENGINEER OF RECORD, AND GENERAL CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR ROOM DIMENSIONS AND CONSTRUCTION. REFER TO ARCHITECTURAL DRAWINGS FOR ALL DIMENSIONS AND CONSTRUCTION MATERIAL OTHER THAN R.F. SHIELDING ASSEMBLY AND FRAMES. ALL WORK AND MATERIAL SHALL CONFORM TO THE 2019 CALIFORNIA BUILDING CODE.

THE SEISMIC PARAMETERS ARE:
-SEISMIC DESIGN CATEGORY = D
-OCCUPANCY CATEGORY = IV
-SDS = I.OO
-I = I.5

#### NOTE

- I. VERIFY DIMENSIONS AND LOCATIONS OF EQUIPMENT, WINDOW, DOOR, WITH FINAL ARCHITECTURAL DRAWINGS.
- 2. REFER TO MAGNET SUPPLIER DRAWINGS AND ARCHITECTURAL DRAWINGS FOR MORE DETAILS SUCH AS BASE PLATES FOR SYSTEM AND EQUIPMENT LAYOUT.
- 3. ARCHITECT AND STRUCTURAL ENGINEER OF RECORD SHALL BE RESPONSIBLE FOR ALL STRUCTURAL DESIGN AND INFORMATION. THIS DRAWING ONLY COVERS RF DESIGN DETAILS. RF SHIELD CONTRACTOR DOES NOT TAKE ANY LIABILITY FOR STRUCTURAL INTEGRITY.
- 4. ANY SHIELDING QUESTIONS OR MODIFICATIONS TO THESE DRAWINGS, PLEASE CALL MRIC 714-545-7700
- 5. GE PANEL FRAMES AND VIBROMATS TO BE INSTALLED BY MRIC, PROVIDED BY GE.
- 6. GE REQUIRES THAT CONCRETE FLOOR FLATNESS / LEVELNESS BE WITHIN I/8" OVER AN AREA OF 246"  $\times$  85" AS SHOWN ON GE PIM.
- 7. MAGNET PATIENT TABLE DOCKING ANCHOR TO BE LOCATED BY GE FIELD ENGINEER, PROVIDED AND INSTALLED BY MRIC. ANCHOR TO BE DROP IN TYPE AND REMOVABLE.
- 8. RF DOOR SWITCH TO BE SUPPLIED BY MRIC AND INSTALLED BY ELECTRICIAN.
- 9. M36 SILICON STEEL MAGNETIC SHIELDING TO BE PROVIDED AND INSTALLED BY MRIC PER GE DRAWINGS SHEETS SH-I AND SH-2.



### PLAN VIEW

ANY DEVIATION FROM THESE DRAWINGS SHALL BE PROCESSED AND CONSULTED THROUGH MRI CORP. TO AVOID CONSTRUCTION DELAYS, EVENTUAL SHIELDING AND REQUIRED ISOLATION CONFLICTS.

#### **KEY NOTES**

- SINGLE SPRINKLER PIPE PENETRATION REQUIRED FOR WET SYSTEMS AT PENETRATION PANEL AREA. MEDICAL GAS WAVEGUIDES WILL BE INSTALLED ADJACENT TO SINGLE SPRINKLER WAVEGUIDE.
- CRYOGEN PIPE WAVEGUIDE WILL BE 16 GA. S.S. WELDED TUBE 8" IN O.D. DIAMETER AT SHIELD TO MATCH G.E. 8" STAINLESS STEEL TUBING.
- CABINET TOE BASE MUST BE GLUED TO FLOOR. DO NOT ANCHOR, PUNCTURE, NAIL, TOE BASE TO THE SHIELD. BACKING BY OTHERS.

△ OSHPD 6/18/2020

te B

isiness Center Drive, Suite B lesa, CA. 92626

3554 Business Ce Costa Mesa, CA.



RI CITY

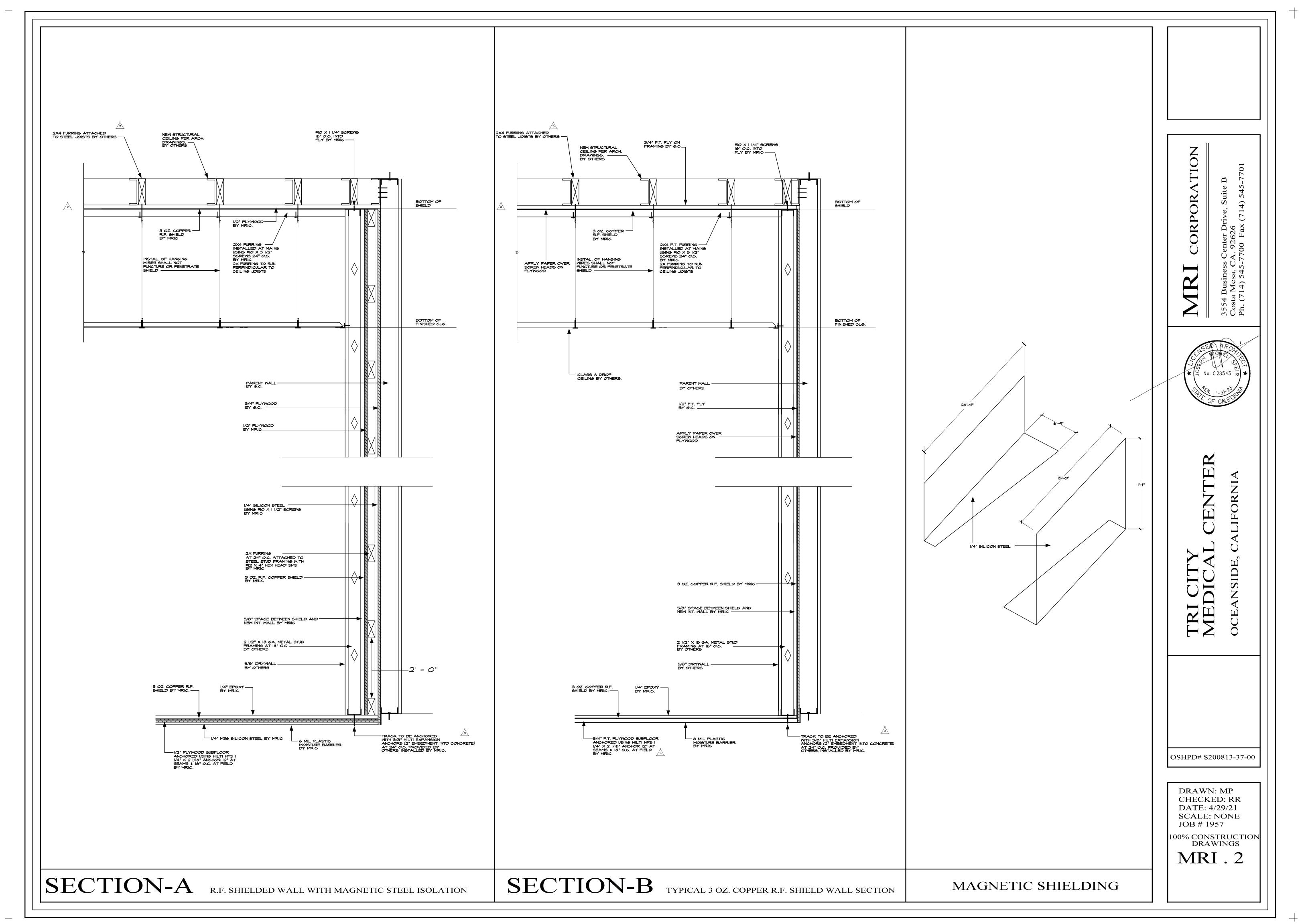
IEDICAL CENTER

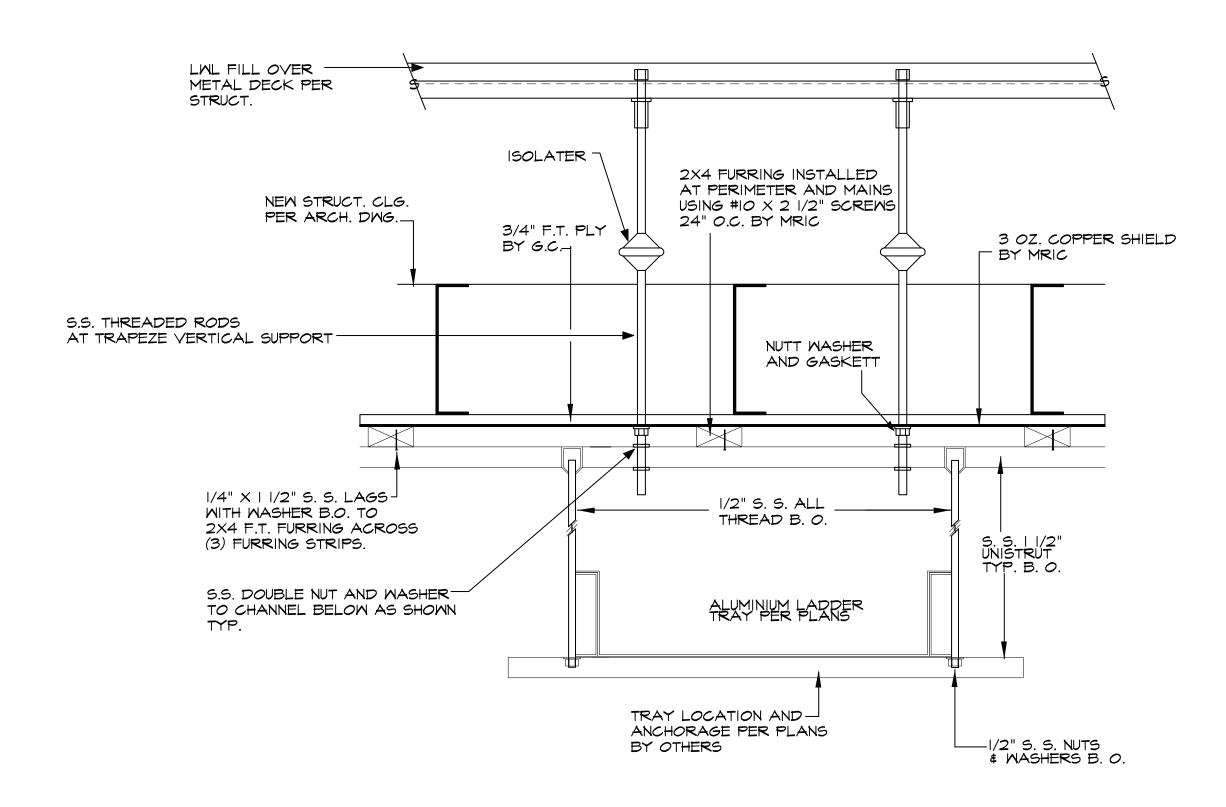
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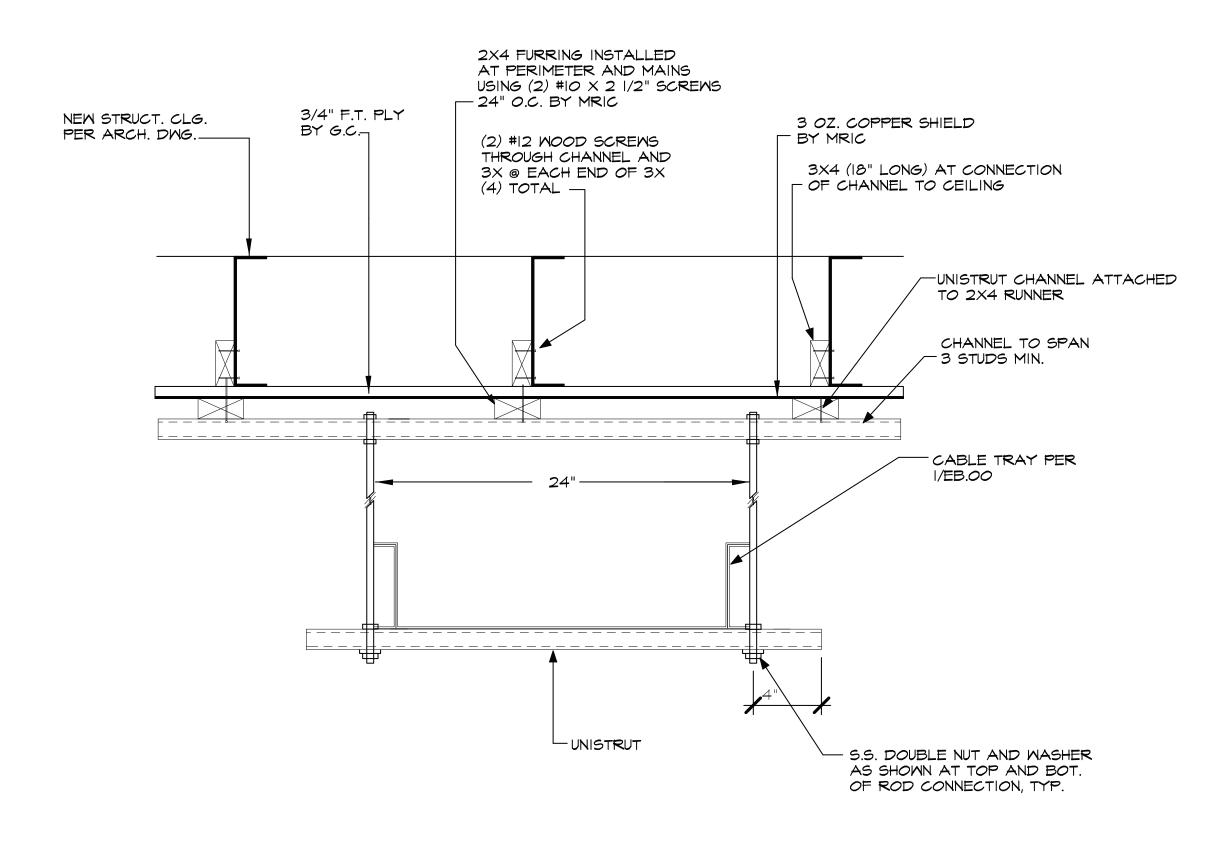
100% CONSTRUCTION DRAWINGS

MRI.1

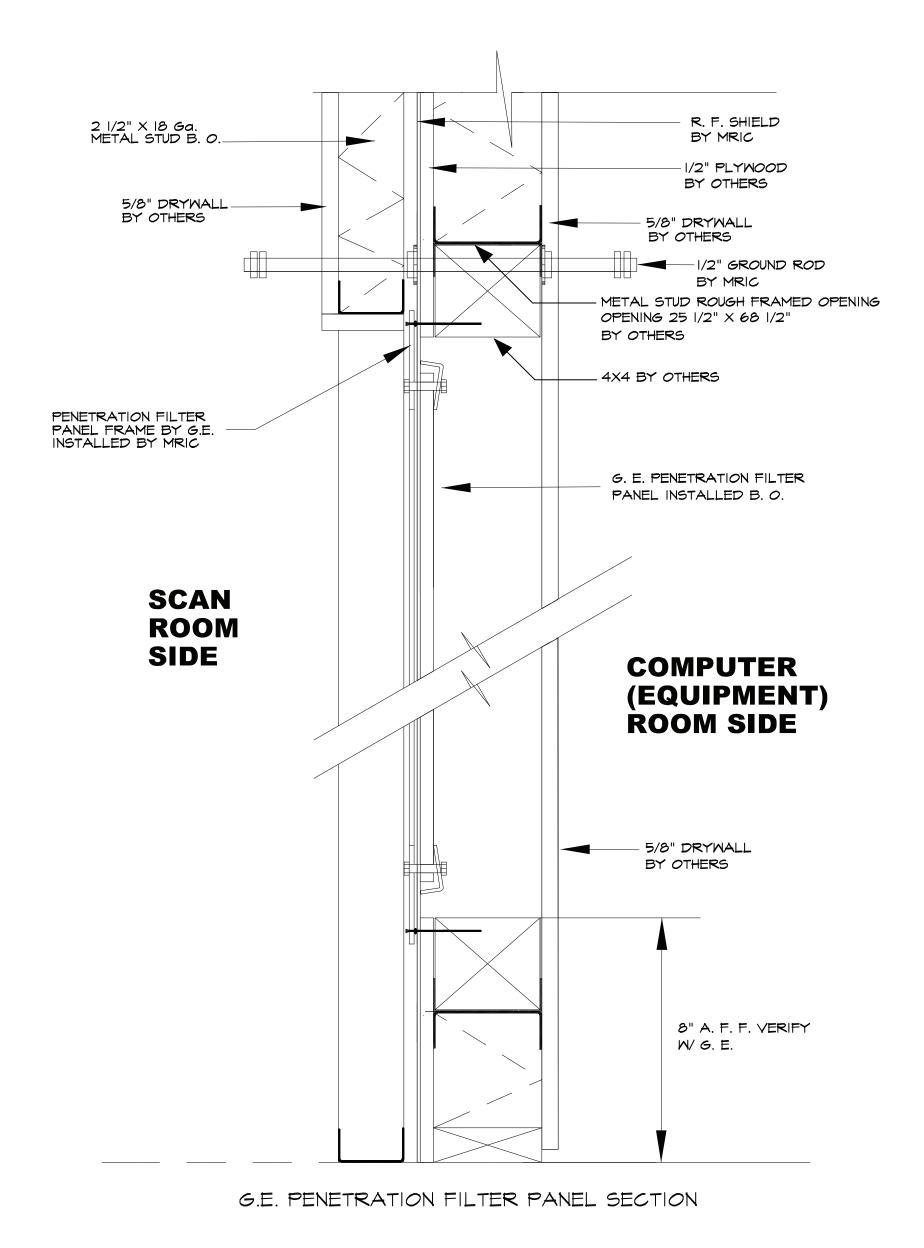


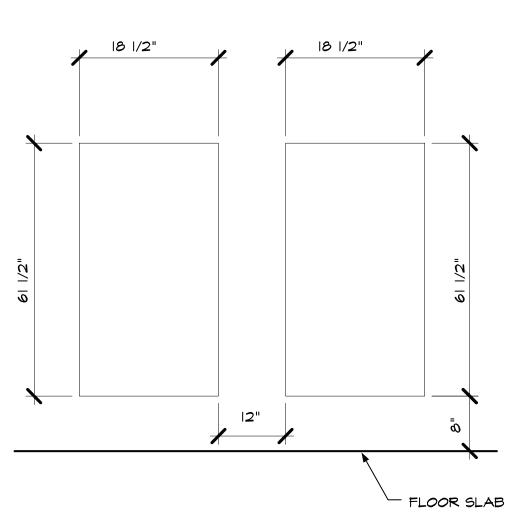


### CABLE TRAY (OPTION 1) FOR REFERENCE ONLY



CABLE TRAY (OPTION 2) 1 FOR REFERENCE ONLY





PANEL ELEVATION

GE PENETRATION 2 FILTER PANEL OPENING RI CORPORATION

No. C 28543 TO X

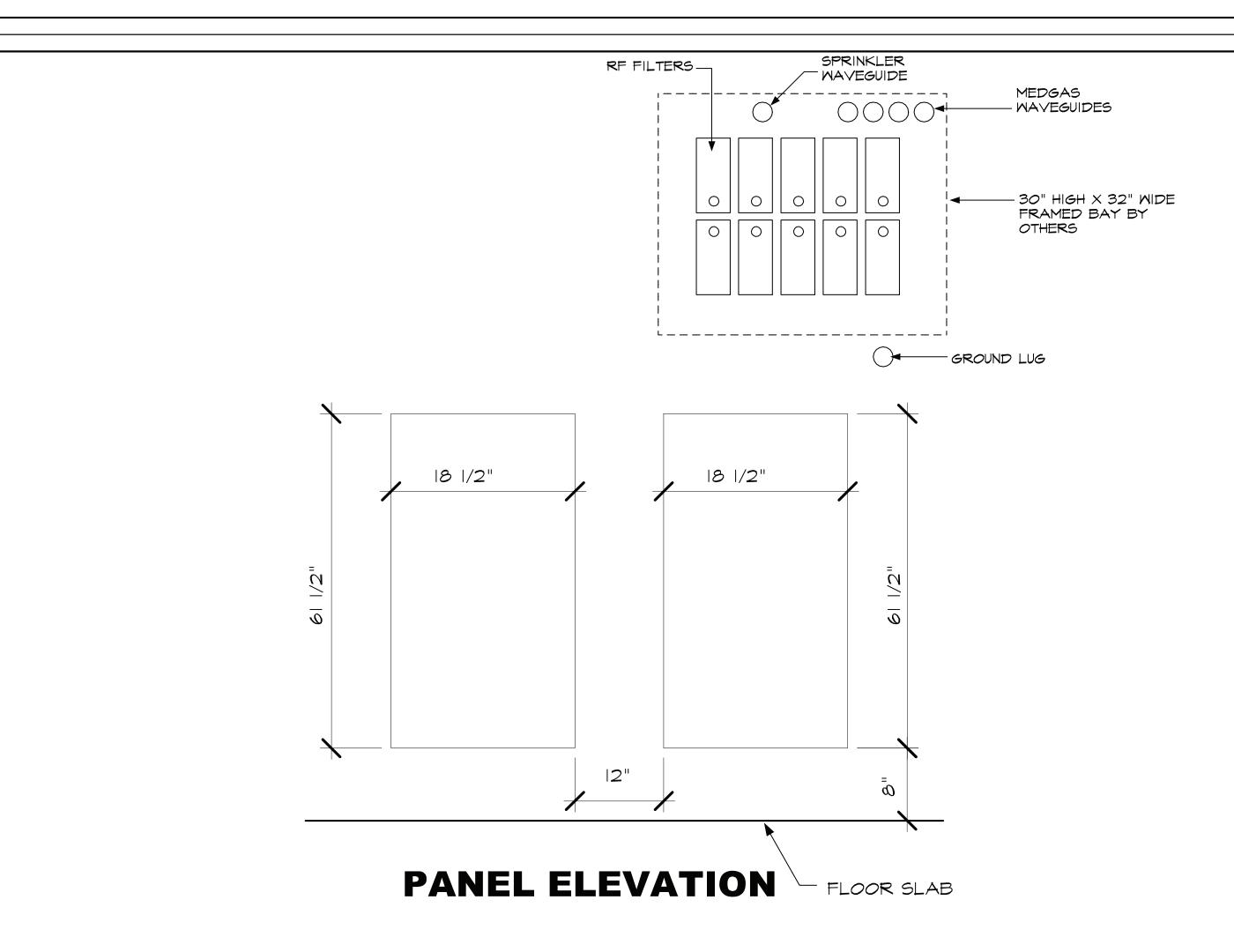
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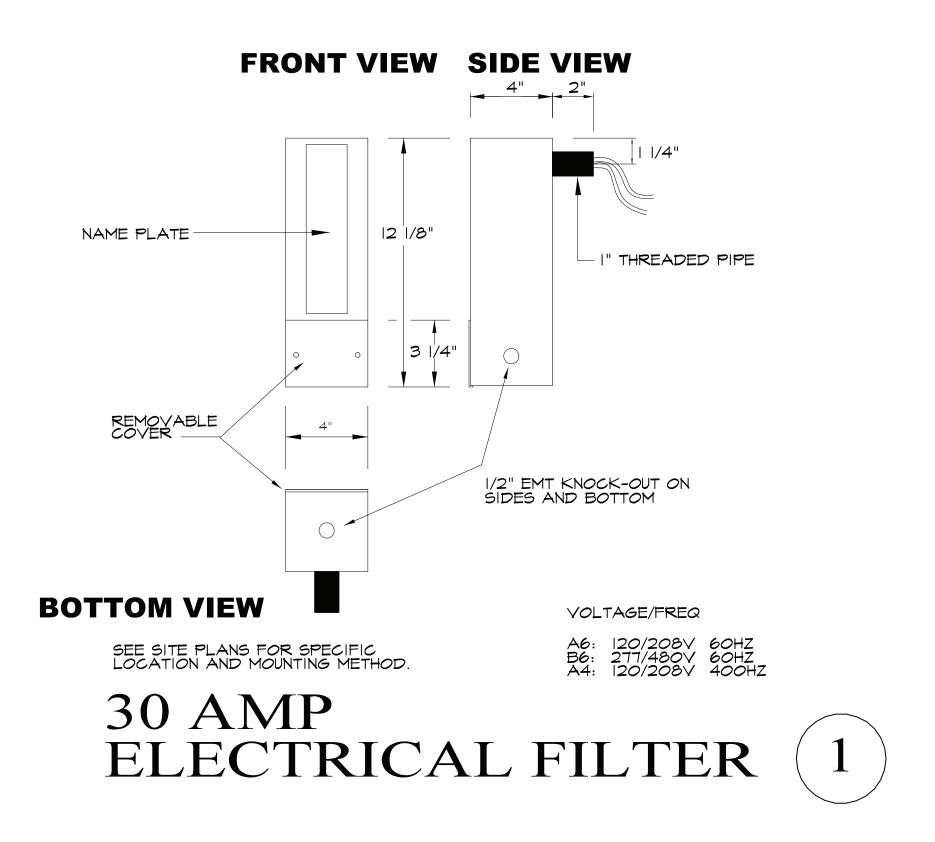
100% CONSTRUCTION DRAWINGS

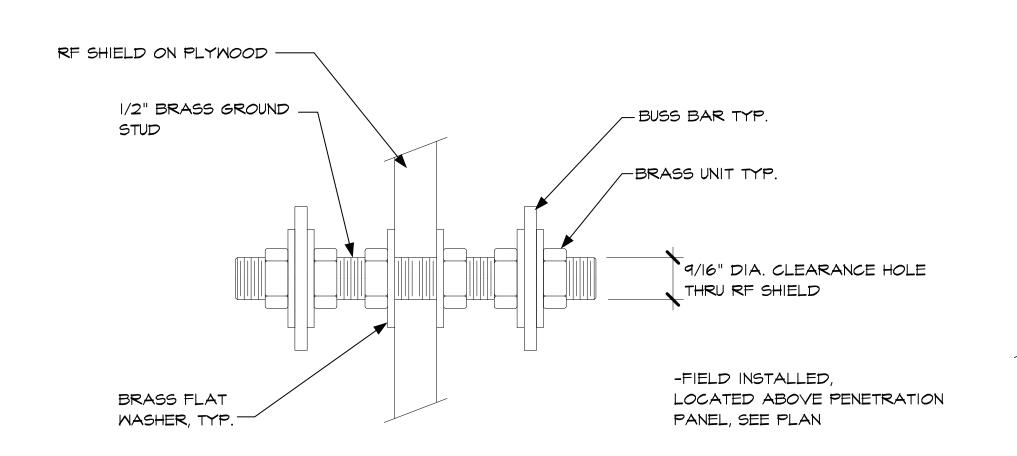
MRI.3



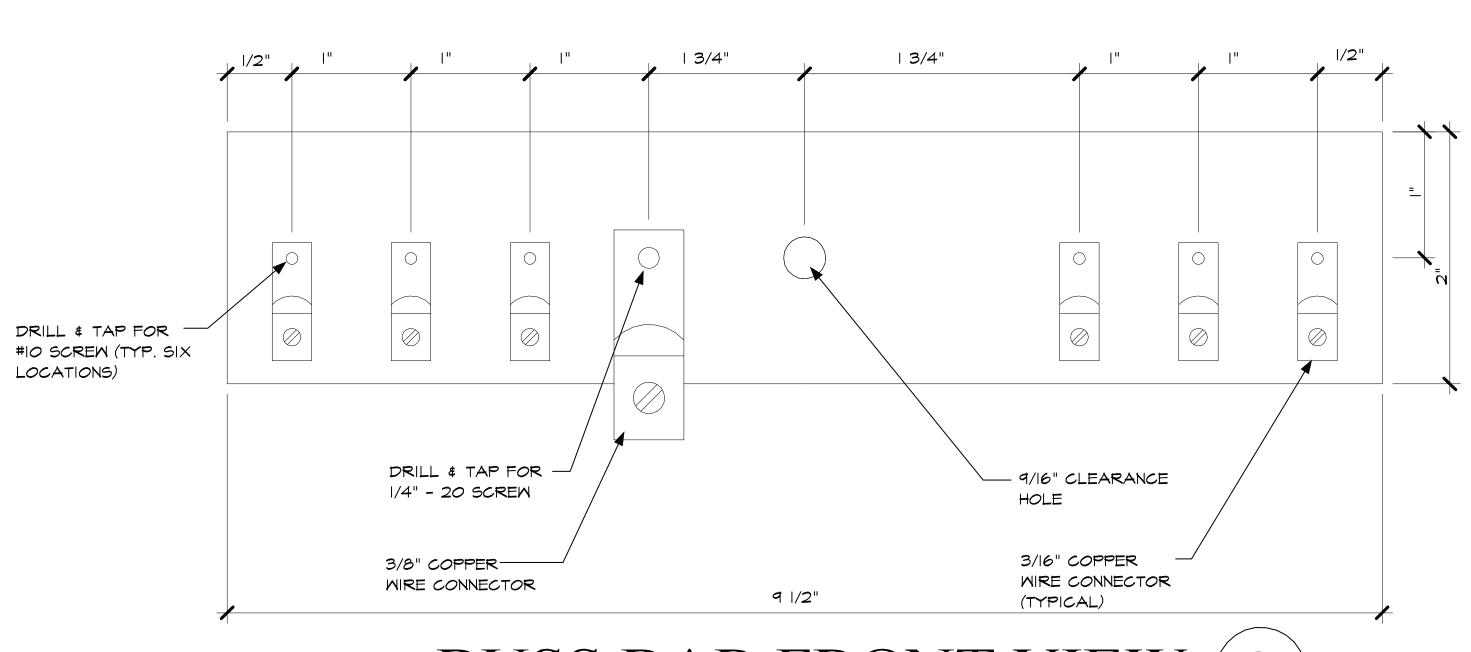
### FILTER AND WAVEGUIDE LAYOUT

(TYPICAL VIEW FROM OUTSIDE ROOM, EXACT LAOUT TO BE DETERMINED ON FIELD)





# GROUND STUD & BUSS BAR ASSEMBLY (BY MRIC)



BUSS BAR FRONT VIEW (2
(BY OTHERS)

CORPORATION

554 Business Center Drive, Suite osta Mesa, CA. 92626

No. C 28543 R

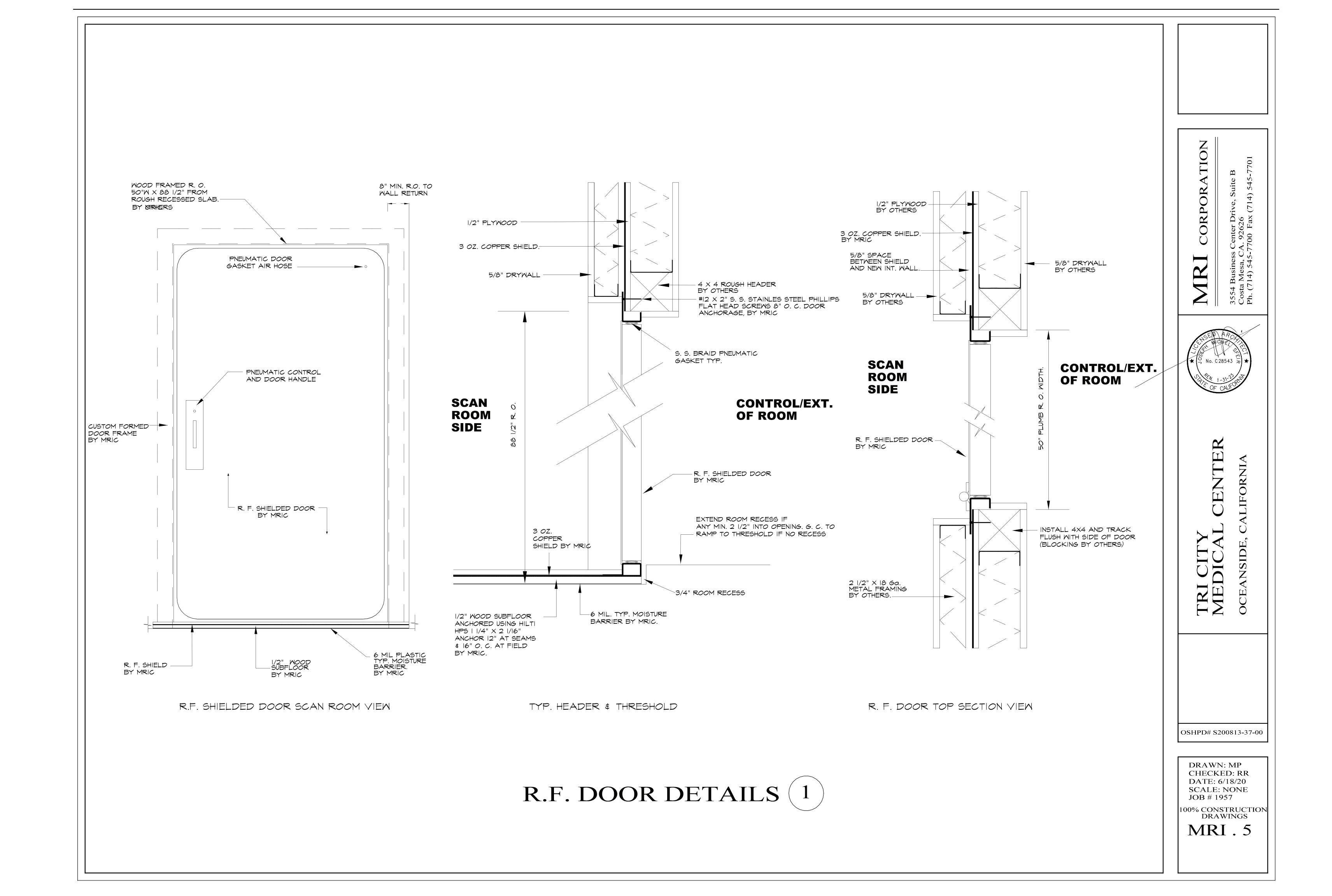
FRI CITY MEDICAL CENTER

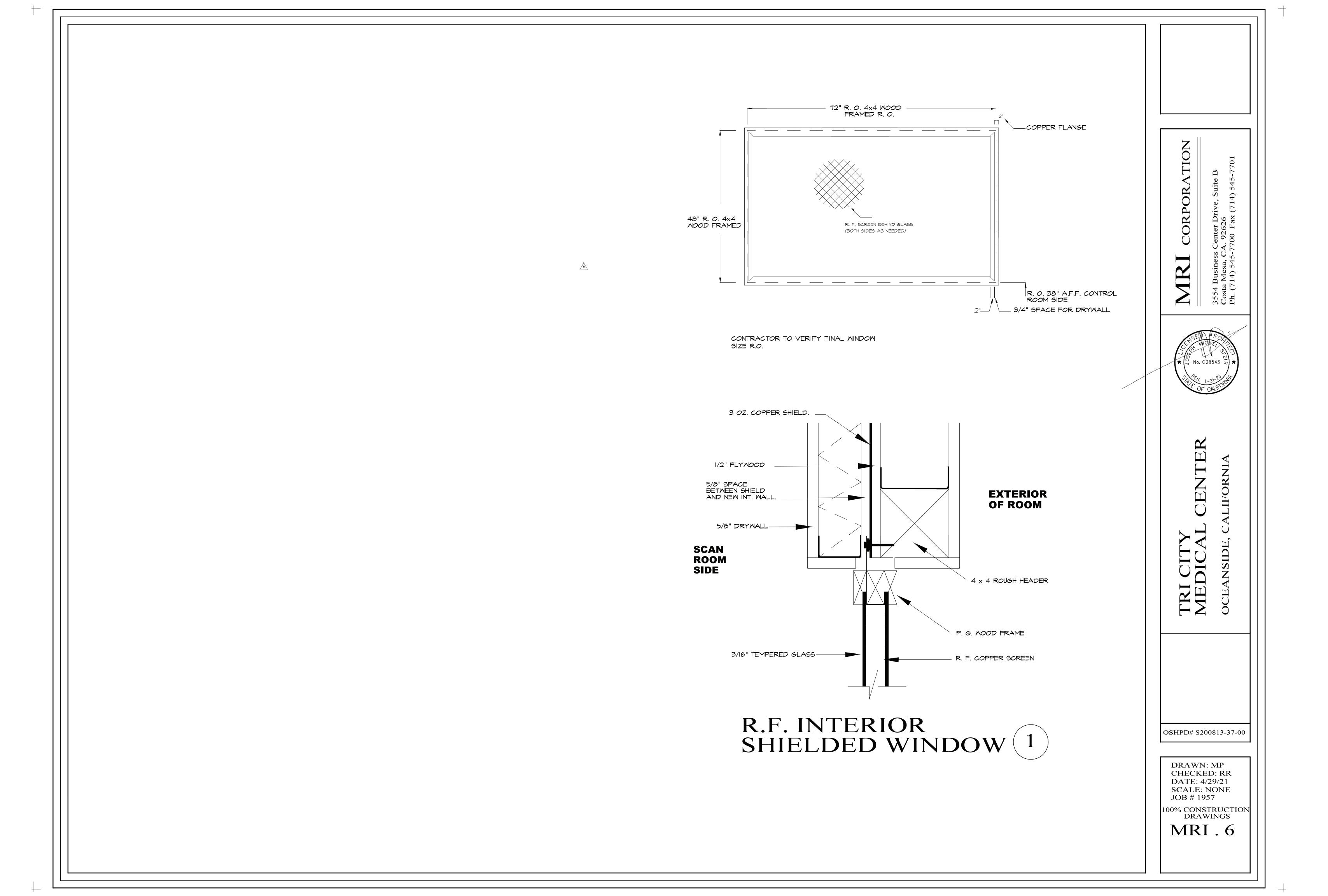
OSHPD# S200813-37-00

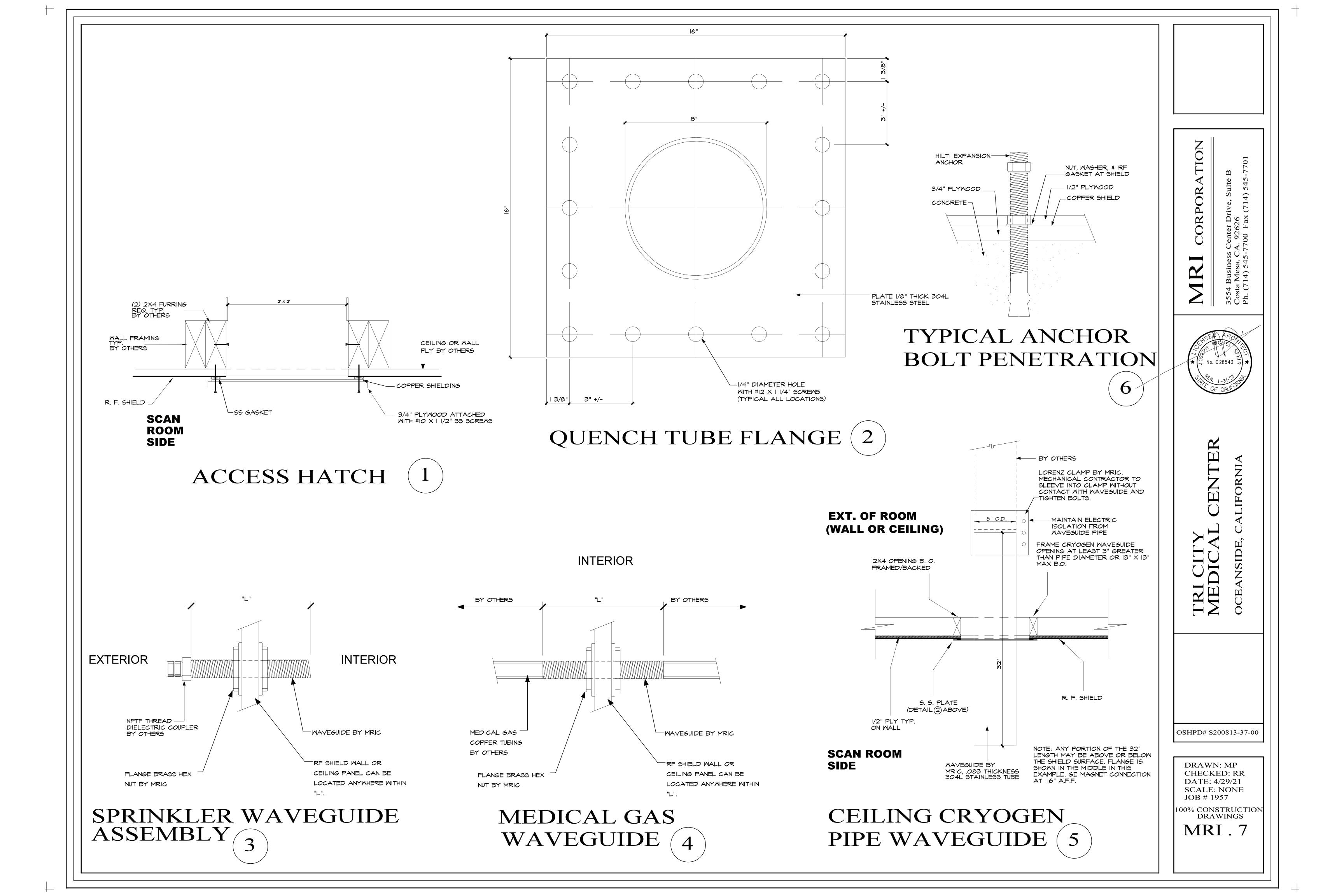
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100% CONSTRUCTION DRAWINGS

MRI.4







#### GENERAL NOTES

1. DESIGN AND INSTALLATION TO BE IN ACCORDANCE WITH THE FOLLOWING CODES:

2019 CALIFORNIA FIRE CODE (CFC)
2019 CALIFORNIA BUILDING CODE (CBC)
2016 NFPA 13, STANDARD FOR THE INSTALLATION OF SPRINKLER
SYSTEMS, WITH CALIFORNIA AMENDMENTS
CHAPTER 13 OF ASCE 7 AS MODIFIED BY THE CBC 2019 SECTIONS
1613A/1616A AND SFM AMENDMENTS

- 2. ALL NEW FIRE SYSTEM PIPING (ABOVE GROUND) TO BE SCHEDULE 40 BLACK STEEL.
- 3. ALL FIRE SYSTEM EQUIPMENT TO BE UNDERWRITERS LABORATORIES (UL) LISTED FOR FIRE PROTECTION USE.
- 4. ALL HANGERS TO BE INSTALLED IN ACCORDANCE WITH NFPA 13 AND JOIST AND HANGER MANUFACTURER'S INSTALLATION INSTRUCTIONS.
- 5. ALL PIPE DIMENSIONS SHOWN ARE CENTER TO CENTER.
- 6. CONTRACTOR IS TO FIELD VERIFY ALL DIMENSIONS AND COORDINATE WITH OTHER TRADES PRIOR TO INSTALLATION. INSTALL OFFSETS AS REQUIRED FOR COORDINATION.

HANGER SPACING NOT TO EXCEED 12'-0"

DROP TO FINISHED CEILING

PROVIDE 2" OVERSIZE RING OR ADAPTER FOR SPRINKLER HEADS

LEAST 1" IN ALL DIRECTIONS PER ASCE 7-05 SECTION 13.5.6.2.2(e)

DO NOT HANG PIPE FROM ROOF, ONLY HANG FROM STEEL BEAMS.

THROUGH THE CEILING TILE TO ALLOW FOR FREE MOVEMENT OF AT

─ 1" 90 ELBOW OR 1" TEE

TO EXTEND ARMOVER

TO NEXT STRUCTURAL

— 1" X ½" REDUCING

CONCEALED PENDENT

CEILING COVER PLATE

COUPLING

SPRINKLER

ARMOVER HANGER (IF REQUIRED,

EXISTING SPRINKLER BRANCH LINE TEE OR

NEW MECHANICAL TEE

SEE DETAIL 2 OR # THIS SHEET)

1" ARMOVER -

HANG ARMOVER IF

LENGTH EXCEEDS 2'-0"

1 ARMOVER DETAIL SCALE: NTS

CEILING TILES -

- 7. REFERENCE PROJECT SPECIFICATIONS FOR ADDITIONAL INFORMATION NOT SHOWN ON THE DRAWINGS.
- 8. AS-BUILT DRAWINGS SHALL BE MAINTAINED ON PREMISES.

#### SCOPE OF WORK

PROVIDE AUTOMATIC SPRINKLER PROTECTION FOR THE REMODEL AREA ON THE FIRST FLOOR OF TRI-CITY MEDICAL CENTER AS INDICATED ON THE PLANS. THE REMODEL CONSISTS OF RENOVATION WORK INCLUDING DEMOLITION OF EXISTING WALLS AND REARRANGEMENT OF THE SPACE OVERALL. SPRINKLER REMODEL WILL BE AS FOLLOWS:

- 1. DEMO EXISTING SPRINKLERS AND ARMOVERS BACK TO BRANCH LINE.
- INSTALL NEW ARMOVERS TO NEW SPRINKLERS FROM EXISTING OUTLETS.
   USE MECHANICAL TEES WHERE EXISTING OUTLETS ARE UNAVAILABLE.
- 3. PROVIDE ALL REQUIRED HANGERS ON THE NEW SPRINKLER SYSTEM AS INDICATED ON THE SPRINKLER PIPING PLANS AND DETAILS AND IN ACCORDANCE WITH NFPA 13 CHAPTER 9.
- 4. STEEL PIPE WILL TRANSITION TO NON-FERROUS PIPING BEFORE ENTERING THE MRI ROOM.

#### SPRINKLER DESIGN CRITERIA

 OFFICES AND CORRIDORS: LIGHT HAZARD WET PIPE SPRINKLER SYSTEM DESIGNED TO PROVIDE 0.10 GPM/SQ. FT. OVER THE MOST REMOTE 1,500 SQ. FT. INCLUDING A HOSE DEMAND OF 100 GPM. MAXIMUM SPRINKLER AREA OF PROTECTION TO BE 225 SQ. FT.

#### SHEET INDEX

P-101 FIRE SPRINKLER GENERAL NOTES AND DETAILS

FP-102 FIRE SPRINKLER DEMOLITION PLAN EAST

FP-103 FIRE SPRINKLER DEMOLITION PLAN WEST

FP-104 FIRE SPRINKLER RENOVATION EAST

FP-105 FIRE SPRINKLER RENOVATION WEST

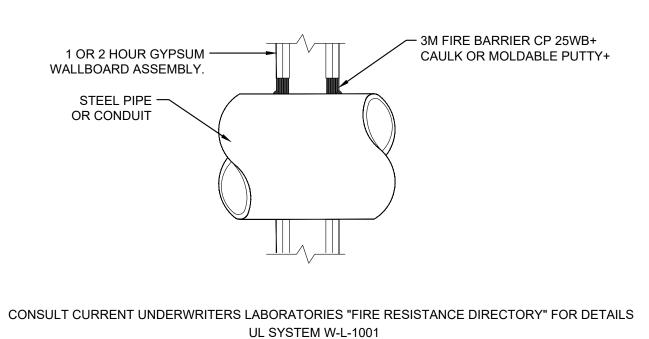
STEEL WIDE FLANGE -BEAM (I-BEAM) - MINIMUM 1" RETURN C-TYPE BEAM CLAMP TO -ON STRAP TOP OR BOTTOM FLANGE 3/8" ROD: TOLCO FIG. 65XT ½" ROD: TOLCO FIG. 65 BEAM CLAMP RETAINING STRAP ALL THREAD ROD -TOLCO FIG. 69 TOLCO FIG. 100 SURGE RESTRAINER TOLCO FIG. 25 — HANGER RING TOLCO FIG. 200 SPRINKLER PIPE OR -

2 BEAM HANGER DETAIL
SCALE: NTS

12 FT. MAXIMUM

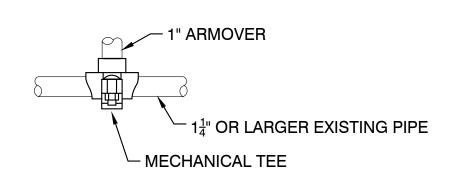
TRAPEZE MEMBER

HANGER SPACING



3M FIRESTOPPING TO EQUAL FIRE RATING OF PENETRATED WALL KEEP ANNULAR CLEARANCES PER NFPA 13

3 PENETRATION AT STUD WALL
SCALE: NTS



4 MECHANICAL TEE DETAIL
SCALE: NTS

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A R C H I T E C T S

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Tri-City Medical Center

4002 VISTA WAY OCEANSIDE CA, 92056

TRI-CITY MEDICAL CENTER 4002 VISTA WAY OCEANSIDE, CALIFORNIA 92056 TEL(760)940-7709 ARCHITECT: SFEIR ARCHITECTS 5151 SHOREHAM PL SUITE 100 SAN DIEGO, CALIFORNIA 92122 TEL(619)299-3917 STRUCTURAL: MIYAMOTO INTERNATIONAL, INC. 5151 SHOREHAM PLACE SUITE 280 SAN DIEGO, CALIFORNIA 92122 TEL(858)457-3001 SC ENGINEERS, INC. MECHANICAL 17075 VIA DEL CAMPO SAN DIEGO, CALIFRONIA 92127 TEL(858)946-0333 ELECTRICAL: AG DESIGN, INC. 171 S. ANITA DR. SUITE 111

171 S. ANITA DR. SUITE 111
ORANGE, CALIFRONIA 92868
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SHIELDING:
MRI SHIELDING CORPORATION
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COSTA MESA, CA 92626

TEL(714)545-7700

NTERIORS: ISLEY DESIGN & PLANNING 1982 PALSERO AVENUE ESCONDIDO, CA 92029 TEL(760)484-0455



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+1 619-488-9810
WWW.JENSENHUGHES.COM

OSHPD APPROVAL STAMP:
OSHPD #: S200813-37-00

FIRE SPRINKLER
GENERAL NOTES AND

DETAILS

PROJECT TITLE:

TCMC MRI

PROJECT #: SHEET NUMBER:
01907.01
DRAWN BY:

CHECKED BY:

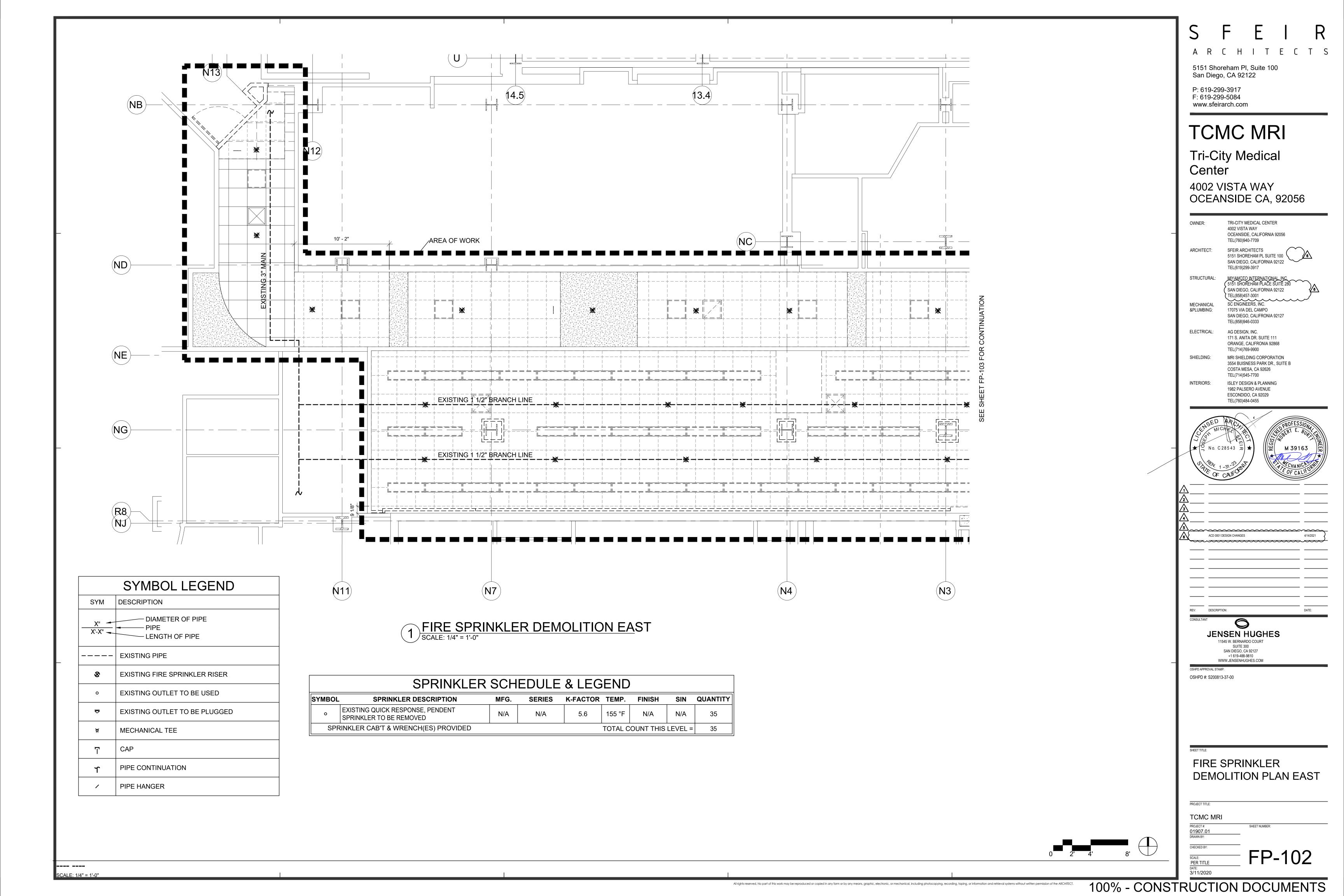
SCALE: PER TITLE

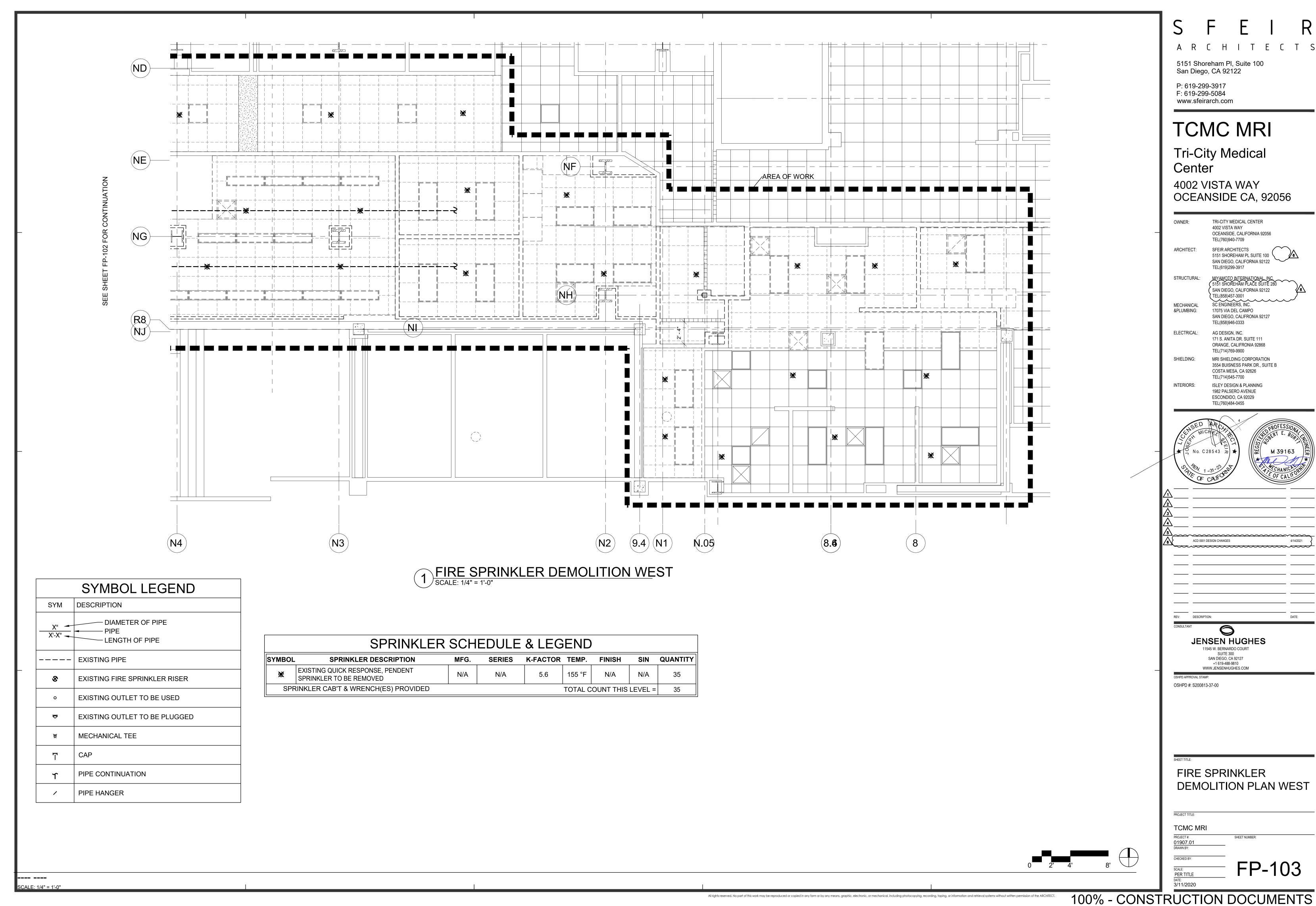
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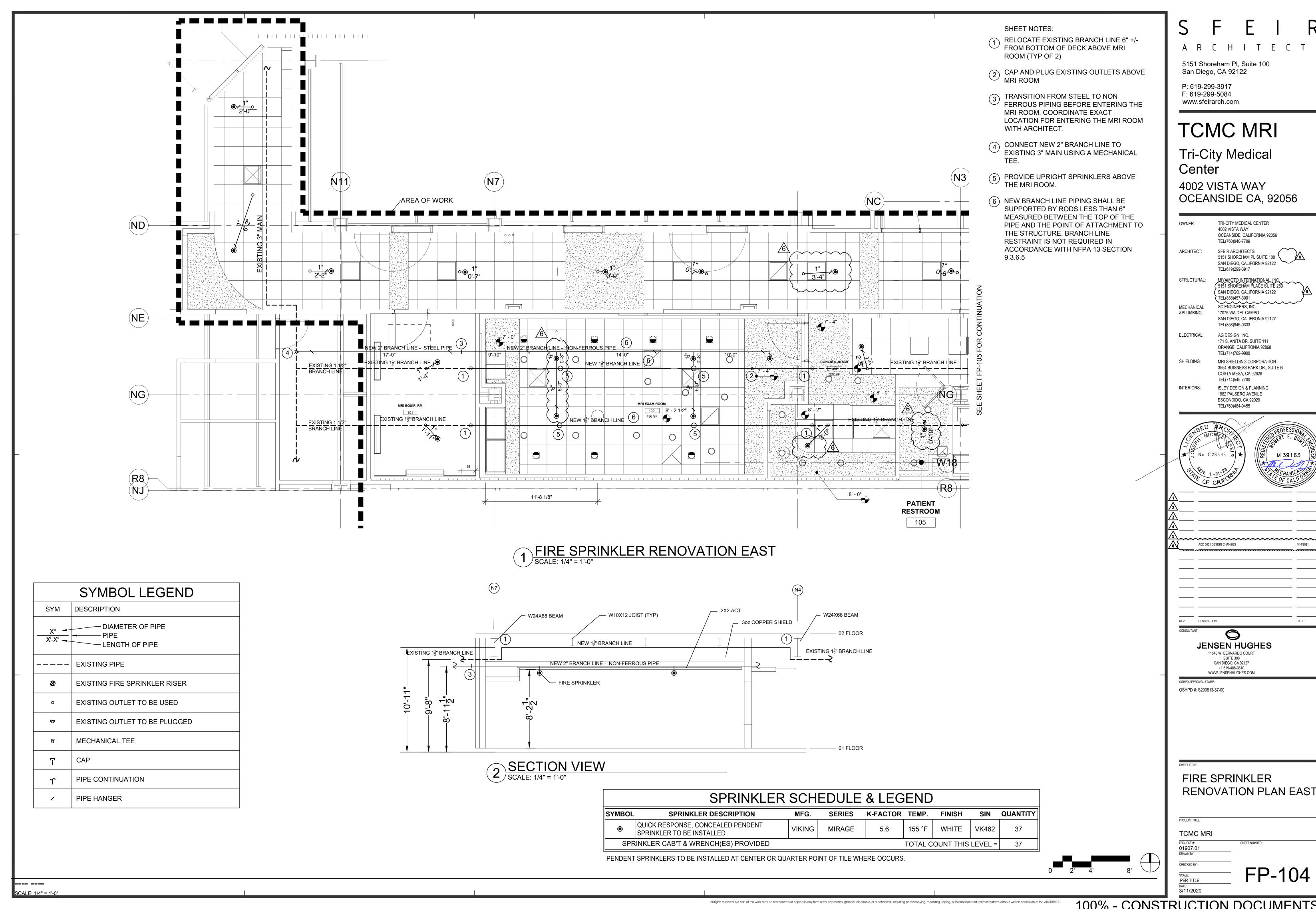
FP-101

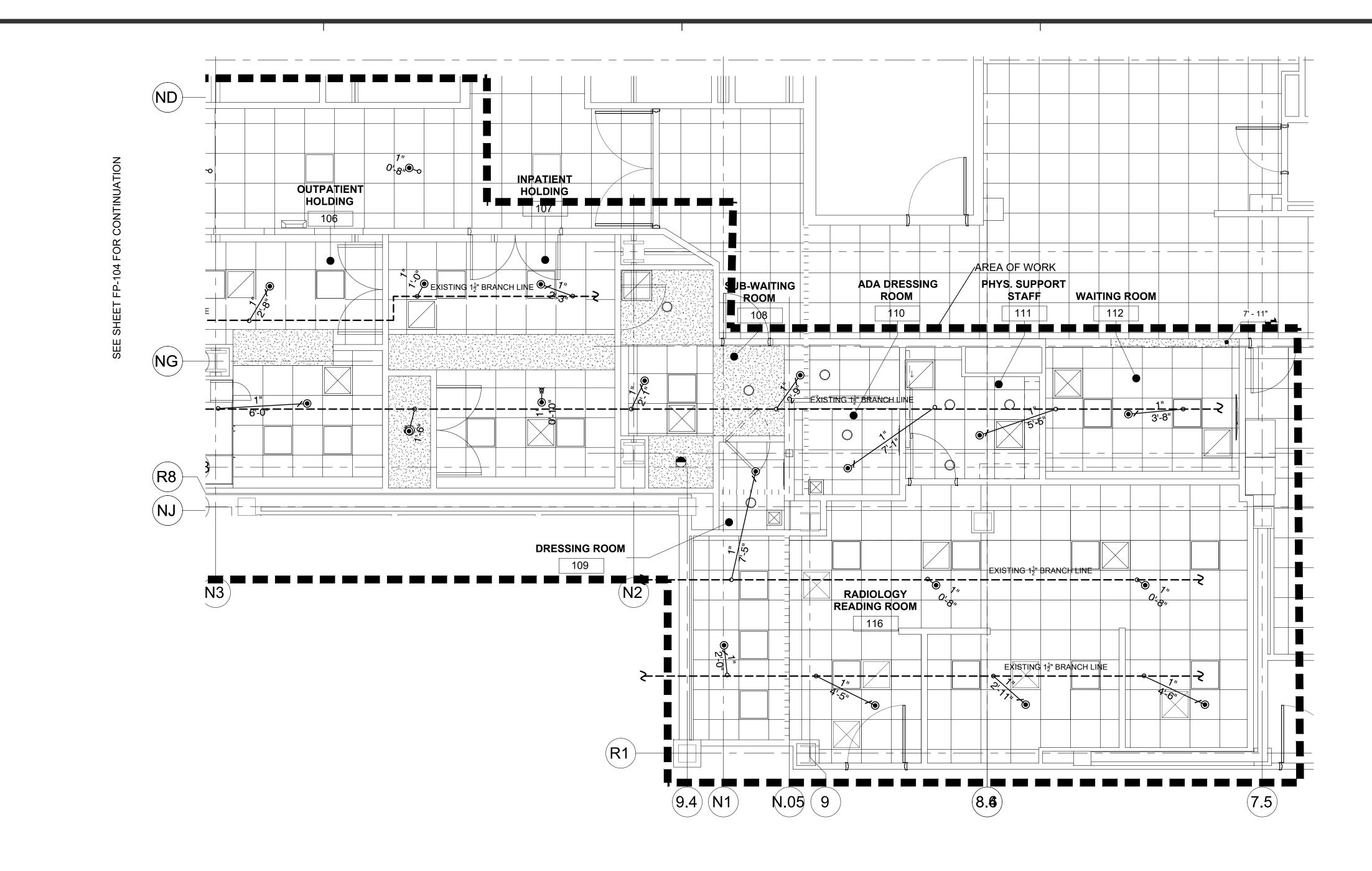
PER IIILE

DATE:
3/11/2020









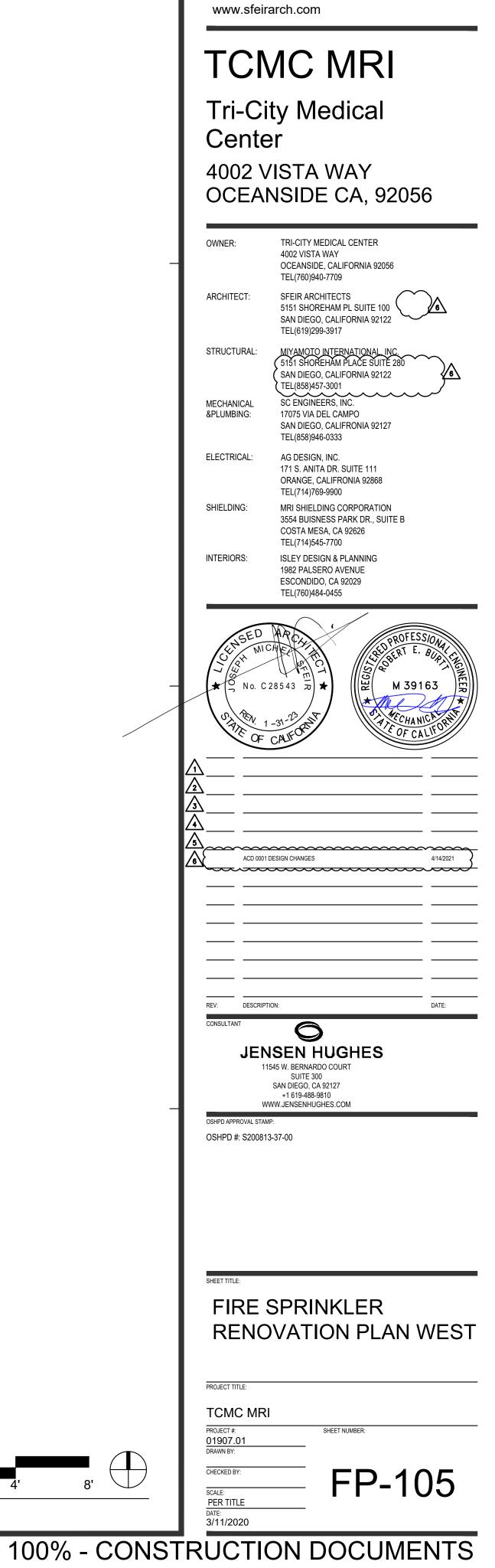
# 1 FIRE SPRINKLER DEMOLITION WEST SCALE: 1/4" = 1'-0"

	SYMBOL LEGEND
SYM	DESCRIPTION
X" ————————————————————————————————————	DIAMETER OF PIPE  PIPE  LENGTH OF PIPE
	EXISTING PIPE
8	EXISTING FIRE SPRINKLER RISER
0	EXISTING OUTLET TO BE USED
ত	EXISTING OUTLET TO BE PLUGGED
Ħ	MECHANICAL TEE
T	CAP
<b></b>	PIPE CONTINUATION
/	PIPE HANGER

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

SPRINKLER SCHEDULE & LEGEND								
SYMBOL	SPRINKLER DESCRIPTION	MFG.	SERIES	K-FACTOR	TEMP.	FINISH	SIN	QUANTITY
•	QUICK RESPONSE, CONCEALED PENDENT SPRINKLER TO BE INSTALLED	VIKING	MIRAGE	5.6	155 °F	WHITE	VK462	37
SPRINKLER CAB'T & WRENCH(ES) PROVIDED TOTAL COUNT THIS LEVEL =								37

PENDENT SPRINKLERS TO BE INSTALLED AT CENTER OR QUARTER POINT OF TILE WHERE OCCURS.



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