CAMERON APPRAISAL DISTRICT NEW BUILDING ADDITION AND RENOVATIONS

2021 AMISTAD DRIVE, SAN BENITO, TX 78586

GENERAL NOTES

- THE CONTRACT DOCUMENTS ARE COMPLIMENTARY, AND WHAT IS REQUIRED BY ONE, ARCHITECTURAL, STRUCTURAL, MECHANICAL, PLUMBING, OR ELECTRICAL DRAWINGS OR SPECIFICATIONS, ADDENDUM, BULLETIN, OR OTHER DOCUMENT, SHALL BE AS BINDING AS IF REQUIRED BY ALL. CONTRACTOR SHALL USE ONLY COMPLETE SETS OF CONTRACT DOCUMENTS FOR EACH AND EVERY ITEM OF WORK.
- CONTRACTOR AGREES THAT, IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, CONTRACTOR SHALL BE REQUIRED TO ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THE PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY THAT THIS REQUIREMENT SHALL BE MADE TO APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS. CONTRACTOR FURTHER AGREES TO DEFEND, INDEMNIFY, AND HOLD OWNER AND ARCHITECT HARMLESS FROM ANY AND ALL LIABILITY. REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK,
- 3. ALL WORK SHALL COMPLY WITH ALL APPLICABLE CODE, ORDINANCES, A.D.A., T.A.S., AND REGULATIONS OF ALL
- ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE APPLICABLE CODES, ORDINANCES AND STANDARD SPECIFICATIONS OF ALL AGENCIES THAT HAVE THE RESPONSIBILITY OF REVIEWING PLANS AND SPECIFICATIONS FOR CONSTRUCTION OF ALL ITEMS PER THESE PLANS AND SPECIFICATIONS IN THIS LOCALITY.
- 5. THE CONTRACTOR SHALL OBTAIN ALL THE NECESSARY PERMITS AS REQUIRED FOR CONSTRUCTION OF
- 6. WHEN ANY EXISTING UTILITY REQUIRES ADJUSTMENT OR RELOCATION, THE CONTRACTOR SHALL NOTIFY THE PROPER UTILITY AND COORDINATE HIS WORK ACCORDINGLY. THERE SHALL BE NO CLAIM MADE BY THE CONTRACTOR AND ANY COSTS CAUSED BY DELAYS IN CONSTRUCTION DUE TO THE ADJUSTMENT OR
- 7. THE OWNER AND ARCHITECT SHALL NOT BE HELD LIABLE FOR ANY CLAIMS RESULTING FROM ACCIDENTS OR DAMAGES CAUSED BY THE CONTRACTOR'S FAILURE TO COMPLY WITH TRAFFIC AND PUBLIC SAFETY REGULATIONS
- 8. THE CONTRACTOR SHALL CONFINE HIS ACTIVITIES TO THE PROJECT SITE UNDER DEVELOPMENT OR THE EXISTING RIGHT-OF-WAYS, CONSTRUCTION AND PERMANENT EASEMENTS, AND SHALL NOT TRESPASS UPON OTHER PRIVATE PROPERTY WITHOUT THE CONSENT OF THE OWNER OF THE OTHER PROPERTY.
- THE CONTRACTOR SHALL DISPOSE OF ALL SURPLUS EXCAVATION PROPERLY AND PROVIDE ALL SUITABLE FILL MATERIAL AS APPROVED BY THE SOILS ENGINEER, AND THE COST SHALL BE INCLUDED IN THE PRICE BID FOR THE RELATED ITEMS.
- 10. EROSION AND SEDIMENT CONTROL SHALL BE PROVIDED IN ACCORDANCE WITH LOCAL AND/OR STATE REQUIREMENTS. PROTECTIVE MEASURES SHALL BE TAKEN BY THE CONTRACTOR TO PROTECT ADJACENT PROPERTY AT ALL TIMES DURING CONSTRUCTION. PROTECTIVE MEASURES SHALL BE TAKEN BY THE CONTRACTOR SO AS NOT TO CAUSE ANY MUD, SILT, OR DEBRIS ONTO PUBLIC OR ADJACENT PROPERTY ANY MUD OR DEBRIS ON PUBLIC PROPERTY SHALL BE REMOVED IMMEDIATELY.
- 11. ALL WORK SHALL BE GUARANTEED BY THE CONTRACTOR TO BE FREE FROM DEFECTS IN WORKMANSHIP AND MATERIALS AND IN CONFORMANCE WITH THE APPROVED PLANS AND SPECIFICATIONS, AND THAT THE CONTRACTOR SHALL REPLACE OR REPAIR ANY WORK OR MATERIAL FOUND TO BE DEFECTIVE DURING CONSTRUCTION PERIOD AND IN WARRANTEE PERIOD. PURSUANT TO THE CONTRACT
- 12. CONTRACTOR SHALL VERIFY THAT THE PLANS AND SPECIFICATIONS THAT HE IS USING ARE THE VERY LATEST PLANS AND SPECIFICATIONS AND FURTHER SHALL VERIFY THAT THESE PLANS AND SPECIFICATIONS HAVE BEEN APPROVED BY ALL APPLICABLE PERMIT-ISSUING AGENCIES.
- 13. SHOULD THE CONTRACTOR ENCOUNTER CONFLICTS BETWEEN THESE PLANS AND SPECIFICATIONS, EITHER AMONG THEMSELVES OR WITH THE REQUIREMENTS OF ANY AND ALL REVIEWING AND PERMIT-ISSUING AGENCIES, HE SHALL SEEK CLARIFICATION IN WRITING FROM THE ARCHITECT BEFORE COMMENCEMENT OF ANY CONSTRUCTION. FAILURE TO DO SO SHALL BE AT SOLE EXPENSE TO THE CONTRACTOR.
- 14. THE CONTRACTOR IS REQUIRED TO TAKE DUE PRECAUTIONARY MEASURES TO PROTECT THE UTILITIES OR STRUCTURES AT THE SITE. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY THE OWNER OF UTILITIES OR STRUCTURES CONCERNED BEFORE STARTING WORK. THE CONTRACTOR SHALL NOTIFY THE PROPER UTILITY IMMEDIATELY UPON BREAK OR DAMAGE TO ANY UTILITY LINE OR APPURTENANCE, OR THE INTERRUPTION OF THEIR SERVICE. HE SHALL NOTIFY THE PROPER UTILITY INVOLVED, IF EXISTING UTILITY CONSTRUCTION CONFLICTS WITH REQUIREMENTS, THE CONTRACTOR SHALL NOTIFY THE ENGINEER SO THAT THE CONFLICT MAY BE RESOLVED.
- 15. INSTALL ALL MANUFACTURED ITEMS, MATERIALS, AND EQUIPMENT IN STRICT ACCORDANCE WITH MANUFACTURER'S WRITTEN INSTRUCTIONS, EXCEPT THAT THE SPECIFICATIONS, WHERE MORE STRINGENT, SHALL GOVERN.
- 16. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ALL TAPS, EXTENSIONS, WATER, AND ELECTRICITY FOR ALL PROJECT FUNCTIONS, OFFICE, STORAGE, ETC.
- 17. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING HIS OWN TELEPHONE, TOILET, VALVES, OR OTHER DEVICES NECESSARY TO RUN POWER TOOLS AND EQUIPMENT. SUCH MODIFICATIONS TO EXISTING UTILITIES SHALL BE REMOVED AT COMPLETION OF THE PROJECT.
- 18. THE GENERAL CONTRACTOR SHALL PROVIDE ONE COPY OF AS-BUILT DRAWINGS TO THE OWNER AT THE COMPLETION OF THE PROJECT. AS-BUILT DRAWINGS SHALL BE KEPT ON THE JOB AT ALL TIMES AND UPDATED THROUGHOUT THE CONSTRUCTION PHASE. AS-BUILT DRAWINGS ARE RECORD DRAWINGS OF CHANGES, DELETIONS, AND MODIFICATIONS DURING CONSTRUCTION. CONTRACTOR RESPONSIBLE FOR THESE RECORDS.
- 19. THE GENERAL CONTRACTOR SHALL PROVIDE STREET NUMBERING ON THE BUILDING IN COMPLIANCE WITH LOCAL AUTHORITY.
- 20. ALL PENETRATIONS THRU WALLS SHALL BE SEALED AIR/WATER TIGHT AND CAULKED WITH TWO PART SEALANT
- 21. UNLESS NOTED OTHERWISE. SITE PLAN DIMENSIONS ARE TO BACK OF CURB. FLOOR PLAN DIMENSIONS ARE TO FACE OF STUDS, FRAMING, MASONRY, CONCRETE WALL PANELS, OR FOUNDATION WALLS.
- 22. CONTRACTOR SHALL PROVIDE SHOP DRAWING SCHEDULE PRIOR TO START OF CONSTRUCTION AND SUBMIT SHOP DRAWINGS TO THE ARCHITECT IN A TIMELY MANNER THAT WILL ALLOW NOT LESS THAN TEN DAYS FOR REVIEW. THE GENERAL CONTRACTOR SHALL SUBMIT CORRECT NUMBER REQUIRED. BUT NOT LESS THAN FIVE COPIES. FOUR OF WHICH ARE DISTRIBUTED ONE EACH TO OWNER, ARCHITECT, DESIGN ARCHITECT, AND ENGINEER. CONTRACTOR TO ADD NUMBER REQUIRED FOR HIS SUPPLIER AND/OR SUBCONTRACTOR.
- 23. THE GENERAL CONTRACTOR IS REQUIRED TO NOTIFY THE ARCHITECT IN WRITING OF ANY DEVIATIONS INDICATED ON ANY SUBMITTAL, AND THE ARCHITECT GIVE WRITTEN APPROVAL OF THE SPECIFIC DEVIATION(S) IN A CHANGE ORDER OR OTHER DOCUMENTATION. WITHOUT BOTH THE WRITTEN NOTIFICATION AND DOCUMENTED APPROVAL OF THE CHANGE, CONTRACTOR IS REQUIRED (AT HIS EXPENSE) TO COMPLY WITH THE CONTRACT DOCUMENTS, EVEN WHEN THE ARCHITECT (OR ENGINEER) HAS REVIEWED THE SUBMITTAL WITHOUT COMMENTING ON THE DEVIATION.

BOARD OF DIRECTORS

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BUSINESS PERSONAL PROPERTY MANAGER

PROPERTY ID

MANAGER I.T./G.I.S. DEPARTMENT

MANAGER

JESUS MARTINEZ

ROBERT ROMERO

JOE L. OROZCO

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PLUMBING PLAN

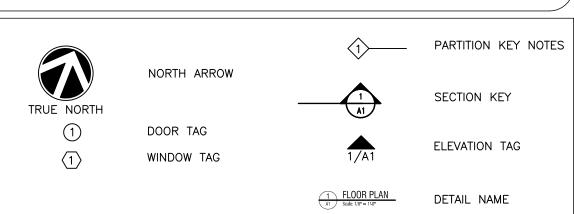
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CODE ANALYSIS

ALL WORK DONE UNDER THIS CONTRACT SHALL COMPLY WITH THE PROVISIONS OF THE SPECIFICATIONS, DRAWINGS AND SHALL SATISFY ALL APPLICABLE CODES, ORDINANCES, AND REGULATIONS OF ALL GOVERNING BODIES INVOLVED. ANY MODIFICATIONS TO THE CONTRACT WORK REQUIRED BY SUCH AUTHORITIES SHALL BE PERFORMED BY THE GENERAL CONTRACTOR. ALL PERMITS AND LICENSES NECESSARY FOR THE EXECUTION OF THE WORK SHALL BE SECURED AND PAID FOR BY THE GENERAL CONTRACTOR.

OWNER: CAMERON APPRAISAL DISTRICT PROJECT NAME: CAMERON APPRAISAL BUILDING ADDITION ADDRESS: 2021 AMISTAD DRIVE

BUILDING: IBC 2012 PLUMBING: IPC 2012 MECHANICAL: IMC 2012 ELECTRICAL; NEC 2011 ENERGY CODE: IECC 2009

CITY/STATE: SAN BENITO, TEXAS

ACCESSIBILITY: TAS 2012/ADA 2010/ IBC 2012 (CHAPTER 11) FIRE/LIFE SAFETY: IFC 2012

BUILDING INFORMATION: CONSTRUCTION TYPE: TYPE V-B MAXIMUM STORIES: 1 TOTAL SQ.FT. FOR EXISTING BUILDING: 15,504 SQFT

TOTAL SQ.FT. FOR BUILDING ADDITION: 2,093 SQFT FIRE PROTECTION SYSTEM: AUTOMATIC SPRINKLERS: BUILDING ADDITION - FULLY PROTECTED FIRE EXTINGUISHERS: BUILDING ADDITION - QTY: 2 FIRE DETECTION & ALARMS: PROTECTED

WINDSTORM CODE: TEXAS DEPARTMENT FOR INSURANCE BASIC WIND SPEED: 120 MPH

CAMERON APPRASIAL DISTRICT

BOARD OF DIRECTORS VICENTE MENDEZ CHAIRPERSON

VICE CHAIRPERSON DAV**I**D A. GARZA SECRETARY DAVID ARGABRIGHT MEMBER GLORIA CASAS **MEMBER** CESAR LOPEZ MEMBER J. RUBEN MONTEMAYOR RICARDO MORADO MEMBER **MEMBER** JESSE VILLARREAL MEMBER

TONY YZAGUIRRE, JR.

CONSTRUCTION SIGN 4' X 8' (CONTRACTOR TO USE CAMERON APPRAISAL LOGO)

K+ architect

Los Fresnos, TX 78566

Phone: (956) 233-2218

GENERAL CONTRACTOR

CAMERON APPRAISAL DISTRICT 2021 Amistad Drive San Benito, Texas 78586 Ph.(956) 399-9322 Contact: Richard Molina

DESIGN / PROJECT ARCHITECT

K+ ARCHITECT, INC 400 E 3rd Los Fresnos, Texas 78566 Ph.(956) 233-2218 Contact: Stanford Knowles

CIVIL ENGINEER

CASA ENGINEERING, LLO 1117 N. Stuart Place Rd., Ste Harlingen, Texas 78552 Ph.(956) 428-7900 Fax (956) 428-7903 Contact: David Day / JV Garcia

STRUCTURAL ENGINEER

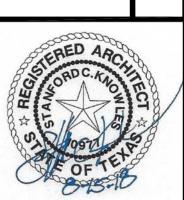
CASA ENGINEERING, LLO 1117 N. Stuart Place Rd., Ste E Harlingen, Texas 78552 Ph.(956) 428-7900 Fax (956) 428-7903 Contact: David Day

M.E.P. ENGINEER

ETHOS ENGINEERING 119 W. Van Buren, Suite 101 Harlingen, Texas 78550 SHEET NO. Ph.(956) 230-3435 Contact: Cesar Gonzalez

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ADDITION AND RENOVATION DRIVE, SAN BENITO, TEXAS 78586 AIS \sim AMEFUILDI 1 AMIST 2 B 2 W₂₀ ME



WARNING! THIS DOCUMENT HAS BEEN PRODUCED FROM MATERIAL THAT IS STORED MAY HAVE BEEN INADVERTENTLY ALTERED. RELY ONLY ON FINAL HARD COPY MATERIAL BEARING THE CONSULTANT'S ORIGINAL

SIGNATURE AND SEAL. REVISIONS

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GENERAL NOTES

- PRIOR TO BEGINNING CONSTRUCTION, THE OWNER OR HIS AUTHORIZED REPRESENTATIVE SHALL SCHEDULE A PRECONSTRUCTION CONFERENCE BETWEEN THE OWNER & THE CONSULTING ENGINEER, CONTRACTOR, AND ALL OTHER AFFECTED PARTIES.
- CONTRACTOR TO KEEP PUBLIC ROADS OPEN AT ALL TIMES, AREA USED FOR CONTRACTOR'S PERSONNEL PARKING, MATERIAL STORAGE, STOCKPILE, MATERIAL FABRICATION, AND RELATED CONSTRUCTION USES ARE NOT TO INTERFERE WITH NORMAL.
- CONTRACTOR TO GIVE NOTICE IN WRITING TO ALL AUTHORIZED INSPECTORS, SUPERINTENDENTS, OR PERSONS IN CHARGE OF PRIVATE AND PUBLIC UTILITIES AFFECTED BY HIS OPERATIONS PRIOR TO COMMENCEMENT OF WORK.
- CONTRACTOR TO ASSURE HIMSELF THAT ALL CONSTRUCTION PERMITS HAVE BEEN OBTAINED PRIOR TO COMMENCEMENT OF WORK, REQUIRED PERMITS THAT CAN BE ISSUED ONLY TO CONTRACTOR TO BE OBTAINED AT NO EXPENSE TO THE OWNER.
- UTILITY NOTE: THE LOCATIONS OF ALL EXISTING UTILITIES SHOWN ON THESE PLANS ARE BASED UPON RECORD INFORMATION ONLY, AND HAVE NOT BEEN INDEPENDENTLY VERIFIED BY THE OWNER OR THE ENGINEER. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION, HORIZONTAL AND VERTICAL OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK, AND AGREES TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE CAUSED BY THE CONTRACTOR'S FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES, EXISTING OR ABANDONED, NO ADDITIONAL COST TO
- THROUGHOUT THE CONSTRUCTION, AND AT THE COMPLETION OF CONSTRUCTION, THE CONTRACTOR IS TO ASSURE THAT DRAINAGE OF STORM WATER RUNOFF IS NOT BLOCKED, MAINTAIN DRAINAGE OF SITE DURING ALL PHASES OF CONSTRUCTION, DO NOT BLOCK DRAINAGE FROM ADJACENT AREAS NOR ADD FLOW TO ADJACENT AREAS.
- THE CONTRACTOR SHALL NOTIFY ALL UTILITY COMPANIES 48 HOURS PRIOR TO BEGINNING OF CONSTRUCTION IN A PARTICULAR AREA.
- DAMAGES DONE TO EXISTING UTILITIES, POWER POLES, FENCES, SIGNS, MAILBOXES, DRIVEWAYS, CULVERTS, PAVEMENT, DRAINAGE SYSTEMS, ETC., SHALL BE REPAIRED BY THE CONTRACTOR AT NO COST TO THE OWNER. DRIVEWAYS SHALL BE REPAIRED ON A LIKE FOR LIKE BASIS.
- THE CONTRACTOR SHALL HAVE A PERSON ON CALL 24 HOURS A DAY TO TAKE CARE OF MAINTENANCE ITEMS-CONSTRUCTION AREA, SIGNS ETC. THIS PERSON SHALL HAVE AUTHORITY TO ACT ON BEHALF OF THE CONTRACTOR IN EMERGENCY CONDITIONS. THE PERSON SHALL BE STATIONED CLOSE ENOUGH TO BE ON SITE WITHIN 1/2 HOUR OF NOTIFICATION. THE PERSON SHALL BE IDENTIFIED IN WRITING PRIOR TO THE START OF CONSTRUCTION. THE ON-SITE REPRESENTATIVE SHALL HAVE ACCESS TO ALL EQUIPMENT AND MATERIAL AND HAVE FULL AUTHORITY NECESSARY TO CORRECT ANY PROBLEMS. DEFICIENCIES, OR EMERGENCIES WHICH MAY ARISE. DURING NON-WORKING HOURS, AND DURING THE ABSENCE OF THE SUPERINTENDENT.
- EXCESS SPOIL PRODUCED DURING PREPARATION OF THE SUB-GRADE SHALL BE PLACED SPREAD AND COMPACTED ON-SITE IN AREAS AS INSTRUCTED BY THE ENGINEER TO ACHIEVE ADEQUATE GRADING, ANY UNUSABLE MATERIAL WILL BECOME THE PROPERTY OF THE CONTRACTOR TO BE PROPERLY DISPOSED OF AT HIS EXPENSE, NO SEPARATE PAY, THIS WORK SHALL BE SUBSIDIARY OTHER WORK.
- THE CONTRACTOR WILL PROVIDE HIS OWN CONSTRUCTION STAKING.
- CONTRACTOR TO MATCH EXISTING PAVEMENT, SIDEWALK RAMPS AND CURB & GUTTER PAVEMENT OR ANY OTHER IMPROVEMENTS WHERE APPLICABLE.
- ALL CONCRETE AND ASPHALT DRIVEWAYS ADJUSTED, DAMAGED, OR REPLACED DURING CONSTRUCTION MUST BE SAW-CUT AT A STRAIGHT, NEAT LINE, BEFORE
- ABANDONED LINES FOUND DURING CONSTRUCTION SHALL BE REMOVED, NO SEPARATE PAY, THIS WORK SHALL BE SUBSIDIARY OTHER WORK.
- THE CONTRACTOR SHALL PLACE BARRICADES, FLAG-MEN, ETC. ON THIS PROJECT IN COMPLIANCE WITH THE PROCEDURE DUTLINED IN THE "TEXAS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREET AND HIGHWAYS." (PART IV TRAFFIC CONTROLS FOR STREET AND HIGHWAY CONSTRUCTION AND MAINTENANCE OPERATIONS, LATEST REVISION). UPON COMPLETION OF THE WORK, ALL SIGNS SHALL BE REMOVED BY THE CONTRACTOR.
- REFERENCE POINTS: THE OWNER WILL ESTABLISH HORIZONTAL AND VERTICAL CONTROLS ONLY (REFERENCE POINTS AND BENCHMARKS AS SHOWN ON THE CONSTRUCTION PLANS.) THE CONTRACTOR MUST NOTIFY THE ENGINEER AT LEAST 48 HOURS PRIOR TO STARTING WORK ON ANY SECTION OR PART OF THE WORK WHERE CONTROLS HAVE NOT BEEN ESTABLISHED OR ARE NOT IDENTIFIABLE OR VISIBLE TO THE CONTRACTOR. THE ENGINEER WILL UPON SUCH ADVANCE NOTICE WILL REPLACE ANY CONTROLS POINTS THAT HAVE BEEN DESTROYED BY OTHERS PRIOR TO BEGINNING OF CONTRACTORS OPERATIONS. AFTER CONTROL POINTS ARE ESTABLISHED AND / OR IDENTIFIED AS OUTLINED ABOVE, MAINTENANCE OF SUCH CONTROL POINTS SHALL BE RESPONSIBILITY OF THE CONTRACTOR. ANY RE-STAKING REQUIRED FOR ANY REASON THEREAFTER SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR WILL PROVIDE ALL OTHER CONSTRUCTION STAKING (CUT STAKES, BLUE TOPPING, INTERMEDIATE STRING LINE CONTROL, ETC.) REQUIRED TO VERIFY GRADES, DEPTHS THICKNESSES, AND ALIGNMENT OF THE VARIOUS ITEMS OF CONSTRUCTION.
- AS BUILT DRAWINGS: THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING A SET OF AS-BUILT PLANS SHOWING NOTES TO ANY CHANGES TO THE DESIGN PLANS. THIS INFORMATION, SIGNED BY ALL INSPECTORS, WILL BE SUBMITTED TO THE ENGINEER AT THE END OF CONSTRUCTION. THE PROJECT'S FINAL ACCEPTANCE AND FINAL PAYMENT WILL NOT BE APPROVED UNTIL THE CONTRACTOR HAS SUBMITTED THE REQUIRED INFORMATION NEEDED BY THE ENGINEER FOR AS-BUILT DRAWINGS.
- CONCRETE CURB AND GUTTER, PIPE STRUCTURES, ETC. WHICH MUST BE REMOVED IN ORDER TO CONSTRUCT THE PROPOSED IMPROVEMENTS WILL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE REMOVED AND PROPERLY DISPOSED OF AT HIS EXPENSE. THIS WORK SHALL BE CONSIDERED SUBSIDIARY TO THE VARIOUS BID ITEMS IN THE CONTRACT.
- EXISTING UTILITIES: THE INFORMATION SHOWN CONCERNING TYPE AND LOCATIONS OF UNDERGROUND AND OVERHEAD UTILITIES IS NOT GUARANTEED TO BE ACCURATE OR ALL INCLUSIVE, CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFICATION OF EXISTING UTILITIES, THE CONTRACTORS INFORMATION SHALL BE CONDUCTED TO PREVENT UNNECESSARY INTERFERENCE WITH ANY EXISTING UTILITY SYSTEM, IF THE CONTRACTOR'S WORK REQUIRES INTERRUPTION, THE CONTRACTOR MUST COORDINATE WITH UTILITY COMPANIES EFFECTED 48 HOURS IN ADVANCE.
- MATERIALS CERTIFICATION AND TESTING: CONTRACTOR SHALL PROVIDE SUPPLIERS CERTIFICATION FOR ALL PROJECT MATERIALS CONCRETE, LIME, CALICHE BASE MATERIAL, PRE-CAST INLETS, PIPES, ETC. THAT SUCH MATERIALS DO MEET PROJECT SPECIFICATIONS PRIOR TO DELIVERY ON-SITE. CONTRACTOR SHALL PROVIDE HOT MIX ASPHALTIC CONCRETE DESIGN FROM A REPUTABLE COMMERCIAL TESTING LABORATORY.

- STANDARD WORK HOURS: THE STANDARD WORK HOURS FOR THE OWNER IS 8:00 AM TO 5:00 PM, MONDAY THROUGH FRIDAY. SHOULD THE CONTRACTOR ELECT TO WORK ON SATURDAY, SUNDAYS OR HOLIDAYS, HE SHALL BE RESPONSIBLE FOR PAYING OVERTIME CHARGES FOR THE OWNERS PERSONNEL INVOLVED. THESE CHARGES WILL BE AT COST AND WILL BE CALCULATED EITHER AT TIME AND A HALF OR DOUBLE TIME, AS APPLICABLE TO THE PARTICULAR DAY BEING WORKED. PRE-APPROVAL SHALL BE OBTAINED FROM THE ENGINEER OR ENGINEER'S REPRESENTATIVE BY COMPLETING AND SIGNING AN OWNER'S FORM ENTITLED "CONSTRUCTION INSPECTORS OVERTIME COMPENSATION AUTHORIZATION", 48 HRS. PRIOR TO COMMENCING ANY OVERTIME WORK.
- ANY WORK DONE DUTSIDE THE STANDARD WORKDAY, WITHOUT PRIDR AUTHORIZATION, SHALL BE CONSIDERED UNDER UNAUTHORIZED WORK. THE CONTRACTOR IS REQUIRED TO PAY THE OVERTIME WAGES OF THE OWNER INSPECTORS THAT WORK OVERTIME MONDAYS THROUGH FRIDAYS AT TIME IN A HALF. THE CONTRACTOR IS RESPONSIBLE FOR THE OVERTIME WAGES OF THE OWNER INSPECTORS THAT WORK HOLIDAYS AT DOUBLE TIME. MINIMUM HOURS WILL BE BILLED TO CONTRACTOR FOR CALL OUTS OR FOR INSUFFICIENT NOTICE OF TWO (2) HOURS.

CONCRETE MIX DESIGN

- CLARIFICATION: ALL CONCRETE USED ON THIS PROJECT SHALL CONTAIN A MINIMUM 4.5 SACKS OF CEMENTITIOUS MATERIAL PER CUBIC YARD OF CONCRETE, THE CEMENTITIOUS MATERIAL SHALL BE PORTLAND CEMENT OR A BLEND OF PORTLAND CEMENT AND FLY ASH, THE PERCENTAGE OF FLY ASH IN THE CEMENTITIOUS MATERIAL SHALL NOT EXCEED 23%, ALL CONCRETE WORK SHALL CONTAIN 1.5 POUNDS OF FIBER MESH PER CUBIC YARD,
- ALL EXPOSED CONCRETE SURFACES SHALL BE TREATED WITH CURING COMPOUND RESIN BASE ASTM C 309 TYPE 2 WITH PIGMENTED TINT OF FUGITIVE DYE.
- IN ADDITION TO THE ABOVE REQUIREMENTS, ALL CONCRETE SHALL TEST TO A MINIMUM 4000 PSI COMPRESSIVE STRENGTH AT 28 DAYS, (OR AS SHOWN ON PLANS).
- EXPANSION JOINTS WILL BE PLACED AT CURB RETURNS, INLETS AND AT THE END OF EACH POUR WITH INTERVALS NOT TO EXCEED 60 FT. JOINTS SHALL CONSIST OF 1/2" PRE-MOLDED EXPANSION JOINT MATERIAL WITH 3, 36" X 1/2" DOWELS, ONE END GREASED AND WRAPPED. CARE MUST BE TAKEN THAT DOWELS ARE STRAIGHT AND LAID PARALLEL WITH CURB AND NO CONCRETE PLUGS OR OTHER MATERIAL BE ALLOWED THROUGH THE DOWEL HOLES OR EXPANSION MATERIAL WHICH WOULD PREVENT THE JOINT FROM OPERATION AS AN EXPANSION JOINT. EXPANSION JOINT MATERIALS SHALL BE PRE-MOLDED ASPHALT IMPREGNATED EXPANSION JOINT MATERIAL CONFORMING WITH ASTM D 994 (NOT WOOD FIBER TYPE)
- DUMMY JOINTS (SAW CUT JOINTS) SHALL BE 2" DEEP AND PLACED AT MAXIMUM 15 FT. INTERVALS.
- WHEN CONNECTING TO EXISTING CURB AND GUTTER, THE CONTRACTOR SHALL DRILL AND DOWEL TWO, #5 X 16" TIE BARS A MINIMUM OF 6" DEEP INTO EXISTING CURB AND GUTTER SECTION.

REMOVING EXISTING PAVEMENTS AND STRUCTURES

- PROTECT FOLLOWING FROM DAMAGE OR DISPLACEMENT
 1. ADJACENT PUBLIC AND PRIVATE PROPERTY.
- 2. TREES, PLANTS, AND OTHER LANDSCAPE FEATURES DESIGNATED TO REMAIN.
 3. UTILITIES DESIGNATED TO REMAIN.
- 4. PAVEMENT AND UTILITY STRUCTURES DESIGNATED TO REMAIN.
- 4. PAVEMENT AND UTILITY STRUCTURES DESIGNATED TO REMAIN.
 5. BENCH MARKS, MONUMENTS, AND EXISTING STRUCTURES DESIGNATED TO
- REMAIN.

 WHEN REQUIRED, PROVIDE RESPIRATORY PROTECTION IN ACCORDANCE WITH OSHA 29 CFR 1910.134 RESPIRATORY PROTECTION, AND NATIONAL INSTITUTE OF OCCUPATIONAL SAFETY AND HEALTH (NIOSH).
- REMOVE PAVEMENTS AND STRUCTURES BY METHODS THAT WILL NOT DAMAGE UNDERGROUND UTILITIES. DO NOT USE DROP HAMMER NEAR EXISTING UNDERGROUND UTILITIES.
- MINIMIZE AMOUNT OF EARTH LOADED DURING REMOVAL OPERATIONS.
- WHERE EXISTING PAVEMENT IS TO REMAIN, MAKE STRAIGHT SAW CUTS IN EXISTING PAVEMENT TO PROVIDE CLEAN BREAKS PRIOR TO REMOVAL. DO NOT BREAK CONCRETE PAVEMENT OR BASE WITH DROP HAMMER UNLESS CONCRETE OR BASE HAS BEEN SAW CUT TO MINIMUM DEPTH OF 2 INCHES.
- REMOVE SIDEWALKS AND CURBS TO NEAREST EXISTING DUMMY, EXPANSION, OR CONSTRUCTION JOINT.
- INSTALL AND MAINTAIN TRENCH SAFETY SYSTEMS IN ACCORDANCE WITH THE DETAIL SPECIFICATIONS SET OUT IN THE PROVISION OF EXCAVATIONS, TRENCHING, AND SHORING, FEDERAL OCCUPATION SAFETY AND HEALTH ADMINISTRATION (OSHA) STANDARDS, 29CFR, PART 1926, SUBPART P, AS AMENDED, INCLUDING FINAL RULE, PUBLISHED IN THE FEDERAL REGISTER VOL. 54, NO. 209 ON TUESDAY, OCTOBER 31, 1989.
- CONTRACTOR, OR CONTRACTOR'S INDEPENDENTLY RETAINED CONSULTANT, SHALL MAKE DAILY INSPECTIONS OF THE TRENCH SAFETY SYSTEMS TO ENSURE THAT THE INSTALLED SYSTEMS AND OPERATIONS MEET OSHA 29CFR AND OTHER PERSONNEL PROTECTION REGULATIONS REQUIREMENTS.
- IF EVIDENCE OF POSSIBLE CAVE-INS OR SLIDES IS APPARENT, CONTRACTOR SHALL IMMEDIATELY STOP WORK IN THE TRENCH AND MOVE PERSONNEL TO SAFE LOCATIONS UNTIL THE NECESSARY PRECAUTIONS HAVE BEEN TAKEN BY CONTRACTOR TO SAFEGUARD PERSONNEL ENTERING THE TRENCH.
- MAINTAIN A PERMANENT RECORD OF DAILY INSPECTIONS.
- CONTRACTOR SHALL VERIFY SPECIFIC APPLICABILITY OF THE SELECTED OR SPECIALLY DESIGNED TRENCH SAFETY SYSTEMS TO EACH FIELD CONDITION ENCOUNTERED ON THE PROJECT.
- USE EQUIPMENT WHICH WILL PRODUCE DEGREE OF COMPACTION SPECIFIED.

 COMPACT BACKFILL WITHIN 3 FEET OF WALLS WITH HAND OPERATED EQUIPMENT.

 DO NOT USE EQUIPMENT WEIGHING MORE THAN 10,000 POUNDS CLOSER TO WALLS

 THAN A HORIZONTAL DISTANCE EQUAL TO DEPTH OF FILL AT THAT TIME. USE

 HAND OPERATED POWER COMPACTION EQUIPMENT WHERE USE OF HEAVIER

 EQUIPMENT IS IMPRACTICAL OR RESTRICTED DUE TO WEIGHT LIMITATIONS.
- CONDUCT AN INSPECTION TO DETERMINE CONDITION OF EXISTING STRUCTURES AND OTHER PERMANENT INSTALLATIONS.
- SET UP NECESSARY STREET DETOURS AND BARRICADES IN PREPARATION FOR EXCAVATION IF CONSTRUCTION WILL AFFECT TRAFFIC.
- MAINTAIN BARRICADES AND WARNING DEVICES AT ALL TIMES FOR STREETS AND INTERSECTIONS WHERE WORK IS IN PROGRESS, OR WHERE CONSTRUCTION WORK IS CONSIDERED HAZARDOUS TO TRAFFIC MOVEMENTS.
- INSTALL AND OPERATE NECESSARY DEWATERING AND SURFACE WATER CONTROL MEASURES.

- PROTECT TREES, SHRUBS, LAWNS, EXISTING STRUCTURES, AND OTHER PERMANENT OBJECTS OUTSIDE OF GRADING LIMITS AND WITHIN GRADING LIMITS AS DESIGNATED ON DRAWINGS.
- PROTECT AND SUPPORT ABOVE-GRADE AND BELOW-GRADE UTILITIES WHICH ARE TO REMAIN.
- RESTORE DAMAGED PERMANENT FACILITIES TO PRE-CONSTRUCTION CONDITIONS UNLESS REPLACEMENT OR ABANDONMENT OF FACILITIES IS INDICATED ON DRAWINGS.
- PREVENT EROSION OF EXCAVATIONS AND BACKFILL. DO NOT ALLOW WATER TO POND IN EXCAVATIONS.
- MAINTAIN EXCAVATION AND BACKFILL AREAS UNTIL START OF SUBSEQUENT WORK. REPAIR AND RECOMPACT SLIDES, WASHOUTS, SETTLEMENTS, OR AREAS WITH LOSS OF DENSITY AT NO ADDITIONAL COST TO OWNER.
- PERFORM EXCAVATION WORK SO THAT UNDERGROUND STRUCTURE CAN BE INSTALLED TO DEPTHS AND ALIGNMENTS SHOWN ON DRAWINGS. USE CAUTION DURING EXCAVATION WORK TO AVOID DISTURBING SURROUNDING GROUND AND EXISTING FACILITIES AND IMPROVEMENTS. KEEP EXCAVATION TO ABSOLUTE MINIMUM NECESSARY. NO ADDITIONAL PAYMENT WILL BE MADE FOR EXCESS EXCAVATION NOT AUTHORIZED BY ENGINEER.
- UPON DISCOVERY OF UNKNOWN UTILITIES, BADLY DETERIORATED UTILITIES NOT DESIGNATED FOR REMOVAL, OR CONCEALED CONDITIONS, DISCONTINUE WORK AT THAT LOCATION, NOTIFY ENGINEER AND OBTAIN INSTRUCTIONS BEFORE PROCEEDING IN SUCH AREAS.
- AVDID SETTLEMENT OF SURROUNDING SOIL DUE TO EQUIPMENT OPERATIONS, EXCAVATION PROCEDURES, VIBRATION, DEWATERING, OR OTHER CONSTRUCTION METHODS.
- PROVIDE SURFACE DRAINAGE DURING CONSTRUCTION TO PROTECT WORK AND TO AVOID NUISANCE TO ADJOINING PROPERTY. WHERE REQUIRED, PROVIDE PROPER DEWATERING AND PIEZOMETRIC PRESSURE CONTROL DURING CONSTRUCTION.
- CONDUCT HAULING OPERATIONS SO THAT TRUCKS AND OTHER VEHICLES DO NOT CREATE DIRT NUISANCE IN STREETS. VERIFY THAT TRUCK BEDS ARE SUFFICIENTLY TIGHT AND LOADED IN SUCH A MANNER SUCH THAT OBJECTIONABLE MATERIALS WILL NOT SPILL ONTO STREETS. PROMPTLY CLEAR AWAY ANY DIRT, MUD, OR OTHER MATERIALS THAT SPILL ONTO STREETS OR ARE DEPOSITED ONTO STREETS BY VEHICLE TIRES.
- MAINTAIN PERMANENT BENCHMARKS, MONUMENTATION, AND OTHER REFERENCE POINTS. UNLESS OTHERWISE DIRECTED, REPLACE THOSE WHICH ARE DAMAGED OR DESTROYED BY WORK.
- PROVIDE SHEETING, SHORING, AND BRACING WHERE REQUIRED TO SAFELY COMPLETE WORK, TO PREVENT EXCAVATION FROM EXTENDING BEYOND LIMITS INDICATED ON DRAWINGS, AND TO PROTECT WORK AND ADJACENT STRUCTURES OR IMPROVEMENTS. USE SHEETING, SHORING, AND BRACING TO PROTECT WORKMEN AND PUBLIC.
- PREVENT VOIDS FROM FORMING OUTSIDE OF SHEETING. IMMEDIATELY FILL VOIDS WITH GROUT, CEMENT STABILIZED SAND, OR OTHER MATERIAL APPROVED BY ENGINEER AND COMPACT TO 95 PERCENT STANDARD DENSITY.
- AFTER COMPLETION OF STRUCTURE, REMOVE SHEETING, SHORING, AND BRACING UNLESS SHOWN ON DRAWINGS TO REMAIN IN PLACE OR DIRECTED BY PROJECT MANAGER IN WRITING THAT SUCH TEMPORARY STRUCTURES MAY REMAIN. REMOVE SHEETING, SHORING AND BRACING IN SUCH A MANNER AS TO MAINTAIN SAFETY DURING BACKFILLING OPERATIONS AND TO PREVENT DAMAGE TO WORK AND ADJACENT STRUCTURES OR IMPROVEMENTS.
- IMMEDIATELY FILL AND COMPACT VOIDS LEFT OR CAUSED BY REMOVAL OF SHEETING WITH CEMENT STABILIZED SAND OR OTHER MATERIAL APPROVED BY ENGINEER AND COMPACT TO 95 PERCENT STANDARD DENSITY.
- CLASSIFY EXCAVATED MATERIALS. PLACE MATERIAL WHICH IS SUITABLE FOR USE AS BACKFILL IN ORDERLY PILES AT SUFFICIENT DISTANCE FROM EXCAVATION TO PREVENT SLIDES OR CAVE-INS.
- COMPLETE BACKFILL TO SURFACE OF NATURAL GROUND OR TO LINES AND GRADES SHOWN ON DRAWINGS. REMOVE FORMS, LUMBER, TRASH AND DEBRIS FROM STRUCTURES. DEPOSIT BACKFILL IN UNIFORM LAYERS AND COMPACT EACH LAYER AS SPECIFIED.
- UNLESS OTHERWISE SHOWN ON DRAWINGS, FOR STRUCTURES UNDER PAVEMENT OR WITHIN ONE FOOT BACK OF CURB, USE CEMENT STABILIZED SAND UP TO THE TOP OF THE PROPOSED STRUCTURE, USE SUITABLE ON-SITE MATERIAL (RANDOM BACKFILL) UP TO 12 INCHES BELOW PAVEMENT BASE OR SUBGRADE, PLACE MINIMUM OF 12 INCHES OF SELECT BACKFILL BELOW PAVEMENT BASE OR SUBGRADE.
- UNLESS OTHERWISE SHOWN ON DRAWINGS, FOR STRUCTURES NOT UNDER PAVEMENT, USE RANDOM BACKFILL OF SUITABLE MATERIAL UP TO THE SURFACE.
- UNLESS OTHERWISE SHOWN ON DRAWINGS, FOR STRUCTURES NOT UNDER PAVEMENT, USE RANDOM BACKFILL OF SUITABLE MATERIAL UP TO THE SURFACE.
- REMOVE CONCRETE FORMS BEFORE STARTING BACKFILL AND REMOVE SHORING AND BRACING AS WORK PROGRESSES.
- MAINTAIN BACKFILL MATERIAL AT NO LESS THAN 2 PERCENT BELOW NOR MORE THAN 2 PERCENT ABOVE OPTIMUM MOISTURE CONTENT, UNLESS OTHERWISE APPROVED BY PROJECT MANAGER. PLACE FILL MATERIAL IN UNIFORM 8-INCH MAXIMUM LOOSE LAYERS. COMPACT FILL TO AT LEAST 95 PERCENT OF MAXIMUM STANDARD PROCTOR DENSITY ACCORDING TO ASTM D 698 BELOW PAVED AREAS. COMPACT FILL TO AT LEAST 90 PERCENT AROUND STRUCTURES BELOW UNPAVED AREAS.
- WHERE BACKFILL IS PLACED AGAINST SLOPED EXCAVATION SURFACE, RUN COMPACTION EQUIPMENT ACROSS BOUNDARY OF CUT SLOPE AND BACKFILL TO FORM COMPACTED SLOPE SURFACE FOR PLACEMENT OF NEXT LAYER OF BACKFILL.
- PLACE BACKFILL USING CEMENT STABILIZED SAND OR FLOWABLE FILL.
- TESTS WILL BE PERFORMED INITIALLY ON MINIMUM OF ONE DIFFERENT SAMPLE OF EACH MATERIAL TYPE FOR PLASTICITY CHARACTERISTICS, IN ACCORDANCE WITH ASTM D 4318, AND FOR GRADATION CHARACTERISTICS, IN ACCORDANCE WITH TEX-101-E AND TEX-110-E. ADDITIONAL CLASSIFICATION TESTS WILL BE PERFORMED WHENEVER THERE IS NOTICEABLE CHANGE IN MATERIAL GRADATION OR PLASTICITY.
- IN-PLACE DENSITY TESTS OF COMPACTED SUBGRADE AND BACKFILL WILL BE PERFORMED ACCORDING TO ASTM D 1556, OR ASTM D 2922 AND ASTM D 3017, AND AT FOLLOWING FREQUENCIES AND CONDITIONS:

- 1. MINIMUM OF ONE TEST FOR EVERY 50 TO 100 CUBIC YARDS OF COMPACTED BACKFILL MATERIAL AS DIRECTED BY ENGINEER.
- 2. A MINIMUM OF THREE DENSITY TESTS FOR EACH FULL WORK SHIFT
- 3. DENSITY TESTS WILL BE PERFORMED IN ALL PLACEMENT AREAS.
 4. NUMBER OF TESTS WILL BE INCREASED WHEN INSPECTION DETERMINES THAT SOIL TYPES OR MOISTURE CONTENTS ARE NOT UNIFORM OR WHEN COMPACTING EFFORT IS VARIABLE AND NOT CONSIDERED SUFFICIENT TO ATTAIN UNIFORM
- 5. IDENTIFY ELEVATION OF TEST WITH RESPECT TO NATURAL GROUND.
 6. RECORD APPROXIMATE DEPTH OF LIFT TESTED.
- AT LEAST ONE TEST FOR MOISTURE-DENSITY RELATIONSHIPS WILL BE INITIALLY PERFORMED FOR EACH TYPE OF BACKFILL MATERIAL IN ACCORDANCE WITH ASTM D 698, PERFORM ADDITIONAL MOISTURE-DENSITY RELATIONSHIP TEST ONCE A MONTH OR WHENEVER THERE IS NOTICEABLE CHANGE IN MATERIAL GRADATION OR PLASTICITY.
- WHEN TESTS INDICATE WORK DOES NOT MEET SPECIFIED COMPACTION REQUIREMENTS, RECONDITION, RECOMPACT, AND RETEST AT CONTRACTOR'S EXPENSE.
- UNSUITABLE MATERIAL: UNSUITABLE SOIL MATERIALS ARE THE FOLLOWING:

 1. MATERIALS THAT ARE CLASSIFIED AS ML, CL-ML, MH, PT, DH, AND DL
- ACCORDING TO ASTM D 2487.

 2. MATERIALS THAT CANNOT BE COMPACTED TO REQUIRED DENSITY DUE TO GRADATION, PLASTICITY, OR MOISTURE CONTENT.
- 3. MATERIALS THAT CONTAIN LARGE CLODS, AGGREGATES, STONES GREATER THAN 4 INCHES IN ANY DIMENSION, DEBRIS, VEGETATION, WASTE OR ANY OTHER DELETERIOUS MATERIALS.
- 4. MATERIALS THAT ARE CONTAMINATED WITH HYDROCARBONS OR OTHER CHEMICAL CONTAMINANTS.
- EXCAVATION DRAINAGE: REMOVAL OF SURFACE AND SEEPAGE WATER IN TRENCH BY SUMP PUMPING AND USING DRAINAGE LAYER, AS DEFINED IN ASTM D 2321, PLACED ON FOUNDATION BENEATH PIPE BEDDING OR THICKENED BEDDING LAYER OF CLASS I MATERIAL.
- TRENCH CONDITIONS ARE DEFINED WITH REGARD TO STABILITY OF TRENCH BOTTOM AND TRENCH WALLS OF PIPE EMBEDMENT ZONE, MAINTAIN TRENCH CONDITIONS THAT PROVIDE FOR EFFECTIVE PLACEMENT AND COMPACTION OF EMBEDMENT MATERIAL DIRECTLY ON OR AGAINST UNDISTURBED SOILS OR FOUNDATION BACKFILL, EXCEPT WHERE STRUCTURAL TRENCH SUPPORT IS NECESSARY.
- USE PVC COMPOUNDS IN MANUFACTURE OF PIPE THAT CONTAIN NO INGREDIENT IN AMOUNT THAT HAS BEEN DEMONSTRATED TO MIGRATE INTO WATER IN QUANTITIES CONSIDERED TO BE TOXIC.

SEED MAINTENANCE

- MAINTAIN GRASSED AREAS MINIMUM OF 90 DAYS, OR AS REQUIRED TO ESTABLISH AN ACCEPTABLE LAWN. FOR AREAS SEEDED IN FALL, CONTINUE MAINTENANCE FOLLOWING SPRING UNTIL ACCEPTABLE LAWN IS ESTABLISHED.
- MAINTAIN GRASSED AREAS BY WATERING, FERTILIZING, WEEDING, AND TRIMMING.
- REPAIR AREAS DAMAGED BY EROSION BY REGRADING, ROLLING AND REPLANTING.
- RESEED SMALL, SPARSE GRASS AREAS. WHEN SPARSE AREAS EXCEED 20 PERCENT OF PLANTED AREA, RESEED BY SPECIFICATION PROVIDED BY THE PROJECT MANAGER.
- MDW GRASS WHEN HEIGHT REACHES 3 1/2 INCHES OR GREATER ON AVERAGE BEFORE FINAL ACCEPTANCE, MOW TO HEIGHT OF 2 1/2 INCHES,
- RESTORATION OF EXISTING LAWN AREAS DISTURBED BY CONSTRUCTION SHALL BE BY INSTALLATION OF NEW SOD.
- SOD ONLY WHEN WEATHER AND SOIL CONDITIONS ARE DEEMED BY ENGINEER TO BE SUITABLE FOR PROPER PLACEMENT.
- WATER AND FERTILIZE NEW SOD.
- BEGIN MAINTENANCE IMMEDIATELY AFTER EACH SECTION OF GRASS SOD IS INSTALLED AND CONTINUE FOR 30 DAY PERIOD FROM DATE OF SUBSTANTIAL COMPLETION.
- RESOD UNACCEPTABLE AREAS.
- POTABLE, WILL BE AVAILABLE ON-SITE THROUGH CONTRACTOR'S WATER TRUCKS
- VERIFY THAT SOIL PLACEMENT AND COMPACTION HAVE BEEN SATISFACTORILY COMPLETED. VERIFY THAT SOIL IS WITHIN ALLOWABLE RANGE OF MOISTURE CONTENT.
- TOP SOIL SHALL BE FREE OF WEEDS AND FOREIGN MATERIAL IMMEDIATELY BEFORE SODDING.
- DO NOT START WORK UNTIL CONDITIONS ARE SATISFACTORY. DO NOT START WORK DURING INCLEMENT OR IMPENDING INCLEMENT WEATHER.
- RAKE AREAS TO BE SODDED SMOOTH, FREE FROM UNSIGHTLY VARIATIONS, BUMPS, RIDGES OR DEPRESSIONS.
- PLANTING OF SOD,
 APPLY FERTILIZER AT RATE OF 25 POUNDS PER 1000 SQUARE FEET, APPLY

AFTER RAKING SOIL SURFACE AND NOT MORE THAN 48 HOURS PRIOR TO LAYING

SPREAD 2 INCH LAYER OF BANK SAND OVER AREAS TO BE SODDED PRIOR TO

- SOD, MIX THOROUGHLY INTO UPPER 2 INCHES OF SOIL, LIGHTLY WATER TO AID IN DISSIPATION OF FERTILIZER,
- FULL SODDING: LAY SOD WITH CLOSELY FITTED JOINTS LEAVING NO VOIDS AND WITH ENDS OF SOD STRIPS STAGGERED. LAY SOD WITHIN 24 HOURS OF HARVESTING.
- DN SLOPES 2:1 AND STEEPER, LAY SOD PERPENDICULAR TO SLOPE AND SECURE EVERY ROW WITH WOODEN PEGS AT MAXIMUM 2 FEET ON CENTER. DRIVE PEGS FLUSH WITH SOIL PORTION OF SOD.
- PRIOR TO PLACING SOD, ON SLOPES 3:1 OR WHERE INDICATED, PLACE HOLD/GRO OR ROLL LITE OR EQUAL OVER TOPSOIL. SECURELY ANCHOR IN PLACE WITH POSTS SUNK FIRMLY INTO GROUND AT MAXIMUM 16 FEET ON CENTER ALONG PITCH OF SLOPE AND EQUAL TO WIDTH OF WIRE MESH HORIZONTALLY ACROSS SLOPES.
- AFTER SDD IS LAID, IRRIGATE THOROUGHLY TO SECURE 6-INCH MINIMUM PENETRATION INTO SOIL BEL

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APPRAISAL DISTRICT

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ENGINEERING
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 REVISION
 DESCRIPTION

 PROJECT NO.
 183081-01

 DATE
 08-16-2018

 DRAWN BY
 M. ARMENTA

 DESIGNED BY
 F. MEDRANO JR.

GENERAL NOTES

APPROVED BY J.V. GARCIA

SHEET NO.

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GENERAL NOTES

- TAMP AND ROLL SOD WITH APPROVED EQUIPMENT TO ELIMINATE MINOR IRREGULARITIES AND TO FORM CLOSE CONTACT WITH SOIL BED IMMEDIATELY AFTER PLANTING AND WATERING. SUBMIT TYPE OF TAMPING AND ROLLING EQUIPMENT TO BE USED TO ENGINEERS FOR APPROVAL, PRIOR TO CONSTRUCTION.
- WATER LAWN AREAS DNCE A DAY WITH MINIMUM 1/2 INCH WATER FOR FIRST 3 WEEKS AFTER AREA IS SODDED.
- AFTER 3 WEEK PERIOD, WATER TWICE A WEEK WITH 3/4 INCH OF WATER EACH TIME UNLESS COMPARABLE AMOUNT HAS BEEN PROVIDED BY RAIN.
- MAKE WEEKLY INSPECTIONS TO DETERMINE MOISTURE CONTENT OF SOIL UNLESS SOIL IS IN FROZEN CONDITION.
- WATER IN AFTERNOON OR AT NIGHT TO ENABLE SOIL TO ABSORB MAXIMUM AMOUNT OF WATER WITH MINIMUM EVAPORATION.
- DURING COURSE OF PLANTING, REMOVE EXCESS AND WASTE MATERIALS; KEEP LAWN AREAS CLEAN AND TAKE PRECAUTIONS TO AVOID DAMAGE TO EXISTING STRUCTURES, PLANTS, GRASS, AND STREETS.
- REMOVE BARRIERS, SIGNS, AND OTHER CONTRACTOR MATERIAL AND EQUIPMENT FROM PROJECT SITE AT TERMINATION OF ESTABLISHMENT PERIOD.

DISPOSAL

 THE CONTRACTOR SHALL ARRANGE TO HAVE WASTES AND DEBRIS TRANSPORTED FROM THE SITE IN ACCORDANCE WITH ALL CITY ORDINANCES AND STATE AND FEDERAL LAWS.

SWPPP CONSTRUCTION NOTES

SODDING.

- CONTRACTOR SHALL IMPLEMENT INLET PROTECTION DEVICES AND REINFORCED FILTER FABRIC BARRIER ALONG ROAD AND SIDE DITCHES AT LOCATIONS SHOWN ON THE TYPICAL STORM WATER POLLUTION PREVENTION (SWPP) PLANS TO KEEP SILT AND OR EXCAVATED MATERIALS FROM ENTERING INTO THE STORM WATER INLETS AND DITCHES EVENTUALLY POLLUTING THE RECEIVING STORM.
- DURING THE EXCAVATION PHASE OF THE PROJECT, CONTRACTOR SHALL SCHEDULE THE WORK IN SHORT SEGMENTS SO THAT EXCAVATION MATERIAL CAN BE QUICKLY HAULED AWAY FROM THE SITE AND TO PREVENT IT FROM STAYING UNCOLLECTED ON THE EXISTING PAVEMENT. ANY LOOSE EXCAVATED MATERIAL WHICH FALLS ON PAVEMENTS OR DRIVEWAYS SHALL BE SWEPT BACK INTO THE EXCAVATED AREA.
- CONTRACTOR SHALL CLEAN UP THE EXISTING STREET INTERSECTIONS AND DRIVEWAYS DAILY, AS NECESSARY, TO REMOVE ANY EXCESS MUD, SILT OR ROCK TRACKED FORM THE EXCAVATED AREA.
- CONTRACTOR SHALL FOLLOW GOOD HOUSEKEEPING PRACTICES DURING THE CONSTRUCTION OF THE PROJECT, ALWAYS CLEANING UP DIRT AND LOOSE MATERIAL AS CONSTRUCTION PROGRESSES.
- CONTRACTOR TO INSPECT AND MAINTAIN THE AREAS LISTED BELOW AT LEAST ONCE EVERY FOURTEEN (14) CALENDAR DAYS AND WITHIN 24 HOURS OF THE END OF A STORM EVENT OF 0.5 INCHES OR GREATER.
- DISTURBED AREAS OF THE CONSTRUCTION SITE THAT HAVE NOT BEEN FINALLY STABILIZED.
- 2. AREAS USED FOR STORAGE OF MATERIALS THAT ARE EXPOSED TO PRECIPITATION.
- STRUCTURAL CONTROL MEASURES.
 LOCATIONS WHERE VEHICLES ENTER OR EXIT THE SITE.
- CONTRACTOR TO BE RESPONSIBLE TO MAINTAIN EXISTING DITCHES AND OR CULVERTS FOR UNOBSTRUCTED DRAINAGE AT ALL TIMES. WHERE SODDING IS DISTURBED BY EXCAVATION ON BACKFILLING OPERATIONS, SUCH AREAS SHALL BE REPLACED BY

SEEDING OR SODDING. SLOPES 4:1 OR STEEPER SHALL BE REPLACED BY BLOCK

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REVISION DESCRIPTION D.

PROJECT NO. 183081-01

DATE 08-16-2018

DRAWN BY M. ARMENTA

DESIGNED BY F. MEDRANO JR.

APPROVED BY J.V. GARCIA

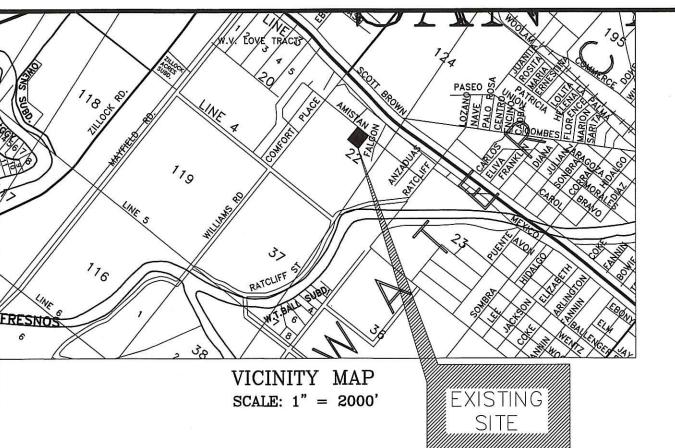
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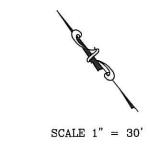
GENERAL

C1.1 of 7

NOTES

(CONT.)





LEGEND:

-POWER POLE -BACK TO BACK - x- - CHAIN LINK FENCE -CONCRETE -PROPERTY BOUNDARY LINE -RIGHT-OF-WAY COO -CLEAN OUT FND -FOUND ── —EXISTING WATER METER -IRON ROD W□ -EXISTING WATER VALVE -CENTERLINE ⊕ −EXISTING TREE PROP. -PROPOSED S -EXISTING SEWER MANHOLE -FINSH FLOOR -ss- -EXISTING SANITARY SEWER LINE -FENCE LINE -sd- -EXISTING STORM SEWER LINE -SIDEWALK -EXISTING GREEN AREA -SPOT ELEVATION -EXISTING CONCRETE PAVEMENT -SIDE WALK S.W.

NOTES:

-VALLEY GUTTER

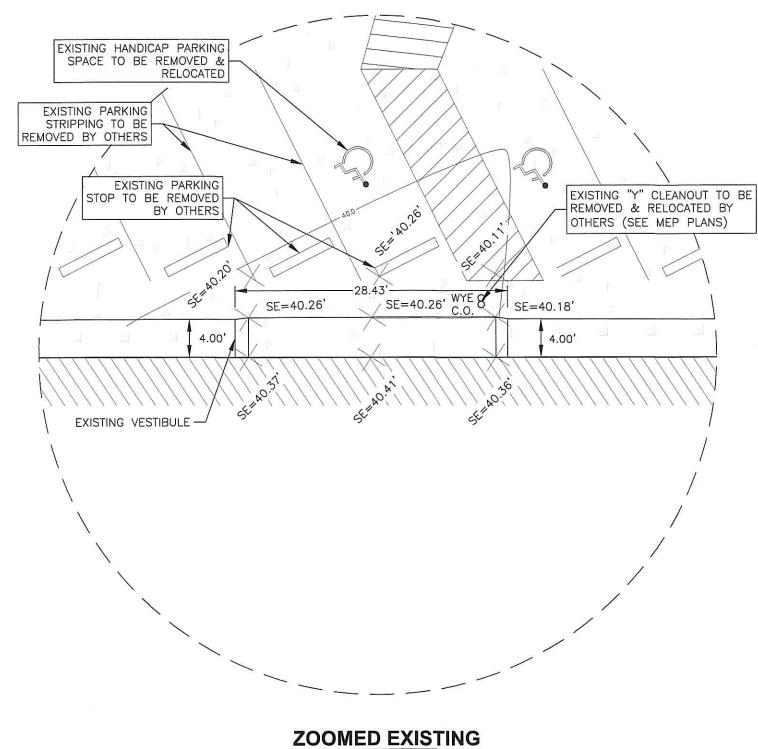
V.G.

 THIS TRACT LIES IN FLOOD ZONE "X", (AREAS OF MINIMAL FLOODING), AS PER THE FLOOD INSURANCE RATE MAP OF COMMUNITY—PANEL NO. 480101, PANEL NO. 0270, F, MAP REVISED FEBRUARY 16, 2018. SEE ATTACHED FIRMETTE FOR CAMERON COUNTY APPRAISAL DISTRICT OFFICE.

 BEARINGS & DISTANCES ARE BASED OFF THE "LOT 19 SAN BENITO INDUSTRIAL PARK SUBDIVISION" RECORDED VOLUME 24 PAGE 37 OF THE CAMERON COUNTY MAP RECORDS.

PROPOSED DEMOLITION

EXISTING PARKING STOPS' 3 TOTAL
EXISTING PARKING STRIPPING 2 TOTAL
EXISTING TREE 2 TOTAL
EXISTING WYE CLEANOUT 1 TOTAL
EXISTING CLEANOUT 1 TOTAL
EXISTING CONCRETE PAVEMENT 91 SQ.YD.



VESTIBULE

SCALE:1"=10'

17,943 ACRE TRACT SAN BENITO CISD PROPERTY ID: 104553

G UTEX DR

(80' R.O.W.)

20' UTILITY & 15.00' DRAINAGE EASEMENT

EXISTING BACK

N 59°17'00" W

FND BENT



CAMERON COUNTY
APPRAISAL DISTRICT

2021 AMISTAD DR., SAN BENITO, TEXAS 78586

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THE TEXAS ENGINEERING PRACTICE ACT.

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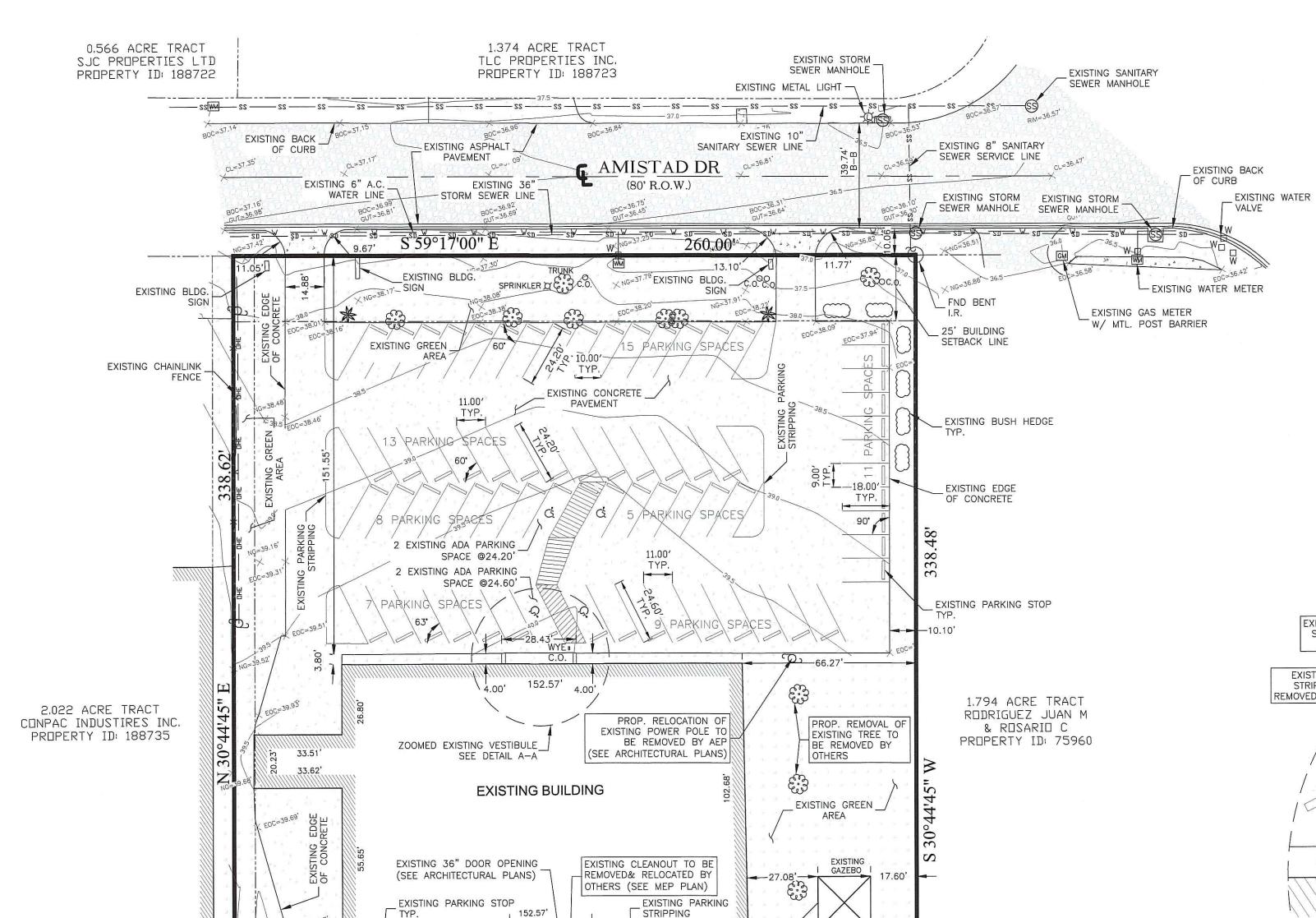
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DESCRIPTION DESCRI

DEMO/EXISTING TOPO PLAN

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C2.0 of 7



PROP SAWCUT FOR

260.00'

EXISTING ASPHALT

PAVEMENT

EXISTING BACK

OF CURB

PLUMBING TUNNEL

(SEE MEP PLAN)

64.27

EXISTING DUMPSTER

PROP. DEMOLITION OF

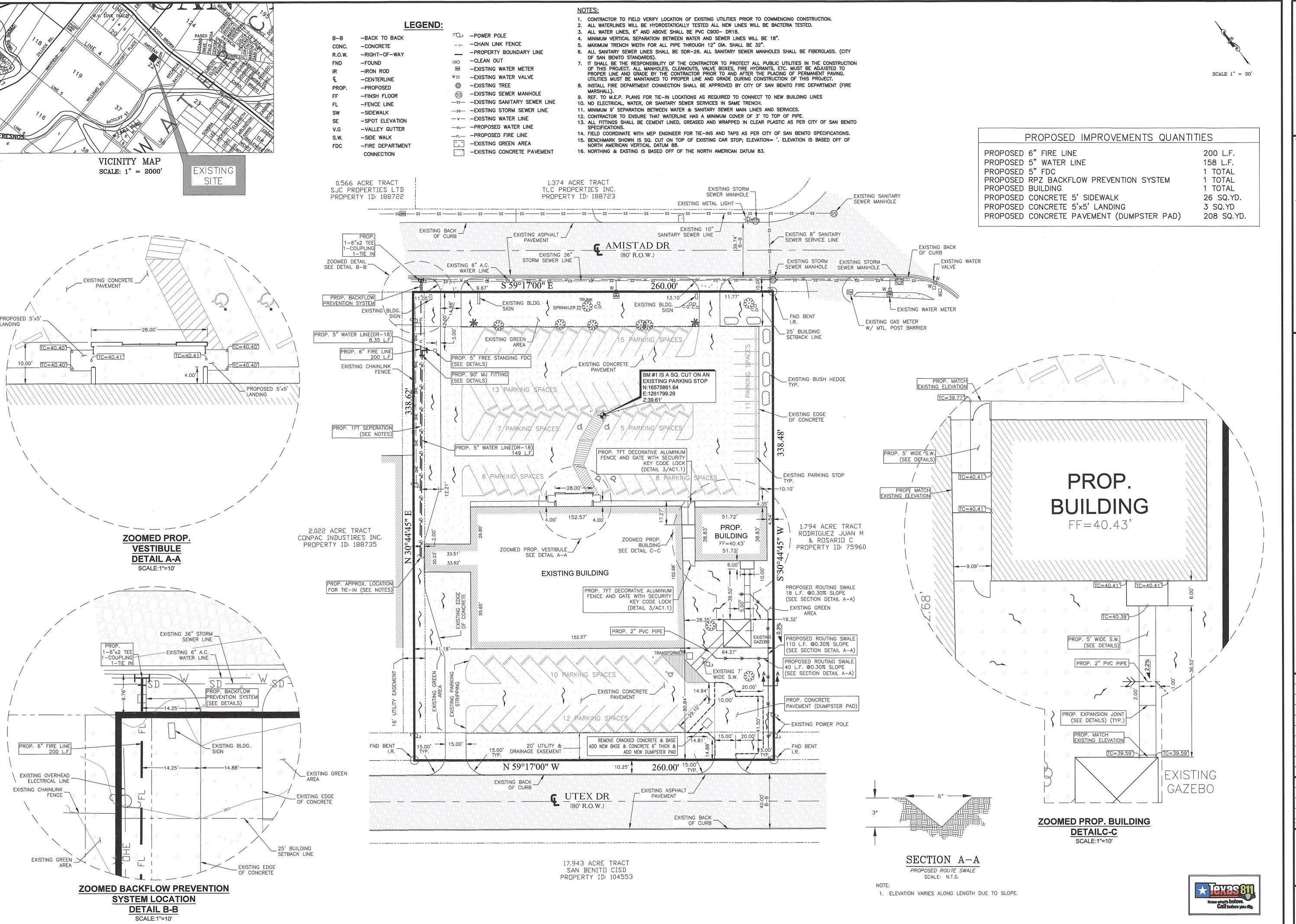
EXISTING CONCRETE

PAVEMENT

EXISTING EDGE OF CONCRETE

FND BENT

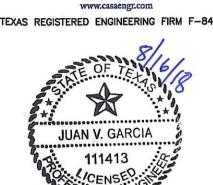
EXISTING 7' WIDE S.W.



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PLAN

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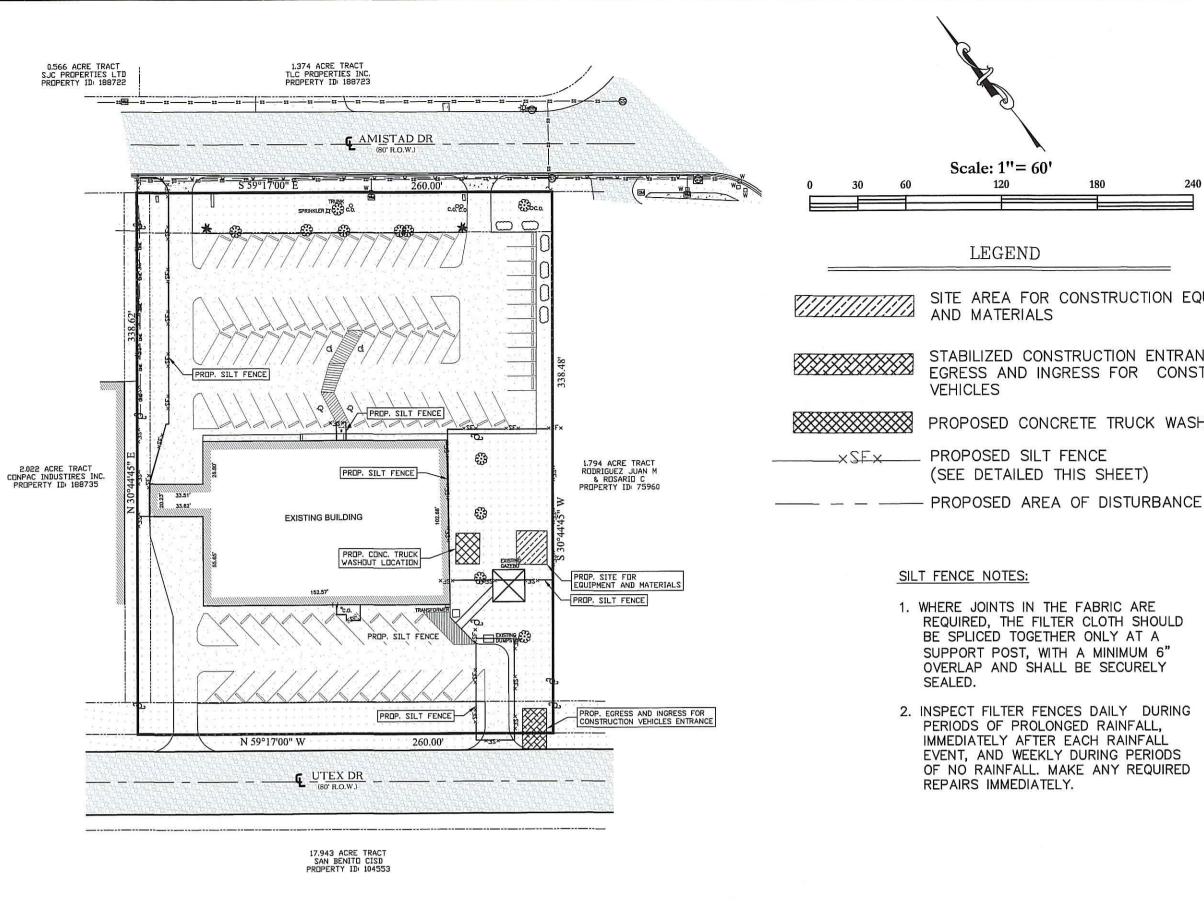
RAWN BY M. ARMENTA

ESIGNED BY F. MEDRANO JR.

PPROVED BY J.V. GARCIA

SITE PLAN

C3.0 of 7



NATURE OF CONSTRUCTION ACTIVITY

* CONSTRUCTION OF THE CAMERON COUNTY APPRAISAL DISTRICT OFFICE

SEQUENCE OF MAJOR ACTIVITIES

- * ADDITION OF FIRE LINE & WATER LINE
- * ADDITION OF RPZ BACKFLOW PREVENTION SYSTEM * ADDITION OF BUILDING
- * PROPOSED CONCRETE PAVEMENT (DUMPSTER PAD)
- AREA OF SITE

* TOTAL AREA OF DISTURBANCE: ESTIMATED RUNDFF COEFFICIENT

* PRE-CONSTRUCTION C "0.85 (10 YEAR EVENT) COMMERCIAL LAND USE

* POST-CONSTRUCTION C "0.86 (10 YEAR EVENT) COMMERCIAL LAND USE

0.263 ACRES

SOIL DESCRIPTION:

* HARLINGEN CLAY (HA)

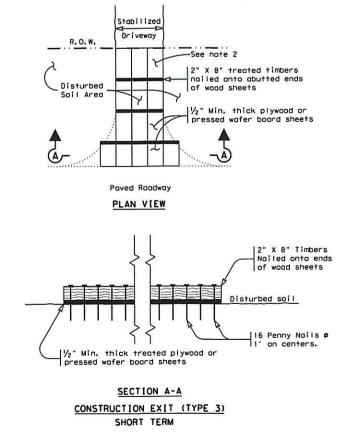
SITE PLAN SHOWS THE FOLLOWING:

- * AREAS OF SOIL DISTURBANCE
- * LOCATIONS OF MAJOR STRUCTURAL / NON-STRUCTURAL CONTROLS * LOCATIONS WHERE STABILIZATION PRACTICES ARE TO OCCUR

NAME OF RECEIVING WATERS BROWNSVILLE SHIP CHANNEL

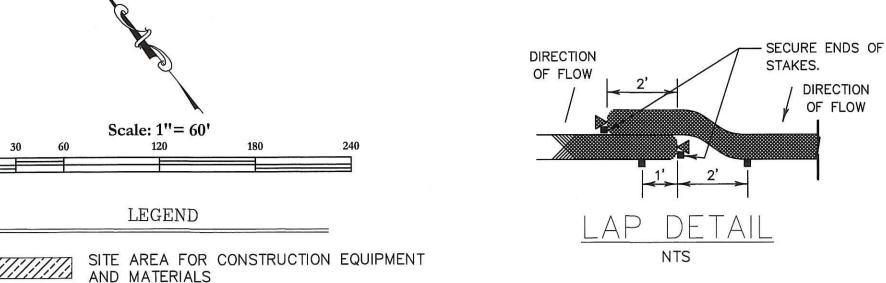
BMP'S TO BE IMPLEMENTED

* DURING CONSTRUCTION, SILT FENCING AND/OR EROSION SEDIMENT TRAPS SHALL BE ERECTED AND MAINTAINED WHERE SHOWN TO MINIMIZE ESCAPE OF SEDIMENT INTO STORM SEWER SYSTEM.



GENERAL NOTES (TYPE 3)

- The length of the type 3 construction exit shall be as shown on the plans, or as directed by the Engineer.
- 2. The type 3 construction exit may be constructed from open graded crushed stone with a size of two to four inches spread a min. of 4" thick to the limits shown on the plans.
- 3. The treated timber planks shall be #2 grade min., and should be free from large and loose knots.
- 4. The guidelines shown hereon are suggestions only and may be modified by the Engineer.



VEHICLES

SILT FENCE NOTES:

SEALED.

.

VARIES

NOTE 2

SIDE SLOPES

(SEE BELOW)

SEE

DEPTH VARIES

SEE NOTE 2

PROPOSED SILT FENCE

(SEE DETAILED THIS SHEET)

1. WHERE JOINTS IN THE FABRIC ARE REQUIRED, THE FILTER CLOTH SHOULD BE SPLICED TOGETHER ONLY AT A SUPPORT POST, WITH A MINIMUM 6

OVERLAP AND SHALL BE SECURELY

2. INSPECT FILTER FENCES DAILY DURING

PERIODS OF PROLONGED RAINFALL,

IMMEDIATELY AFTER EACH RAINFALL

REPAIRS IMMEDIATELY.

EVENT, AND WEEKLY DURING PERIODS

OF NO RAINFALL. MAKE ANY REQUIRED

HAY BALES OR

(SEE NOTE 3)

- EXISTING GROUND

COMPACTED EARTH BERM

- 10 MIL POLYETHYLENE SHEETING

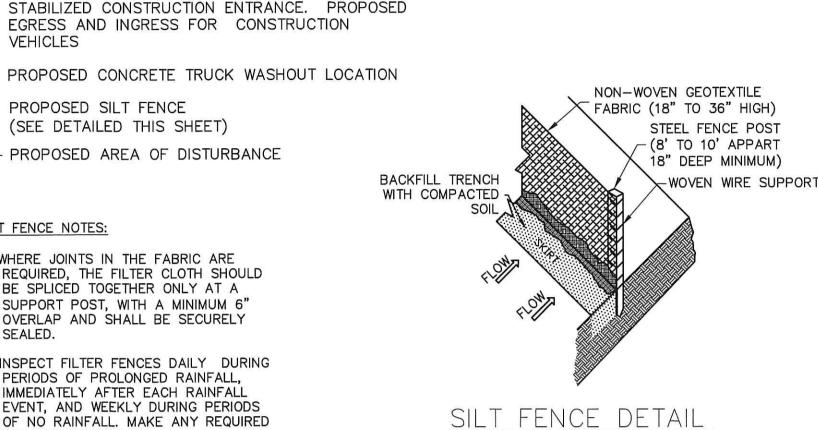
SAND BAGS TO SECURE

AS DIRECTED BY ENGINEER)

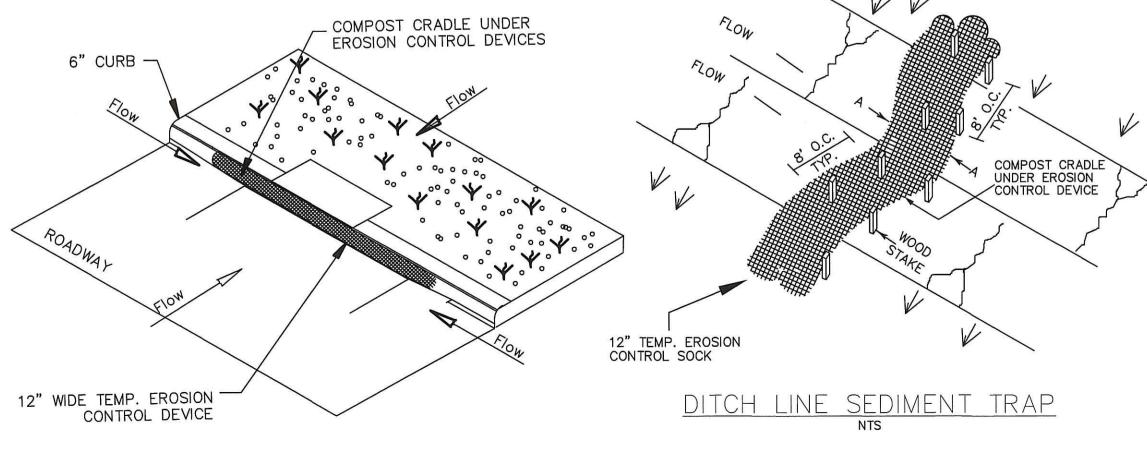
SHEETING (OR METHOD

SIDE SLOPES TO BE

2:1 OR 3:1 (NOMINAL)



- 1. CONCRETE WASHOUT AREA(S) SHALL BE INSTALLED PRIOR TO CONCRETE PLACEMENT ON SITE. THE CONCRETE WASHOUT AREA SHALL BE ENTIRELY SELF-CONTAINED.
- 2. THE CONTRACTOR SHALL SUBMIT THE DESIGN, LOCATION AND SIZING OF THE CONCRETE WASHOUT AREA(S) WITH THE PROJECT'S EROSION AND SEDIMENTATION CONTROL PLAN AND SHALL BE APPROVED BY THE ENGINEER.
- LOCATION: WASHOUT AREA(S) ARE TO BE LOCATED AT LEAST 50 FEET FROM ANY STREAM, WETLAND, STORM DRAINS, OR OTHER SENSITIVE RESOURCE. THE FLOOD CONTINGENCY PLAN MUST ADDRESS THE CONCRETE WASHOUT IF THE WASHOUT IS TO BE LOCATED WITHIN THE FLOODPLAIN.
- SIZE: THE WASHOUT MUST HAVE SUFFICIENT VOLUME TO CONTAIN ALL LIQUID AND CONCRETE WASTE GENERATED BY WASHOUT ASSOCIATED WITH GROUT AND MORTAR.
- 3. SURFACE DISCHARGE IS UNACCEPTABLE. THEREFORE, HAY BALES OR OTHER CONTROL MEASURES, AS APPROVED BY THE ENGINEER, SHOULD BE USED AROUND THE PERIMETER OF THE CONCRETE WASHOUT AREA FOR CONTAINMENT.
- 4. SIGNS SHOULD BE PLACED AT THE CONSTRUCTION ENTRANCE, AT THE CONCRETE AREA(S) AND ELSEWHERE AS NECESSARY TO CLEARLY INDICATE THE LOCATION OF THE CONCRETE WASHOUT TO OPERATORS OF CONCRETE TRUCKS AND PUMP RIGS. WASHOUT AREA(S) SHOULD BE FLAGGED WITH SAFETY FENCING OR OTHER APPROVED METHOD.
- 5. WASHOUT AREA(S) ARE TO BE INSPECTED AT LEAST ONCE A WEEK FOR STRUCTURAL INTEGRITY, ADEQUATE HOLDING CAPACITY AND CHECKED FOR LEAKS, TEARS, OR OVERFLOWS. (AS REQUIRED BY THE CONSTRUCTION SITE ENVIRONMENTAL INSPECTION REPORT) WASHOUT AREA(S) SHOULD BE CHECKED AFTER HEAVY RAIN.
- 6. HARDENED CONCRETE WASTE SHOULD BE REMOVED AND DISPOSED OF WHEN THE WASTE HAS ACCUMULATED TO HALF OF THE CONCRETE WASHOUT'S HEIGHT. THE WASTE CAN BE STORED AT AN UPLAND LOCATION, AS APPROVED BY THE ENGINEER. ALL CONCRETE WASTE SHALL BE DISPOSED OF IN A MANNER CONSISTENT WITH ALL APPLICABLE LAWS, REGULATIONS, AND GUIDELINES.
- 7. PAYMENT FOR THIS ITEM IS TO BE INCLUDED UNDER THE GENERAL COST OF THE WORK FOR THE PROJECT, INCLUDING SITE RESTORATION.

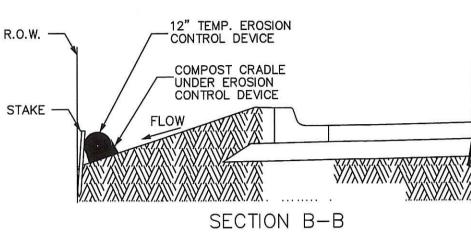


SEDIMENT BASIN & TRAP USAGE GUIDELINES

A SEDIMENT TRAP MAY BE USED TO PRECIPITATE SEDIMENT OUT OF RUNOFF DRAINING FROM AN UNSTABILIZED AREA. TRAPS: THE DRAINAGE AREA FOR A SEDIMENT TRAP SHOULD NOT EXCEED 5 ACRES. THE TRAP CAPACITY SHOULD BE 1800 CF/ACRE (0.5" OVER THE DRAINAGE AREA).

SEDIMENT TRAPS SHOULD BE PLACED IN THE FOLLOWING

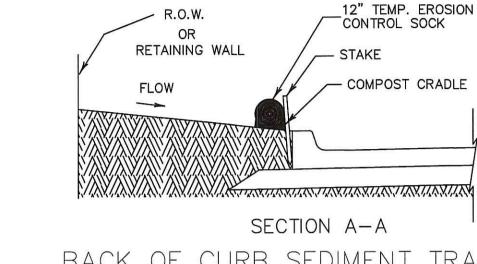
- . IMMEDIATELY PRECEDING DRAIN INLETS 2. JUST BEFORE THE DRAINAGE ENTERS A WATER COURSE
 3. JUST BEFORE THE DRAINAGE LEAVES THE RIGHT OF WAY
 4. JUST BEFORE THE DRAINAGE LEAVES THE CONSTRUCTION LIMITS WHERE DRAINAGE FLOWS AWAY FROM THE PROJECT
- THE TRAP SHOULD BE CLEANED WHEN THE CAPACITY HAS BEEN REDUCED BY ½ OR THE SEDIMENT HAS ACCUMULATED TO A DEPTH OF 1', WHICHEVER IS LESS. CLEANING AND REMOVAL OF ACCUMULATED SEDIMENT DEPOSITS IS INCIDENTAL AND WILL NOT BE PAID FOR SEPERATELY.



FLOW

SECURE END OF SOCK TO

(TYP.)



GENERAL NOTES

1. LENGTHS OF EROSION CONTROL SOCKS SHALL BE IN ACCORDANCE WITH MANUFACTURER'S

BIODEGRADABLE OR PHOTODEGRADABLE

USE RECYCLABLE CONTAINMENT MESH.

5. COMPOST CRADLE MATERIAL IS INCIDENTAL AND WILL NOT BE PAID FOR SEPARATELY.

CONTAINMENT MESH ONLY WHERE SOCK WILL REMAIN IN PLACE AS PART OF A VEGETATIVE

SYSTEM. FOR TEMPORARY INSTALLATIONS,

STUFF SOCKS WITH SUFFICIENT FILTER MATERIAL

TO ACHIEVE DENSITY THAT WILL HOLD SHAPE

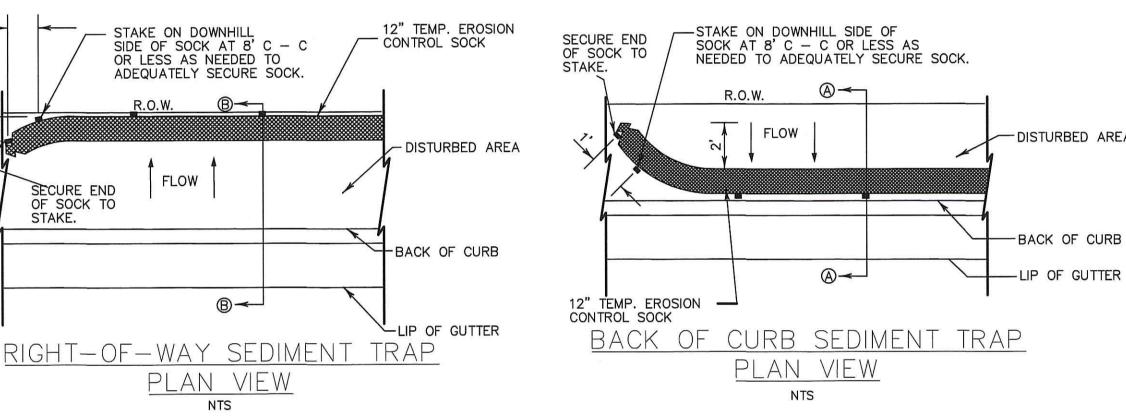
2. UNLESS OTHERWISE DIRECTED, USE

WITHOUT EXCESSIVE DEFORMATION. 4. STAKES SHALL BE 2" X 2" WOOD

4' LONG, EMBEDDED SUCH THAT " PROTRUDES ABOVE SOCK.

RECOMMENDATIONS AND AS REQUIRED FOR

THE PURPOSE INTENDED. MAXIMUM LENGTH OF SOCKS SHALL BE 30' FOR 12" DIAMETER SOCKS.



EROSION CONTROL GENERAL NOTES:

- 1. IT IS THE INTENT OF THE INFORMATION PROVIDED ON THIS SHEET AND WITHIN THE SPECIFICATIONS TO BE USED AS THE GENERAL GUIDELINES OF THE STORM WATER POLLUTION PREVENTION PLAN FOR THIS PROJECT TO ESTABLISH A MINIMUM BASIS OF COMPLIANCE WITH STATE AND FEDERAL REGULATIONS. THE CONTRACTOR SHALL PREPARE THE STORM WATER POLLUTION PREVENTION PLAN AND BE SOLELY RESPONSIBLE FOR ITS IMPLEMENTATION. THE STORM WATER POLLUTION PREVENTION PLAN SHALL MEET THE REQUIREMENTS SET FORTH IN THE TEXAS COMMISSION ON ENVIRONMENTAL QUALITY (TCEQ) TPDES GENERAL PERMITS FOR STORM WATER DISCHARGES FROM CONSTRUCTION SITES PUBLISHED IN THE FEBRUARY
- 2. THE STORM WATER POLLUTION PREVENTION PLAN SHOULD ADDRESS THE FOLLOWING:
- A) DEFINE THE CHARACTERISTICS OF THE SITE AND THE TYPE OF CONSTRUCTION WHICH WILL BE OCCURRING;
- B) DESCRIBE THE SITE PLAN FOR THE FACILITY TO BE CONSTRUCTED;
- C) DESCRIBE THE PRACTICES THAT WILL BE IMPLEMENTED TO CONTROL EROSION AND THE RELEASE OF POLLUTANTS IN STORM WATER;
- D) CREATE AN IMPLEMENTATION SCHEDULE;

NOT BE BASIS FOR ADDITIONAL COST TO THE OWNER.

- E) DESCRIBE THE FINAL STABILIZATION/TERMINATION DESIGN TO MINIMIZE EROSION AND PREVENT STORM WATER IMPACTS AFTER CONSTRUCTION IS COMPLETE.
- 3. CONTRACTOR SHALL MAKE THE STORM WATER POLLUTION PREVENTION PLAN AVAILABLE UPON REQUEST TO TCEQ. 4. THE CONTRACTOR MUST AMEND PLANS WHENEVER THERE IS A CHANGE IN DESIGN, CONSTRUCTION, OPERATION, OR MAINTENANCE OF THE PLAN, OR WHEN THE EXISTING PLAN PROVES INEFFECTIVE. MODIFICATIONS INCLUDING DESIGN AND ALL ADDITIONAL MATERIALS AND WORK SHALL BE ACCOMPLISHED BY THE CONTRACTOR AT NO ADDITIONAL EXPENSE TO THE
- 5. STABILIZATION MEASURES ARE TO BE INSPECTED AT A MINIMUM OF ONCE EVERY 7 DAYS AND WITHIN 24 HOURS AFTER ANY STORM EVENT GREATER THAN .5 INCHES, REPAIRS AND INADEQUACIES REVEALED BY THE INSPECTION MUST BE IMPLEMENTED WITHIN 7 CALENDAR DAYS FOLLOWING THE INSPECTION.
- 6. AN INSPECTION REPORT THAT SUMMARIZES INSPECTION ACTIVITIES AND IMPLEMENTATION OF THE STORM WATER POLLUTION PREVENTION PLAN SHALL BE RETAINED AND MARE PART OF THE PLAN.
- ALL CONTRACTORS AND SUBCONTRACTORS IDENTIFIED IN THE PLAN MUST CERTIFY AS TO AN UNDERSTANDING OF THE TPDES GENERAL PERMIT BEFORE CONDUCTING ANY ACTIVITY IDENTIFIED IN THE STORM WATER POLLUTION PREVENTION PLAN. THE CONTRACTOR SHALL ADOPT APPROPRIATE CONSTRUCTION SITE MANAGEMENT PRACTICES TO PREVENT THE DISCHARGE OF

OILS, GREASE, PAINTS, GASOLINE, AND OTHER POLLUTANTS TO STORM WATER. APPROPRIATE PRACTICES CAN INCLUDE:

- DESIGNATING AREAS FOR EQUIPMENT MAINTENANCE AND REPAIR; REGULAR COLLECTION OF WASTE; CONVENIENTLY LOCATED WASTE RECEPTACLES; AND DESIGNATING AND CONTROLLING EQUIPMENT WASHDOWN. THE CONTRACTOR SHALL AMEND OR MODIFY THIS PLAN AS REQUIRED BY CONSTRUCTION MEANS, METHODS AND SEQUENCE, MODIFICATIONS SHALL NOT COMPROMISE THE INTENT OF THE REQUIREMENTS OF LAW AND THIS PLAN. MODIFICATIONS SHALL
- 10. AREAS OF CONSTRUCTION ELSEWHERE ON THE JOB SITE SHALL CONFORM TO THE DETAILS SHOWN ON THE PLANS. BORROW AREAS, IF EXCAVATED, SHALL BE PROTECTED AND STABILIZED UTILIZING THE PLAN DETAILS. ALL WORK SHALL CONFORM TO GOVERNMENTAL REQUIREMENTS AND BECOME PART OF THE STORM WATER POLLUTION PREVENTION PLAN. THE WORK SHALL BE DONE BY THE CONTRACTOR AT NO ADDITIONAL EXPENSE TO THE OWNER. IMMEDIATELY UPON COMPLETION OF FINAL GRADING. THIS INCLUDES ALL DITCHES AND EMBANKMENTS. THE CONTRACTOR SHALL MAINTAIN FINAL GRADING AND KEEP SEEDED ARES WATERED UNTIL FULLY ESTABLISHED AND ACCEPTED BY THE OWNER.
- 12. THE CONTRACTOR SHALL CONSTRUCT A STABILIZED CONSTRUCTION EXIT AT ALL TRAFFIC EXIT POINTS PRIOR TO EXITING ONTO ANY PAVED ROADWAY.
- 13. THE CONTRACTOR SHALL CONSTRUCT A REINFORCED FILTER BARRIER AT ALL LOCATIONS SHOWN ON PLANS, THE REINFORCED BARRIER SHALL BE CONSTRUCTED.



CAMERON COUNTY APPRAISAL DISTRICT

2021 AMISTAD DR., SAN BENITO, TEXAS 78586

ENGINEERING Civil & Structural Associates 1117 N. Stuart Place Rd. Suite E Harlingen, TX 78552 Phone 956.428.7900 www.casaengr.com



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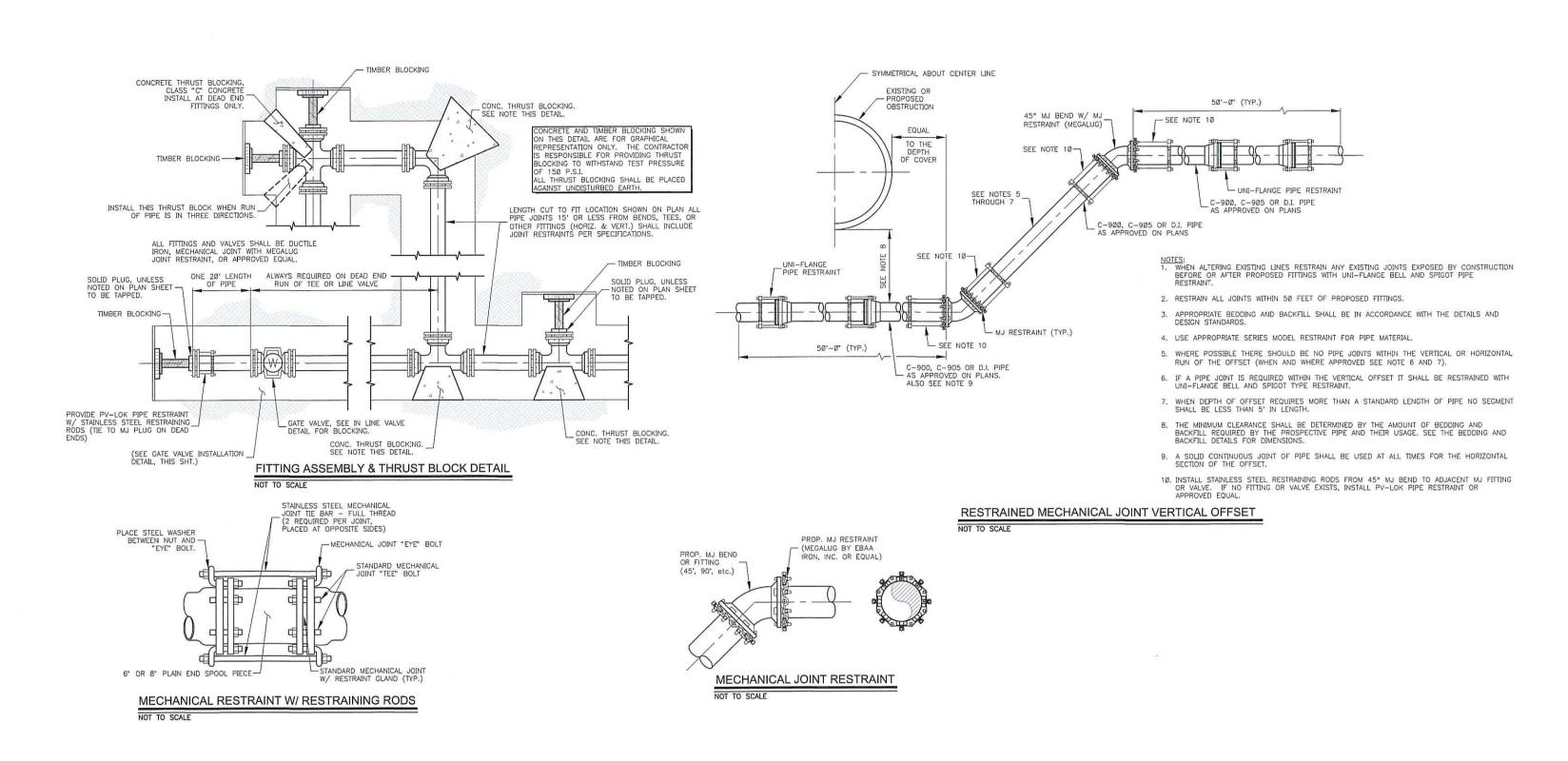
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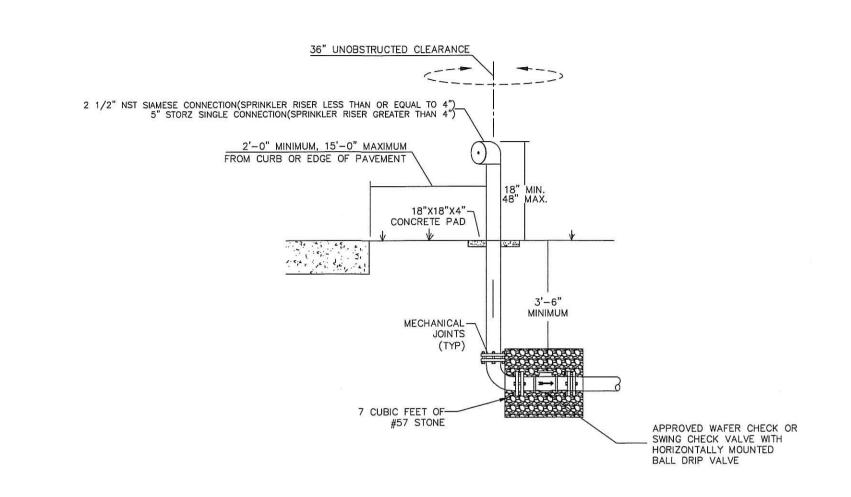
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M. ARMENTA F. MEDRANO JR. PROVED BY J.V. GARCIA

SWPPP

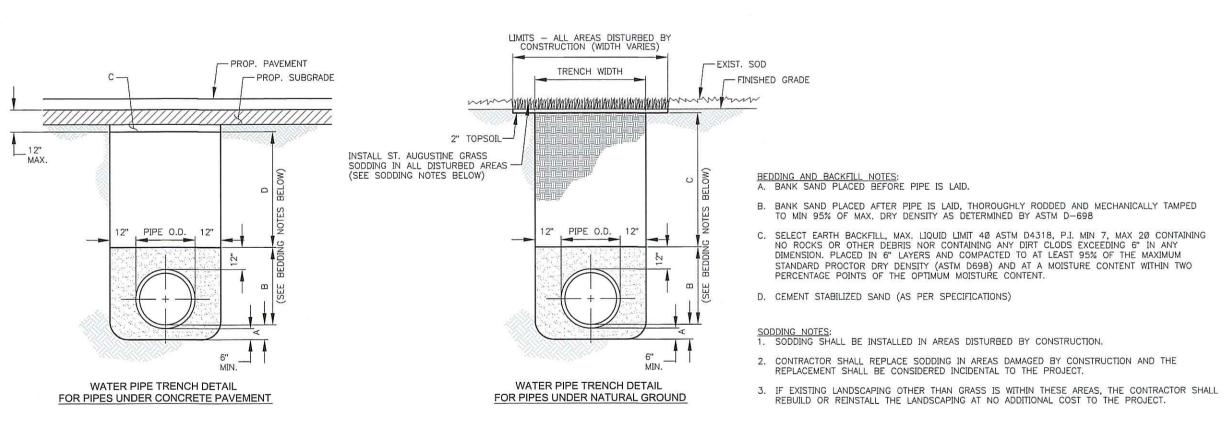
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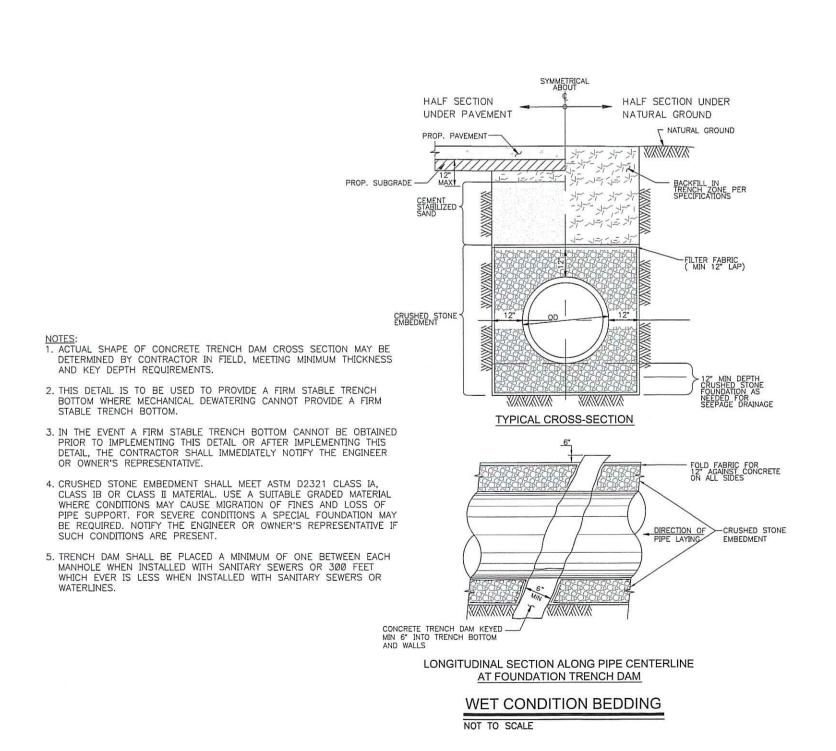
NOTES

- THERE SHALL BE NO SHUTOFF VALVE IN THE FIRE DEPT. CONNECTION PIPING (PER NFPA 13).
- 2. ALL ABOVE GROUND FITTINGS SHALL BE FLANGED.
- 3. ALL PIPING SHALL BE STEEL OR DUCTILE IRON.
- 4. SEE SITE PLANS FOR SIZES OF PIPES AND FITTINGS.
 SIAMESE CONNECTION TO BE IN ACCORDANCE WITH NFPA 13.
- 5. PROVIDE DRAINAGE AWAY FROM STRUCTURE.
- 6. KNOX LOCKING PLUG SHALL BE PROVIDED ON THE FDC INLET.
- APPROVED WATER CHECK OR SWING CHECK VALVE WITH HORIZONTAL MOUNTED BALL DRIP VALVE.
- THE FDC SHALL BE CONNECTED TO THE PIPING SYSTEM LOCATED DOWNSTREAM OF THE POST INDICATOR VALVE.



BEDDING, BACKFILL, AND SODDING NOTES FOR TRENCH DETAILS

NOT TO SCALE



CAMERON COUNTY APPRAISAL DISTRICT

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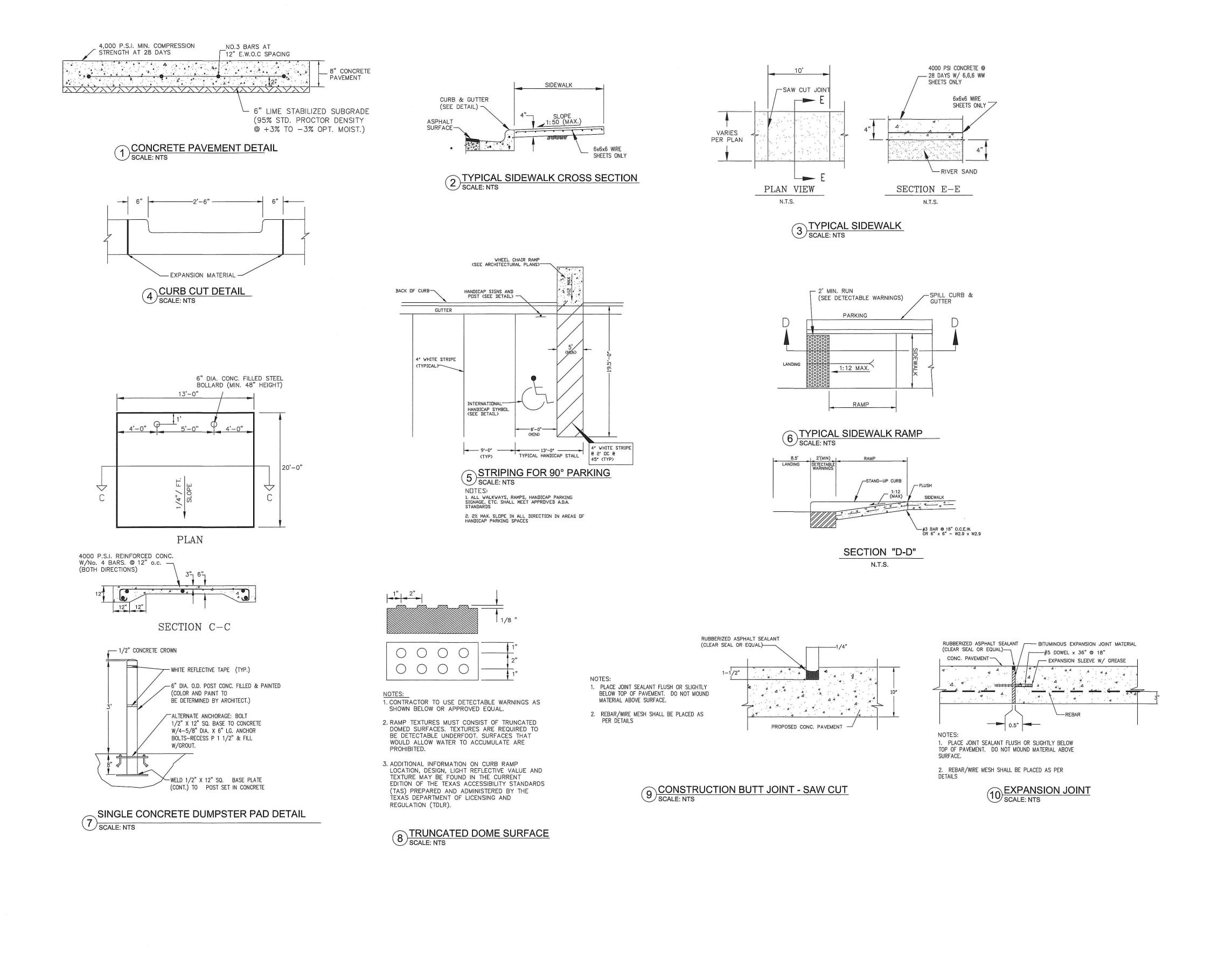
WATER DETAILS

REVISION DESCRIPTION DATE 183081-01
DATE 08-16-2018
DRAWN BY M. ARMENTA
DESIGNED BY F. MEDRANO JR.
APPROVED BY J.V. GARCIA
DRAWING TITLE

WATER DETAILS

SHEET NO

C5.0 of 7



AVING DETAILS

CAMERON COUNTY

APPRAISAL DISTRICT

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TEXAS REGISTERED ENGINEERING FIRM F-848

JUAN V. GARCIA

2021 AMISTAD DR., SAN BENITO. TEXAS 78586

REVISION DESCRIPTION

PROJECT NO. 183081-01

DATE 08-16-2018

DRAWN BY M. ARMENTA

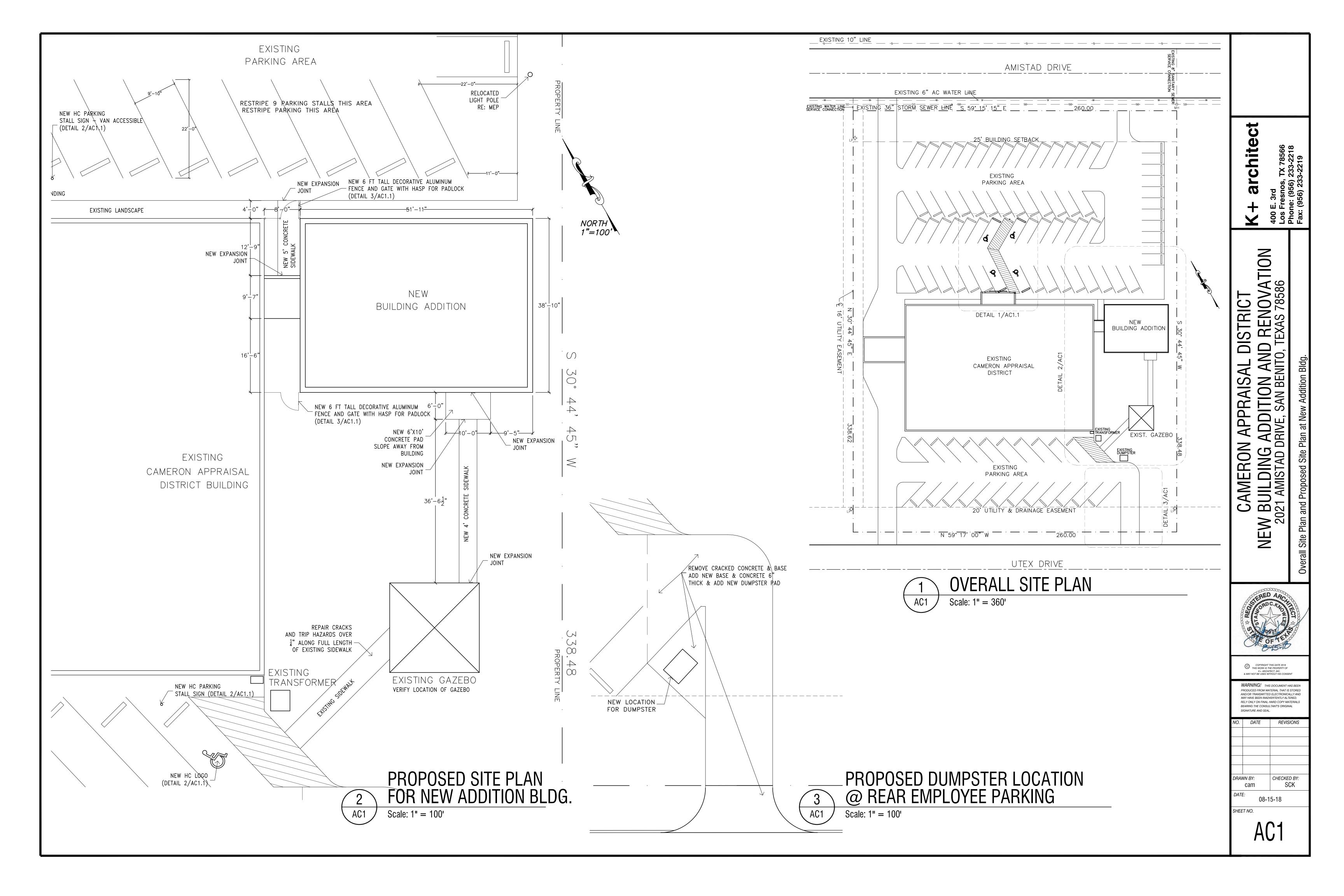
DESIGNED BY F. MEDRANO JR.

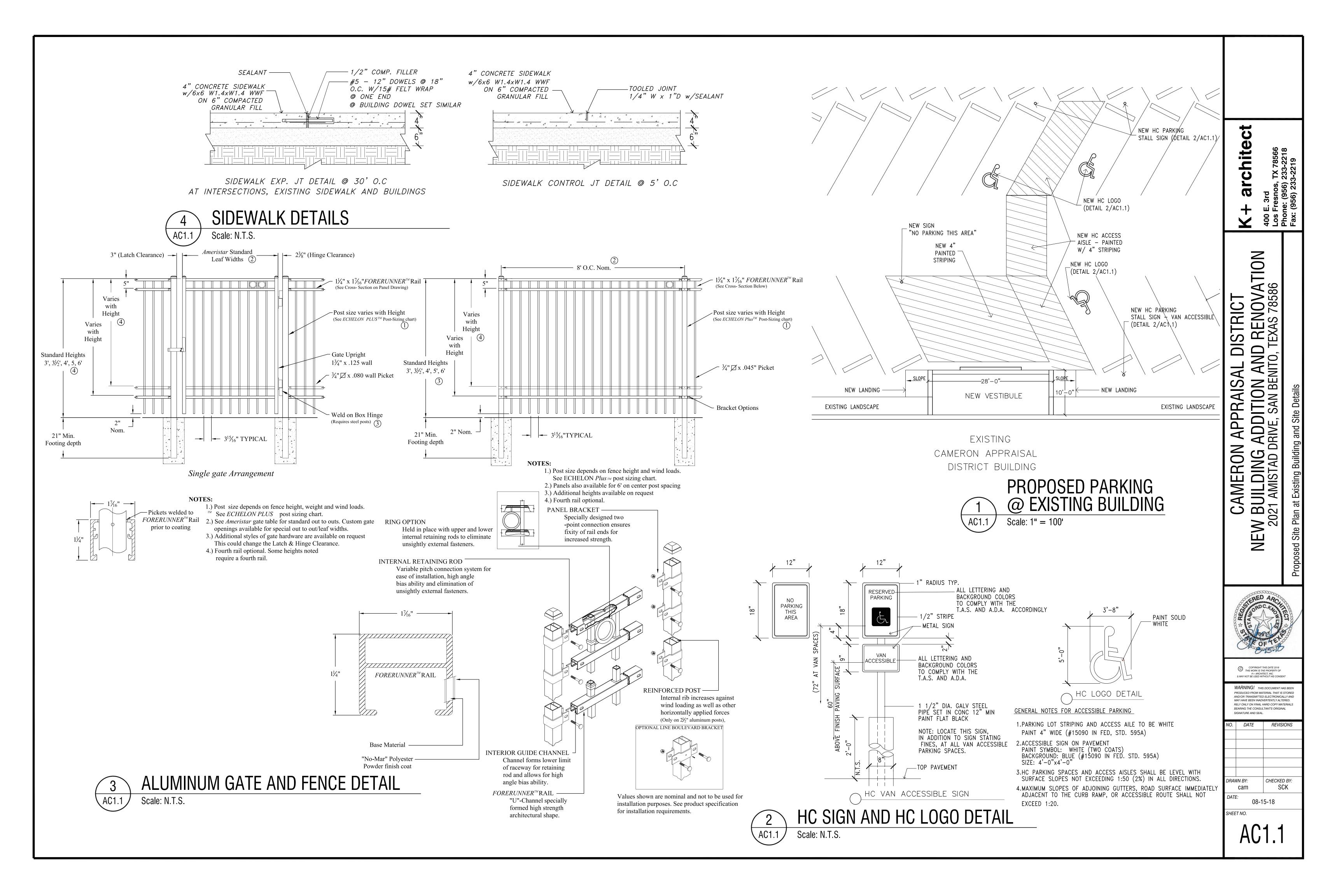
APPROVED BY J.V. GARCIA

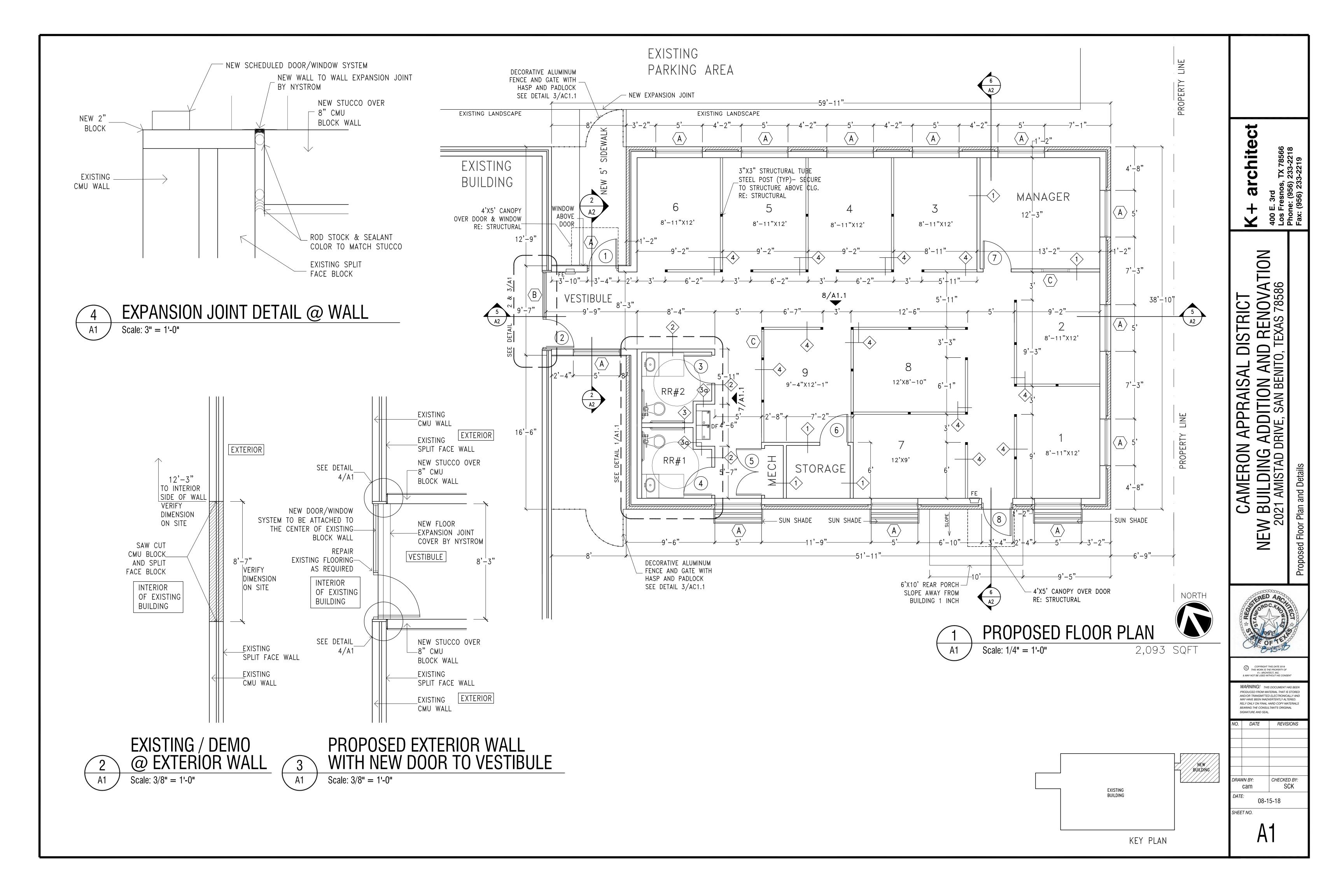
PAVING DETAILS

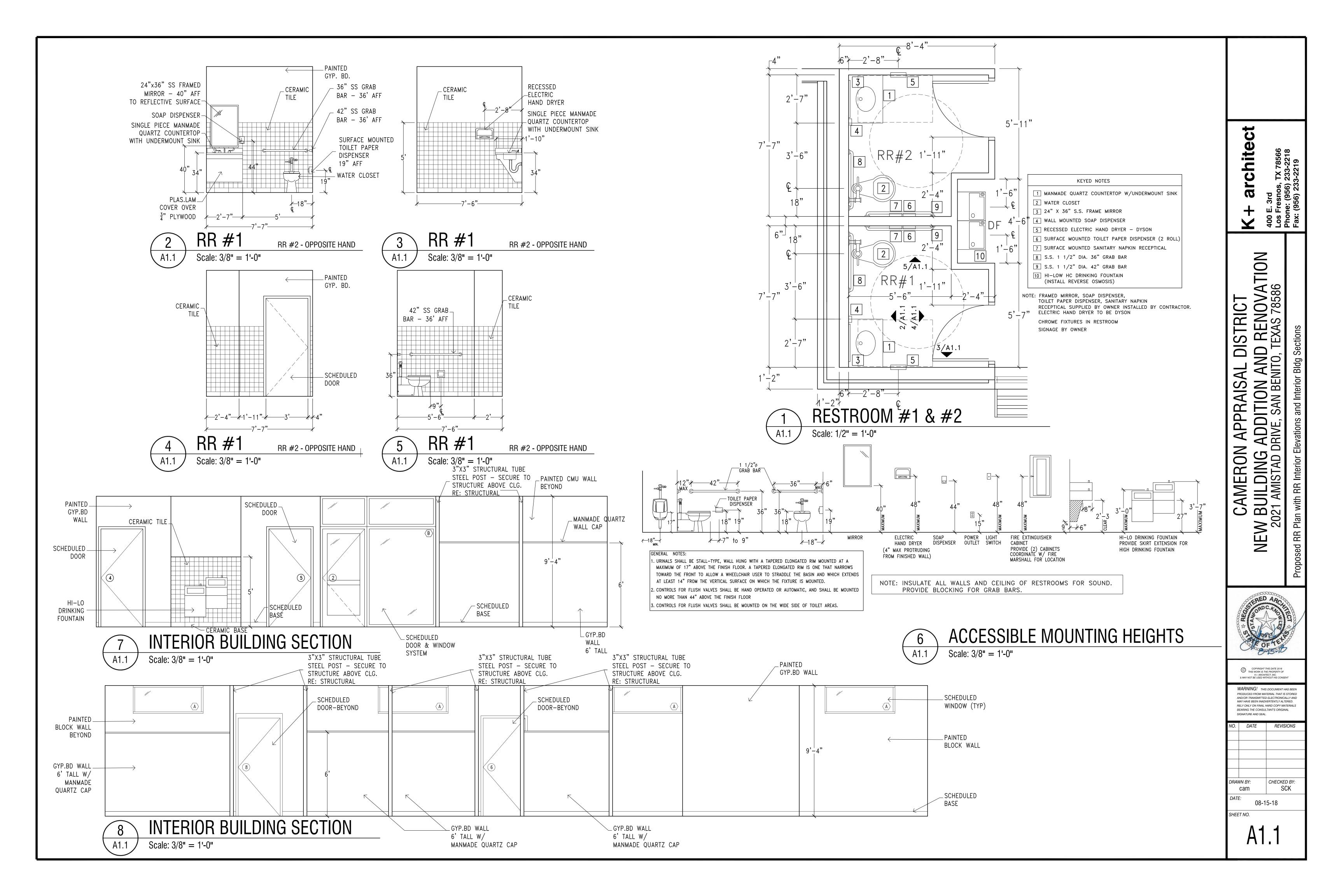
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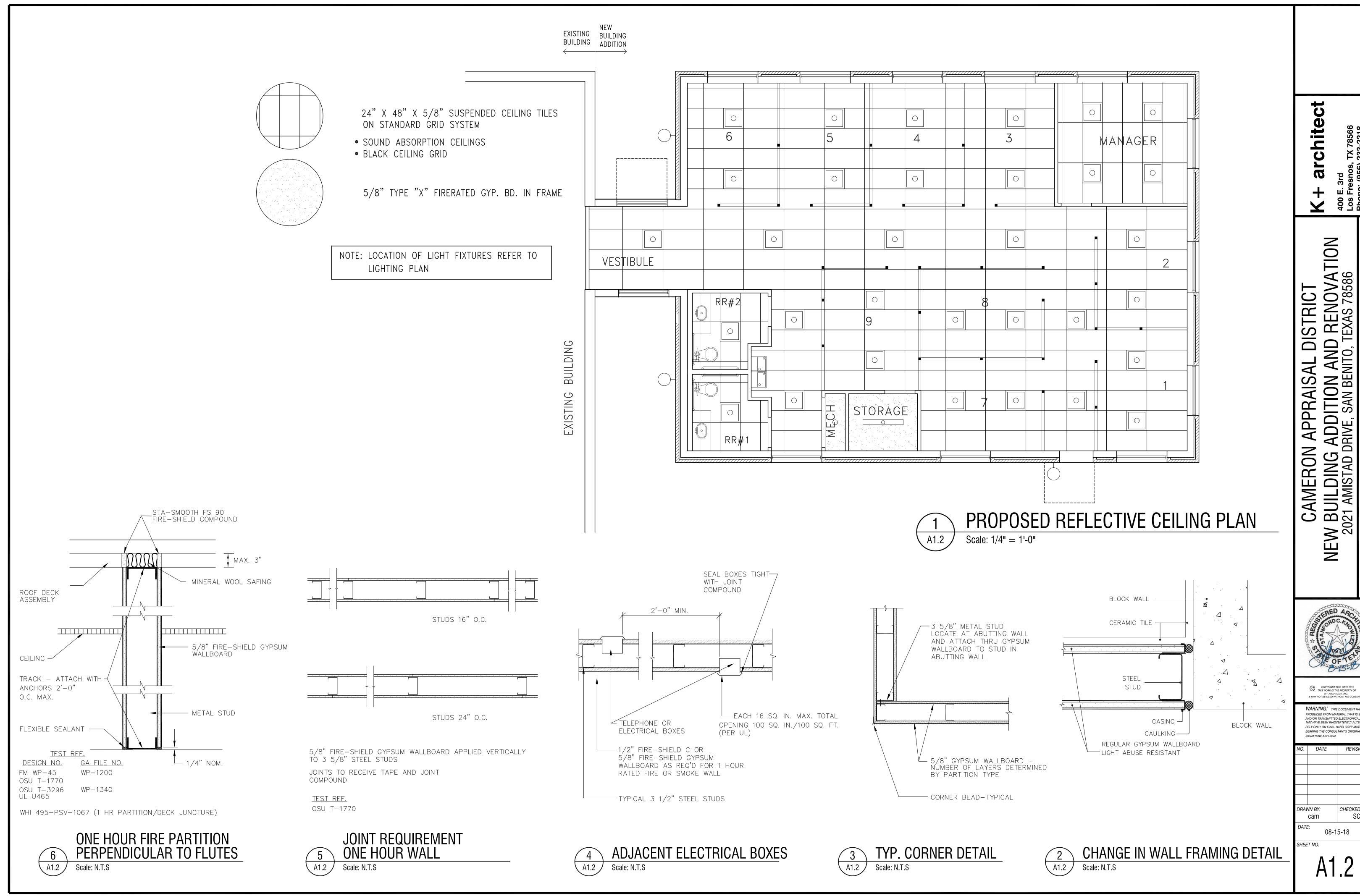
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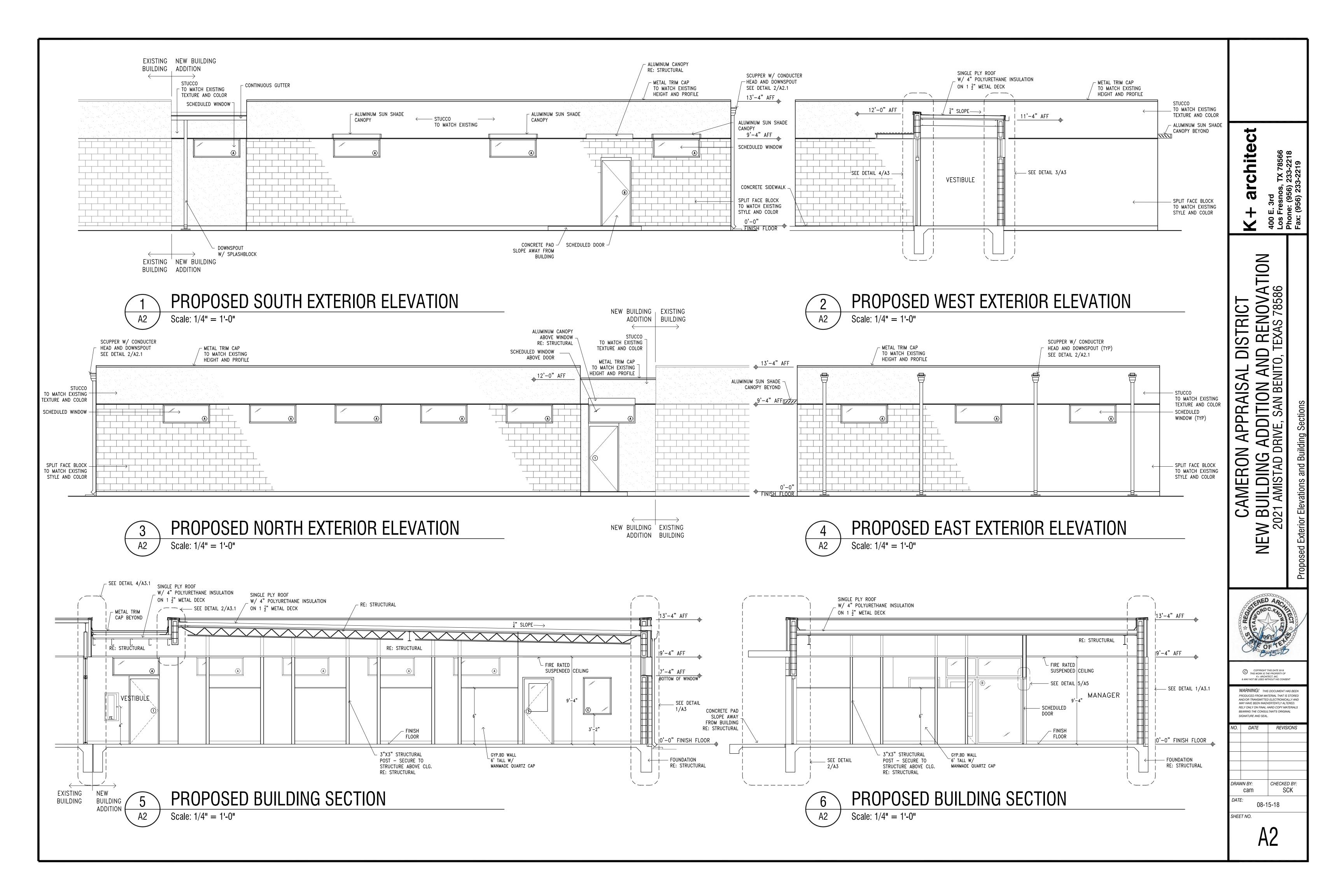


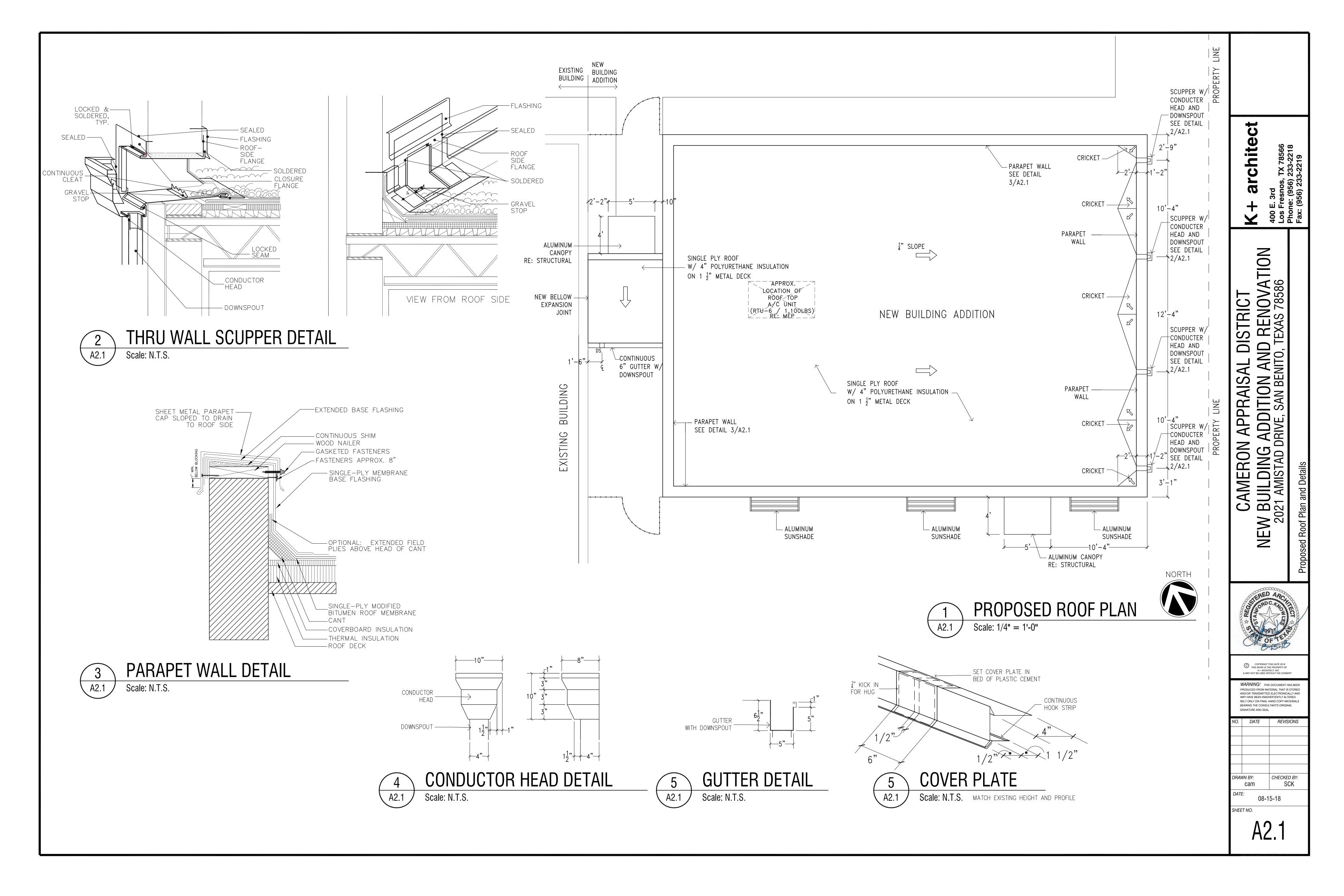


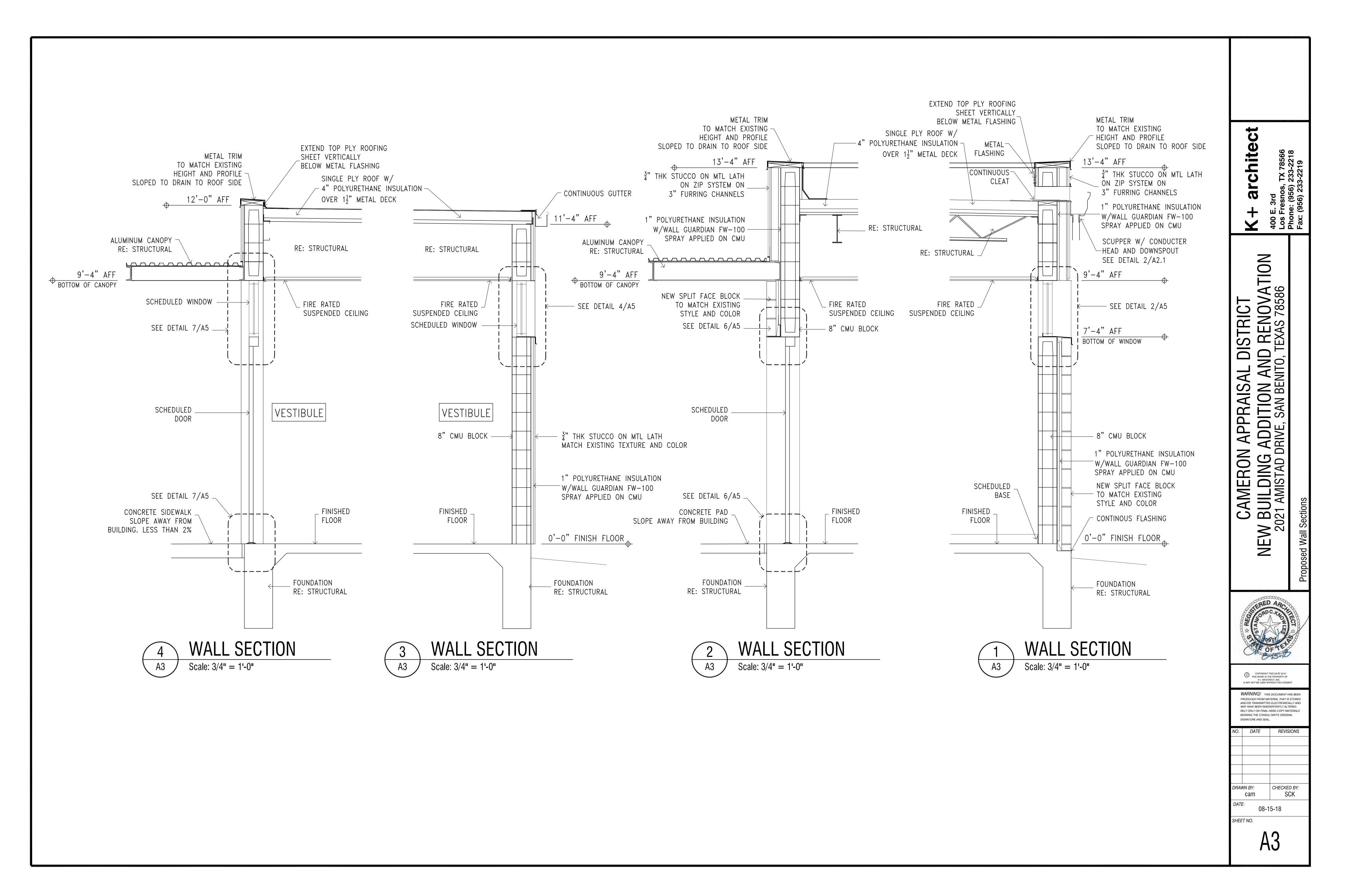
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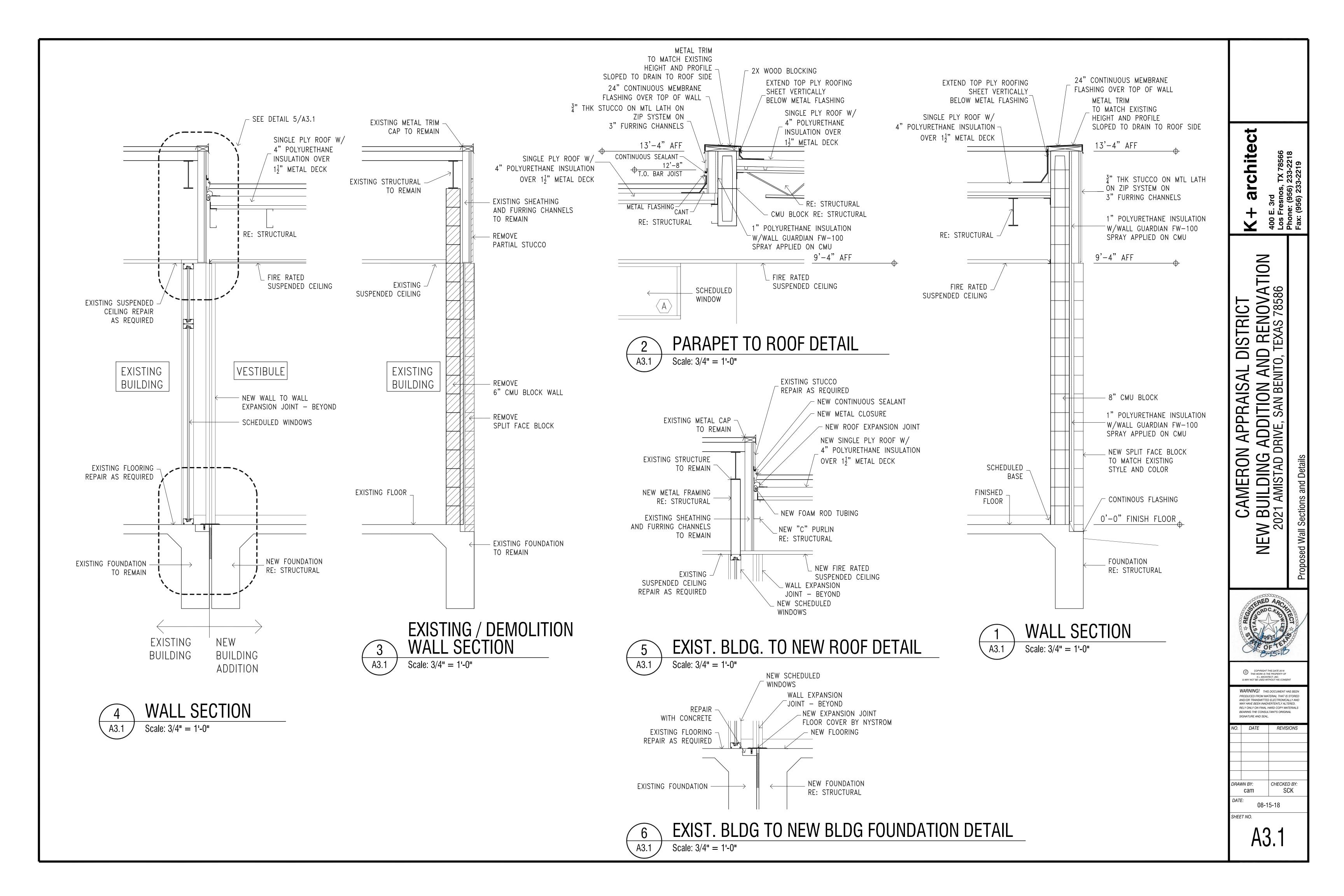
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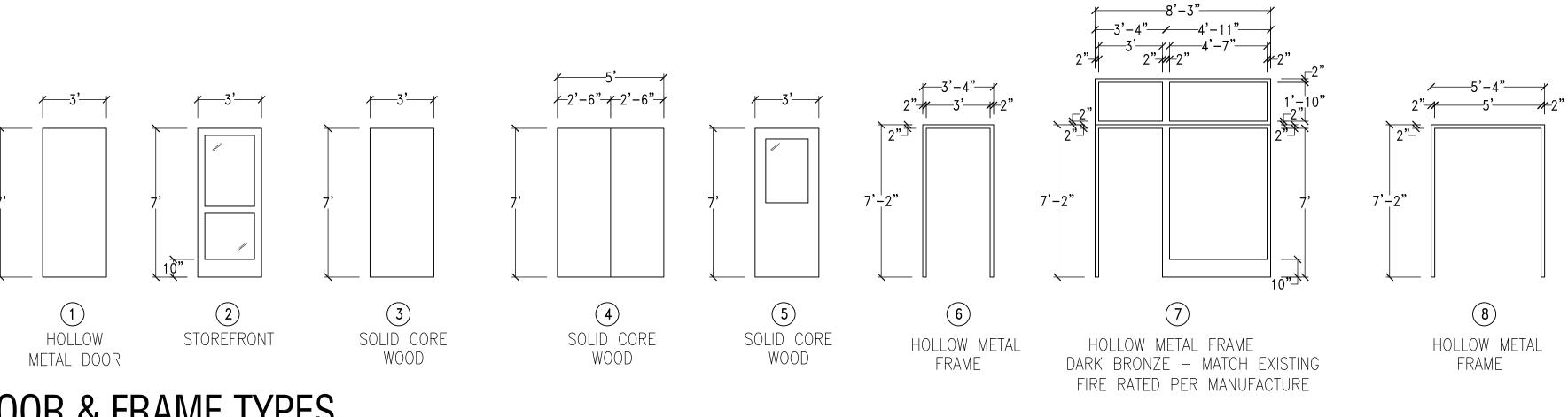
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**CHROME DOOR FRAMES STYLE TO MATCH EXISTING **CHROME DOOR HARDWARE

	O DOOR SCHEDULE							
DOOR NO.	DOOR SIZE (1 3/4" THK)	DOOR TYPE		FRAME TYPE		REMARKS		
1	3'-0" x 7'-0"	METAL	1	НМ	6	LOCKING PUSH DEVICE ON THE INTERIOR SIDE OF DOOR ONLY NO LOCKSET ON EXTERIOR SIDE OF DOOR		
2	3'-0" x 7'-0"	ALUM	2	НМ	7	INTERIOR - PUSH DEVICEFROM EXISTING BLDG. FOR FIRE EXIT - NO LOCKSET		
3	3'-0" x 7'-0"	SC WOOD	3	НМ	6	INTERIOR		
4	3'-0" x 7'-0"	SC WOOD	3	НМ	6	INTERIOR		
5	2-2'-6" x 7'-0"	SC WOOD	4	НМ	8	INTERIOR — KEYED LOCKSET		
6	3'-0" x 7'-0"	SC WOOD	3	НМ	6	INTERIOR - KEYED LOCKSET		
7	3'-0" x 7'-0"	SC WOOD	5	НМ	6	INTERIOR - HALF GLASS - KEYED LOCKSET		
8	3'-0" x 7'-0"	METAL	1	НМ	6	LOCKING PUSH DEVICE ON THE INTERIOR SIDE OF DOOR ONLY NO LOCKSET ON EXTERIOR SIDE OF DOOR		

DOOR LEGEND ALUM = ALUMINUM

EXTERIOR DOORS TO TO MEET TDI WINDSTORM REQUIREMENTS EXTERIOR DOORS TO HAVE WEATHERSTRIP & ADA THRESHOLD PROVIDE TEMPERED GLASS FOR ALL GLASS DOORS AND WINDOWS WITHIN 24" OF DOORS.

SC WOOD = SOLID CORE WOOD HM = HOLLOW METAL

1. HANDLES, PULLS, LATCHES, LOCKS, AND OTHER OPERATING DEVICES ON ACCESSIBLE DOORS SHALL HAVE A SHAPE THAT IS EASY TO GRASP WITH ONE HAND AND DOES NOT REQUIRE TIGHT GRASPING, TIGHT PINCHING, OR TWISTING OF THE WRIST TO OPERATE. LEVER-OPERATED MECHANISMS, PUSH-TYPE MECHANISMS, AND U-SHAPED HANDLES ARE ACCEPTABLE DESIGNS. HARDWARE REQUIRED FOR ACCESSIBLE DOOR PASSAGE SHALL BE MOUNTED NO HIGHER THAN 48 INCHES ABOVE FINISHED FLOOR

**COLOR AND FRAME STYLE TO MATCH EXISTING

	W	IND	OW SCH	HE[DULE
WIN NO.	WINDOW SIZE	QTY.	FRAME TYP.		REMARKS
А	5'-0" x 2'-0"	13	ALUMINUM		TRANSOM - TDI WINDSTORM
В	4'-11" x 7'-2"	1	ALUMINUM		INTERIOR W/ TRANSOM ABOVE FIRE RATED FRAME AND GLASS
С	3'-0" x 4'-0"	2	ALUMINUM		INTERIOR — FIXED GLASS

**SIGNAGE BY OWNER

F	200N	1 FIN	NSH	SCH	HEDL	JLE			
ROOM NAME	BASE MATL	FLOOR MATL	NORTH WALL	WEST WALL	SOUTH WALL	EAST WALL	CLG MATL	CLG HGT	REMARKS
VESTIBULE	4RB	CER	W1		W1		SAC	9'-4"	
RR #1	CER	CER	W4	W3	W3	W4	GB	9'-4"	
RR #2	CER	CER	W4	W3	W4	W4	GB	9'-4"	
MECHANICAL ROOM	4RB	CONC	W2	W2	W1	W2	GB	9'-4"	
STORAGE	4RB	CONC	W2	W2	W1	W2	GB	9'-4"	
MANAGER OFFICE	4RB	CER	W1	W2	W2	W1	SAC	9'-4"	
1	4RB	CER	W2	W2	W1	W1	SAC	9'-4"	
2	4RB	CER	W2	W2	W2	W1	SAC	9'-4"	
3	4RB	CER	W1	W2	W2	W2	SAC	9'-4"	
4	4RB	CER	W1	W2	W2	W2	SAC	9'-4"	
5	4RB	CER	W1	W2	W2	W2	SAC	9'-4"	
6	4RB	CER	W1	W1	W2	W2	SAC	9'-4"	
7	4RB	CER	W2	W2	W1	W2	SAC	9'-4"	
8	4RR	CFR	W2	W2	W2	W2	SAC	9'-4"	

4RB CER | W2 | W2 | W2 | SAC | 9'-4"

BASE MATERIAL

4RB = 4" RUBBER CER = 4"X12" CERAMIC TILE TO MATCH FLOOR TILE W2 = PAINTED GYP. BD. ROLL TOP EDGE

FLOOR MATERIAL

CER = 12"X12" NON-SKID GROUP 4 COMMERCIAL (\$6.00 INSTALLED ALLOWANCE)

CONC. = SEALED CONCRETE

WALL MATERIAL

W1 = PAINTED CMU BLOCK

W3 = 4"X4" CERAMIC TILE (5' AFF) AND

PAINTED CMU BLOCK ABOVE

W4 = 4"X4" CERAMIC TILE (5' AFF) AND PAINTED GYP.BD ABOVE

<u>CEILING MATERIA</u>L

SAC = 48"X24"X5/8" FIRE RATED SUSPENDED CEILING TILES ON STANDARD GRID SYSTEM

GB = 5/8" GYPSUM BOARD FIRE RATED

NOTE: 20% ACCENT COLOR AND PATTERN TO BE CHOSEN BY ARCHITECT FOR CERAMIC TILE FLOOR AND WALLS

CAMERON APPRAISAL DI NEW BUILDING ADDITION AND 2021 AMISTAD DRIVE, SAN BENITO, 1

architec

D RENOVATION , TEXAS 78586

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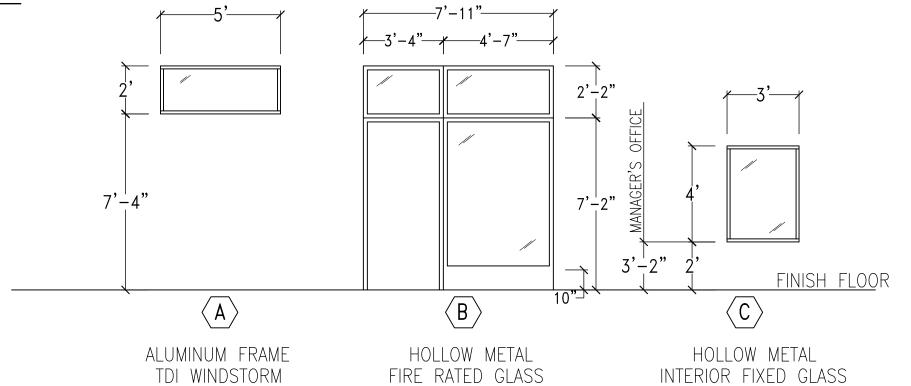
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SHEET NO.

A4

DOOR & FRAME TYPES Scale: 1/4" = 1'-0"

Α4



WINDOW TYPES

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

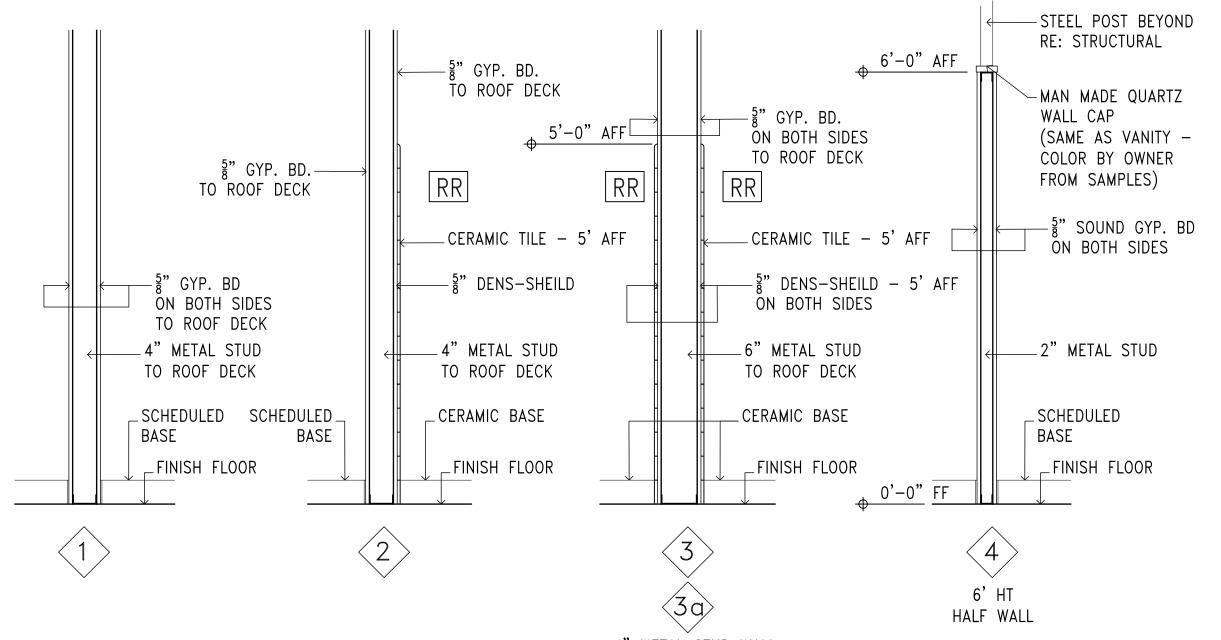
NOTE:

1. ALL EXTERIOR WINDOWS TO HAVE FRAME AND GLASS SYSTEM APPROVED TDI WINDSTORM INLAND 1 - IMPACT GLASS - VERIFY ATTACHMENT AND SUBMIT FOR APPROVED OF STRUCTURAL

2. VERIFY DIMENSIONS ON ALL WINDOWS WITH FINISH STRUCTURE AND CLADDING

3. STOREFRONT DOOR, GLASS AND FRAME BETWEEN NEW AND EXISTING BUILDING TO BE FIRE RATED PER CODE

4. ALL INTERIOR GLASS TO BE TEMPERED OR LAMINATED PER IBC CODE



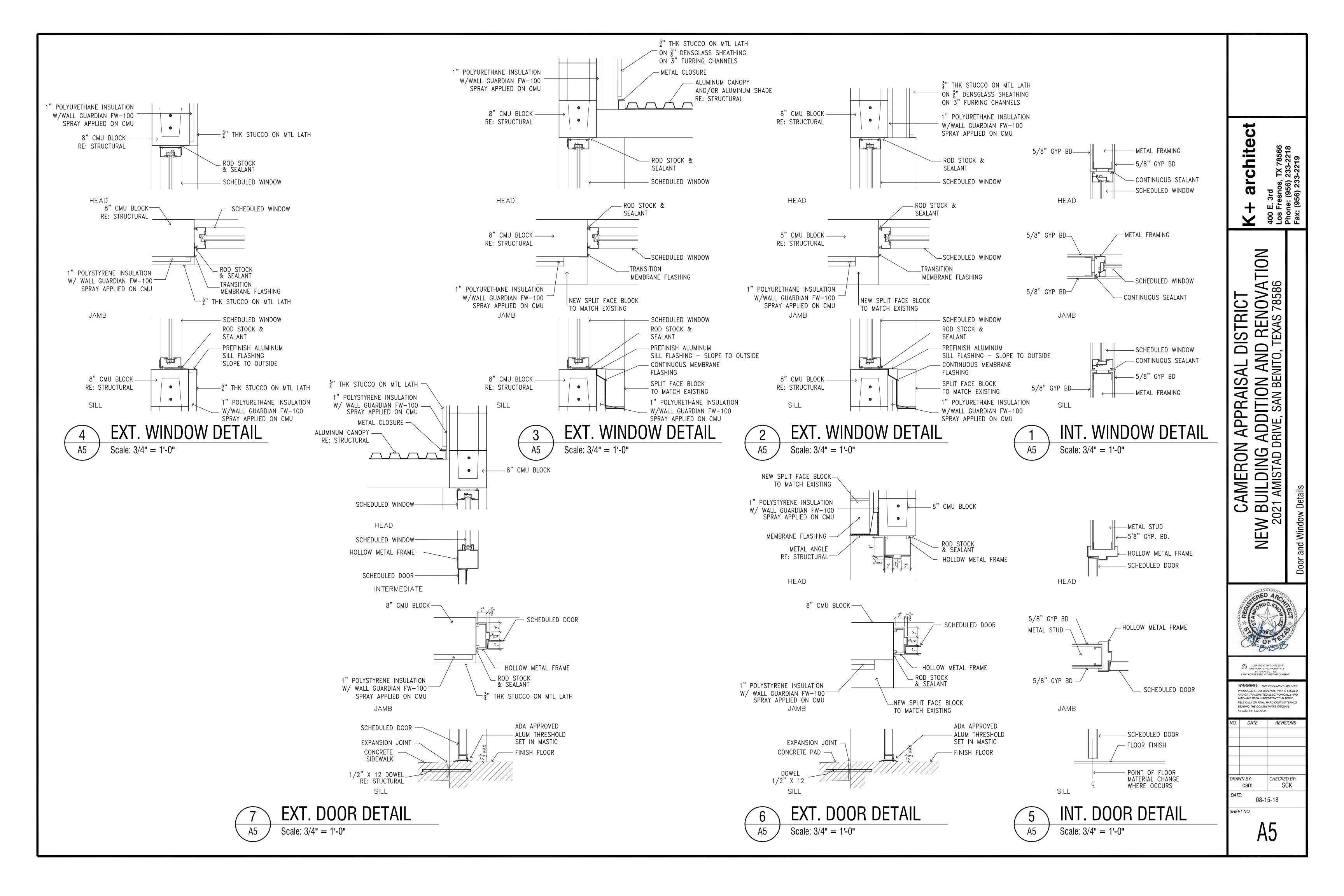
SCHEDULES

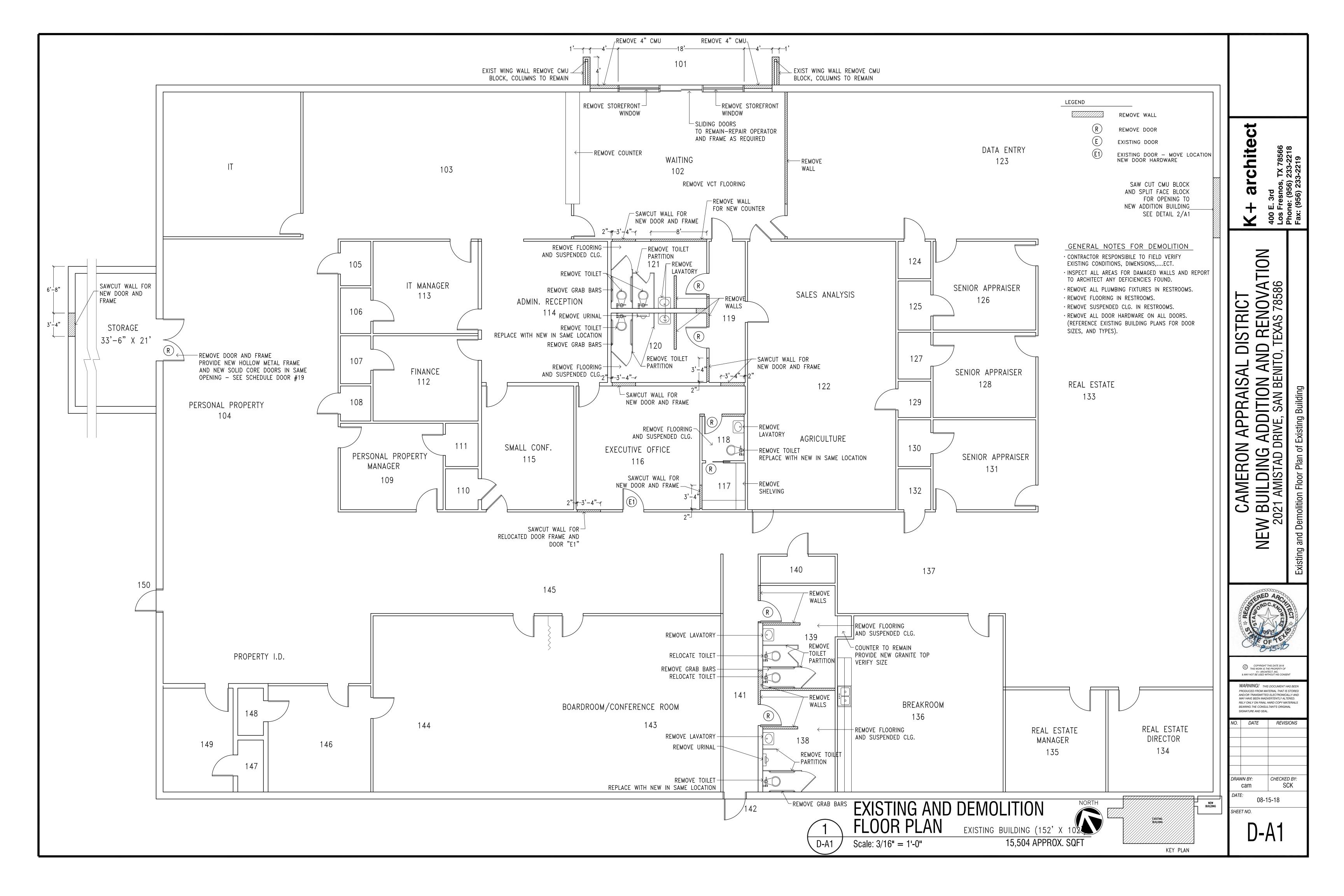
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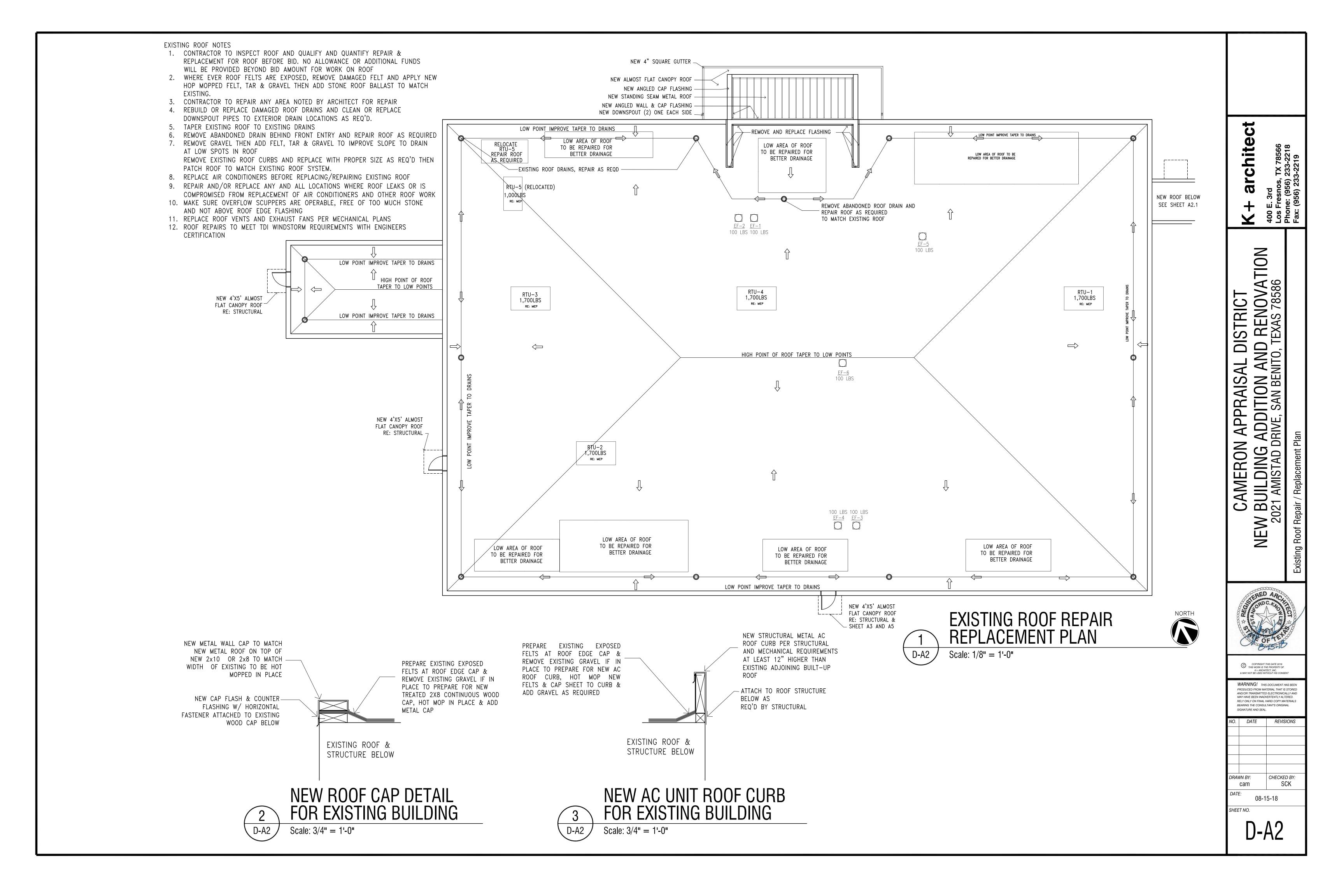
4" METAL STUD WALL

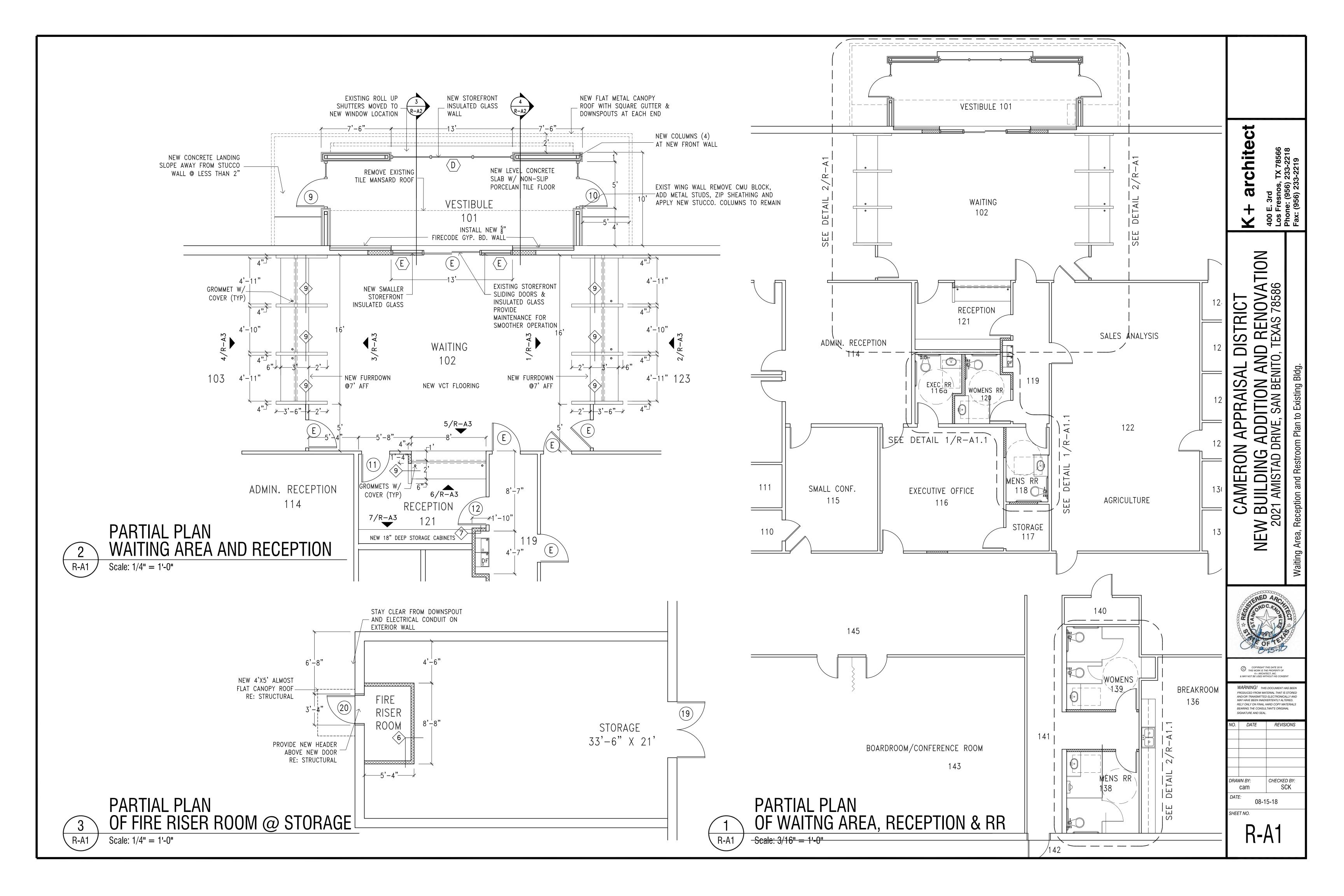
WALL TYPES

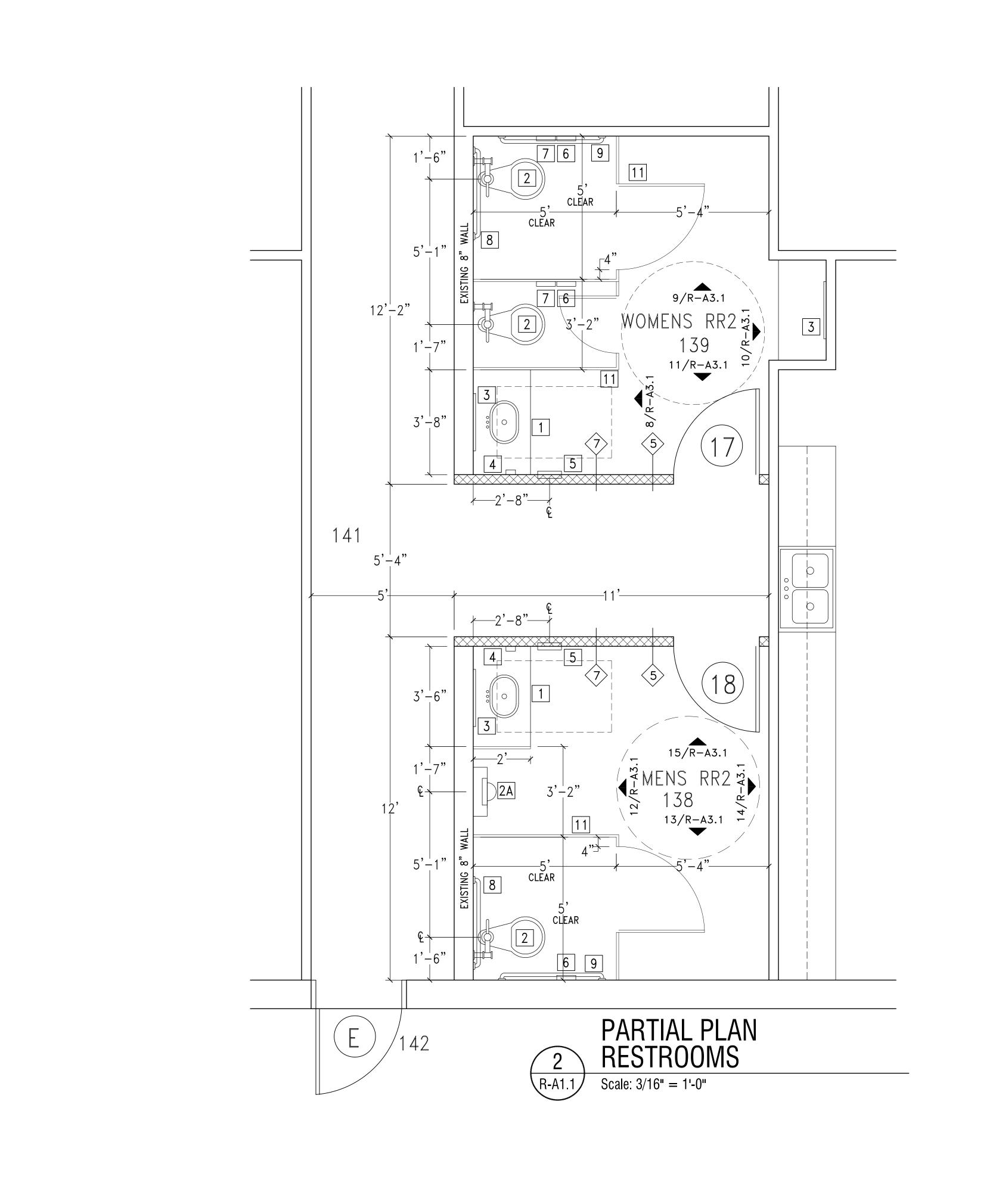
Scale: 3/4" = 1'-0"

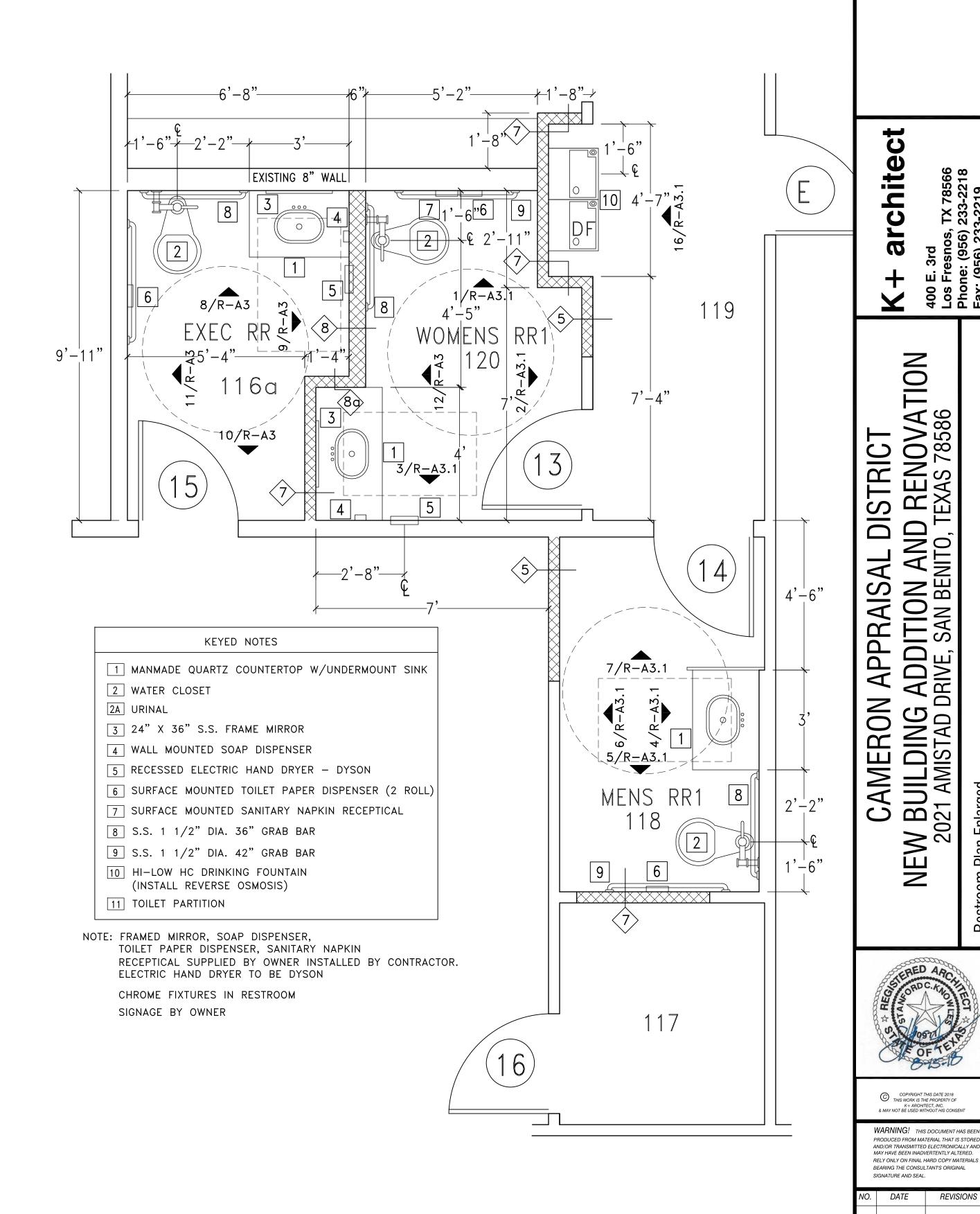














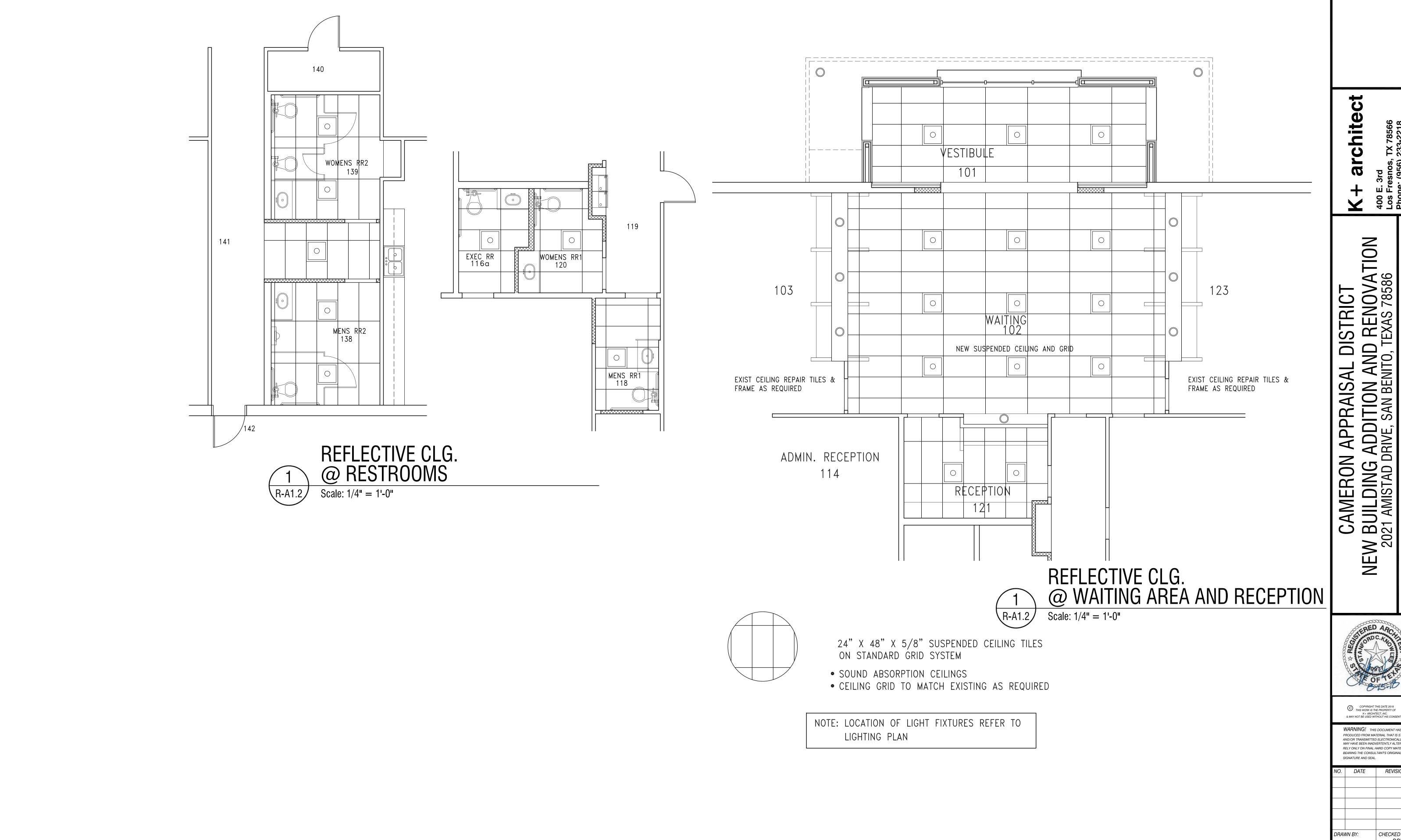
PARTIAL PLAN

R-A1.1

08-15-18

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architect



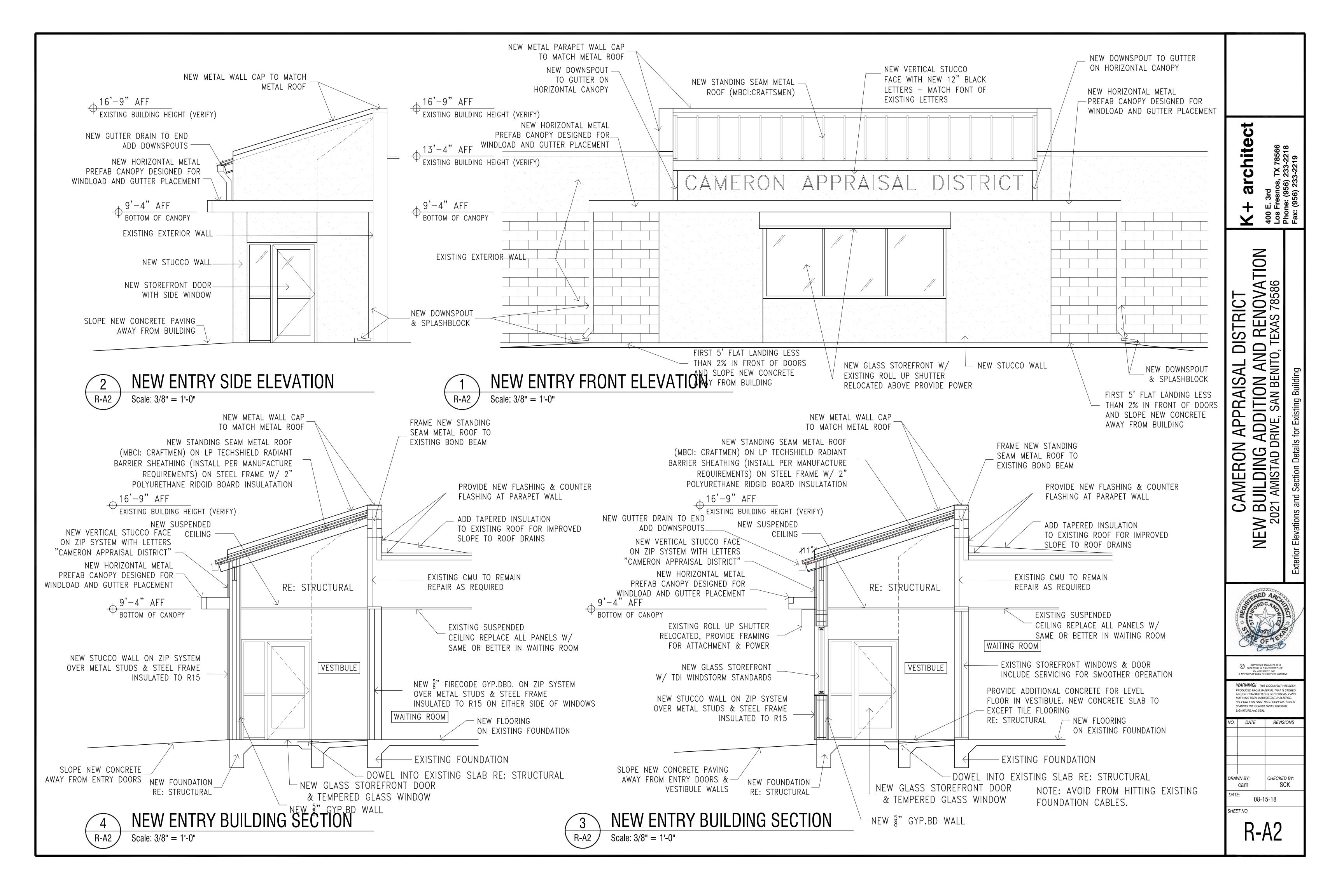
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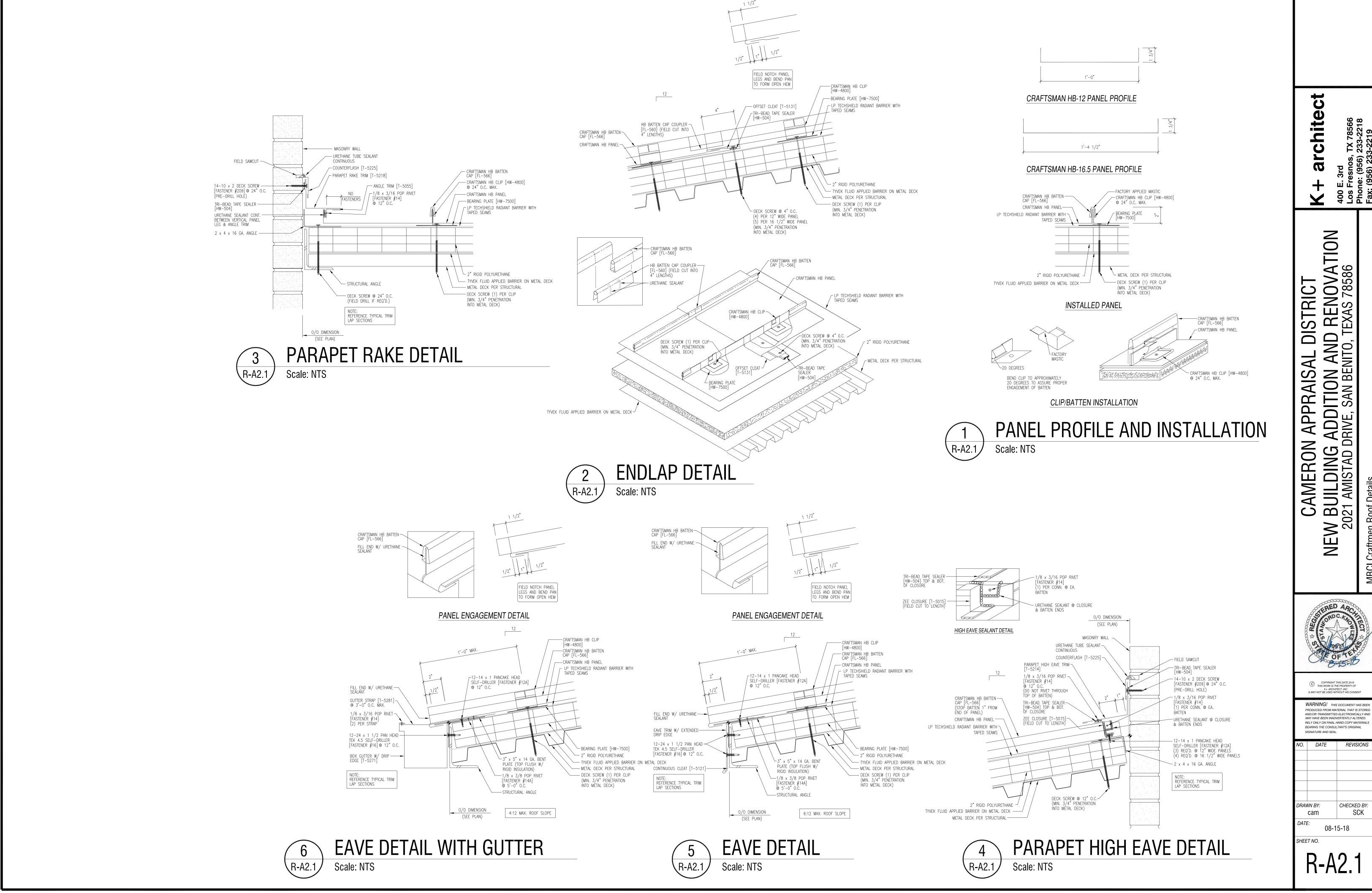
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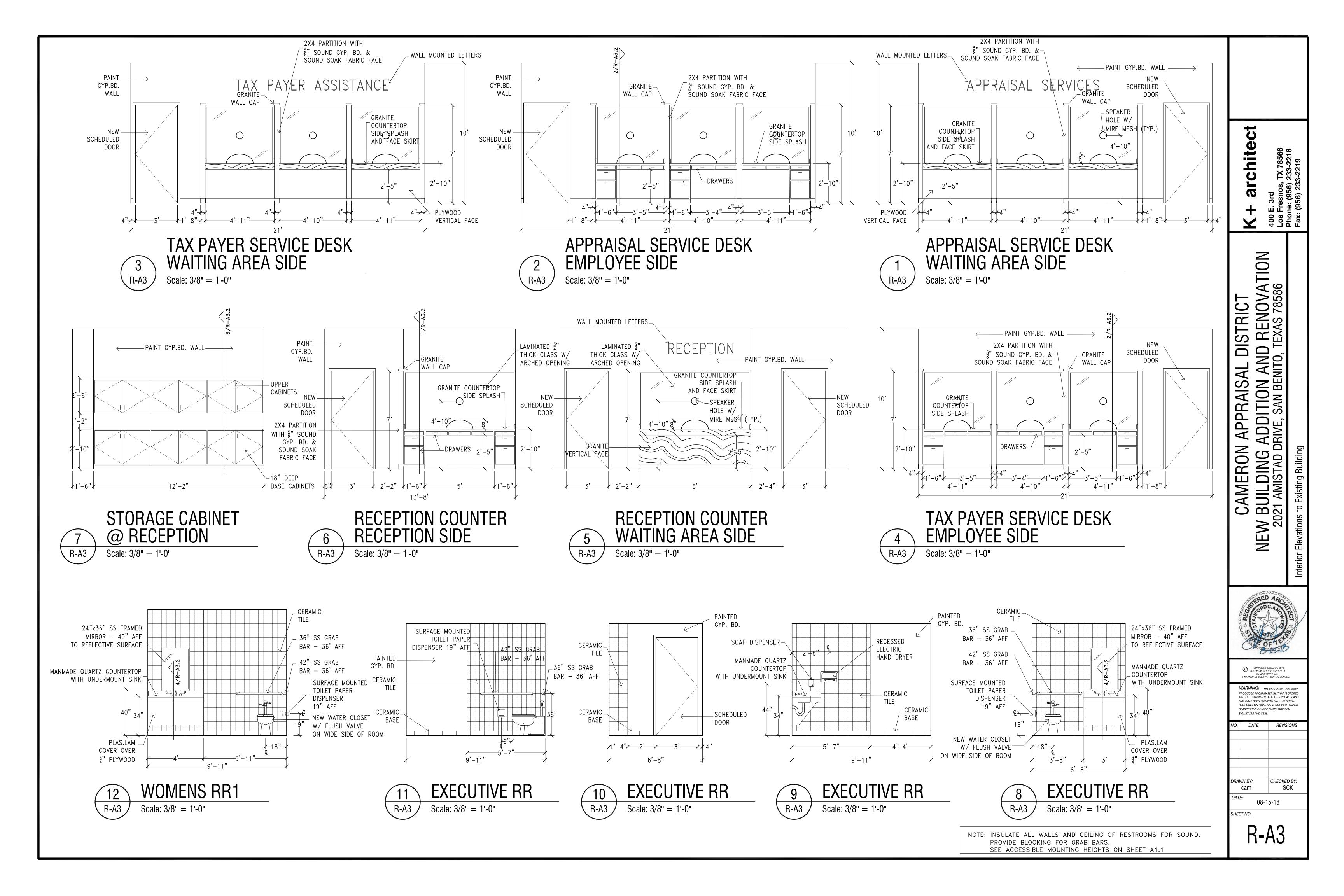
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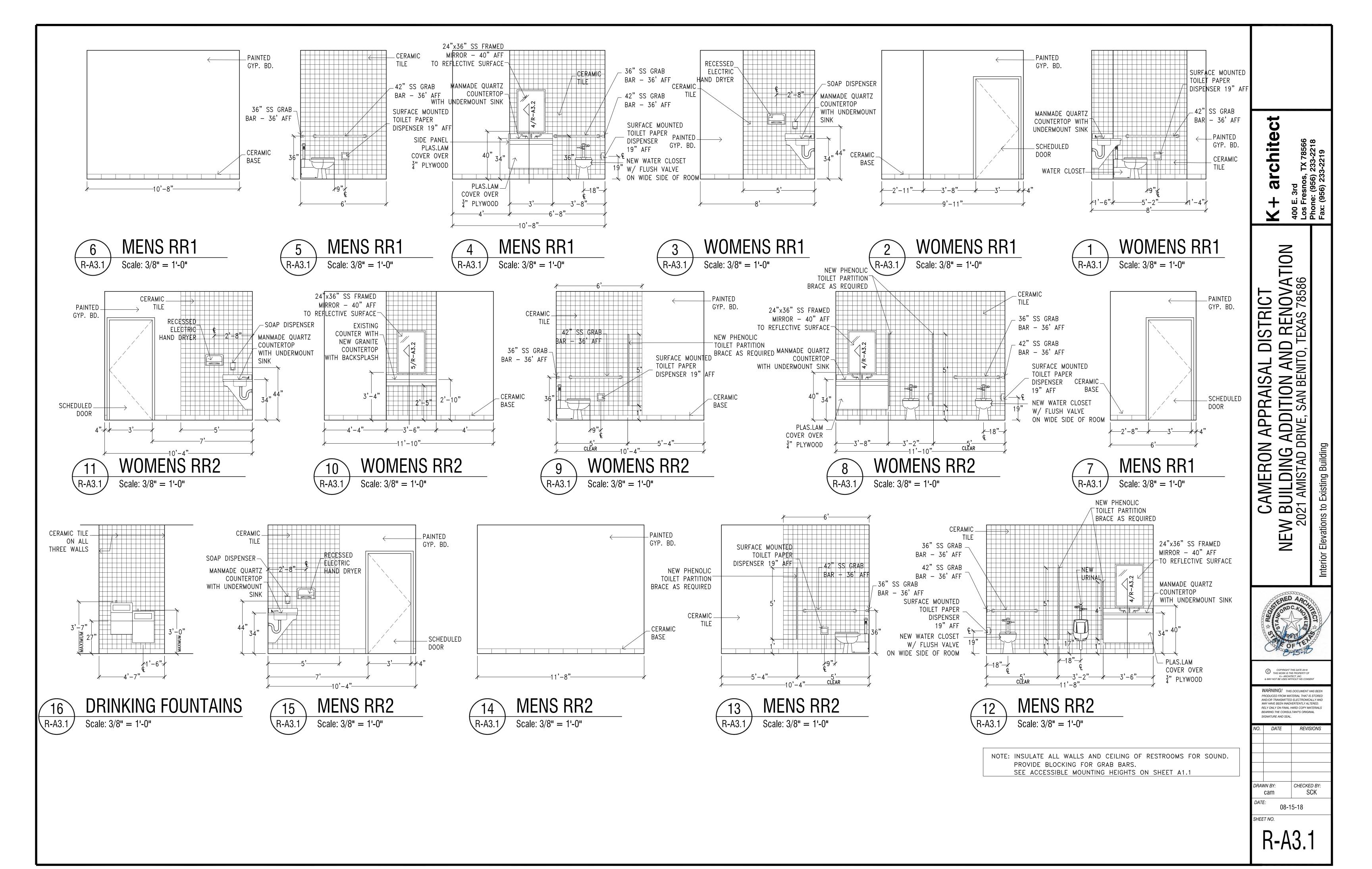
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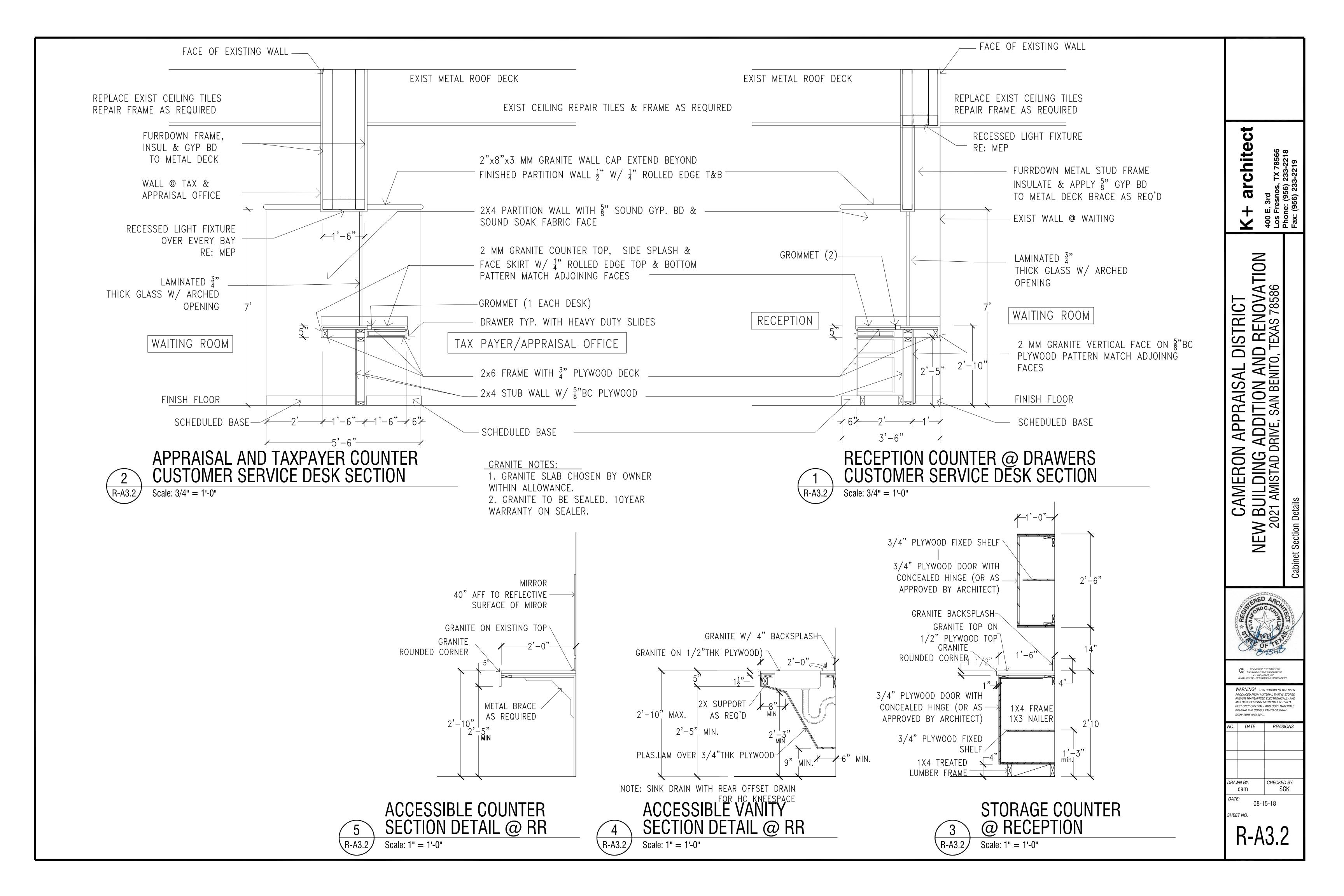


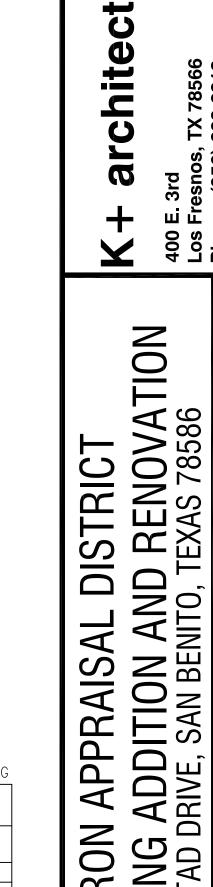


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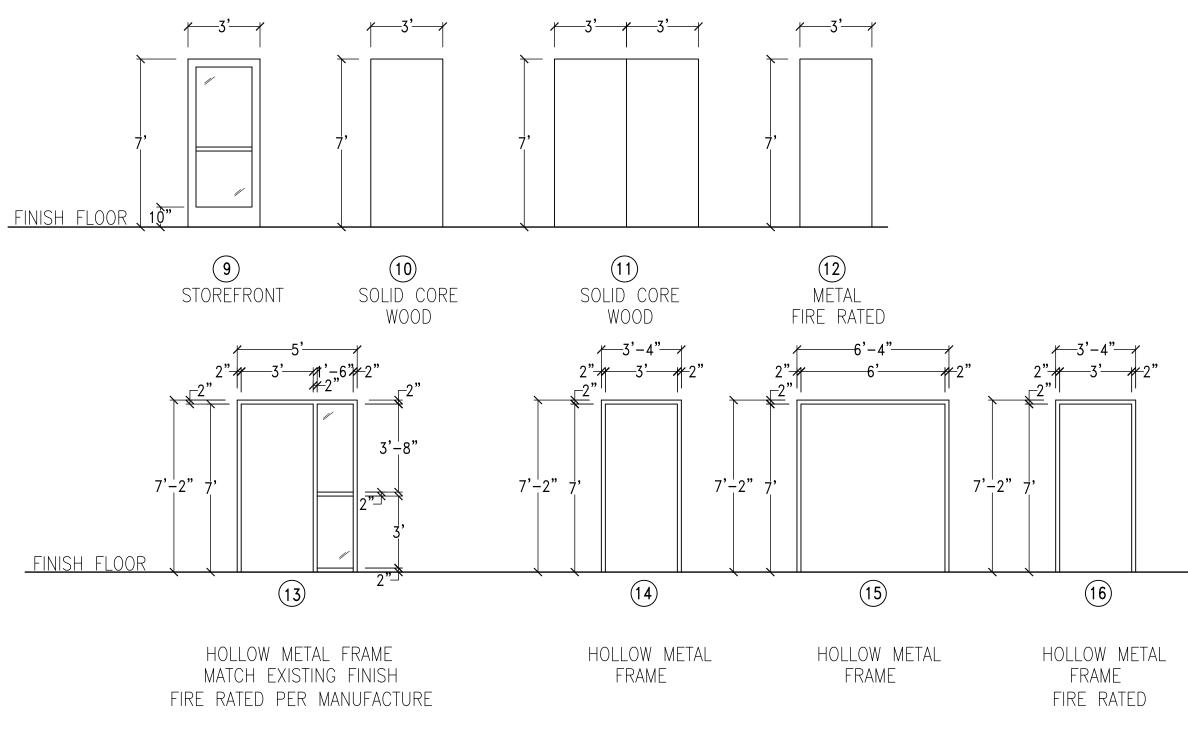
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08-15-18

R-A4



STOREFRONT ALUM FRAME

INSULATED GLASS

MATCH EXISTING FINISH

<u>7'-0"</u>AFF ____

**DOOR FRAMES FINISH AND STYLE TO MATCH EXISTING

	O DOOR SCHEDULE											
DOOR NO.	DOOR SIZE (1 3/4" THK)	DOOR TYPE		FRAME TYPE		REMARKS						
9	3'-0" x 7'-0"	ALUM	9	НМ	13	EXTERIOR STOREFRONT WITH SIDE WINDOW						
10	3'-0" x 7'-0"	ALUM	9	НМ	13	EXTERIOR STOREFRONT WITH SIDE WINDOW						
11	3'-0" x 7'-0"	SC WOOD	10	НМ	14	INTERIOR — KEYED LOCKSET						
12	3'-0" x 7'-0"	SC WOOD	10	НМ	14	INTERIOR - KEYED LOCKSET						
13	3'-0" x 7'-0"	SC WOOD	10	НМ	14	INTERIOR						
14	3'-0" x 7'-0"	SC WOOD	10	НМ	14	INTERIOR						
15	$3'-0" \times 7'-0"$	SC WOOD	10	НМ	14	INTERIOR						
16	3'-0" x 7'-0"	SC WOOD	10	НМ	14	INTERIOR						
17	3'-0" x 7'-0"	SC WOOD	10	НМ	14	INTERIOR						
18	3'-0" x 7'-0"	SC WOOD	10	НМ	14	INTERIOR						
19	2-3'-0" x 7'-0"	SC WOOD	11	НМ	15	INTERIOR - KEYED LOCKSET						
20	3'-0" x 7'-0"	METAL	12	НМ	16	EXTERIOR — KEYED LOCKSET						

EXTERIOR DOORS TO TO MEET TDI WINDSTORM REQUIREMENTS EXTERIOR DOORS TO HAVE WEATHERSTRIP & ADA THRESHOLD PROVIDE TEMPERED GLASS FOR ALL GLASS DOORS AND WINDOWS WITHIN 24" OF DOORS.

DOOR LEGEND

ALUM = ALUMINUMSC WOOD = SOLID CORE WOOD HM = HOLLOW METAL

1. HANDLES, PULLS, LATCHES, LOCKS, AND OTHER OPERATING DEVICES ON DOORS SHALL HAVE A SHAPE THAT IS EASY TO GRASP WITH ONE HAND AND DOES NOT REQUIRE TIGHT GRASPING, TIGHT PINCHING, OR TWISTING OF THE WRIST TO OPERATE. LEVER-OPERATED MECHANISMS, PUSH-TYPE MECHANISMS, AND U-SHAPED HANDLES ARE ACCEPTABLE DESIGNS. HARDWARE REQUIRED FOR ACCESSIBLE DOOR PASSAGE SHALL BE MOUNTED NO HIGHER THAN 48 INCHES ABOVE FINISHED FLOOR

> **COLOR AND FRAME STYLE TO MATCH EXISTING

	\bigvee		OW SCH	HE[DULE
WIN NO.	WINDOW SIZE	QTY.	FRAME TYP.		REMARKS
D	13'-0" x 5'-0"	1	ALUMINUM		INSULATED GLASS — TDI WINDSTORM
Ē	3'-6" x 7'-2"	2	ALUMINUM		STOREFRONT — MATCH EXISTING STOREFRONT SLIDING DOOR ENTRY

									**SIGNAGE ALLOWANCE \$10,000
R	$\cap \cap \mathbb{N}$	1 FIN	NSH	SCL	4FDI	II F			
	. 0 0 10		VI OII			<i>'</i>			
ROOM NAME	BASE		NORTH		SOUTH		CLG	CLG	REMARKS
	MATL	MATL	WALL	WALL	WALL	WALL	MATL	HGT	INLIMANNS
VESTIBULE (101)	POR	POR	W1	W2	W2	W2	SAC	9'-4"	
WAITING AREA (102)	4RB	VCT	W1	W2	W2	W2	SAC	9'-4"	
TAX OFFICE (103)	4RB	VCT	W1	W2	W2	W2	SAC	9'-4"	
EXECUTIVE RR (116a)	CER	CER	W3	W2,W3	W2	W2,W3	SAC	8'-0"	
STORAGE (117)	4RB	VCT	W2	W2	W2	W2	SAC	8'-0"	
MENS RR1 (118)	CER	CER	W2	W2	W3	W2,W3	SAC	9'-4"	
HALL (119)	4RB	VCT	W2	W2	W2	W2	SAC	8'-0"	
WOMENS RR1 (120)	CER	CER	W3	W3	W2,W3	W2	SAC	9'-4"	
RECEPTION (121)	4RB	VCT	W2	W2	W2	W2	SAC	9'-4"	
MENS RR2 (138)	CER	CER	W3	W3	W2,W3	W2	SAC	9'-4"	
WOMENS RR2 (139)	CER	CER	W2,W3	W3	W3	W2,W3	SAC	9'-4"	
HALL (141)	4RB	VCT	W2	W2	W2	W2	SAC	9'-4"	
FIRE SPRINKLER ROOM	4RB	CONC	W2	W2	W2	W2			

WALL MATERIAL

CEILING MATERIAL

INSTALLED BY CONTRACTOR.

W1 = PAINTED CMU BLOCK

**CERAMIC TILE AND PATTERN SUPPLIED BY OWNER

W3 = 4"X4" CERAMIC TILE (TO CLG.)

ON STANDARD GRID SYSTEM

W2 = PAINTED GYP. BD.

BASE MATERIAL

1. EXTERIOR WINDOW TO HAVE FRAME AND GLASS SYSTEM

ATTACHMENT AND SUBMIT FOR APPROVED OF STRUCTURAL

ENGINEER

CLADDING

2"x8"x3 MM GRANITE WALL

APPROVED TDI WINDSTORM INLAND 1 - IMPACT GLASS - VERIFY

2. VERIFY DIMENSIONS ON WINDOW WITH FINISH STRUCTURE AND

4RB = 4" RUBBER CER = 4"X12" CERAMIC TILE TO MATCH FLOOR TILE ROLL TOP EDGE

FLOOR MATERIAL

CER = 12"X12" NON-SKID GROUP 4 COMMERCIAL (\$6.00 INSTALLED ALLOWANCE)

VCT = VINYL COMPOSITE TILE CONC. = SEALED CONCRETE

SCHEDULES Scale: 1/4" = 1'-0"

CAP EXTEND BEYOND FINISHED PARTITION WALL $\frac{1}{2}$ " W/ $\frac{1}{4}$ " ROLLED EDGE T&B §" GYP. BD.− RR RR FIRE RM STORAGE - §" SOUND GYP. BD &
SOUND SOAK FABRIC FACE —R 15 INSULATION _CERAMIC TILE - (TO CLG) _CERAMIC TILE - (TO CLG.) ON BOTH SIDES - §" GYP. BD $-\frac{5}{8}$ " FIRECODE GYP. BD $-\frac{5}{8}$ " DENS-SHEILD " DENS-SHEILD ON BOTH SIDES ON BOTH SIDES ON BOTH SIDES 4" METAL STUD 4" METAL STUD _4" METAL STUD _6" METAL STUD __4" METAL STUD TO ROOF DECK TO ROOF DECK TO ROOF DECK TO ROOF DECK (MATCH EXISTING) SCHEDULED_ _CERAMIC BASE _ SCHEDULED _ SCHEDULED _ SCHEDULED _CERAMIC BASE BASE BASE BASE BASE _FINISH FLOOR _FINISH FLOOR _FINISH FLOOR _FINISH FLOOR _FINISH FLOOR ____0'-0" FF 6 5

<u>FINISH FLOOR</u>

 $\langle D \rangle$

ALUMINUM FRAME

TDI WINDSTORM

LOW-E INSULATED GLASS

4" METAL STUD WALL

DOOR & FRAME TYPES

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

WINDOW TYPES

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

WALL TYPES R-A4 Scale: 3/4" = 1'-0"

DESIGN CRITERIA:

1. THE FOLLOWING SPECIFICATIONS ARE IN MINIMUM REQUIREMENTS AND THEIR APPLICATION. MANUFACTURER SPECIFICATION, SHALL CONTROL. IT IS THE CONTRACTOR'S RESPONSIBILITY TO REVIEW AND SUBMIT ALL SHOP DRAWINGS AND REPORT ALL DOCUMENT DISCREPANCIES TO THE STRUCTURAL ENGINEER PRIOR TO FABRICATION OR

2. AT CONSTRUCTION ISSUE, THESE DRAWINGS REPRESENT STRUCTURAL COMPONENTS IN THEIR FINAL AND FINISHED STATE. CONSTRUCTION PROCEDURES, BRACING, METHODS, SAFETY PRECAUTIONS OR MECHANICAL REQUIREMENTS USED TO ERECT THEM ARE THE SOLE RESPONSIBILITY OF THE GENERAL CONTRACTOR OR SUBCONTRACTOR DOING THE WORK.

3. WIND LOADS ON BUILDING PER ASCE 7-10.

- BUILDING DESIGN CRITERIA BASED ON IBC 2006. BASIC WIND SPEED (3-SECOND GUST)----- 130 MPH, 110 MPH(ASD) WIND IMPORTANCE FACTOR----- Iw = 1.0 WIND EXPOSURE----INTERNAL PRESSURE COEFFICIENT----- + 0.18
 - <u>DESIGN LOADS (PSF)</u> DEAD LOAD

* -ALL DEAD LOADS ARE SUPERIMPOSED LOADS

CONCRETE MASONRY:

1. ALL LOAD BEARING CONCRETE MASONRY SHALL BE IN ACCORDANCE WITH ALL THE REQUIREMENTS OF THE LOCAL BUILDING CODES AND THE NATIONAL CONCRETE MASONRY ASSOCIATION. 2. HOLLOW LOAD BEARING CONCRETE MASONRY UNITS SHALL BE DOMESTIC LIGHTWEIGHT GRADE N UNITS, CONFORMING TO ASTM C-90-75. 3. MASONRY UNITS SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 2500 PSI WHEN TESTED IN ACCORDANCE WITH ASTM C-140, "METHODS OF SAMPLING AND TESTING CONCRETE MASONRY UNITS" (f'm = 1500 PSI). 4. MORTAR FOR MASONRY SHALL BE IN ACCORDANCE WITH ASTM-270 TYPE "S" (1800 PSI COMPRESSIVE STRENGTH AT 28 DAYS). 5. GROUT FOR ALL REINFORCED HOLLOW MASONRY UNIT WALLS SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 3000 PSI (6 SACK MIX) WITH A MAXIMUM 3/8" AGGREGATE.

- 6. REINFORCING STEEL SHALL CONFORM TO ASTM A-615, GRADE 60.
- 7. UNLESS OTHERWISE NOTED, ALL MASONRY WALLS SHALL BE REINFORCED WITH 9 GA., MILL GALVANIZED HORIZONTAL WIRE REINFORCEMENT (TRUSS TYPE) EMBEDDED IN MORTAR JOINTS AT 16"o.c.. NOMINAL WIDTH OF JOINT REINFORCING SHALL EQUAL WALL THICKNESS. WIRE REINFORCEMENT SHALL CONFORM TO ASTM DESIGNATION A-82, AND SHALL BE LAPPED AT LEAST 6" WITH AT LEAST ON CROSS WIRE WITHIN THE LAP. JOINT REINFORCING SHALL BE INSTALLED IN THE FIRST AND SECOND MORTAR BED JOINTS IMMEDIATELY ABOVE AND BELOW ALL OPENINGS.
- 8. UNLESS NOTED OTHERWISE ON PLANS, ONE GROUTED #5 BAR SHALL BE PROVIDED AROUND THE PERIMETER OF ALL WALL OPENINGS.
- 9. BOND BEAMS SHALL BE REINFORCED WITH ONE CONTINUOUS #5 BAR. REINFORCING SHALL BE CONTINUOUS AT ALL CORNERS AND INTERSECTING WALLS. 10. CONTROL JOINTS SHALL BE CONSTRUCTED WITH SLOTTED MASONRY UNITS AND FACTORY MOLDED JOINT FILLER. JOINTS SHALL BE CAULKED WITH AN APPROVED MATERIAL.
- 11. CONTROL JOINTS SHALL NOT EXTEND THROUGH BOND BEAMS UNLESS INDICATED ON PLANS. 12. ALL PERIMETER EXTERIOR CMU WALLS SHALL BE REINFORCED WITH VERT. #5's GROUTED SOLID AT THE SPACING INDICATED ON DETAILS AND HORIZONTAL BOND BEAMS REINFORCED w/1—CONT. #5. BOND BEAMS SHALL BE LOCATED VERTICALLY AT 8'—0" o.c. AND AT TOP OF WALL.

STRUCTURAL STEEL NOTES:

1. ALL STRUCTURAL STEEL SHALL CONFORM TO THE ASTM SPECIFICATION A992 UNLESS OTHERWISE SHOWN OR NOTED.

- 2. ALL STRUCTURAL STEEL PIPING SHALL CONFORM TO ASTM SPECIFICATION A-501.
- 3. ALL STRUCTURAL STEEL SHALL BE DESIGNED, FABRICATED AND ERECTED IN ACCORDANCE WITH THE LATEST SPECIFICATIONS OF THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION AND THE STEEL JOIST INSTITUTE. STEEL JOISTS SHALL BE DESIGNED AND FABRICATED BY A MEMBER OF THE STEEL JOIST CONTRACTOR SHALL PROVIDE WRITTEN CERTIFICATE OF FABRICATOR'S MEMBERSHIP TO THE STEEL JOIST INSTITUTE AT TIME OF SHOP DRAWING SUBMITTAL.
- 5. ALL STRUCTURAL BOLTS SHALL CONFORM TO ASTM A-325 UNLESS OTHERWISE SHOWN.
- 6. REFER TO ARCHITECTURAL AND MECHANICAL PLANS FOR VERIFICATION OF ALL BOLTS, BLOCKING ANCHORS, ETC., FOR THE ANCHORAGE OF THEIR RESPECTIVE ITEMS, OR NOTED. 7. ALL BEAMS AND COLUMNS SHALL BE FULL LENGTH WITHOUT SPLICES UNLESS OTHERWISE INDICATED ON
- 8. ALL SHOP AND FIELD WELDS SHALL BE MADE BY WELDERS WHO HAVE BEEN QUALIFIED AND CERTIFIED TO MAKE THE REQUIRED WELDS WITHIN THE PREVIOUS SIX MONTHS IN ACCORDANCE WITH THE LATEST AMERICAN WELDING SOCIETY SPECIFICATIONS.
- 9. ERECTION CONNECTORS SHALL BE PROVIDED IN ORDER TO PROPERLY ALIGN AND BE TRUE AND PLUMB WHEN 10. JOIST MANUFACTURER SHALL PROVIDE BRIDGING AS REQUIRED TO ADEQUATELY BRACE JOISTS AS REQUIRED BY THE STEEL JOIST INSTITUTE. (A.W.S. D-1.1). 11. SHOP DRAWINGS SHALL BE PREPARED FOR ALL STRUCTURAL STEEL AND SUBMITTED FOR REVIEW BY ENGINEER. ENGINEERING DRAWINGS SHALL NOT BE REPRODUCED AND USED AS SHOP DRAWINGS.
- 12. ALL COMPLETE PENETRATION WELDS, BOTH SHOP AND FIELD, SHALL BE MADE UNDER THE OBSERVATION OF A QUALIFIED TESTING LABORATORY INSPECTOR. 13. THE FABRICATOR SHALL SUPPLY BACKUP PLATES AND EXTENSION TABS FOR ALL COMPLETE PENETRATION
- 14. ANY WELDS FOUND DEFECTIVE SHALL BE REMOVED AND REPLACED AT NO ADDITIONAL COST TO THE OWNER. 15. ALL WELDS TO BE X-RAYED SHALL BE GROUND SMOOTH.

FOUNDATION NOTES:

1. REMOVE MINIMUM TOP 12 INCHES OF EXISTING SOIL UNDER NEW SLABS TO A POINT 5 FEET BEYOND NEW CONSTRUCTION. CUT MAY BE DEEPER IF GRASS AND TREE ROOTS ARE PRESENT. 2. SUBGRADE AREAS SHALL BE SCARIFIED TO A MIN. DEPTH OF 6", TO FORM A 6" DEEP STABILIZED SUBGRADE. STABILIZATION SHALL BE EXTENDED TO 5'-0" BEYOND BUILDING SLAB LINES AND 1'-0" BEYOND CURBS AND PAVING LINES. MOISTURE CONTROL PROCEDURES AT 3% + OF OPTIMUM MOISTURE SHALL BE USED FOR ALL FILL OPERATIONS. AREA SHALL BE THEN COMPACTED TO A DENSITY AT OPTIMUM MOISTURE AS DETERMINED BY ASTM METHOD. SUBGRADE SHALL CONFORM TO THE LINES, GRADES, AND TYP. SECTIONS INDICATED ON THE DRAWINGS AND SHALL ALLOW FULL THICKNESS FOR SLAB AND PAVING BASE AND FOR SURFACE DRAINAGE. 3. STOCKPILE REMOVED SOIL ON SITE AND REUSE FOR FILL OUTSIDE BUILDING PERIMETER & PAVING INSTALL 18" OF NON-EXPANSIVE SELECT FILL AT BUILDING AREA (P.I. 5-17, LL<40) IN MAX. 8" LOOSE LIFTS. 4. COMPACT SELECT FILL TO 90% OF MAXIMUM DRY DENSITY PER ASTM D698. -COMPACTED FILL SHALL EXTEND BEYOND FOUNDATION A MIN. OF 5'-SLOPE AWAY FROM BUILDING SHALL BE A MIN. OF 1:4. 5. IBC R801.3 ROOF DRAINAGE. IN AREAS WHERE EXPANSIVE OR COLLAPSIBLE SOILS ARE KNOWN TO EXIST, ALL DWELLINGS SHALL HAVE A CONTROLLED METHOD OF WATER DISPOSAL FROM ROOFS THAT WILL COLLECT AND DISCHARGE ROOF DRAINAGE TO THE GROUND SURFACE AT LEAST 5 FEET (1524 MM) FROM FOUNDATION WALLS OR TO AN APPROVED DRAINAGE SYSTEM. 6. PROVIDE #5 DOWELS AT 18" O.C. MIN TO ADJACENT CONCRETE CONSTRUCTION (POURED SEPARATELY). 6 MIL AS PER 2006 IBC WATERPROOFING MEMBRANE UNDER: BUILDING SLAB AND ALL AREAS WERE CONCRETE SLAB IS COVERED BY CERAMIC TILE OR OTHER DECORATIVE APPLIED SURFACING. LAP JOINTS BETWEEN SHEETS OF POLY

7. IT IS RECOMMENDED THAT THE OWNER EMPLOY AN INDEPENDENT TESTING LAB TO VERIFY COMPACTION OF SOIL WHERE REQUIRED AT 1 DENSITY TEST PER EACH 3000 SF.

ROOF FRAMING:

1. ALL WOOD STRUCTURAL FRAMING WILL BE DONE IN ACCORDANCE WITH ALL APPLICABLE CODES AND LOCAL ORDINANCES. IRC AND IBC 2006 AND TDI REVISIONS TO IBC 2006..

- 2. JOIST ARE SPACED AT 24" O.C., UNLESS OTHERWISE NOTED. AS PER SPAN TABLE.
- 3. RAFTERS ARE SPACED AT 24" O.C., UNLESS OTHERWISE NOTED. AS PER SPAN TABLE.
- 4. JOIST AND RAFTERS ARE 2"X6" OR AS NOTED. RIDGE 2"X8", VALLEY AND HIPS ARE 2"X8" OR AS NOTED. 5. R802.3.1 CEILING JOIST SHALL BE CONTINUOUS OR SECURELY JOINED WHERE THEY MEET OVER INTERIOR PARTITIONS AND NAILED TO ADJACENT RAFTERS TO PROVIDE A CONTINUOUS TIE ACROSS THE BUILDING WHEN SUCH JOIST ARE PARALLEL TO THE RAFTERS.
- 6. ALL BRACES ARE SUPPORTED ON LOAD BEARING WALLS OR LOAD BEARING BEAM. DO NOT BRACE SUPPORTS ON STUB JOIST OR BOX CEILING JOIST. A PURLIN SYSTEM IS NOT REQUIRED IF RAFTER SPAN TABLE IS

7. ROOF DECK WILL BE MINIMUM 7/16" STRUCTURAL WOOD PANELS ATTACHED WITH 8D CORROSION RESISTANT NAILS PER NAILING PATTERN OF 4" O.C. EDGES AND 6" O.C. FIELD. UNLESS OTHERWISE NOTED.

JOINT DESCF	# ' RIPTION CO	MMON NAILS	# OF BOX NAILS	NAIL SPACINO		
		ROOF FRAMIN				
RAFTER TO TOP PLATE (TOE-N	All FD)	5	5	PER RAFTER		
CEILING JOIST TO TOP PLATE (,	5	5	PER JOIST		
CEILING JOIST TO PARALLEL RA	,	9-16d	9-16d	EACH LAP		
CEILING JOIST LAPS OVER PART	,	9-16d	9-16d	EACH LAP		
COLLAR TIE TO RAFTER (FACE-	,	5-8D	5-8D	PER TIE		
BLOCKING TO RAFTER (TOE-NA	,	2-8D	2-10D	EACH END		
RIM BOARD TO RAFTER (END-N	,	2-16D	3-16D	EACH END		
(, , , , , , , , , , , , , , , , , , , ,	WALL FRAMIIN	JG	<u> </u>		
TOP PLATE TO TOP PLATE (FAC		2-16D	2-16D	PER FOOT		
· · · · · · · · · · · · · · · · · · ·		4-16D	5-16D	JOINTS EACH SI		
TOP PLATE AT INTERSECTIONS	(FACE-NAILED)	2-16d	2-16d	24" O.C.		
STUD TO STUD (FACE-NAILED)	I ED)	16d	16d	16"O.C. ALONG ED		
HEADER TO HEADER (FACE-NAI		3-16D	3-16D	PER STUD		
TOP OR BOTTOM PLATE TO STU	` ′	2-16d	2-16d	PER FOOT		
BOTTOM PLATE TO FLOOR JOIST ENDJOIST OR BLOCKING (FACE—		2-10u	2-100	T LIX T OUT		
		FLOOR FRAMI	NG			
JOIST TO SILL, TOP PLATE OF	GIRDER (TOE-NAILED)	4-8D	4-10D	PER JOIST		
BRIDGING TO JOIST (TOE-NAILE	,	2-8D	2-10D	EACH END		
BLOCKING TO JOIST (TOE-NAIILI	,	2-8D	2-10D	EACH END		
BLOCKING TO SILL OR TOP PLA	,	3-16D	4-16D	EACH BLOCK		
LEDGER STRIP TO BEAM (FACE-	` ′	3-16D	4-16D	EACH JOIST		
JOIST ON LEDGER TO BEAM (FA	ŕ	3-8D	3-10D	PER JOIST		
BAND JOIST TO JOIST (END-NA	,	3-16D	4-16D	PER JOIST		
BAND JOIST TO SILL OR TOP PI	,	2-16D	3-16D	PER FOOT		
		ROOF SHEATH	HING			
STRUCTURAL PANELS		8D	10D	EDGES 4" FIELD		
DIAGONAL BOARD SHEATHING	1"X6" OR 1"X8"	2-8D	2-10D	PER SUPPORT		
	1"X10" OR WIDER	3-8D	3-10D	PER SUPPORT		
		CEILING SHEA	ATHING	,		
GYPSUM WALLBOARD		5D COOLERS	5D COOLERS	EDGES 7" FIELD		
OTT SOM WALLBOARD		WALL SHEATH				
		8D	10D	EDGES 6" FIELD		
STRUCTURAL PANELS	7/16"	6D		EDGES 3" FIELD		
FIBERBOARD PANELS	25/32"	8D	_	EDGES 3" FIELD		
CVDCIIM WALL DOADD	20/ 02	5D COOLERS	 5D COOLERS	EDGES 7" FIELD		
GYPSUM WALLBOARD		8D	8D	3- PER SUPPORT		
HARDBOARD PARTICLE BOARD PANELS		8D	8D	SEE MANUFACTUR		
DIAGONAL BOARD SHEATHING	1"X6" OR 1"X8"	2-8D	2-10D	PER SUPPORT		
DIAGONAL BOAND SHEATHING	1"X10" OR WIDER	3-8D	3-10D	PER SUPPORT		
I		FLOOR SHEAT		1 210 0011 0101		
CTDUCTUDAL DANS! C	1" OR LESS	8D	10D	6" EDGES 12" FI		
STRUCTURAL PANELS	GREATER THAN 1"	10D	16D	6" EDGES 6" FIEI		
DIACONAL BOARD CHEATHING	1"X6" OR 1"X8"	2-8D	2-10D	PER SUPPORT		
DIAGONAL BOARD SHEATHING	1"X10" OR WIDER	2-8D 3-8D	2-10D 3-10D	PER SUPPORT		
				LL SHEATHING IS NAILED 3"		

CORROSION RESISTANT 11 GAGE ROOFING NAILS AND 16 GAGE STAPLES ARE PERMITTED, CHECK IBC FOR ADDITIONAL REQUIREMENTS.

COMPONENTS AND CLADDING REQUIREMENTS

1. ALL EXTERIOR WINDOWS AND GLASS DOORS SHALL MEET THE REQUIREMENTS OF 2006 IBC SECTION R613. 2. EXTERIOR DOORS AND WINDOWS SHALL BE DESIGNED TO RESIST THE DESIGN WIND LOADS SPECIFIED IN TABLE R301.2(2) AND ADJUSTED FOR HEIGHT AND EXPOSURE PER TABLE R301.2(3).

3. ALL EXTERIOR WINDOWS AND SLIDING GLASS DOORS SHALL BEAR A LABEL IDENTIFYING THE MANUFACTURER PERFORMANCE CHARACTERISTICS AND APPROVED INSPECTION AGENCY TO INDICATE COMPLIANCE WITH AAMA/WDMA/CSA 101/I.S.2/A440.

4. EXTERIOR SIDE—HINGED DOORS SHALL BE LABELED AS CONFORMING TO AAMA/WDMA/CSA 101/I.S.2/A440 OR COMPLY WITH SECTION R613.6 OF 2006 IBC. 5. PROTECTION OF EXTERIOR WINDOWS AND GLASS DOORS IN STRUCTURES LOCATED IN WIND-BORNE DEBRIS REGION SHALL BE IN ACCORDANCE WITH SECTION R301.2.1.2 OF 2006 IBC.

6. ALL EXTERIOR WINDOWS, DOORS AND EXTERIOR ENCLOSURES MUST HAVE PRODUCT EVALUATION ACCEPTABLE TO TDI AND MUST BE INSTALLED AS PER PRODUCT EVALUATION PROVISIONS. WINDOWS AND DOORS SHALL HAVE THE AAMA LABEL AND A MIN. PSF RATING AS SHOWN BELOW. 7. ROOF COVERING MUST HAVE PRODUCT EVALUATION ACCEPTABLE TO TDI FOR DESIGN PRESSURES PROVIDED AND MUST BE INSTALLED PER PRODUCT EVALUATION PROVISIONS.

BASIC WINDSPEED (MPH-3-SECOND GUST)

-20.5

-19.9 -36.5

-32.6

) -27.5

) -23.6

-55.0

0 -45.5

0 -33.1

(FEET2)

100

ROOF 10>30° 2 100 10.0 -29.1 10.5 -34.7 12.4 -40.7

ROOF 10>30° 3 10 12.5 -42.1 14.9 -50.1 17.5 -58.7 ROOF 10>30° 3 20 11.4 -38.2 13.6 -45.4 16.0 -53.3

ROOF 10>30° 3 50 10.0 -33.0 11.9 -39.3 13.9 -46.1

ROOF 10>30° 3 100 10.0 -29.1 10.5 -34.7 12.4 -40.7

ROOF 30>45° 1 10 19.9 -21.8 23.7 -25.9 27.8 -30.4

ROOF 30>45° 1 20 19.4 -20.7 23.0 -24.6 27.0 -28.9

ROOF 30>45° 1 50 18.6 -19.2 22.2 -22.8 26.0 -25.8

ROOF 30>45° 1 100 18.1 -18.1 21.5 -21.5 25.2 -25.2

ROOF 30>45° 2 10 19.9 -25.5 23.7 -30.3 27.8 -35.6

ROOF 30>45° 2 50 18.6 -22.9 22.2 -27.2 26.0 -32.0

ROOF 30>45° 2 100 18.1 -21.8 21.5 -25.9 25.2 -30.4 ROOF 30>45° 3 10 19.9 -25.5 23.7 -30.3 27.8 -35.6

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2	1	2	2	1)	2	
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ROOF PITCH | ZONE | WIND AREA |

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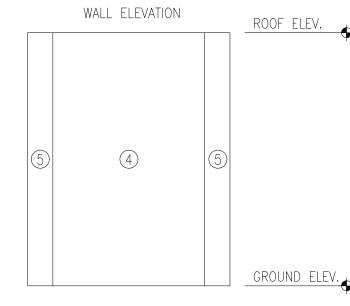
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5 -25.9 12.4 -30.4 0 -25.2 11.6 -29.6

.0 -24.4 10.6 -28.6 0.0 -23.7 10.0 -27.8

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18.5 | -22.6 | 22.0 | -26.9 | 25.9 | -31.6

0.8 | -27.2 | 24.7 | -32.4 | 29.0 | -38.0

10 | 12.5 | -42.1 | 14.9 | -50.1 | 17.5 | -58.7

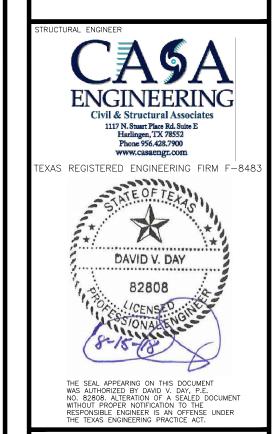
20 | 11.4 | -38.2 | 13.6 | -45.4 | 16.0 | -53.3

TABLE R301.2(3)								
MEAN -	EXPOSURE							
ROOF HEIGHT	В	С	D					
15	1.00	1.21	1.47					
20	1.00	1.29	1.55					
25	1.00	1.35	1.61					
30	1.00	1.40	1.66					
35	1.05	1.45	1.70					
40	1.09	1.49	1.74					
45	1.12	1.53	1.78					
50	1.16	1.56	1.81					
55	1.19	1.59	1.84					
60	1.22	1.62	1.87					

TABLE R301.2(3)									
A IT A N I		EXPOSURE							
MEAN ROOF HEIGHT	В	С	D						
15	1.00	1.21	1.47						
20	1.00	1.29	1.55						
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60	1.22	1.62	1.87						

CAMERON COUNTY APPRAISAL DISTRICT

2021 AMISTAD DR. SAN BENITO, TX 78586



.O GENERAL NOTES .O FOUNDATION PLAN S3.0 FOUNDATION DETAILS S4.0 PROP. ADD. FRAMING PLAN S4.1 DEMOLITION FRAMING PLAN S4.2 PROPOSED FRAMING PLAN S5.0 ROOF PLAN S6.0 STRUCTURAL DETAILS S6.1 STRUCTURAL DETAILS

183081-01 08-15-2018 MP

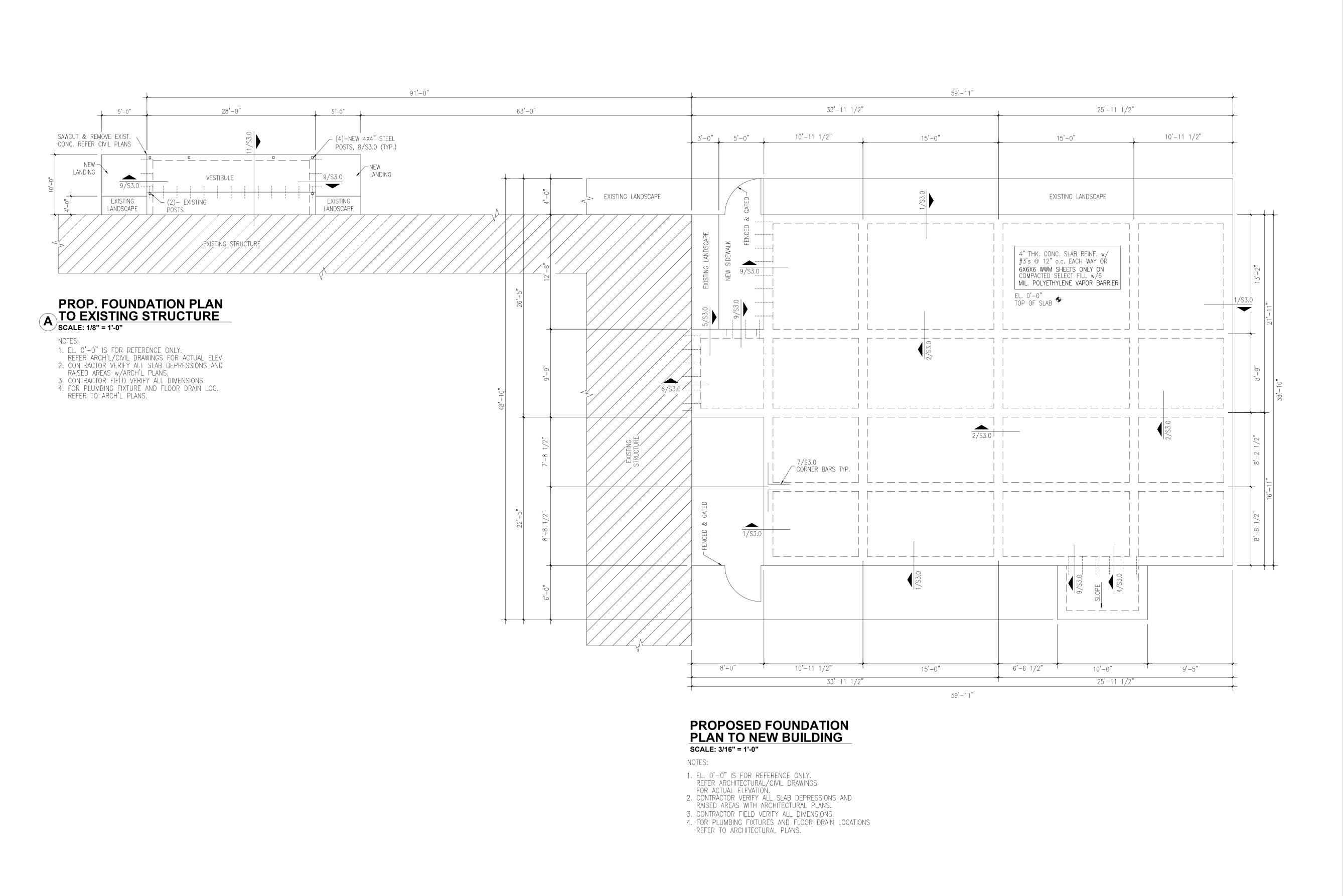
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GENERAL NOTES

of **9 S1.0**

BUILDING COMPONENTS AND CLADDING PRESSURES

IBC 2006 TABLE R301.2(2): BUILDING COMPONENTS AND CLADDING PRESSURES SHOWN ARE FOR THE EXPOSURE (B). IF HOME IS BUILT IN EXPOSURE (C) OR (D). REFER TO TABLE R301.2(3) FOR HEIGHT AND EXPOSURE ADJUSTMENT COEFFICIENTS.



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Harlingen, T.X. 7855.2
Phone 956.428.7900
www.casaengr.com

TEXAS REGISTERED ENGINEERING FIRM F-84

DAVID V. DAY

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SHEETS

\$1.0 GENERAL NOTES
\$2.0 FOUNDATION PLAN
\$3.0 FOUNDATION DETAILS
\$4.0 PROP. ADD. FRAMING PLAN
\$4.1 DEMOLITION FRAMING PLAN
\$4.2 PROPOSED FRAMING PLAN
\$5.0 ROOF PLAN
\$6.0 STRUCTURAL DETAILS
\$6.1 STRUCTURAL DETAILS

 REVISION
 DESCRIPTION

 PROJECT NO.
 183081-01

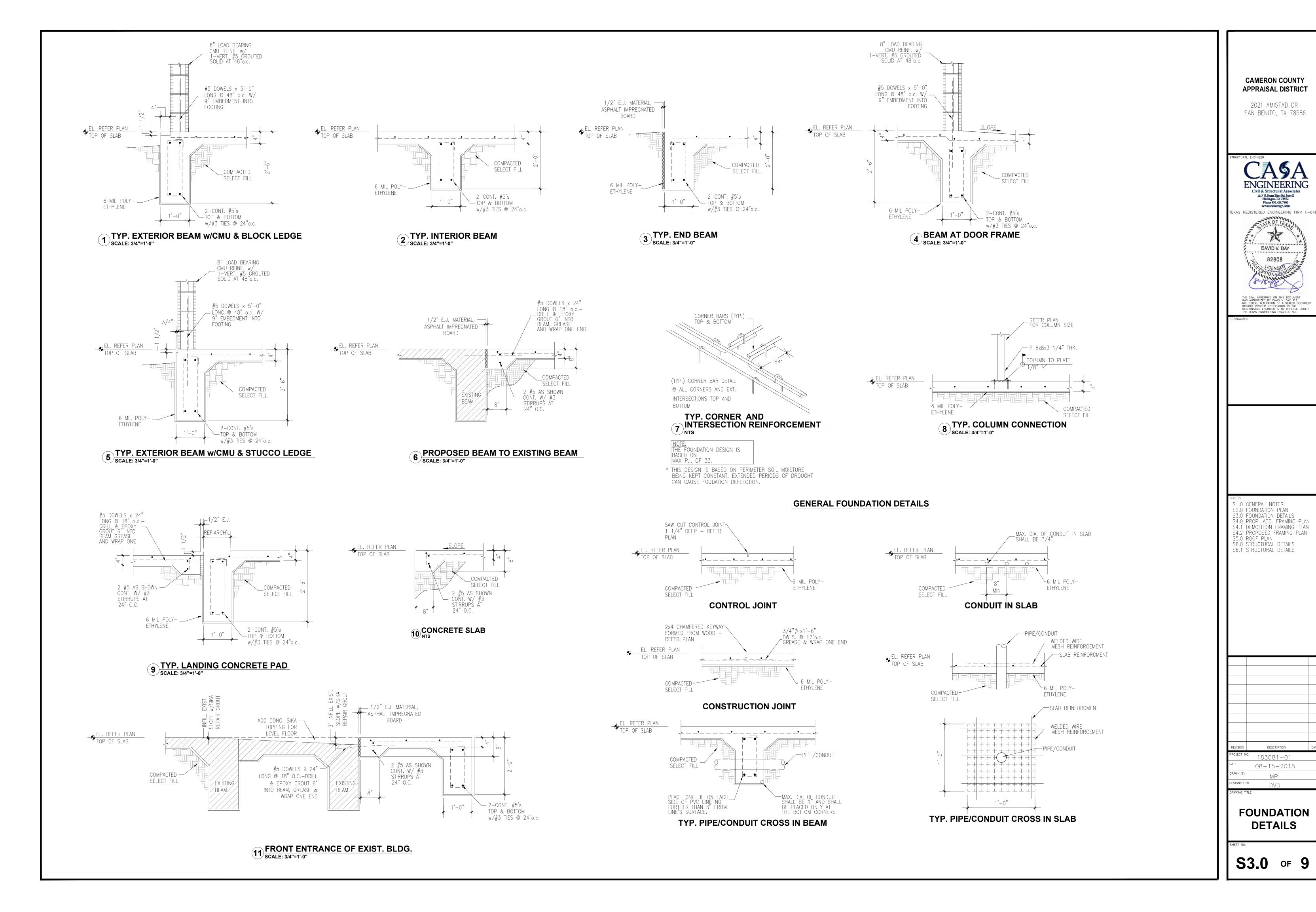
 DATE
 08-15-2018

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DRAWING TITLE

FOUNDATION PLAN

S2.0 of **9**





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www.casaengr.com

TEXAS REGISTERED ENGINEERING FIRM F-8483

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DAVID V. DAY

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\$3.0 FOUNDATION DETAILS
\$4.0 PROP. ADD. FRAMING PLAN
\$4.1 DEMOLITION FRAMING PLAN
\$4.2 PROPOSED FRAMING PLAN
\$5.0 ROOF PLAN
\$6.0 STRUCTURAL DETAILS
\$6.1 STRUCTURAL DETAILS

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 DESCRIPTION

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PROP. FRAMING
PLAN OF NEW
BUILDING

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S4.0 of **9**



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SHEETS
S1.0 GENERAL NOTES
S2.0 FOUNDATION PLAN
S3.0 FOUNDATION DETAILS
S4.0 PROP. ADD. FRAMING PLAN
S4.1 DEMOLITION FRAMING PLAN
S4.2 PROPOSED FRAMING PLAN
S5.0 ROOF PLAN
S6.0 STRUCTURAL DETAILS
S6.1 STRUCTURAL DETAILS

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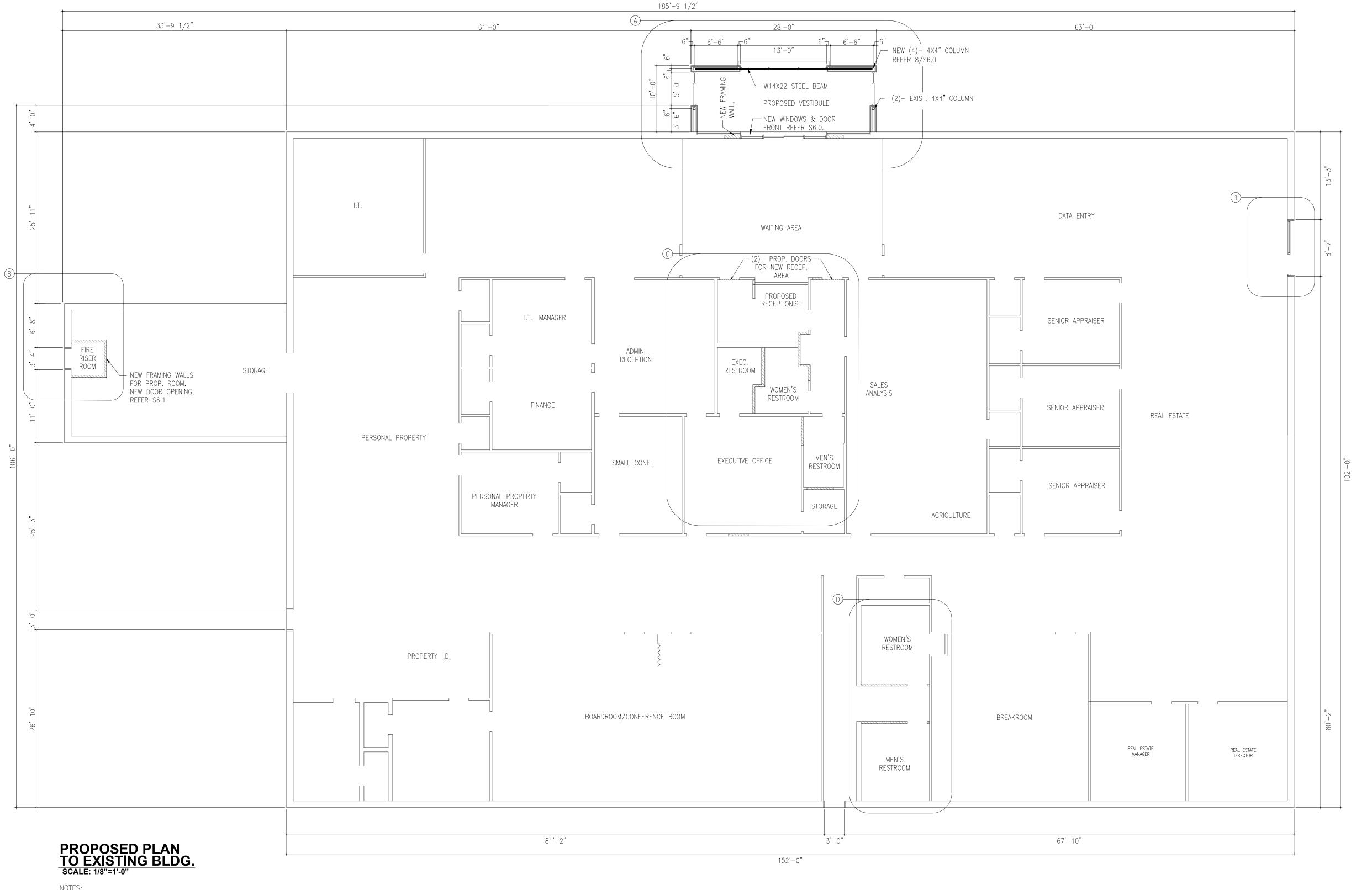
DATE 08-15-2018

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DESIGNED BY DVD

DEMOLITION FRAMING PLAN EXIST. STRUCT.

S4.1 of 9



REFER SHEARWALL/HEADER SCHEDULE

CASA ENGINEERING LLC NEEDS TO REVIEW FOLLOWING ITEMS:

A) WINDOW AND DOOR SUBMITTALS NEW FRAMING WALLS, REFER INTERIOR WALLS TO S6.1.

REFER DIMENSIONS TO ARCHITECTURAL PLAN.

CAMERON COUNTY APPRAISAL DISTRICT

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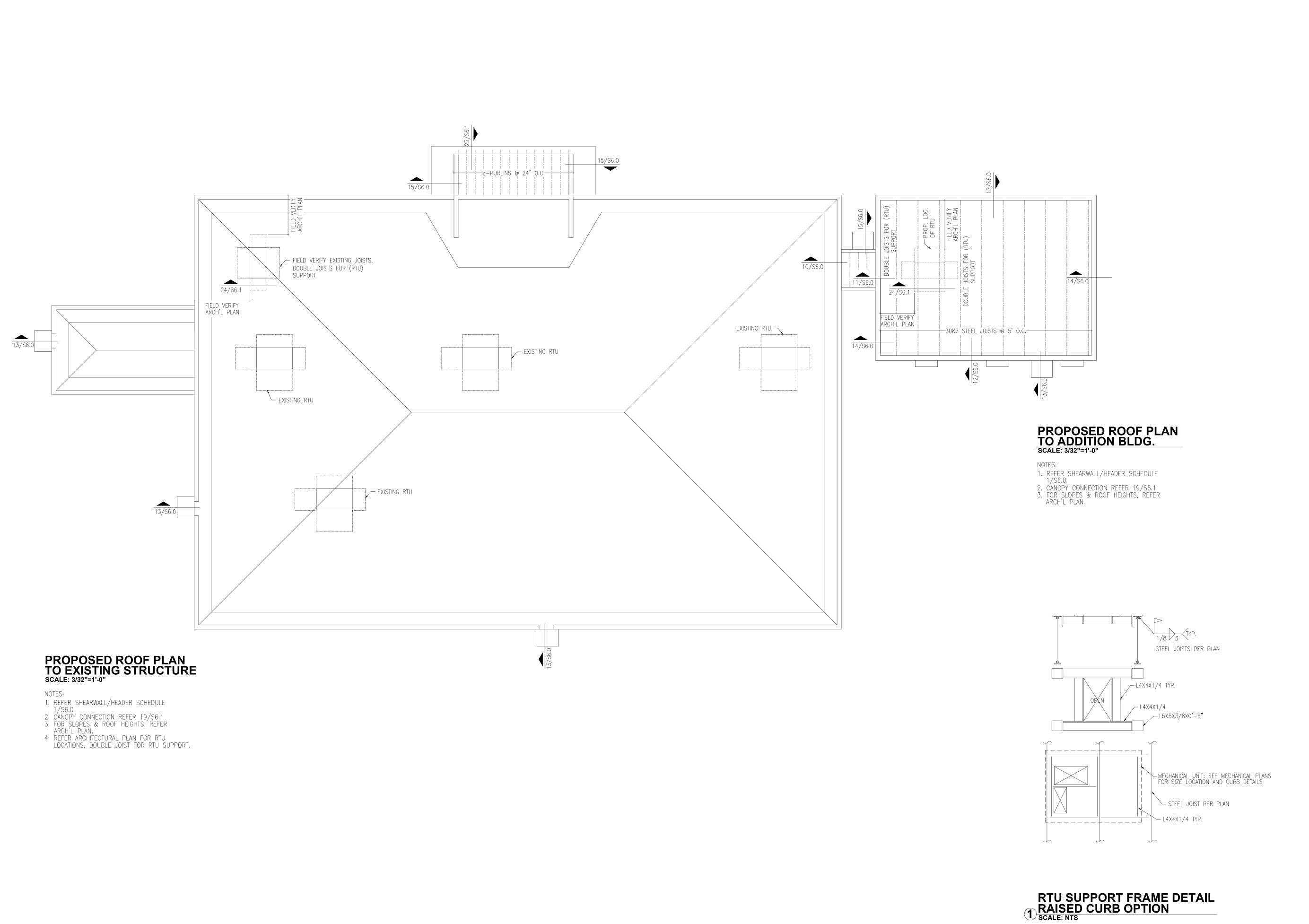
Civil & Structural Associates 1117 N. Stuart Place Rd. Suite E Harlingen, TX 78552 Phone 956.428.7900 www.casaengr.com TEXAS REGISTERED ENGINEERING FIRM F-8483 DAVID V. DAY

S1.0 GENERAL NOTES
S2.0 FOUNDATION PLAN
S3.0 FOUNDATION DETAILS
S4.0 PROP. ADD. FRAMING PLAN
S4.1 DEMOLITION FRAMING PLAN
S4.2 PROPOSED FRAMING PLAN
S5.0 ROOF PLAN
S6.0 STRUCTURAL DETAILS
S6.1 STRUCTURAL DETAILS

183081-01 08-15-2018 DVD

PROPOSED FRAMING PLAN **EXIST. STRUCT.**

S4.2 of **9**



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SHEETS
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S3.0 FOUNDATION DETAILS
S4.0 PROP. ADD. FRAMING PLAN
S4.1 DEMOLITION FRAMING PLAN
S4.2 PROPOSED FRAMING PLAN
S5.0 ROOF PLAN
S6.0 STRUCTURAL DETAILS
S6.1 STRUCTURAL DETAILS

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 183081-01

 DATE
 08-15-2018

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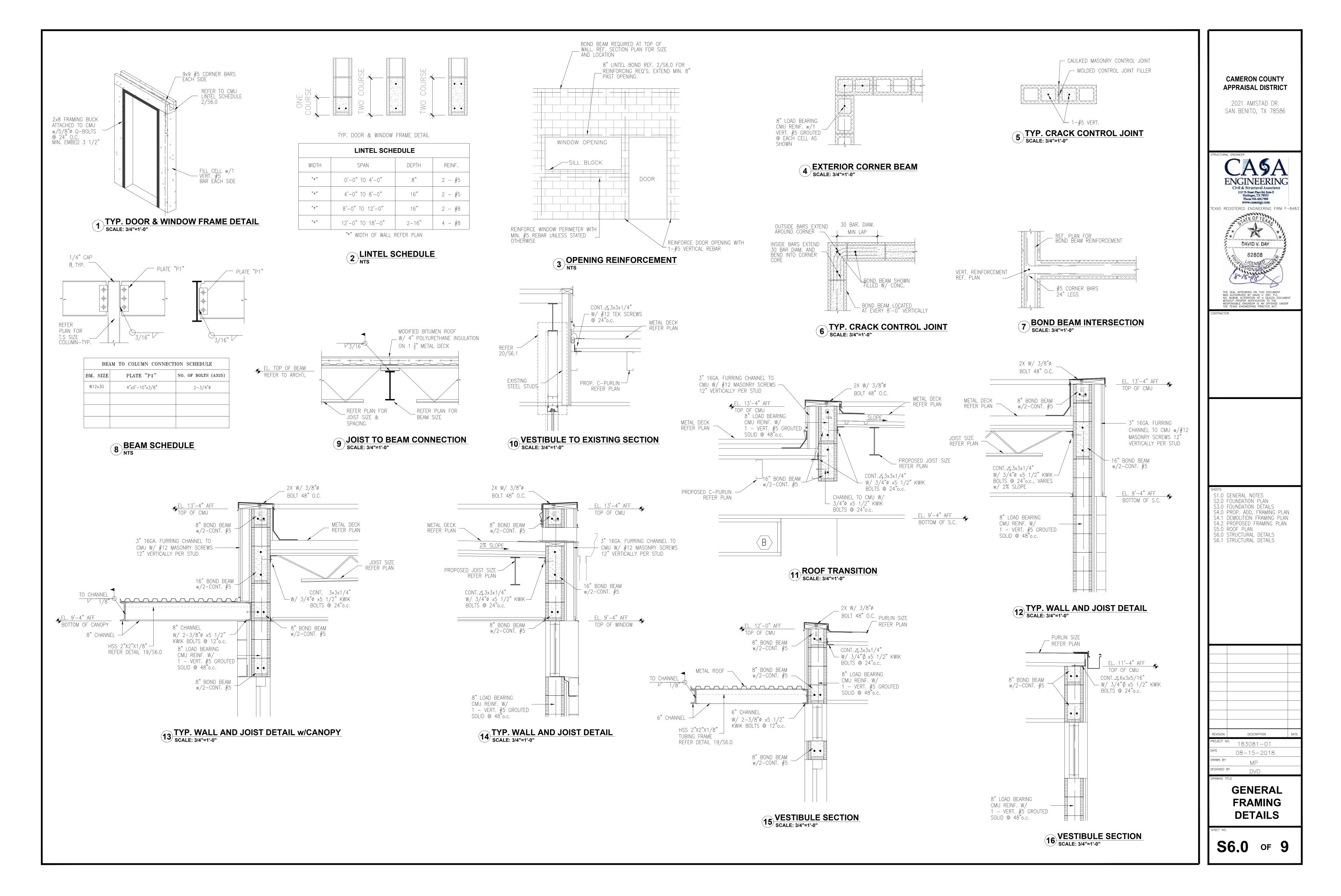
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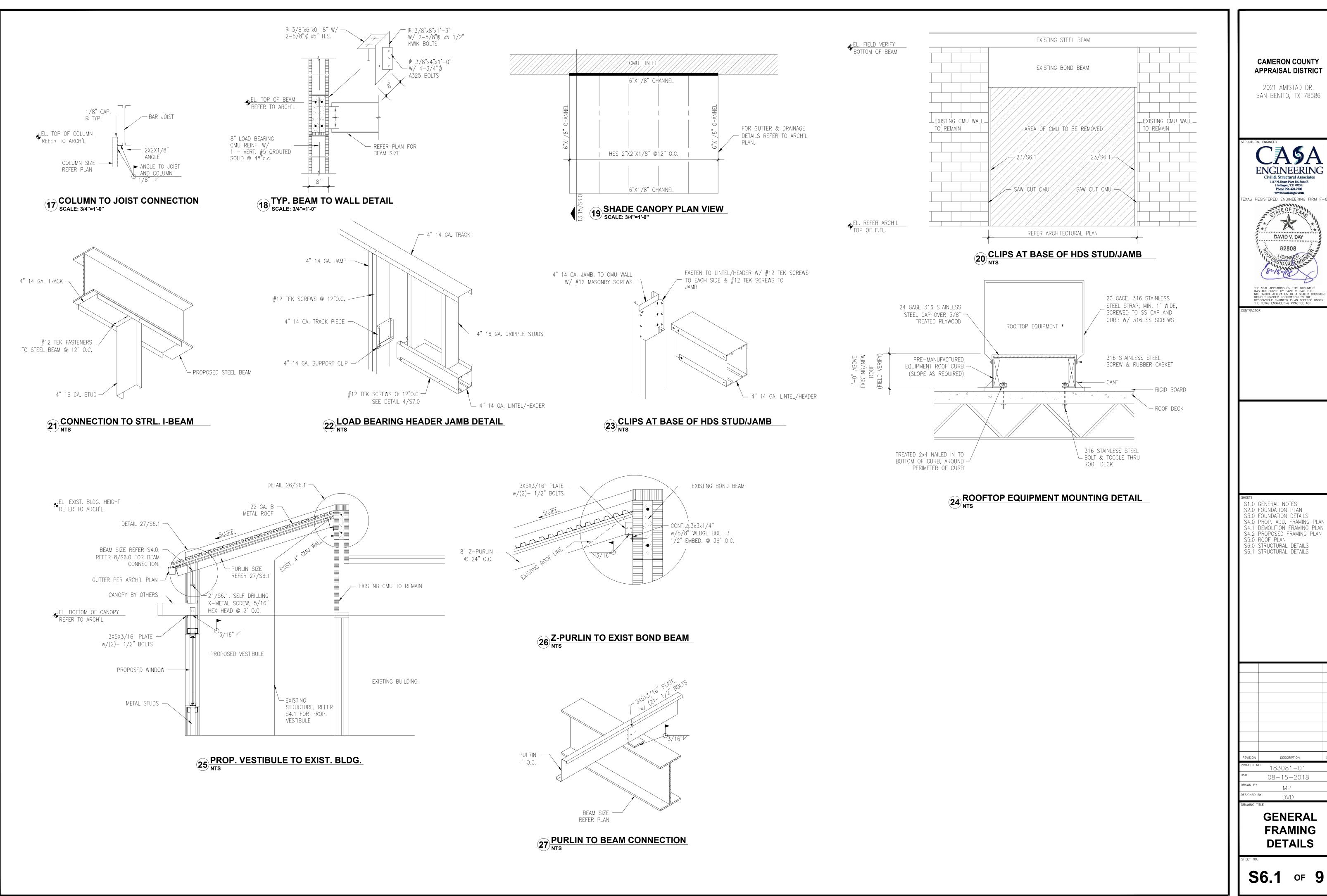
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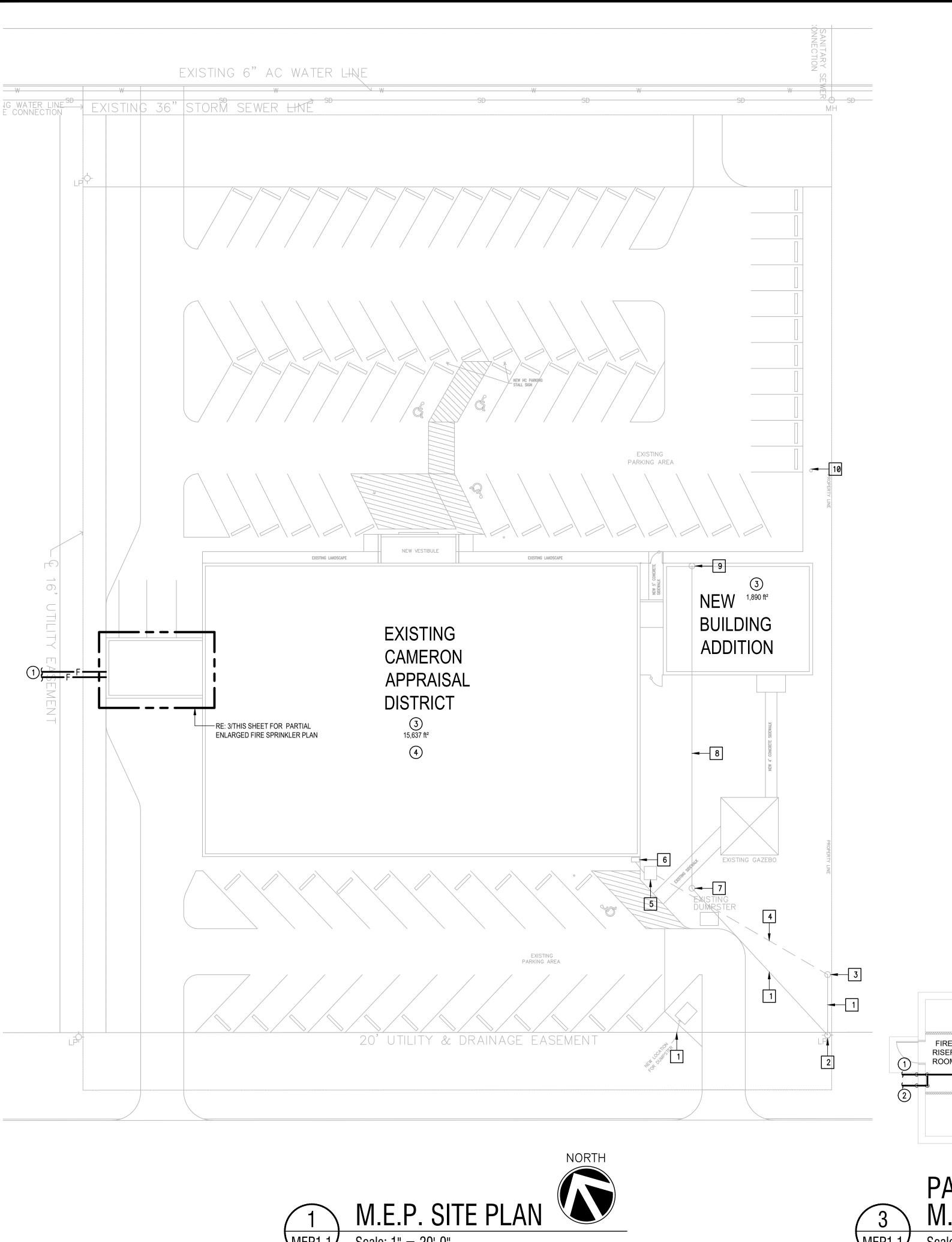
ROOF PLAN

S5.0 of 9





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www.casaengr.com AS REGISTERED ENGINEERING FIRM F-8483 DAVID V. DAY 1.0 GENERAL NOTES O FOUNDATION PLAN S3.0 FOUNDATION PLAN S3.0 FOUNDATION DETAILS S4.0 PROP. ADD. FRAMING PLAN S4.1 DEMOLITION FRAMING PLAN S4.2 PROPOSED FRAMING PLAN S5.0 ROOF PLAN
S6.0 STRUCTURAL DETAILS
S6.1 STRUCTURAL DETAILS 183081-01 08-15-2018 DVD



Scale: 1" = 20'-0"

KEYED NOTES:

- 1 EXISTING ELECTRIC UTILITY OVERHEAD SERVICE LINES.
- 2 EXISTING ELECTRIC UTILITY POWER POLE.
- 3 EXISTING ELECTRIC UTILITY POWER POLE WITH POLE MOUNT TRANSFORMER.
- 4 EXISTING ELECTRIC UTILITY UNDERGROUND PRIMARY SERVICE LINE.
- 5 EXISTING ELECTRIC UTILITY 120/208V/3P PAD MOUNT TRANSFORMER.
- 6 EXISTING BUILDING MAIN DISCONNECT AND ELECTRICAL SERVICE METER.
- 7 EXISTING ELECTRIC UTILITY POWER POLE WITH POLE MOUNT FLOOD LIGHT.
- 8 EXISTING ELECTRIC UTILITY OVERHEAD SERVICE LINES TO BE REMOVED AND RELOCATED. RELOCATION AND COORDINATION WITH ELECTRIC UTILITY TO BE DONE
- 9 EXISTING ELECTRIC UTILITY POWER POLE WITH POLE MOUNT FLOOD LIGHT TO BE REMOVED AND RELOCATED. RELOCATION AND COORDINATION WITH ELECTRIC UTILITY TO BE DONE BY OWNER.
- 10 PROPOSED LOCATION OF EXISTING ELECTRIC UTILITY POWER POLE WITH POLE MOUNT FLOOD LIGHT.

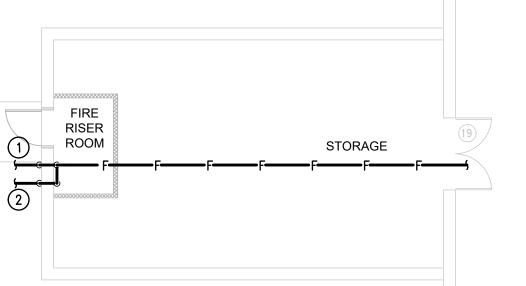
FIRE SUPPRESSION KEYED NOTES:

- (1) PROVIDE NEW 6" FIRE SPRINKLER LINE. REFER TO CIVIL DRAWING FOR FIRE LINE CONTINUATION. VERIFY SIZE OF FIRE SPRINKLER LINE BY MEANS OF CALCULATION AND COORDINATE WITH GENERAL CONTRACTOR. COORDINATE FREE STANDING FDC AND PROVISION OF BACKFLOW PREVENTER WITH CIVIL. REFER TO PLUMBING SHEETS AND SPECIFICATIONS FOR MORE INFORMATION.
- (2) PROVIDE 6" FIRE SPRINKLER LINE TO SERVE FREE STANDING FDC OUTSIDE THE BUILDING. COORDINATE WITH CIVIL. VERIFY SIZE OF FIRE SPRINKLER LINE BY MEANS OF CALCULATION AND COORDINATE WITH GENERAL CONTRACTOR.
- 3 PROVIDE FIRE SPRINKLER SYSTEM FOR THE EXISTING BUILDING AND THE NEW BUILDING ADDITION. CONTRACTOR SHALL INCLUDE THE COST OF THE ENTIRE FIRE SPRINKLER SYSTEM IN THE BASE BID. COORDINATE WITH GENERAL CONTRACTOR.
- (4) THE INSTALLATION OF THE NEW FIRE SPRINKLER SYSTEM IN THE EXISTING BUILDING REQUIRES THE EXISTING CEILING SYSTEM AND RELATED COMPONENTS (FIRE ALARM DEVICES, SPEAKERS, AIR DEVICES, ETC.) TO BE TEMPORARILY REMOVED. IN ADDITION, THE INSTALLATION OF THE NEW SPRINKLER SYSTEM SHALL BE IN PHASES SUCH THAT BUILDING REMAINS OPERATIONAL AND DISRUPTION IS KEPT AT MINIMUM. THEREFORE, IT IS THE RESPONSIBILITY OF THE FIRE SPRINKLER CONTRACTOR TO COORDINATE THE PHASING AND DETERMINE THE CEILINGS THAT NEEDS TO BE TEMPORARILY REMOVED TO ACCOMMODATE THE NEW FIRE SPRINKLER SYSTEM. REFER TO ARCHITECTURAL DRAWINGS AND SPECIFICATIONS FOR MORE INFORMATION REGARDING THE CEILING SYSTEMS AND PHASES/SEQUENCES OF CONSTRUCTION. COORDINATE INSTALLATION OF NEW FIRE SPRINKLER SYSTEM WITH GENERAL CONTRACTOR.

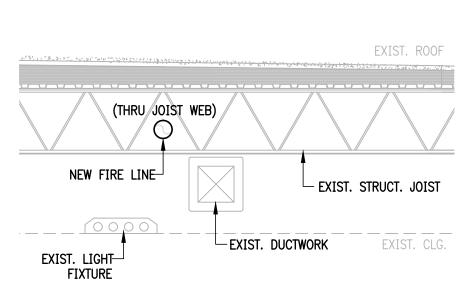
KEYED NOTES TO SERVE BLDG. PIPING. TO SERVE FREE STANDING 3) PIPE TO SERVE FDC OUTSIDE THE BUILDING. FDC OUTSIDE THE BUILDING



DETAIL









GENERAL NOTES:

- COORDINATE WORK AMONG ALL DISCIPLINES. IT IS NOT THE INTENT OF THESE DOCUMENTS TO DICTATE WHO MUST DO THE WORK. ALL WORK SHOWN IS THE RESPONSIBILITY OF THE (PRIME) CONTRACTOR.
 - FIELD VERIFY PROJECT SITE EXISTING CONDITIONS AND ELEVATIONS PRIOR TO BEGINNING ANY WORK.
- COORDINATE ELECTRICAL AND PLUMBING WITH GENERAL CONSTRUCTION.
- PHASING AND SEQUENCE OF CONSTRUCTION SHALL BE PER ARCHITECTURAL DRAWINGS AND SPECIFICATIONS.
- 5. FIELD VERIFY/SPOT EXACT LOCATIONS AND EXISTING CONDITIONS OF EXISTING PLUMBING, AND ELECTRICAL. IT IS THE INTENT OF THESE PLANS TO PROVIDE A COMPLETE AND WORKABLE SYSTEMS. SHOULD BIDDER FIND OMISSIONS OR DISCREPANCIES IN THE PLANS, BIDDER SHALL NOTIFY THE ENGINEER PRIOR TO THE BID DATE AND A WRITTEN CLARIFICATION WILL BE ISSUED.
- DAMAGED ITEMS SHALL BE REPAIRED AT NO ADDITIONAL COST TO OWNER. CONTRACTORS ARE REQUIRED TO SEARCH AND INVESTIGATE FOR EXISTING UTILITIES BEFORE EXCAVATING.
- ALL MATERIALS AND LABOR, WHETHER SPECIFICALLY INDICATED ON PLANS OR NOT, WHICH ARE NECESSARY FOR THE PROPER INSTALLATION AND FUNCTION OF THE SYSTEM SHALL BE FURNISHED BY THIS CONTRACTOR. INCLUDE ALL COSTS OF CHANGES, IF/AS REQUIRED IN BID PROPOSAL.
- CONTRACTOR SHALL NOT PROCEED WITH ANY WORK INVOLVING A CHANGE IN PROJECT SCOPE OR COST WITHOUT FIRST HAVING OBTAINED ENGINEER'S APPROVAL IN WRITING. UNLESS ENGINEER HAS AGREED TO SUCH CHANGE PRIOR TO IT BEING DONE, AND HAS AGREED THAT AN INCREASE IN COST ASSOCIATED WITH SUCH CHANGE IS WARRANTED: CONTRACTOR WILL NOT BE REIMBURSED FOR SUCH CHANGE.
- 9. SLEEVE ALL EXTERIOR WALL PENETRATIONS.
- 10. PERFORM ALL WORK PER LATEST VERSION OF NATIONAL ELECTRICAL CODE, AND APPLICABLE LOCAL CODES AND ORDINANCES, UNLESS DRAWINGS OR SPECIFICATIONS HAVE MORE STRINGENT REQUIREMENTS.
- 11. CONTRACTOR IS RESPONSIBLE FOR ALL PERMITS AND FEES ASSOCIATED WITH PROJECT, INCLUDING FEES FOR INSPECTIONS, APPLICATIONS, AND PROVISION OF NEW SERVICES.
- 12. CONTRACTOR WHO WILL ACTUALLY PERFORM WORK MUST APPLY FOR ALL REQUIRED PERMITS.
- 13. NOTIFY ENGINEER OF ANY ASPECTS OF DESIGN WHICH ARE THOUGHT TO BE IN NONCOMPLIANCE WITH APPLICABLE CODES.
- 14. COORDINATE ALL WORK WITH OTHER TRADES: COORDINATE SCHEDULE OF WORK WITH ALL SUB-CONTRACTORS TO ACHIEVE SMOOTH FLOW OF CONSTRUCTION.
- 15. SEAL AROUND ELECTRICAL RACEWAYS AT ALL WALLS, A/C ROOMS AND WALL LOUVER PENETRATIONS WITH FIREPROOF CAULKING. RE: SPECS. PROVIDE FLASHING AROUND PENETRATION, BOTH INSIDE AND OUTSIDE, TO PROVIDE FINISHED LOOK.
- 16. TIME OR MONEY ALLOWANCES WILL NOT BE MADE TO ACCOMMODATE UTILITY CONFLICTS THAT CAN BE REASONABLY RESOLVED BY COORDINATION DURING SHOP DRAWING PHASE.
- 17. CONTRACTOR SHALL REVIEW COMPLETE DOCUMENTS PRIOR TO SUBMITTAL OF PROPOSAL TO GAIN COMPLETE UNDERSTANDING OF PROJECT SCOPE, WORK BY OTHERS, AND ELECTRICAL WORK ASSOCIATED WITH OTHER DISCIPLINES.
- 18. MAINTAIN MANUFACTURER RECOMMENDED CLEARANCE AROUND ALL EQUIPMENT.
- 19. AFFIX ID TAGS TO ALL DIVISION 26 EQUIPMENT.
- 20. CONTRACTOR IS RESPONSIBLE FOR COORDINATION WITH MECHANICAL AND PLUMBING CONTRACTOR REGARDING EQUIPMENT SIZES AND TYPES OF ELECTRICAL INTERFACE EQUIPMENT REQUIRED.
- 21. FIELD VERIFY ALL CONDITIONS AND MEASURE DIMENSIONS WITHIN THE BUILDING PRIOR TO ORDERING EQUIPMENT AND/OR PROCEEDING WITH INSTALLATION.
- 22. ALL EQUIPMENT SHALL BE FACTORY TESTED, AND CONTRACTOR SHALL VERIFY THEIR CONDITION PRIOR TO INSTALLATION, CONTRACTOR IS RESPONSIBLE FOR EQUIPMENT DAMAGED DURING MOVING AND
- INSTALLATION. 23. EQUIPMENT FOUND DEFECTIVE PRIOR TO FINAL ACCEPTANCE SHALL BE REPLACED AT NO COST TO OWNER.
- 24. WORK TO BE DONE UNDER ALLOWANCES BECOMES AN INTEGRAL PART OF THE PROJECT AND RESPONSIBILITY OF CONTRACTOR ONCE ALLOWANCE IS APPROVED.



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CAMER(NEW BUILDIN 2021 AMISTA

M.E.P. SITE PLAN

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MAY HAVE BEEN INADVERTENTLY ALTERED RELY ONLY ON FINAL HARD COPY MATERIAL BEARING THE CONSULTANT'S ORIGINAL NEW BLDG

DRAWN BY: CHECKED BY: **ETHOS** SCK

engineering 119 W. VAN BUREN AVE. STE.101 HARLINGEN, TX

PHONE: 956-230-3435 TEXAS REGISTERED **ENGINEERING FIRM** F-15998

08-16-18 HEET NO.

CESAR A. GONZALE

BUILDING KEYPLAN



8.16.2018

CODES & ORDINANCES:

- 1. GENERAL:
- d. UNLESS DRAWINGS OR SPECIFICATIONS HAVE MORE STRINGENT REQUIREMENTS,
 PERFORM ALL WORK PER APPLICABLE VERSION OF INTERNATIONAL BUILDING
 CODES, AND LOCAL CODES AND ORDINANCES.
- b. PRIOR TO SUBMITTING PROPOSAL, NOTIFY ENGINEER OF ANY ASPECTS OF DESIGN WHICH ARE THOUGHT TO BE IN NONCOMPLIANCE WITH APPLICABLE
- 2. WIND STORM CERTIFICATION:
- a. CONTRACTOR SHALL DESIGN, CONSTRUCT AND INSTALL EXTERIOR AND ROOF MOUNTED EQUIPMENT TO MEET GOVERNING BUILDING CODES.
- 3. PERMITS:
- a. CONTRACTOR IS RESPONSIBLE FOR ALL PERMITS AND FEES ASSOCIATED WITH PROJECT, INCLUDING FEES FOR INSPECTIONS, APPLICATIONS, AND PROVISION OF NEW SERVICES.
- b. CONTRACTOR WHO WILL ACTUALLY PERFORM WORK MUST APPLY FOR ALL REQUIRED PERMITS.
- 4. APPROVALS AND INSPECTIONS:
- a. OBTAIN APPROVAL FROM CITY FIRE DEPARTMENT AND BUILDING AND SAFETY DEPARTMENT PRIOR TO INSTALLATION OF ANY FIRE RELATED ITEMS.
- b. COORDINATE PRESSURE TESTS, INSPECTIONS AND APPROVAL FOR ALL SYSTEMS WITH PERMITTING OFFICER, OWNER AND ENGINEER.
- c. CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING WIND STORM CERTIFICATION INSPECTIONS AND CERTIFICATIONS FOR ROOFTOP EQUIPMENT. CONTRACTOR MUST NOTIFY INSPECTOR PRIOR TO INSTALLING EQUIPMENT, AND APPRISE INSPECTOR OF WORK SCHEDULING INVOLVING EQUIPMENT REQUIRING WIND INSPECTION / CERTIFICATION, SO THAT INSPECTIONS MAY BE CARRIED OUT AT REQUIRED STAGE(S) OF CONSTRUCTION.

GENERAL NOTES:

- 1. CONTRACT RELATED:
- a. COORDINATE WORK AMONG ALL DISCIPLINES. IT IS NOT THE INTENT OF THESE DOCUMENTS TO DICTATE WHO MUST DO THE WORK. ALL WORK SHOWN IS THE RESPONSIBILITY OF THE (PRIME) CONTRACTOR.
- b. WORK TO BE DONE UNDER ALLOWANCES BECOMES AN INTEGRAL PART OF THE PROJECT AND RESPONSIBILITY OF CONTRACTOR ONCE ALLOWANCE IS
- c. CONTRACTOR SHALL NOT PROCEED WITH ANY WORK INVOLVING A CHANGE IN PROJECT SCOPE OR COST WITHOUT FIRST HAVING OBTAINED ENGINEER'S APPROVAL IN WRITING. UNLESS ENGINEER HAS AGREED TO SUCH CHANGE PRIOR TO IT BEING DONE, AND HAS AGREED THAT AN INCREASE IN COST ASSOCIATED WITH SUCH CHANGE IS WARRANTED; CONTRACTOR WILL NOT BE REIMBURSED FOR SUCH CHANGE.
- 2. TEST & BALANCE:
- a. TEST & BALANCE SHALL BE PERFORMED UNDER GENERAL CONTRACTOR, SEPARATE FROM MECHANICAL CONTRACT. DURING BIDDING, CONTRACTOR SHALL SUBMIT A COPY OF EVIDENCE THAT TAB AGENT MEETS THE QUALIFICATIONS SPECIFIED UNDER DIV. 23 SECTION 230593 TO PRIME CONTRACTOR.
- b. TEST & BALANCE TO COORDINATE MINIMUM AND MAXIMUM OUTSIDE AIR DAMPER SETTINGS WITH DDC CONTROLS AND ENGINEER. PROVIDE TIME ALLOTMENT FOR MULTIPLE DAMPER SETTINGS IN SOME CASES.
- c. CONTRACTOR SHALL COORDINATE TAB ACTIVITIES WITH TAB CONTRACTOR.

COORDINATION:

- 1. GENERAL:
- a. CONTRACTOR SHALL REVIEW COMPLETE DOCUMENTS PRIOR TO SUBMITTAL OF PROPOSAL TO GAIN COMPLETE UNDERSTANDING OF PROJECT SCOPE, WORK BY OTHERS, AND MECHANICAL WORK ASSOCIATED WITH OTHER DISCIPLINES.
- b. COORDINATE MECHANICAL WITH OTHER TRADES SUCH AS PLUMBING, ELECTRICAL AND STRUCTURAL WORK. COORDINATE SCHEDULE OF WORK WITH ALL SUB—CONTRACTORS TO ACHIEVE SMOOTH FLOW OF CONSTRUCTION.
- c. TIME OR MONEY ALLOWANCES WILL NOT BE MADE TO ACCOMMODATE UTILITY CONFLICTS THAT CAN BE REASONABLY RESOLVED BY COORDINATION DURING SHOP DRAWING STAGE.
- d. Provide Coordination drawings of reflected ceiling plan and section above ceiling showing work of all affected trades. Do not proceed with fabrication work until coordination drawings have been approved by A/E.
- SITE:

 TIME OR MONEY ALLOWANCES WILL NOT BE MADE TO ACCOMMODATE UTILITY
 CONFLICTS THAT CAN BE REASONABLY RESOLVED BY COORDINATION DURING
 SHOP DRAWING STAGE.
- 3. ARCHITECTURAL AND STRUCTURAL:
- a. REFER TO ARCHITECTURAL AND STRUCTURAL PLANS FOR DETAILS OF CONSTRUCTION, INCLUDING BEAMS, FLOOR AND WALL PENETRATIONS, CHASES, AND REFLECTED CEILING PLANS. VERIFY OPENING SIZES WITH EQUIPMENT FURNISHED.
- b. SLEEVE ALL EXTERIOR WALL AND GRADE BEAM PENETRATIONS. GRADE BEAM PENETRATIONS SHALL BE MADE WITHIN MIDDLE 1/3 OF VERTICAL SPAN OF BEAM.
- c. SEAL AROUND DUCTS AND PIPING AT ALL WALLS, A/C ROOMS AND WALL LOUVER PENETRATIONS WITH FIREPROOF CAULKING. RE: SPECS. PROVIDE ESCUTCHEON PLATES AND FLASHING AROUND PENETRATION, BOTH INSIDE AND OUTSIDE, TO PROVIDE FINISHED LOOK.
- 4. SPATIAL COORDINATION:
- a. COORDINATE ALL WORK WITH OTHER TRADES; COORDINATE SCHEDULE OF WORK WITH ALL SUB-CONTRACTORS TO ACHIEVE SMOOTH FLOW OF CONSTRUCTION.
- 5. SPACES ABOVE CEILING ARE CONGESTED. DESIGN INTENT IS THAT UTILITIES BE INSTALLED TIGHT AGAINST CEILING STRUCTURE TO EXTENT POSSIBLE, WHILE RETAINING ADEQUATE MAINTENANCE ACCESS PER CODES.
- c. IN CASE OF CONFLICTS, ITEMS SHALL BE ARRANGED ACCORDING TO THE FOLLOWING PRIORITIES: LIGHTING, FIRE PROTECTION, HVAC. PROVIDE OFFSETS/RISES/DROPS REQUIRED TO RESOLVE CONFLICTS WITH OTHER UTILITIES, AND TO ACCOMMODATE ALL UTILITIES ABOVE CEILINGS.
- d. IN GENERAL, REROUTE SMALLER DUCTS/PIPES THROUGH JOISTS TO RESOLVE CONFLICTS WITH LARGER. PERFORM REROUTING IN MOST EFFICIENT MANNER POSSIBLE, AND IN ACCORDANCE WITH INDUSTRY STANDARDS.
- e. PROVIDE COORDINATION DRAWINGS OF REFLECTED CEILING PLAN AND SECTION ABOVE CEILING SHOWING WORK OF ALL AFFECTED TRADES. DO NOT PROCEED WITH FABRICATION WORK UNTIL COORDINATION DRAWINGS HAVE BEEN APPROVED BY A/E.
- f. IN GENERAL ROUTE DUCTS/PIPES IN MOST EFFICIENT MANNER POSSIBLE, AND IN ACCORDANCE WITH INDUSTRY STANDARDS.
- g. SEE ELECTRICAL PLANS FOR EXACT LOCATION OF ELECTRICAL PANELS TO AVOID DUCTWORK AND PIPING RUNNING OVER THESE AREAS. COORDINATE WITH ELECTRICAL CONTRACTOR.
- h. LOCATE AIR DEVICES AS SHOWN. COORDINATE WITH OTHER TRADES TO AVOID CONFLICT AND ADJUST LOCATION IF NEEDED WITHOUT COMPROMISING AIR DEVICES PERFORMANCE.
- 5. CONTROLS:
- a. REFER TO SPECIFICATIONS FOR CONTROL COMPONENTS AND DEVICES TO BE COORDINATED WITH MECHANICAL WORK.
- b. CONTRACTOR IS RESPONSIBLE FOR INSTALLING LOW VOLTAGE POWER AND COMMUNICATIONS. REFERENCE SPECIFICATIONS FOR CONTROL WORK.
- c. Drawings show general location of sensors (T, RH). Unless noted otherwise, install sensors at 48" above finished floor. Wiring shall be in concealed walls. In case of conflicts with furniture, windows, etc., coordinate exact location with architect and engineer.

EQUIPMENT:

- EQUIPMENT INSPECTION:
 a. FIELD VERIFY ALL CONDITIONS AND MEASURE DIMENSIONS WITHIN THE BUILDING PRIOR TO ORDERING EQUIPMENT AND/OR PROCEEDING WITH INSTALLATION.
 - b. ALL EQUIPMENT SHALL BE FACTORY TESTED, AND CONTRACTOR SHALL VERIFY EQUIPMENT CONDITION PRIOR TO INSTALLATION. CONTRACTOR IS RESPONSIBLE FOR EQUIPMENT DAMAGED DURING MOVING AND INSTALLATION.
 - c. EQUIPMENT FOUND DEFECTIVE PRIOR TO FINAL ACCEPTANCE SHALL BE REPLACED AT NO COST TO OWNER.
- 2. EQUIPMENT ACCESS:

DUCT CONNECTORS.

- a. PROVIDE MANUFACTURER RECOMMENDED AND CODE ENFORCED CLEARANCES AROUND EQUIPMENT. MAINTAIN 36" CLEAR IN FRONT OF POWERED EQUIPMENT, ELECTRIC HEATERS, ETC.
- b. INSTALL ALL VALVES, CONTROLS, DAMPERS, FANS, ETC. IN ACCESSIBLE LOCATIONS. PROVIDE ADEQUATELY SIZED ACCESS DOORS WHERE REQUIRED.
- 3. EQUIPMENT INSTALLATION:

 a. PROVIDE SPRING HANGER TYPE VIBRATION ISOLATORS TO SUPPORT SUSPENDED AHUS, FANS AND OTHER POWERED VIBRATING EQUIPMENT. PROVIDE FLEXIBLE
- b. COMPLETELY WEATHERPROOF ALL EQUIPMENT, DUCTS, PIPES AND OTHER DEVICES AND MATERIALS INSTALLED OUTSIDE THE BUILDING, IN PARKING AREA, OR OTHERWISE EXPOSED TO WEATHER. AS A MINIMUM, WEATHERPROOFING SHALL INCLUDE, BUT IS NOT LIMITED TO THE FOLLOWING: JACKETING FOR ALL PIPING INSULATION, VALVES AND ACCESSORIES RATED FOR OUTDOOR SERVICE, ELECTRICAL ENCLOSURES NEMA 4X-SS. PROVIDE ELECTRICAL HEAT TRACING FOR UTILITIES SUSCEPTIBLE TO FREEZING.
- c. AFFIX ID TAGS TO ALL MECHANICAL EQUIPMENT PER SPECIFICATIONS.
- 5. PLUMBING:
 - a. PROVIDE CODE RECOMMENDED CLEARANCE OR MINIMUM 10' BETWEEN EXHAUST FANS DISCHARGES, PLUMBING VENTS AND AIR INTAKES. COORDINATE LOCATIONS WITH PLUMBING CONTRACTOR.
 - b. PROVIDE INSULATED AND TRAPPED CONDENSATE DRAIN LINES FROM ALL AIR CONDITIONING EQUIPMENT AND TERMINATE TO NEAREST FLOOR DRAIN OR OTHER APPROVED RECEPTACLES. COORDINATE DRAINS WITH PLUMBING.
 - ELECTRICAL:

 a. CONTRACTOR IS RESPONSIBLE FOR COORDINATION WITH ELECTRICAL
 - CONTRACTOR IS RESPONSIBLE FOR COORDINATION WITH ELECTRICAL CONTRACTOR REGARDING EQUIPMENT SIZES AND TYPES OF ELECTRICAL INTERFACE EQUIPMENT REQUIRED.
 - b. Due to variations in equipment characteristics by different equipment suppliers, mechanical equipment ultimately provided may differ in horsepower or amperage requirements from that specified in these drawings. Coordinate with general contractor prior to bidding, and prior to submittals and ordering equipment, to ensure that equipment electrical requirements are conveyed to electrical contractor. It is solely contractor's responsibility to ensure compatibility issues are coordinated.

INSULATION:

- 1. FIBERGLASS INSULATION MAY NOT BE USED ON ANY COLD PIPING SURFACES; ONLY CLOSED CELL INSULATION IS ACCEPTABLE.
- 2. PROVIDE INSULATION ON ALL SURFACES CAPABLE OF CREATING CONDENSATION.

DUCTWORK:

 DUCTWORK GENERAL:
 DRAWINGS ARE DIAGRAMMATIC IN NATURE. FOR CLARITY SAKE, MOST DUCT OFFSETS/RISES/DROPS ARE NOT SHOWN. WHERE DUCTS PENETRATE WALLS,

INSTALL THEM PERPENDICULAR TO WALL.

- b. RECTANGULAR AND ROUND DUCTWORK SHALL BE GALVANIZED STEEL. SIZES SHOWN ARE INSIDE CLEAR DIMENSION, UNLESS NOTED OTHERWISE.
- c. VERIFY BOTTOM OF DUCT ELEVATION AND COORDINATE WITH OTHER TRADES.
- d. CONSTRUCT AND LEAKAGE TEST ALL DUCTWORK BASED ON SPECIFICATIONS AND SMACNA REQUIREMENTS, WHICHEVER IS MORE STRINGENT. COORDINATE PRESSURE CLASSES WITH EQUIPMENT SCHEDULES.
- e. FLEXIBLE DUCTS MAXIMUM LENGTH SHALL NOT EXCEED 6 FEET. USE OF FLEXIBLE DUCTWORK IS LIMITED TO AREAS WITH AN ACCESSIBLE SUSPENDED CEILING. PINCHED DUCT WILL HAVE TO BE REPLACED.
- f. IN AREAS WHERE DUCT CONFLICTS CANNOT BE AVOIDED, ROUTE SMALLER DUCTS THROUGH ROOF JOISTS.
- g. LOCATE AIR DEVICES AS SHOWN. COORDINATE WITH ELECTRICAL, IF NEEDED. RELOCATE DIFFUSER TO ADJACENT TILE.
- 2. DUCTWORK INSULATION:
- a. WRAP ALL OUTSIDE AIR, SUPPLY AND RETURN DUCTWORK UNLESS NOTED
- b. IN ADDITION, FOR ACOUSTICAL PERFORMANCE INTERNALLY LINE FIRST 10' OF SUPPLY AND LAST 10' OF RETURN DUCTWORK.
- c. PROVIDE ACOUSTICAL LINING FOR ALL TRANSFER DUCTS AND RETURN AIR ELBOWS.
- d. INSULATION ON DUCT SHOULD TO BE PROPERLY TAPED AND MASTICS MUST BE APPLIED ON SEAMS AND JOINTS AND AT ENDS ADJACENT TO DUCT FLANGES AND FITTINGS. FOR DUCT SIDES WITH DIMENSIONS LARGER THAN 18 INCHES, APPLY ADDITIONAL PINS AND CLIPS TO HOLD INSULATION TIGHTLY AGAINST
- e. INSULATE ALL EXHAUST DUCTWORK 10 FEET FROM EXTERIOR OPENING.
- 3. DUCT FITTINGS:

 a. WHERE RECTANGULAR TEE FITTINGS ARE SHOWN, PROVIDE FITTING WITH ADJUSTABLE DIVIDER SHEET AND TURNING VANES.
- b. WHERE RECTANGULAR MAIN AND BRANCH CONNECTIONS ARE SHOWN, PROVIDE EXTRACTOR VANES. NOT APPLICABLE TO DUCTWORK DOWNSTREAM OF VAV BOXES.
- c. PROVIDE TURNING VANES IN ALL ELBOWS PER SPECS.

SURFACE AT CROSS BRACING.

- 4. DAMPERS:
- a. IN AN ACCESSIBLE LOCATION, PROVIDE MANUAL—TYPE VOLUME BALANCING DUCT DAMPERS IN ALL SUPPLY, RETURN AND EXHAUST DUCT BRANCHES TO INDIVIDUAL GRILLES, REGISTERS AND DIFFUSERS (GRD). TO MINIMIZE NOISE INSTALL DAMPERS CLOSER TO THE BRANCH CONNECTION THAN TO THE GRD. IN DUCTWORK, PROVIDE ACCESS DOORS TO ALL DAMPERS.
- ABOVE INACCESSIBLE CEILINGS AND IN CASE DUCT CONFIGURATION DOES NOT ALLOW FOR INSTALLATION OF DAMPER IN DUCTWORK, PROVIDE REMOTE MANUAL DAMPER BY YOUNG REGULATOR OR EQUAL, (CABLE OPERATED SYSTEM) WITH ENGINEER'S PERMISSION CONTRACTOR MAY PROVIDE VOLUME DAMPER THAT IS INTEGRAL TO GRD.
- c. PROVIDE BALANCING DAMPERS ON ALL EXHAUST GRILLES TO ACHIEVE DESIRED AIRFI OW.
- d. PROVIDE DYNAMIC FIRE DAMPERS (RUSKIN DIDB20, TYPE B OR EQUAL) IN ACCORDANCE WITH CODE REQUIREMENT, IN ALL PENETRATIONS OF FIRE RATED WALLS, OCCUPANCY SEPARATION WALLS, BARRIERS AND PARTITIONS, AND EXIT CORRIDORS. REFER TO ARCHITECTURAL PLANS FOR RATED WALLS. PROVIDE ACCESS DOORS AS PER CODE REQUIREMENTS, EQUAL TO RUSKIN ADH-22 FOR RECTANGULAR DUCT, ACUDOR RD FOR ROUND DUCT. WHERE GRILLE ACCESS IS INDICATED, ADDITIONAL DUCT ACCESS DOOR IS NOT REQUIRED. WHERE THE CEILING IS FIRE RATED PROVIDE FIRE RATED AIR DEVICES FOR TRANSFER & RETURN AIR GRILLES AND SUPPLY AIR DIFFUSERS AS PER CODE REQUIRMENTS. REFER TO ARCHITECTURAL PLANS FOR RATED CEILINGS.
- e. PROVIDE ACCESS DOORS (NOT SHOWN IN DRAWINGS) FOR INSPECTION OF DUCT MOUNTED EQUIPMENT SUCH AS FIRE/SMOKE DAMPERS, MANUAL BALANCING DAMPERS AND TURNING VANES. IN AREAS WITH HARD CEILING COORDINATE ACCESS DOOR LOCATIONS AND CEILING ACCESS PANELS WITH OTHER TRADES.



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M2.1

ABBREVIATIONS AMPS CU **CONDENSING UNIT** FAN COIL UNIT HEAT., VENT., & AIR CONDITION. SUPPLY AIR N.T.S. NOT TO SCALE ACTUATOR CU. COPPER FLOOR DRAIN OR FIRE DAMPER LCU LOCAL CONTROL UNIT SUPPLY AIR GRILLE OUTSIDE AIR ABOVE FINISHED FLOOR DDC DIRECT DIGITAL CONTROLS FLOW METER LEAVING PCU PRIMARY CONTROL UNIT LVG. STAINLESS STEEL DMPR. FLOW SWITCH MECH **MECHANICAL** SINGLE ZONE BOTTOM DAMPER PHASE DISC. DISCONNECT FINS PER INCH MOT. STE MOTOR STARTER RETURN AIR BOP **BOTTOM OF PIPE TESTING & BALANCING** BOTT. BOTTOM DX DIRECT EXPANSION COOLING GROUND MOTOR STARTER TEMPERATURE SENSOR RAG RETURN AIR GRILLE **TSTAT EXHAUST AIR GRILLE** GAGE RELIEF AIR HOOD THERMOSTAT VOLTS CONDUIT OR COMMON ROOF DRAIN CLG. CEILING OR COOLING EF EXHAUST FAN GALV. GALVANIZED UG UNDERGROUND VAV VARIABLE AIR VOLUME COMB. COMBINATION EMS **ENERGY MANAGEMENT SYSTEM** GRND. GROUND ROOM MULTI-ZONE VFD VARIABLE FREQUENCY DRIVE ENT. ENTERING HORSEPOWER REDUCED PRESSURE ZONE NORMALLY CLOSED CONC. CONCRETE EXT. COND. CONDUIT EXTERNAL OR EXTERIOR **HUMIDITY SENSOR** RTU ROOFTOP UNIT NORMALLY OPEN

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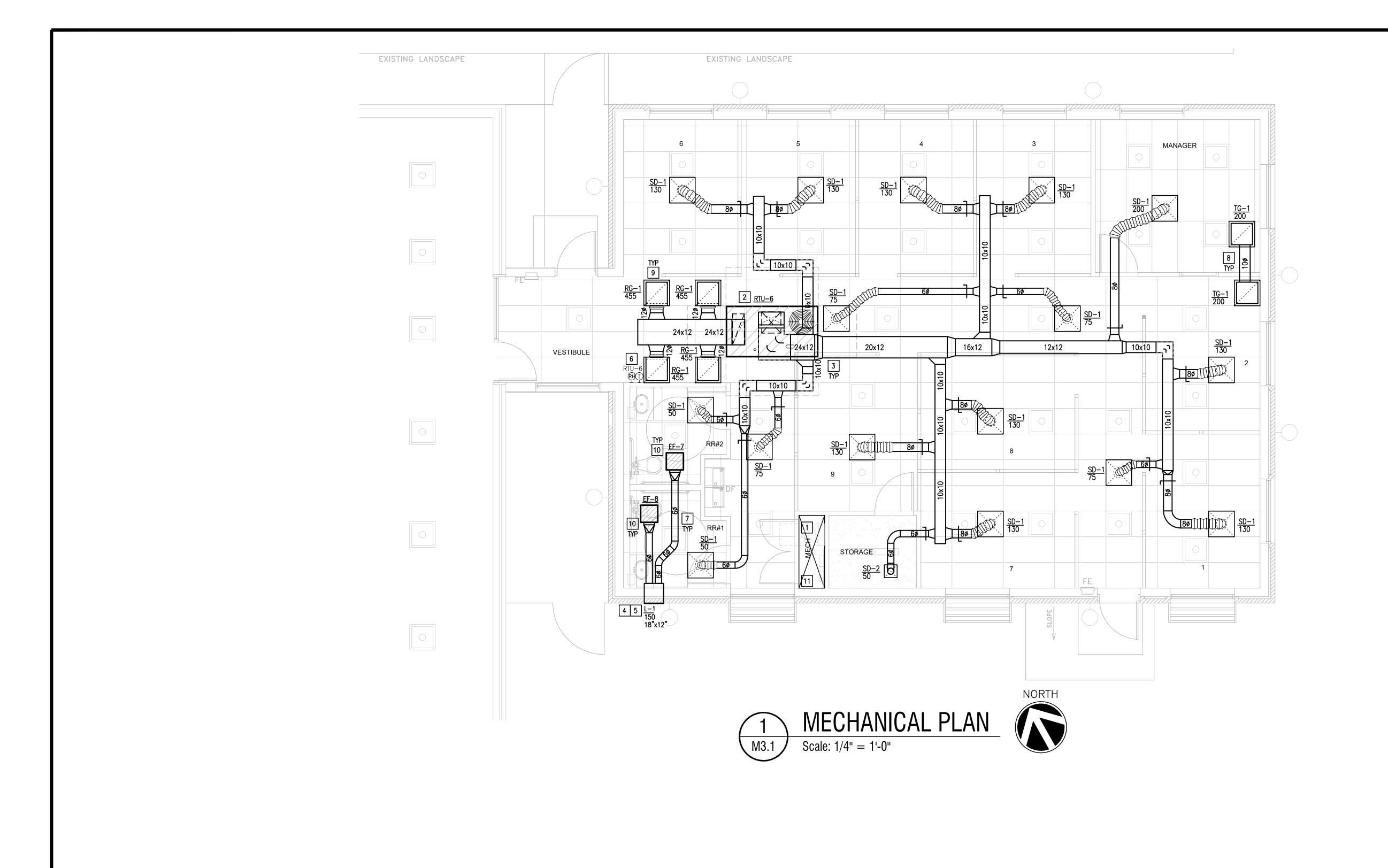
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KEYED NOTES:

- CODE AND WORKING CLEARANCE FOR ELECTRICAL PANELS. DO NOT ROUTE DUCT OR PIPING DIRECTLY ABOVE ELECTRICAL EQUIPMENT FOOTPRINT. SEE ELECTRICAL PLANS FOR EXACT LOCATION. (TYP.)
- 2 PROVIDE RTU ON ROOF CURB AS SCHEDULED. REFER TO MECHANICAL ROOF PLAN FOR MORE INFORMATION.
- 3 DUCTWORK ROUTING SHOWN IS DIAGRAMMATIC IN NATURE. FIELD-VERIFY STRUCTURE AND SPACE AVAILABILITY PRIOR TO SUBMITTING SHOP DRAWINGS. COORDINATE WITH ARCHITECT AND ENGINEER IN CASE OF CONFLICTS.
- 4 SLEEVE ALL WALL PENETRATIONS PER SPECIFICATIONS. SEAL AROUND DUCTS & PIPING AT ALL WALLS, AC ROOMS AND WALL LOUVER PENETRATIONS WITH FIRE-PROOF CAULKING. PROVIDE ESCUTCHEON PLATES AND FLASHING AROUND PENETRATION, BOTH INSIDE AND OUTSIDE TO PROVIDE A FINISH LOOK. (TYP.)
- 5 PROVIDE LOUVER AS SCHEDULED. COORDINATE FINAL FINISH, SIZE AND LOCATION WITH ARCHITECT PRIOR TO ORDERING. (TYP.)
- 6 PROVIDE WALL MOUNTED PROGRAMMABLE T-STAT AND RH SENSOR AS PER SPECIFICATIONS. INSTALL 48" A.F.F. COORDINATE WITH ARCHITECT AND OWNER TO MEET ADA REQUIREMENTS.
- 7 PROVIDE ROUND SPIRAL LOCK-SEAM DUCT. LONGITUDINAL SEAM TYPE IS NOT ACCEPTABLE. (TYPICAL)
- 8 PROVIDE ACOUSTICAL LINING FOR TRANSFER DUCT. SEE SPECIFICATIONS. (TYPICAL)
- 9 PROVIDE FABRICATED RETURN AIR PLENUM BOX ABOVE RETURN GRILLE.
 INSTALL ACOUSTICAL LINING IN PLENUM BOX. CONNECT WITH FLEX DUCT TO MAIN RETURN TRUNK DUCT WHERE SHOWN ON DRAWING AND INSTALL BALANCING DAMPER WHERE INDICATED. FOR AREAS WHERE FLEX DUCT IS NOT SHOWN, PROVIDE ACOUSTICAL LINING FOR CONNECTION TO MAIN RETURN TRUNK DUCT. SEE DETAIL SHEET. (TYPICAL)
- PROVIDE EXHAUST FAN AS SCHEDULED. SEE ASSOCIATED DETAIL ON DETAIL
- ROUTE CONDENSATE PIPING DOWN FROM ROOF TO FLOOR DRAIN AT THIS APPROXIMATE LOCATION.

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CAMERON APPRAISAL DISTRICT
NEW BUILDING ADDITION AND RENOVATION
2021 AMISTAD DRIVE, SAN BENITO, TEXAS 78586

CESAR A. GONZALEZ

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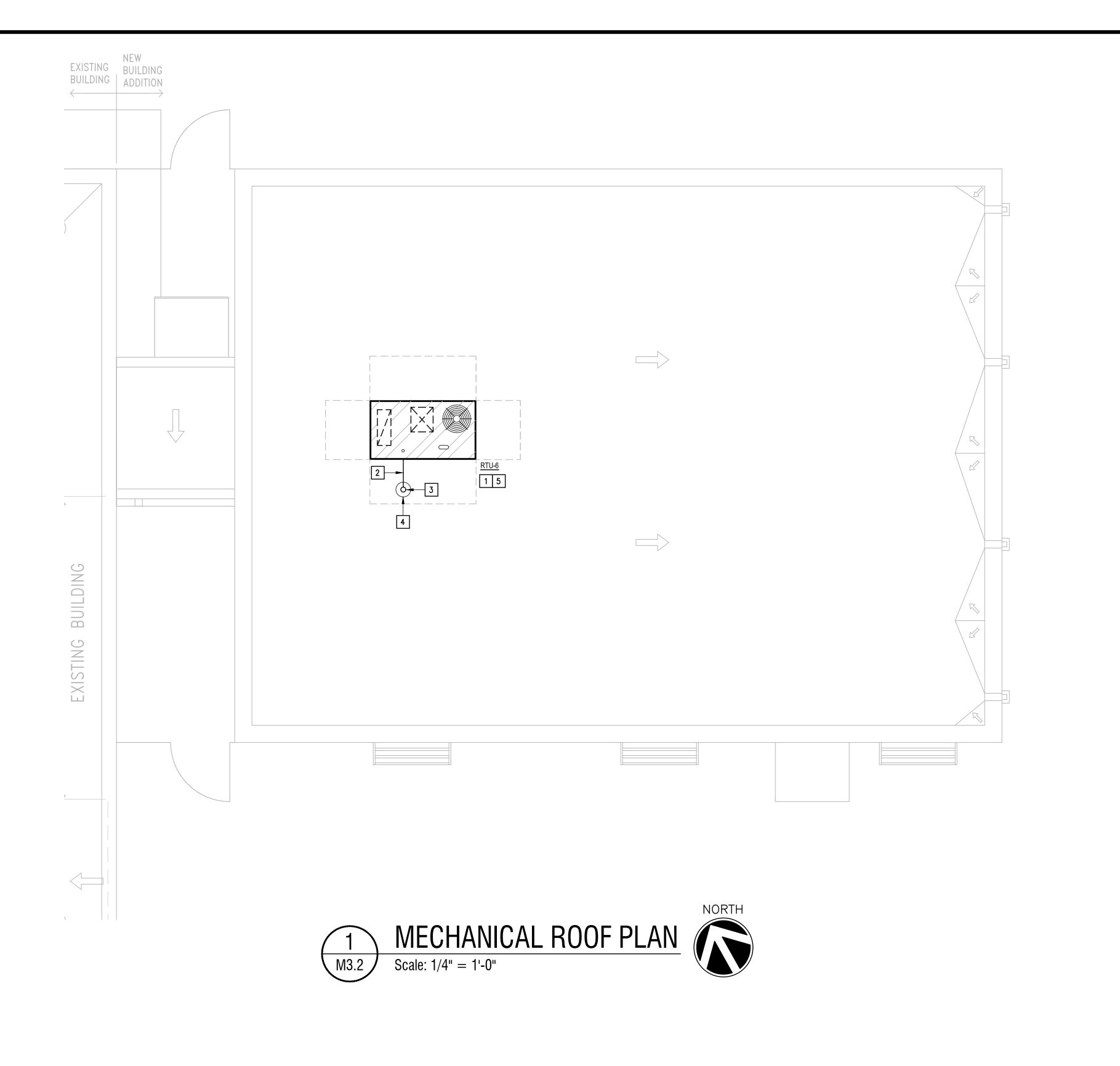
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EXISTING BUILDING

KEYPLAN

M3.1



- 1. ORIENT RTUS TO MINIMIZE DUCTWORK MODIFICATIONS. SEAL ALL OPENINGS AND ENSURE THAT INSTALLATION IS WEATHER-TIGHT. PROVIDE REQUIRED MODIFICATIONS FOR A COMPLETE AND SEAMLESS INSTALLATION.
- 2. PERFORM DUCTWORK TIE-IN FROM NEW UNITS TO VERTICAL DUCTS VIA FLEX CONNECTORS AND TRANSITION DUCTWORK. VERIFY SPACE AVAILABILITY PRIOR TO BIDDING AND PRIOR TO SUBMITTING DUCTWORK SHOP DRAWINGS.
- 3. UNLESS OTHERWISE NOTED PROVIDE CONDENSATE DRAIN LINES WITH P-TRAPS, AND EXTEND TO NEAREST CONDENSATE DRAIN RECEPTOR. SUPPORT PIPING ON PIPING SUPPORTS BY MIRO INDUSTRIES, MODEL 1.5, OR EQUAL.
- 4. PROVIDE ROOF PENETRATION SYSTEM "CHEMCURB" FOR ELECTRICAL AND CONTROL WIRING. REFER TO DETAIL SHEET & ELECTRICAL RISER DIAGRAM.

KEYED NOTES:

- 1 PROVIDE RTU ON ROOF CURB AS SCHEDULED. ORIENT RTUS TO OPTIMIZE DUCTWORK. SEAL ALL OPENINGS AND ENSURE THAT INSTALLATION IS WEATHER-TIGHT. PROVIDE COPPER CONDENSATE DRAIN LINES WITH P-TRAPS, AND EXTEND TO NEAREST CONDENSATE DRAIN RECEPTOR. SUPPORT PIPING IN PIPING SUPPORTS AS DETAILED. PROVIDE ROOF CURB TO INSTALL EQUIPMENT ON ROOF. SECURE EQUIPMENT TO ROOF CURB AND ROOF CURB TO ROOF STRUCTURE AS PER DIV. 7 SPECIFICATIONS. ATTACHMENTS SHALL BE CAPABLE OF WITHSTANDING THE LOCAL WIND PRESSURES.
- 2 PROVIDE COPPER CONDENSATE PIPING ON ROOF AND PROVIDE SUPPORTS AS PER DETAIL. REFER TO DETAIL SHEET. (TYPICAL)
- ROUTE CONDENSATE LINE DOWN TO CEILING SPACE BELOW AT THE APPROXIMATE LOCATION. REFER TO PLUMBING DRAWINGS.
- PROVIDE ROOF PENETRATION SEAL CHEMCURB SYSTEM FOR REFRIGERANT PIPING, HVAC CONTROL WIRING AND ELECTRICAL POWER CONDUITS. SEE ASSOCIATED DETAIL ON DETAIL SHEET. COORDINATE INSTALLATION WITH ELECTRICAL AND PLUMBING CONTRACTORS.
- 5 PROVIDE FACTORY INSTALLED CONVENIENCE ELECTRICAL OUTLET AT RTU. COORDINATE WITH EQUIPMENT MANUFACTURER. COORDINATE WITH ELECTRICAL CONTRACTOR.

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EXISTING BUILDING

KEYPLAN

M3.2

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ROOF TOP UNIT SCHEDULE

												COOLING				HEATING					
	NOMINAL	ROOF	SUPPLY	OA	ESP	MIN.	MCA	MOCP	ELECT.	AIR ON	TOTAL	SENSIBLE	EAT	LAT			ELECT.	MIN.	WEIGHT	NOTES	MODEL NUMBER
MARK	TONS	CURBS	CFM	CFM	(INCHES)	HP	Α	A	V-PH-HZ	COND.	BTUH	BTUH	DB/WB	DB/WB	KW	STG.	V-PH-HZ	S(EER)/IEER	LB		LENNOX
EXISTING BUILDING																					
RTU-1	10	ADAPTER	4000	400	0.75	3	92	100	208-3-60	100	117,620	84,729	75.8/64.6	55.8/54.5	30.0	2	208-3-60	12.2/14.0	1,363	1, 3–16	LCH120H4M
RTU-2	12	ADAPTER	4350	400	0.75	3	92	100	208-3-60	100	136,610	95,374	75.7/64.4	55.0/53.5	30.0	2	208-3-60	11.0/13.5	1,403	1, 3–16	LCH150H4M
RTU-3	7.5	ADAPTER	3000	300	0.75	2	69	70	208-3-60	100	87,690	63,866	75.8/64.6	55.7/54.6	22.5	2	208-3-60	12.7/14.0	1,321	1, 3–16	LCH092H4M
RTU-4	7.5	ADAPTER	3000	300	0.75	2	69	70	208-3-60	100	87,690	63,866	75.8/64.6	55.7/54.6	22.5	2	208-3-60	12.7/14.0	1,321	1, 3–16	LCH092H4M
RTU-5	2	NEW	900	50	0.6	0.25	16	25	208-1-60	100	23,190	20,212	75.5/63.6	57.1/55.9	_	_	208-3-60	12.5/14.0	631	2-16	KCB024S4D
NEW ADDITION						'					·		,	,				,			
RTU-6	5	NEW	1950	200	0.5	1	49	50	208-3-60	100	59,259	43,578	75.8/64.6	54.7/54.1	15.0	2	208-3-60	12.7/17.1	841	2–16	LCH060H4E

NOTES:

- 1. DESIGN INTENT IS TO REUSE EXISTING ROOF CURBS WITH IBC AND WINDSTORM APPROVED ADAPTERS. PROVIDE DELEGATED DESIGN FOR ADAPTORS AS PER NOTE#13 OF THIS SCHEDULE AND AS PER DIV. 7 SPECS.
- PROVIDE ROOF CURBS WITH VERTICAL DUCT CONNECTION, COPPER CONDENSATE TRAP, TXV AND FREEZE-STAT OPTIONS.
 PROVIDE HOODED/LOUVERED HAIL GUARDS, STAINLESS STEEL OR CORROSION RESISTANT POLYCARBONATE DRAIN PANS, GALVANIZED FILTER FRAMES, E-COATED COILS.
- PROVIDE OUTSIDE AIR HOOD, OA MOTORIZED DAMPERS AND ACTUATORS. DO NOT PROVIDE EXHAUST OR RELIEF AIR OPENINGS.
- PROVIDE HOT GAS REHEAT AND HUMIDITY CONTROL OPTION, UNIT MOUNTED UNITARY CONTROLLERS AND PROGRAMMABLE THERMOSTATS.
- HEATING KW IN RTU SCHEDULE IS RATED HEATING CAPACITY, NOT NOMINAL KW. FAN HP SHALL BE PER MFR'S RECOMMENDATION. ELECTRICAL DISCONNECT BY DIV. 26. COORDINATE WITH ELECTRICAL CONTRACTOR.
- 8. PROVIDE WALL MOUNTED TEMPERATURE AND RELATIVE HUMIDITY AS SHOWN ON MECHANICAL PLANS.
- EQUIPMENT MANUFACTURER AND MECH. CONTRACTOR SHALL COORDINATE THE PROVISION AND INSTALLATION OF T AND RH SENSORS TO ENSURE THESE ARE ALL PROVIDED PROPERLY ON THE PROJECT.
- 10. PROVIDE MULTI STAGE AIR VOLUME ON ALL UNITS TO MATCH AIR FLOW TO COMPRESSOR STAGING
 11. PROVIDE 2 STAGE COMPRESSORS ON UNITS 5 TONS AND UNDER AND 2 CIRCUITS ON LARGER UNITS
- 2. PROVIDE FACTORY—INSTALLED CONVENIENCE ELECTRICAL OUTLETS AT INDICATED RTUS. SEE MECHANICAL ROOF PLANS FOR LOCATIONS, DIV. 26 TO PROVIDE WIRING AND POWER FOR THE OUTLETS. COORDINATE WITH ELECTRICAL CONTRACTOR.
- 13. PROVIDE IBC 2012 COMPLIANT CURB AND ATTACHMENTS FROM UNIT TO CURB AND CURB TO STRUCTURE. EQUIPMENT OR CURB MANUFACTURER IS RESPONSIBLE FOR PROVIDING ENGINEERED DETAIL ANALYSIS OF:
 - 1) ATTACHMENT OF EQUIPMENT TO CURB.
 - 2) CURB TO STRUCTURE.
 - 3) CURB AND ATTACHMENT HARDWARE STRENGTH.
 - REFER TO ARCHITECTURAL AND STRUCTURAL DRAWINGS FOR ROOF SUBSTRATE DETAILS.
 - EQUIPMENT OR CURB MANUFACTURER IS ALSO RESPONSIBLE FOR PROVIDING ENGINEERED INSTALLATION DRAWINGS FOR ITEMS 1 AND 2 LISTED ABOVE.
 - BOTH, THE ENGINEERED ANALYSIS AND THE ENGINEERED INSTALLATION DRAWINGS SHALL BE PERFORMED SPECIFICALLY FOR THIS BUILDING AND PROJECT SITE AND STAMPED AND SEALED BY A TEXAS LICENSED ENGINEER.
 - SUBMITTALS WILL NOT BE APPROVED UNTIL ALL DOCUMENTATION LISTED ABOVE IS PROVIDED ACCURATELY.

AIR DEVICE & DIFFUSER SCHEDULE

SUPPLY AIR DIFFU	JSER (SD-1)				
	TITUS TMS-AA		DESCRIPTION: ALUMINUM HIGH PERFORMAN	NCE, THREE CONE DIFF	FUSER,
	NC < 20		BORDER TYPE 3, COLOR WHITE WITH ROL	JND NECK AND	
			FULL FACE		
CLG. MODULE	FACE	ROUND NECK	FLEX	DIFFUSER	
SIZE	SIZE	SIZE	DUCT	DIFFUSION	NOTES
INCHES	INCHES		SIZE	PATTERN & CFM	
		TO MATCH			
24 X 24	24 X 24	NC CRITERIA	SEE PLAN	SD1-CFM	1-4,6
SUPPLY AIR DIFFU	, ,				
	TITUS TMS-AA		DESCRIPTION: ALUMINUM HIGH PERFORMAN	NCE, THREE CONE DIFF	FUSER,
	NC < 20		BORDER TYPE 1, COLOR WHITE WITH ROL	JND NECK AND	
	,		FULL FACE		
CLG. MODULE	FACE	ROUND NECK	FLEX	DIFFUSER	
SIZE	SIZE	SIZE	DUCT	DIFFUSION	NOTES
INCHES	INCHES		SIZE	PATTERN & CFM	
		TO MATCH			
12 X 12	12 X 12	NC CRITERIA	SEE PLAN	SD2-CFM	1-4,6
RETURN, EXHAUST	, AND TRANSFER AIR	GRILLE (RG-1, EG	G-1, & TG-1)		
	TITUS 50F		DESCRIPTION: ALUMINUM GRID EGGCRATE	RETURN GRILLE WITH	
	NC < 20		BORDER TYPE 3 (LAY-IN).		
CFM	CLG. MODULE	NOMINAL DUCT SIZE	DIFFUSER		
RANGE	SIZE	INCHES	DIFFUSION		NOTES
	INCHES	(INLET)	PATTERN & CFM		
0 - 1600	24 X 24	18 X 18	EG1-CFM (EXHAUST AIR GRILLES ONLY)		1,2,4,5,6
0 - 1600	24 X 24	18 X 18	RG1-CFM (RETURN AIR GRILLES ONLY)		1,4,6
0 - 1600	24 X 24	18 X 18	TG1-CFM (TRANSFER AIR GRILLES ONLY)		1,4,6

NOTES

- 1. PROVIDE MANUFACTURER'S STANDARD BAKED WHITE ENAMEL FINISH.
- 2. PROVIDE FULL SIZE BACK PAN WITH DUCT ADAPTER.

 3. INSULATE BACK PAN ON ALL SUPPLY AIR DIFFUSERS AND CRILLE
- 3. INSULATE BACK PAN ON ALL SUPPLY AIR DIFFUSERS AND GRILLES.

 4. PROVIDE MOUNTING FRAME TYPE COMPATIBLE WITH SCHEDULED CELLING OF
- PROVIDE MOUNTING FRAME TYPE COMPATIBLE WITH SCHEDULED CEILING OR WALL (SURFACE OR LAY-IN). PROVIDE BALANCING DAMPER ON ALL EXHAUST GRILLES.
- 6. AIR DEVICES SHALL MATCH ARCHITECTURAL FINISH. COORDINATE COLOR WITH ARCHITECT.

EXHAUST FAN SCHEDULE

			ELECTR.		INPUT	MOTOR	E.S.P.	SOUND	MANUFACTURER	WEIGHT	CONTROL	
MARK	SERVING	TYPE	V/H/P	CFM	WATTS	HP	IN. H20	IN SONES	& MODEL NUMBER	(LBS)	NOTES	NOTES
EXISTING BUILDI	NG RENOVATION											
	SEE	ROOF							COOK			
EF-1	PLANS	MOUNTED	120/60/1	75	51.6	_	0.4	2.9	ACE-D-90C15DL	30	Α	1-4, 7-10
	SEE	ROOF							COOK			
EF-2	PLANS	MOUNTED	120/60/1	75	51.6	_	0.4	2.9	ACE-D-90C15DL	30	Α	1-4, 7-10
	SEE	ROOF							COOK			
EF-3	PLANS	MOUNTED	120/60/1	150	60.5	_	0.4	4.0	ACE-D-90C15DM	30	Α	1-4, 7-10
	SEE	ROOF							COOK			
EF-4	PLANS	MOUNTED	120/60/1	150	60.5	_	0.4	4.0	ACE-D-90C15DM	30	Α	1-4, 7-10
	SEE	ROOF							COOK			
EF-5	PLANS	MOUNTED	120/60/1	300	98.1	-	0.4	6.7	ACE-D-10015DM	31	Α	1-4, 7-10
	SEE	ROOF							COOK			
EF-6	PLANS	MOUNTED	120/60/1	75	51.6	_	0.4	2.9	ACE-D-90C15DL	30	A	1-4, 7-10
NEW BUILDING	ADDITION											
	TOILET	CEILING							LOREN COOK			
EF-7	136A	MOUNTED	120/60/1	75	34.4	_	0.4	1.5	GC-166	12	A	1-6
	TOILET	CEILING							LOREN COOK			
EF-8	136A	MOUNTED	120/60/1	75	34.4	_	0.4	1.5	GC-166	12	Α	1-6

OTES:

- PROVIDE FACTORY MOUNTED DISCONNECT.
 MANUFACTURER AND MODEL NUMBER LISTED ARE "OR APPROVED EQUAL." REFER TO SPECIFICATIONS.
- PROVIDE FIELD—INSTALLED FAN SPEED CONTROLLER. COORDINATE INSTALLATION WITH ELECTRICAL CONTRACTOR.
- PROVIDE FAN WITH ALL ALUMINUM BACKDRAFT DAMPER.
 PROVIDE DELUXE ALUMINUM GRILLE.
- PROVIDE SPRING TYPE VIBRATION ISOLATORS FROM MANUFACTURER.
- PROVIDE PREMIUM EFFICIENCY MOTOR WITH FACTORY WIRED DISCONNECT SWITCH, NEMA 1.
- PROVIDE SOUND ATTENUATING ALUMINUM ROOF CURB AND LORENIZED COATING.
 PROVIDE STAINLESS STEEL INSECT SCREEN, EXTENDED LUBE LINES AND BACKDRAFT DAMPER.
- PROVIDE STAINLESS STEEL INSECT SCREEN, EXTENDED LUBE LINES AND BACKDRAFT DAMPER.

 PROVIDE IBC 2012 COMPLIANT CURB AND ATTACHMENTS FROM UNIT TO CURB AND CURB TO STRUCTURE. EQUIPMENT OR CURB MANUFACTURER IS
- RESPONSIBLE FOR PROVIDING ENGINEERED DETAIL ANALYSIS OF:
- ATTACHMENT OF EQUIPMENT TO CURB.
 CURB TO STRUCTURE.
- 3) CURB AND ATTACHMENT HARDWARE STRENGTH.
- REFER TO ARCHITECTURAL AND STRUCTURAL DRAWINGS FOR ROOF SUBSTRATE DETAILS.
- EQUIPMENT OR CURB MANUFACTURER IS ALSO RESPONSIBLE FOR PROVIDING ENGINEERED INSTALLATION DRAWINGS FOR ITEMS 1 AND 2 LISTED ABOVE.

 BOTH, THE ENGINEERED ANALYSIS AND THE ENGINEERED INSTALLATION DRAWINGS SHALL BE PERFORMED SPECIFICALLY FOR THIS BUILDING AND PROJECT
- SITE AND STAMPED AND SEALED BY A TEXAS LICENSED ENGINEER.
- SUBMITTALS WILL NOT BE APPROVED UNTIL ALL DOCUMENTATION LISTED ABOVE IS PROVIDED ACCURATELY. CONTROL NOTES:

A. FAN SHALL BE OPERATED BY A WALL SWITCH VIA THE OCCUPANCY SENSOR PROVIDED BY DIV.26 COORDINATE WITH ELECTRICAL

LOUV	'ER SCHEDUI	LE				
		CFM	FACE	MIN. FREE	MANUFACTURER &	
MARK	SERVES	RANGE	SIZE (W X H)	AREA (FT2)	MODEL NUMBER	NOTES
NEW BUI	LDING ADDITION					
L-1	EF-7, EF-8	150	18 X 12	0.41	RUSKIN	
					EME520MD	ALL

NOTES:

- 1. PRIOR TO ORDERING, COORDINATE LOUVER FINISH AND EXACT FACE SIZE WITH ARCHITECT.
- PROVIDE STAINLESS STEEL BIRD SCREEN AND HARDWARE.
 PROVIDE FACTORY APPLIED KYNAR 500 FINISH.
- PROVIDE WITH TDI PRODUCT EVALUATION REPORT.



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8,16,2018

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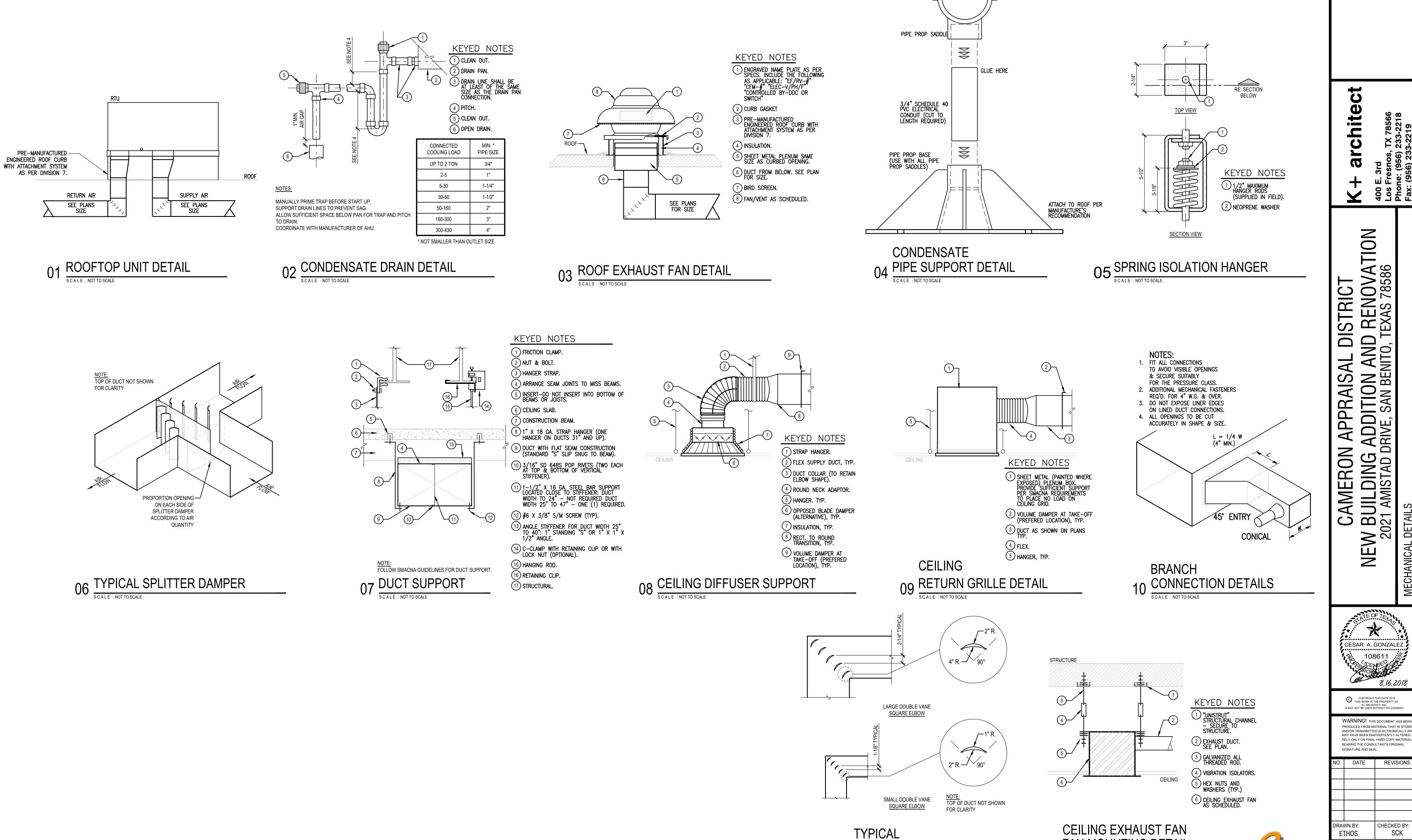
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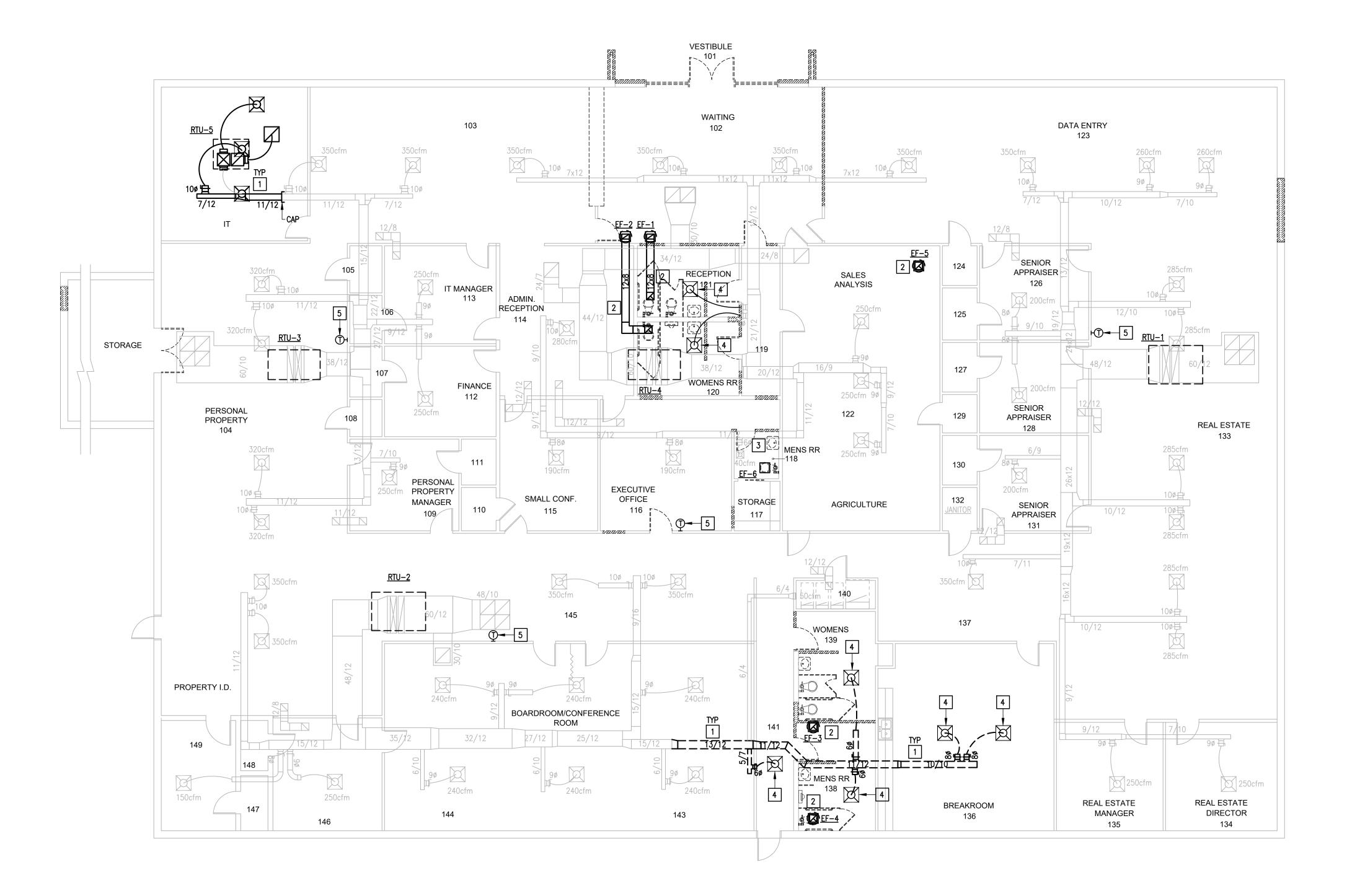
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12 FAN MOUNTING DETAIL
SCALE: NOT TO SCALE

1 VANED DUCT ELBOWS

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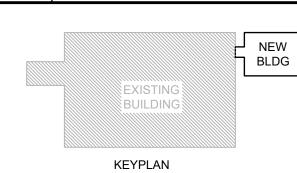


- REMOVED MATERIALS SHALL BELONG TO OWNER. DELIVER THEM TO OWNERS DESIGNATED LOCATION. IF OWNER DOES NOT WANT THE REMOVED MATERIALS THEN REMOVE THEM FROM SITE & PROPERLY DISPOSE OF THEM.
- 2. REFER TO ARCHITECTURAL DEMOLITION DRAWINGS FOR WALL AND CEILINGS TO
- 3. REFER TO ARCHITECTURAL SPECIFICATIONS FOR PHASING REQUIREMENTS.
- 4. PRIOR TO DEMOLITION, IN CEILINGS SCHEDULED TO BE REMOVED AND(OR) REPLACED FOR NEW HVAC DUCTWORK, NEW PLUMBING, NEW FIRE SPRINKLER, NEW ELECTRICAL, AND NEW LIGHTING, PREPARE REFLECTED CEILING PLAN SKETCH SHOWING LOCATIONS OF ALL CEILING COMPONENTS AND DEVICES TO BE RE-USED INCLUDING BUT NOT LIMITED TO: • LIGHT FIXTURES; INCLUDING EMERGENCY AND EXIT LIGHTS
- CAMERAS WIRELESS ACCESS POINTS
- FIRE ALARM DEVICES • EMERGENCY LIGHTING
- ETC.
 IF ANY OF THE ABOVE ITEMS ARE IN NON-WORKING CONDITION, SUBMIT A WRITTEN REPORT TO OWNER/ENGINEER. TEMPORARY SUPPORT AND OR REMOVAL OF THESE SYSTEMS SHALL BE PROVIDED FOR NEW WORK.

DEMOLITION KEYED NOTES:

- 1 DEMOLISH EXISTING DUCTWORK AS SHOWN. SEE NEW PLAN FOR NEW DUCTWORK.
- DEMOLISH EXISTING DUCTWORK UP TO EXHAUST FAN ON ROOF. SEE NEW PLAN FOR WORK IN THIS AREA.
- 3 DEMOLISH CEILING EXHAUST FAN. SEE NEW PLAN FOR WORK IN THIS AREA.
- REMOVE EXISTING AIR DEVICE THAT WILL BE REUSED AND RELOCATED. SEE NEW PLAN FOR NEW LOCATION.
- 5 DEMOLISH EXISTING THERMOSTAT. SEE NEW PLAN FOR NEW LOCATION.

	LEGEND
	EXISTING WALL TO REMAIN
	NEW WALL
=====	EXISTING WALL TO BE DEMOLISHED
	EXISTING UNIT TO BE DEMOLISHED
	EXISTING UNIT TO REMAIN
	NEW UNIT
6x6	EXISTING DUCTWORK TO REMAIN
6x6	EXISTING DUCTWORK TO BE DEMOLISHED
6x6	NEW DUCTWORK
T	T-STAT TO REMAIN
T	T-STAT TO BE DEMOLISHED
T	NEW T-STAT



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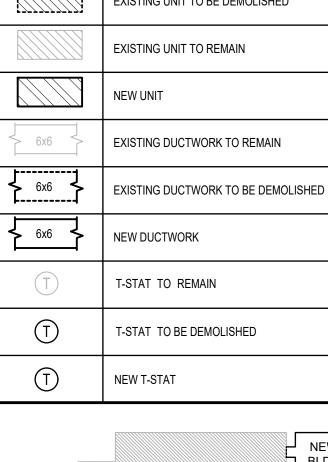
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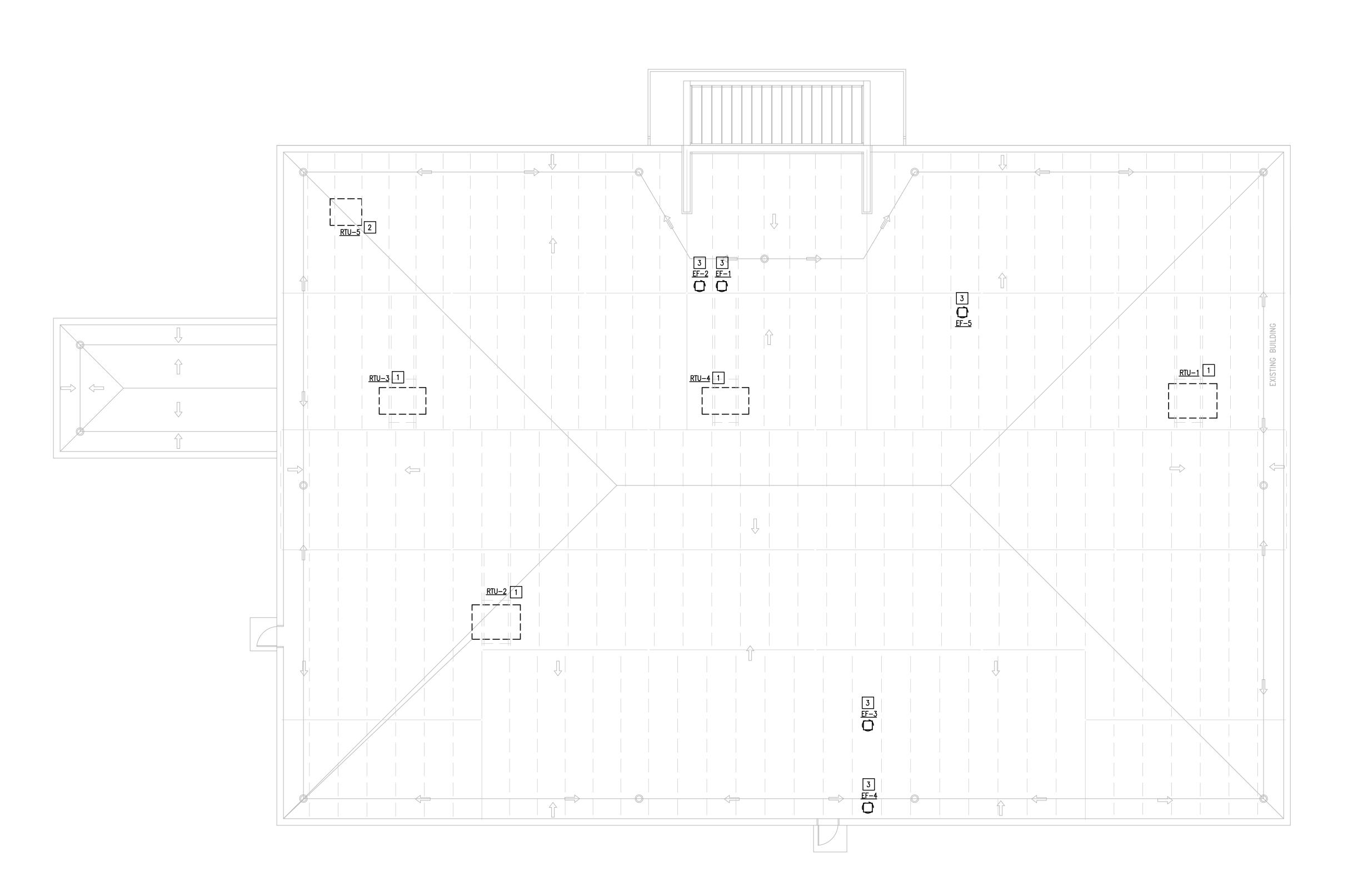
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DEMOLITION GENERAL NOTES:

- 1. OWNER MAY WISH TO KEEP DEMOLISHED EQUIPMENT AND MATERIALS. COORDINATE WITH OWNER, AND DISPOSE OF EQUIPMENT AND MATERIALS THAT OWNER DOES NOT RETAIN.
- 2. UNLESS NOTED OTHERWISE RETAIN AND REUSE EXISTING CURBS AND PROVIDE NEW CURB ADAPTORS TO INSTALL NEW UNITS.

KEYED NOTES:

- DEMOLISH EXISTING DX PACKAGED ROOFTOP UNIT (RTU), CURB ADAPTERS AND CONTROLS. RETAIN EXISTING ROOF CURBS. PROVIDED CONTRACTOR CAN OBTAIN WIND STORM CERTIFICATION WITH EXISTING CURBS. REFER TO ELECTRICAL DRAWINGS FOR WORK RELATED TO DISCONNECTS, CONDUITS, WIRING, ETC.
- DEMOLISH EXISTING DX PACKAGED ROOFTOP UNIT (RTU), CURB ADAPTERS, CONTROLS. AND EXISTING ROOF CURB. SEE NEW PLAN FOR NEW RTU LOCATION. REFER TO ELECTRICAL DRAWINGS FOR WORK RELATED TO DISCONNECTS, CONDUITS, WIRING, ETC. COORDINATE PATCHING OF ROOF WITH ARCHITECT AND ROOFING CONTRACTOR.
- 3 DEMOLISH EXISTING EXHAUST FAN ON ROOF, AND ASSOCIATED ROOF CURB. SEE NEW PLAN FOR NEW WORK. COORDINATE PATCHING OF ROOF WITH ARCHITECT AND ROOFING CONTRACTOR.

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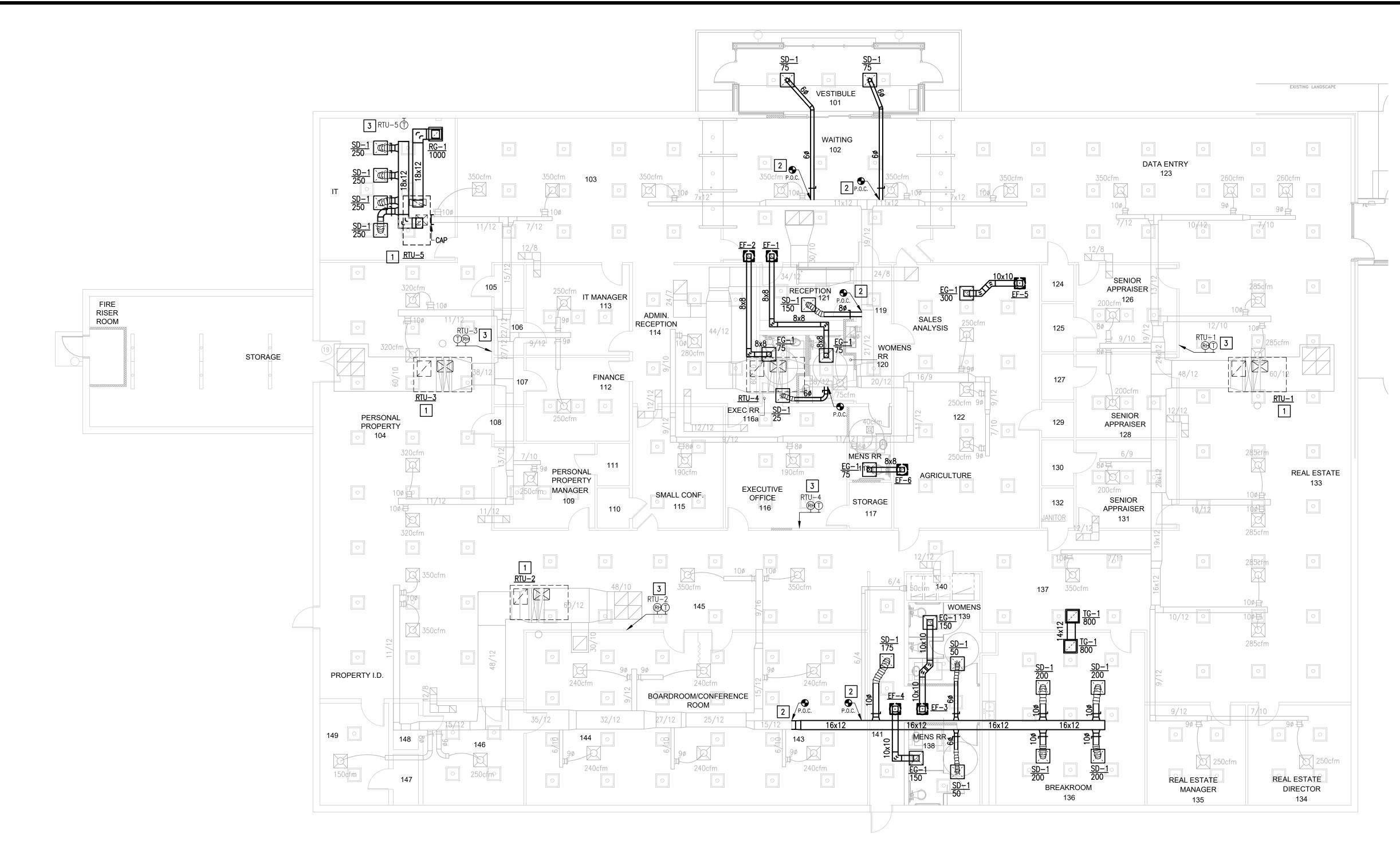
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EXISTING BUILDING NEW BLDG

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MECHANICAL GENERAL NOTES:

 PRIOR TO LABELING EQUIPMENT, COORDINATE DESIGNATION AND IDENTIFICATION WITH OWNER AND BUILDING AUTOMATION SYSTEM.

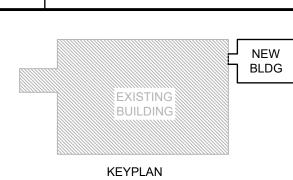
REQUIRED MODIFICATIONS FOR A COMPLETE AND SEAMLESS INSTALLATION.

- DUCTWORK IS TO BE RETAINED. ORIENT RTUS TO MINIMIZE DUCTWORK MODIFICATIONS.
 SEAL ALL OPENINGS AND ENSURE THAT INSTALLATION IS WEATHER-TIGHT. PROVIDE
- 3. PERFORM DUCTWORK TIE—IN FROM NEW UNITS TO VERTICAL DUCTS VIA FLEX CONNECTORS AND TRANSITION DUCTWORK. FIELD—VERIFY EXISTING SPACE AVAILABILITY PRIOR TO BIDDING AND PRIOR TO SUBMITTING DUCTWORK SHOP DRAWINGS.
- 4. UNLESS OTHERWISE NOTED PROVIDE CONDENSATE DRAIN LINES WITH P-TRAPS, AND EXTEND TO NEAREST CONDENSATE DRAIN RECEPTOR. SUPPORT PIPING AS PER SPECIFICATIONS AND DETAILS.
- 5. AFTER ABOVE CEILING WORK IS COMPLETE, REINSTALL CEILING SYSTEMS, COMPONENTS, AND CEILING DEVICES TO ORIGINAL CONDITION.
- 6. PROVIDE ROOF PENETRATION SYSTEM "CHEMCURB" FOR ELECTRICAL AND CONTROL WIRING. REFER TO DETAIL SHEET & ELECTRICAL RISER DIAGRAM.

MECHANICAL KEYED NOTES:

- PROVIDE RTU ON ROOF AS SCHEDULED. SEE MECHANICAL ROOF PLAN FOR MORE INFORMATION.
- 2 CONNECT NEW DUCTWORK INTO EXISTING AT THIS APPROXIMATE LOCATION.
- 3 PROVIDE WALL MOUNTED PROGRAMMABLE T-STAT AND RH SENSOR AS PER SPECIFICATION. INSTALL 48" A.F.F.COORDINATE WITH ARCHITECT AND OWNER TO MEET ADA REQUIREMENTS.

	LEGEND
	EXISTING WALL TO REMAIN
	NEW WALL
	EXISTING WALL TO BE DEMOLISHED
	EXISTING UNIT TO BE DEMOLISHED
	EXISTING UNIT TO REMAIN
	NEW UNIT
6x6	EXISTING DUCTWORK TO REMAIN
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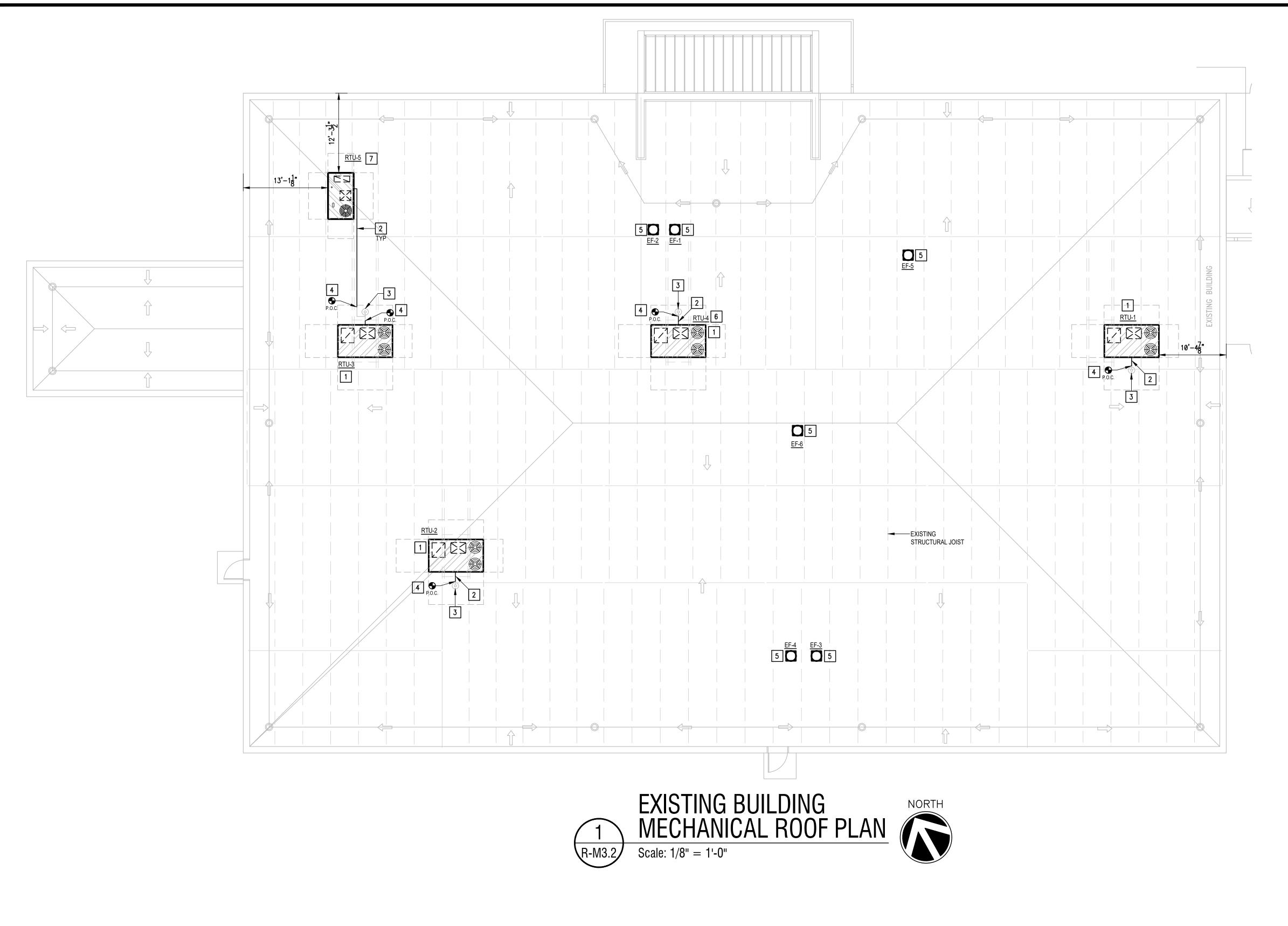
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- 1. DUCTWORK IS TO BE RETAINED ORIENT RTUS TO MINIMIZE DUCTWORK MODIFICATIONS. SEAL ALL OPENINGS AND ENSURE THAT INSTALLATION IS WEATHER-TIGHT. PROVIDE REQUIRED MODIFICATIONS FOR A COMPLETE AND SEAMLESS INSTALLATION.
- 2. DUCTWORK IS TO BE RETAINED. ORIENT RTUS TO MINIMIZE DUCTWORK MODIFICATIONS. SEAL ALL OPENINGS AND ENSURE THAT INSTALLATION IS WEATHER-TIGHT. PROVIDE REQUIRED MODIFICATIONS FOR A COMPLETE AND SEAMLESS INSTALLATION.
- 3. PERFORM DUCTWORK TIE-IN FROM NEW UNITS TO VERTICAL DUCTS VIA FLEX CONNECTORS AND TRANSITION DUCTWORK. FIELD-VERIFY EXISTING SPACE AVAILABILITY PRIOR TO BIDDING AND PRIOR TO SUBMITTING DUCTWORK SHOP DRAWINGS.
- 4. UNLESS OTHERWISE NOTED PROVIDE CONDENSATE DRAIN LINES WITH P-TRAPS, AND EXTEND TO NEAREST CONDENSATE DRAIN RECEPTOR. SUPPORT PIPING ON PIPING SUPPORTS BY MIRO INDUSTRIES, MODEL 1.5, OR EQUAL.
- 5. OWNER APPROVED ROOFING CONTRACTOR SHALL PROVIDE ALL ROOF REPAIRS. PATCH ROOF WHERE EXISTING EQUIPMENT SUCH AS RTUS, ACCUS, DISCONNECTS, ETC. HAVE BEEN REMOVED, AND NEW ROOF CURBS ARE PROVIDED.
- 6. AFTER ABOVE CEILING WORK IS COMPLETE, REINSTALL CEILING SYSTEMS, COMPONENTS, AND CEILING DEVICES TO ORIGINAL CONDITION.
- 7. PROVIDE ROOF PENETRATION SYSTEM "CHEMCURB" FOR ELECTRICAL AND CONTROL WIRING. REFER TO DETAIL SHEET & ELECTRICAL RISER DIAGRAM.

KEYED NOTES:

- PROVIDE NEW DX-ROOFTOP UNIT (RTU) ON EXISTING ROOF CURB WITH TRANSITION ROOF CURB ADAPTER. SEAL ALL OPENINGS AND ENSURE THAT INSTALLATION IS WEATHER-TIGHT. SECURE EQUIPMENT TO ROOF CURB AND ROOF CURB TO ROOF STRUCTURE. ATTACHMENTS SHALL BE CAPABLE OF WITHSTANDING THE LOCAL WIND PRESSURES. REFER TO DIV. 7 FOR MORE INFORMATION. IF TRANSITION CURBS WILL NOT MEET IBC REQUIREMENTS FOR WIND RESTRAINTS, PROVIDE NEW ROOF CURBS.
- 2 PROVIDE COPPER CONDENSATE PIPING ON ROOF AND PROVIDE SUPPORTS AS PER DETAIL. (TYPICAL)
- REUSE EXISTING ROOF PENETRATION. COORDINATE INSTALLATION WITH ELECTRICAL AND PLUMBING CONTRACTORS.
- 4 CONNECT TO EXISTING COPPER CONDENSATE PIPING AT THIS APPROXIMATE LOCATION.
- 5 PROVIDE EXHAUST FAN ON NEW ROOF CURB AS SCHEDULED. SEAL ALL OPENINGS AND ENSURE THAT INSTALLATION IS WEATHER-TIGHT.
- PROVIDE FACTORY INSTALLED CONVENIENCE ELECTRICAL OUTLET AT RTU. COORDINATE WITH EQUIPMENT MANUFACTURER. COORDINATE WITH ELECTRICAL CONTRACTOR.
- PROVIDE NEW DX-ROOFTOP UNIT (RTU) ON NEW ROOF CURB. SEAL ALL OPENINGS AND ENSURE THAT INSTALLATION IS WEATHER-TIGHT. SECURE EQUIPMENT TO ROOF CURB AND ROOF CURB TO ROOF STRUCTURE. ATTACHMENTS SHALL BE CAPABLE OF WITHSTANDING THE LOCAL WIND PRESSURES. REFER TO DIV. 7 FOR MORE

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LEGEND:

NEW UNIT

EXISTING BUILDING

EX. UNIT TO REMAIN

HEET NO. R-M3.2

ABBREVIATIONS:

Α	AMPS	EF	EXHAUST FAN	MECH	MECHANICAL
ABC	AB0VE CEILING LINE	EMS	ENERGY MANAGEMENT SYSTEM	MS	MOTOR STARTER
AC	ABOVE COUNTER BACKSPLASH	EXT.	EXTERNAL OR EXTERIOR	NTS	NOT TO SCALE
AFF	ABOVE FINISHED FLOOR	FACP	FIRE ALARM CONTROL PANEL	PH	PHASE
BLC.	BELOW CEILING LINE	G.	GROUND	RM.	ROOM
C.	CONDUIT OR COMMON	GALV.	GALVANIZED	RTU	ROOF TOP UNIT
CLG.	CEILING	GRND.	GROUND	SS	STAINLESS STEEL
COMB.	COMBINATION	HP	HORSEPOWER	UG	UNDERGROUND
COND.	CONDUIT	HVAC	HEATING, VENTILATION,	UNO	UNLESS OTHERWISE NOTED
CU.	COPPER		& AIR CONDITIONING	٧	VOLTS
DISC.	DISCONNECT	INT.	INTRUSION DETECTION	W	WIRE

WIRING DEVICES SYMBOL LEGEND:

SYMBOL	DESCRIPTION	MNTG. HT. UNO (SEE NOTE 1)
0	DUPLEX RECEPTACLE — HUBBELL MODEL #5352X	18 " AFF
○ GFCI	DUPLEX RECEPTACLE W/ GROUND FAULT INTERRUPTING TYPE — HUBBELL MODEL #GF20X	18"AFF
⊖ GFCI WICP	DUPLEX RECEPTACLE TAMPER RESISTANT W/ GRND. FAULT INTERRUPTING TYPE — HUBBELL MODEL #GFTWRST20X & WHILE IN USE WEATHERPROOF COVER — HUBBELL MODEL #WP26EH	18"AFF
O -AC	DUPLEX RECEPTACLE — HUBBELL MODEL #5352X MOUNT @ +4" HORIZONTALLY ABOVE COUNTER BACKSPLASH (U.N.O.)	4"ACB
©	SPECIAL RECEPTACLE — TYPE AS NOTED	18"AFF
Ю	JUNCTION BOX W/ BLANK STAINLESS STEEL COVERPLATE	AS REQUIRED

- 1.) 48" AFF INDICATES TO TOP OF DEVICE;
 18" AFF INDICATES TO TOP OF DEVICE;
 ALL OTHER MOUNTING HEIGHTS REFER TO CENTERLINE OF DEVICE.
 AC INDICATES 4" ABOVE COUNTER TO BOTTOM OF DEVICE.
 U.N.O. INDICATES UNLESS NOTED OTHERWISE.

GENERAL SYMBOL LEGEND:

SYMBOL	DESCRIPTION	MNTG. HT. UNO (SEE NOTE 1)
ㅁ	DISCONNECT SWITCH — NON FUSED	AS REQUIRED
\odot	EQUIPMENT CONNECTION	AS REQUIRED
	ELECTRICAL PANELBOARD — SURFACE MOUNTED	AS REQUIRED
-	ELECTRICAL PANELBOARD — RECESSED/FLUSH MOUNTED	AS REQUIRED
	UNDERGROUND RACEWAY	AS REQUIRED
	CONCEALED RACEWAY	AS REQUIRED
Here	CONDUIT OR EMT HOMERUN TO PANELBOARD CONCEALED IN WALLS OR ABOVE CEILING. LONG CROSSMARKS DENOTE NUMBER OF "HOT" CONDUCTORS SHORT CROSSMARKS INDICATE NEUTRALS AND DOTS INDICATE NUMBER OF GROUND CONDUCTORS. ARROW INDICATES HOME RUN TO ELECTRICAL PANEL.	AS REQUIRED

LUTRON CONTROL SYMBOLS:

SYMBOL	DESCRIPTION	MNTG. HT. UNO (SEE NOTE 1)
S_{VS}	VACANCY WALL SWITCH SENSOR - LUTRON MS-OPS6M2-DV-WH	48"AFF
T8)	DIMMING POWER PACK MODULE - LUTRON RMJS-8T-DV-B	ABV. CLG.
P 381	WIRELESS DIMMING SWITCH - LUTRON PJ2-3BRL-GWH-L01 (CW-1-WH)	48"AFF
P 2	WIRELESS SWITCH - LUTRON PJ2-2B-GWH-LØ1 (CW-1-WH)	48"AFF
(S)	WIRELESS OCCUPANCY SENSOR - LUTRON LRF2-OCR2B-P-WH	CLG.
S16	SWITCHING POWER PACK MODULE - LUTRON RMJ-16R-DV-B	ABV. CLG.
S _{Z10}	VACANCY DIMMING WALL SWITCH SENSOR - LUTRON MS-Z101-WH	48" AFF
OS	WIRELESS CORNER VACANCY SENSOR - LUTRON LRF2-OKLB-P-WH	9'-0" AFF

LIGHTING SYMBOL LEGEND:

SYMBOL	DESCRIPTION	MNTG. HT. UNO (SEE NOTE 1)
	2'X4' LIGHT FIXTURE — TYPE AS NOTED	
	EMERGENCY 2'X4' LIGHT FIXTURE—TYPE AS NOTED CONNECT BATTERY PACK TO BE ON AT ALL TIMES (UNSWITCHED)	
	SURFACE/WRAPAROUND LIGHT FIXTURE	
0	SURFACE/WRAPAROUND EMERGENCY LIGHT FIXTURE CONNECT BATTERY PACK TO BE ON AT ALL TIMES (UNSWITCHED)	
₽	SINGLE FACE EXIT SIGN CEILING OR WALL MOUNTING (DIRECTIONAL ARROWS WHERE INDICATED)	12" ABV. EGRESS OPENING
**	DOUBLE FACE EXIT SIGN CEILING OR WALL MOUNTING (DIRECTIONAL ARROWS WHERE INDICATED)	12" ABV. EGRESS OPENING
Q	WALL MOUNT LIGHT FIXTURE - TYPE AS NOTED	
0	PENDANT LIGHT FIXTURE — TYPE AS NOTED	

1.) REFERENCE LIGHT FIXTURE SCHEDULE FOR ALL MOUNTING HEIGHTS.

WIRING DEVICES SYMBOL LEGEND:

SYMBOL	DESCRIPTION	MNTG. HT. UNO (SEE NOTE 1)
S	SINGLE POLE TOGGLE SWITCH — HUBBELL MODEL #HBL1221X	48"AFF
S ₃	THREE WAY TOGGLE SWITCH — HUBBELL MODEL #HBL1223X	48"AFF
S ₄	FOUR WAY TOGGLE SWITCH — HUBBELL MODEL #HBL1224X	48"AFF
S _K	KEYED TOGGLE SWITCH CORBIN TYPE — HUBBELL MODEL #HBL1221RKLX	48"AFF
S _T	1P TOGGLE SWITCH-THERMAL TYPE - SQUARE "D" CLASS 2510 W/ RED PILOT LIGHT & HANDLE GUARD/LOCK OFF	AS REQUIRED
PC	DIGITAL OUTDOOR PHOTO CELL WALL MOUNTED — LC&D SEE DETAIL	12' AFF
IOTES:		

1.) 48" AFF INDICATES TO TOP OF DEVICE;
ALL OTHER MOUNTING HEIGHTS REFER TO CENTERLINE OF DEVICE.

FIRE ALARM SYMBOL LEGEND:

SYMBOL	DESCRIPTION	MNTG. HT. UNO (SEE NOTE 1)
PS	FIRE ALARM MANUAL PULLSTATION — PROVIDE BACKBOX WITH 1/2"C AND PULLWIRE.	48"AFF
@	FIRE ALARM STROBE HORN — PROVIDE 15/75 CANDELA U.N.O. — PROVIDE BACKBOX WITH 1/2°C AND PULLWIRE.	CLG.
FS WP	FIRE SPRINKLER RISER ALARM SPEAKER STROBE (WEATHER PROOF) — PROVIDE BACKBOX WITH 1/2°C AND PULLWIRE.	80"AFF
Ø	FIRE ALARM STROBE LIGHT CEILING OR WALL MOUNTED — PROVIDE BACKBOX WITH 1/2"C AND PULLWIRE.	80"AFF
®	FIRE ALARM HEAT DETECTOR CEILING OR WALL MOUNTED — PROVIDE BACKBOX WITH 1/2"C AND PULLWIRE.	CLG.
F	FIRE SPRINKLER FLOW SWITCH	
TS	FIRE SPRINKLER TAMPER SWITCH - PROVIDE BACKBOX WITH 1/2"C AND PULLWIRE.	
	FIRE ALARM CONTROL/VOICE EVACUATION PANEL (FLUSH MOUNTED)	
-	FIRE ALARM ANNUNCIATOR PANEL (SURFACE MOUNTED)	
NOTEC.		

SPECIAL SYSTEMS SYMBOL LEGEND:

SYMBOL	DESCRIPTION	MNTG. HT. UNO (SEE NOTE 1)
•	DATA OUTLET/VOICE OVER IP - PROVIDE BACK BOX WITH 1" RACEWAY STUBBED INTO ACCESSIBLE CLG. WITH PULL WIRE - SEE DETAIL.	18"AFF

1.) 48" AFF INDICATES TO TOP OF DEVICE; ALL OTHER MOUNTING HEIGHTS REFER TO CENTERLINE OF DEVICE.

CCCTV SYSTEM SYMBOL LEGEND:

SYMBOL	DESCRIPTION	MNTG. HT. UNO (SEE NOTE 1)
	SECURITY CAMERA — PROVIDE BACK BOX WITH 1/2" RACEWAY STUBBED INTO ACCESSIBLE CLG. WITH PULL WIRE. CAMERA AND CABLING PROVIDED BY OWNER.	
NOTES:		

1.) PRIOR TO ANY ROUGH-IN COORDINATE EXACT LOCATION OF BACK BOXES WITH OWNER/CCTV SYSTEM SUPPLIER.

INTRUSION DETECTION SYMBOL LEGEND:

SYMBOL	DESCRIPTION	MNTG. HT. UNO (SEE NOTE 1)
MD	INTRUSION DETECTION MOTION DETECTOR FULL COVERAGE TYPE — PROVIDE BACKBOX WITH 1/2"C AND PULLWIRE.	9'-0"AFF
MD H	INTRUSION DETECTION MOTION DETECTOR HALLWAY COVERAGE TYPE - PROVIDE BACKBOX WITH 1/2"C AND PULLWIRE.	9'-0"AFF
GB	INTRUSION DETECTION GLASS BREAK SENSOR	ABV. CLG.
KP	INTRUSION DETECTION KEYPAD PROVIDE WITH STI COVER — PROVIDE BACKBOX WITH 1/2"C AND PULLWIRE.	48"AFF
©	INTRUSION DETECTION DOOR MAGNETIC CONTACT - PROVIDE WITH 1/2"C AND PULLWIRE.	
SO	INTRUSION DETECTION INDOOR SIREN - PROVIDE BACKBOX WITH 1/2"C AND PULLWIRE.	
SOWP	INTRUSION DETECTION OUTDOOR SIREN — PROVIDE BACKBOX WITH 1/2"C AND PULLWIRE.	

1.) 48" AFF INDICATES TO TOP OF DEVICE;

ALL OTHER MOUNTING HEIGHTS REFER TO CENTERLINE OF DEVICE.

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architect

CAMERON APPRAISAL DISTRICT
NEW BUILDING ADDITION AND RENOVATION
2021 AMISTAD DRIVE, SAN BENITO, TEXAS 78586

RAY PEYNADO

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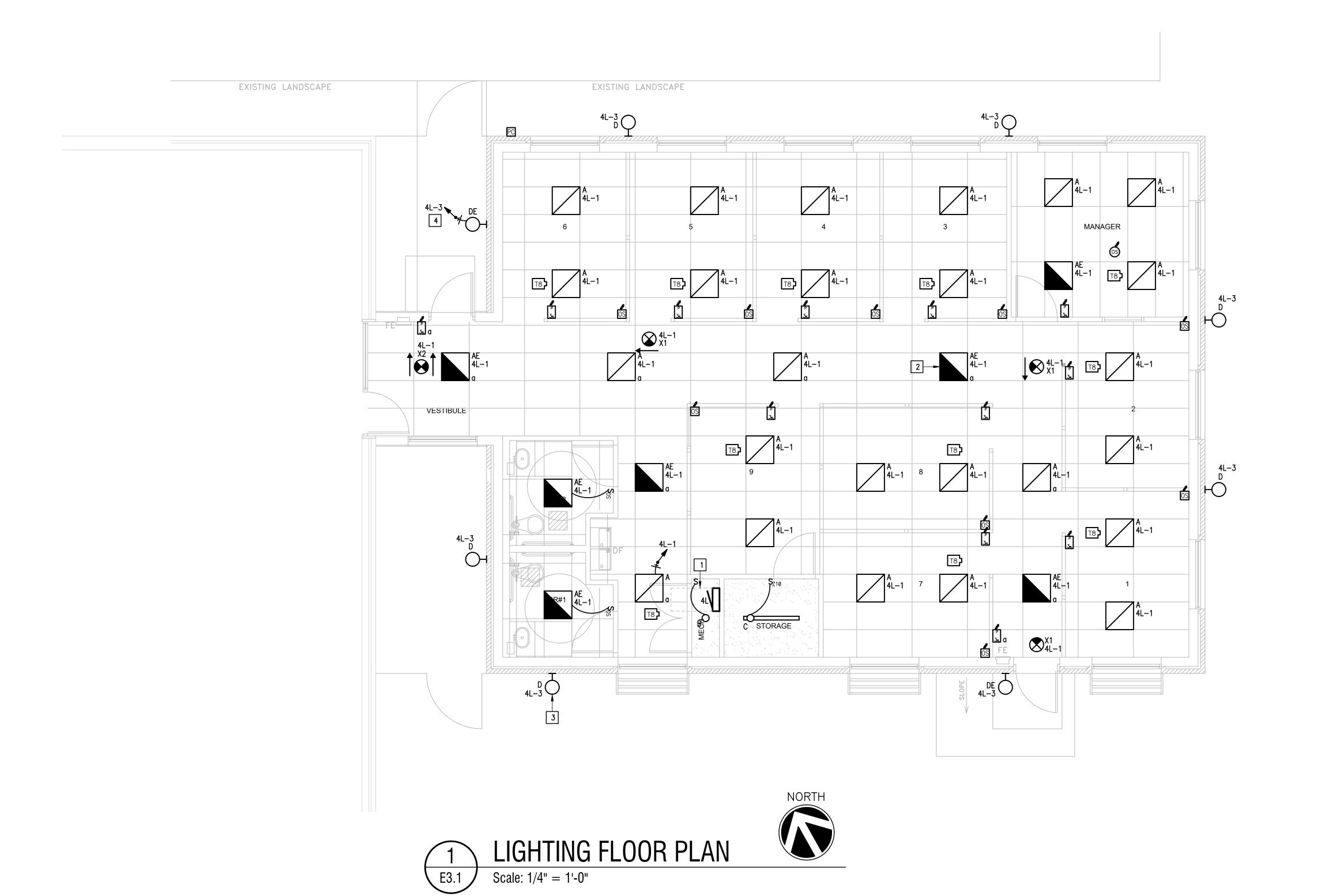
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^{1.) 48&}quot; AFF INDICATES TO TOP OF DEVICE; ALL OTHER MOUNTING HEIGHTS REFER TO CENTERLINE OF DEVICE. REFERENCE LIGHTING CONTROL SCHEMATIC DETAILS FOR ALL LUTRON CONTROLS WIRING

^{1.) 48&}quot; AFF INDICATES TO TOP OF DEVICE;
ALL OTHER MOUNTING HEIGHTS REFER TO CENTERLINE OF DEVICE.



- 1. LIGHTING BRANCH CIRCUIT HOMERUNS SHALL BE 3/4" 2#12 & #12G. 20A/277V HOMERUNS EXCEEDING 200FT THE WIRE SIZE SHALL BE #10 & #8 FOR 275'.
- 2. INTERIOR LIGHTING CONTROLS SHALL BE BY WIRELESS OCCUPANCY SENSORS.
- 3. EACH 20A/1P BRANCH CIRCUIT SHALL HAVE A DEDICATED NEUTRAL.
- 4. EXTERIOR LIGHTING CONTROLS SHALL BE BY PHOTO CELL.
- 5. PROVIDE 0-10V SIGNAL WIRING TO EACH DIMMED LIGHT FIXTURE.

KEYED NOTES:

- 1 NO DUCTWORK OR PIPING TO BE ROUTED ABOVE PANELBOARDS. COORDINATE WITH OTHER TRADES TYPICAL.
- 2 CONNECT EMERGENCY BATTERY PACK TO BE CHARGING AT ALL TIMES (UNSWITCHED). LIGHT FIXTURE SHALL BE OPERATED BY THE CORRESPONDING SWITCH TYPICAL.
- 3 MOUNT LIGHT FIXTURE TYPE "D" AT 11'-4"AFF TO CENTER OF FIXTURE TYPICAL.
- 4 SWITCH VIA PHOTO CELL.

F architect

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EXISTING BUILDING

KEYPLAN

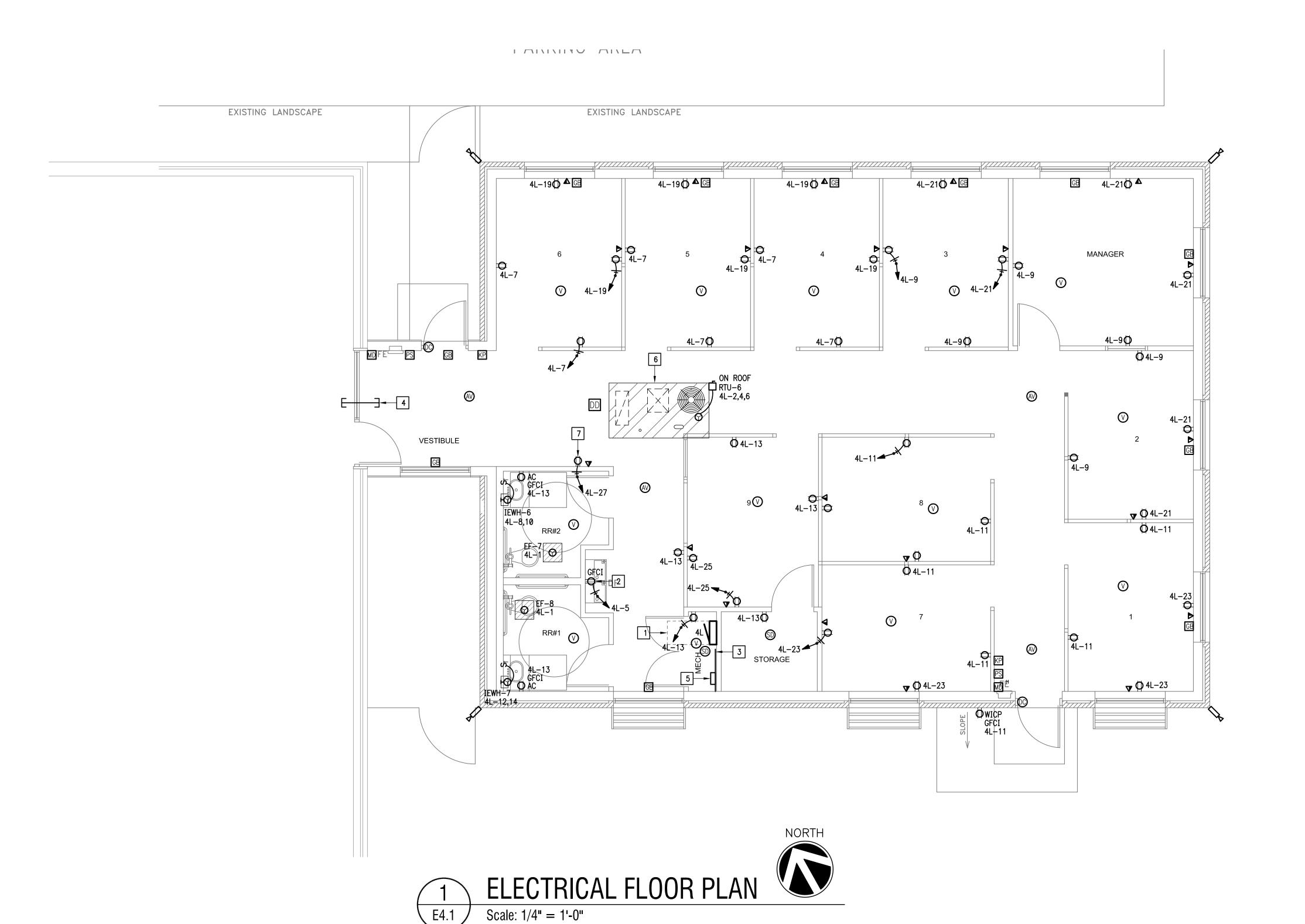
NEW BLDG

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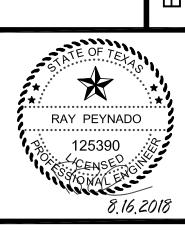
- 1. ELECTRICAL BRANCH CIRCUIT HOMERUNS SHALL BE 3/4" 2#12 & #12G. 20A/120V HOMERUNS EXCEEDING 100FT, THE WIRE SIZE SHALL BE #10 & #8 FOR 175'.
- 2. HOMERUNS INSTALL NO MORE THAN THREE PER RACEWAY (INCLUDING LIGHTING BRANCH CIRCUITS); 3 INSULATED "HOT", 3 INSULATED "NEUTRAL AND 1 SHARED "GROUND".
- 3. PROVIDE ALL ELECTRICAL RECEPTACLES INSTALLED WITH THE GROUND OPENING IN THE "UP" POSITION.
- 4. PROVIDE J-HOOKS TO SUPPORT THE FIRE ALARM AND INTRUSION DETECTION CABLING.
- 5. PROVIDE FIRE STOPPING AT ALL FIRE WALL PENETRATIONS; PROVIDE EXPANSION PLATES & BONDING JUMPERS AT BUILDING EXPANSION
- 6. EACH 20A/1P BRANCH CIRCUIT SHALL HAVE A DEDICATED NEUTRAL.

KEYED NOTES:

- 1 NO DUCTWORK OR PIPING TO BE ROUTED ABOVE PANELBOARDS. COORDINATE WITH OTHER TRADES TYPICAL.
- 2 CONNECT ELECTRIC DRINKING FOUNTAIN; BRANCH CIRCUIT: 1/2" 2#12 & #12G. ROUGH-IN AT 17-7/16" TO CENTER OF J-BOX TYPICAL. COORDINATE WITH PLUMBING CONTRACTOR.
- 3 PROVIDE 3/4" X 4'(H) X 3'(W), PLYWOOD TELEPHONE/DATA BOARD ON ALL WALLS. FIRE RESISTIVE TREATED (A-D INT-APA). MOUNT AT 24"
- PROVIDE 2-2" RACEWAY SLEEVES ABOVE CEILING FOR SPECIAL SYSTEMS
- PROVIDE INTRUSION DETECTION SYSTEM POWER SUPPLY; BRANCH CIRCUIT: 1/2" 2#12 & #12G, L4-15.
- 6 CONNECT HVAC EQUIPMENT INTEGRAL GFCI RECEPTACLE TO NEAREST EXISTING 120V NON-GFCI CIRCUIT. VERIFY LOAD PRIOR TO ANY NEW CONNECTION.
- 7 CONNECT COPIER.

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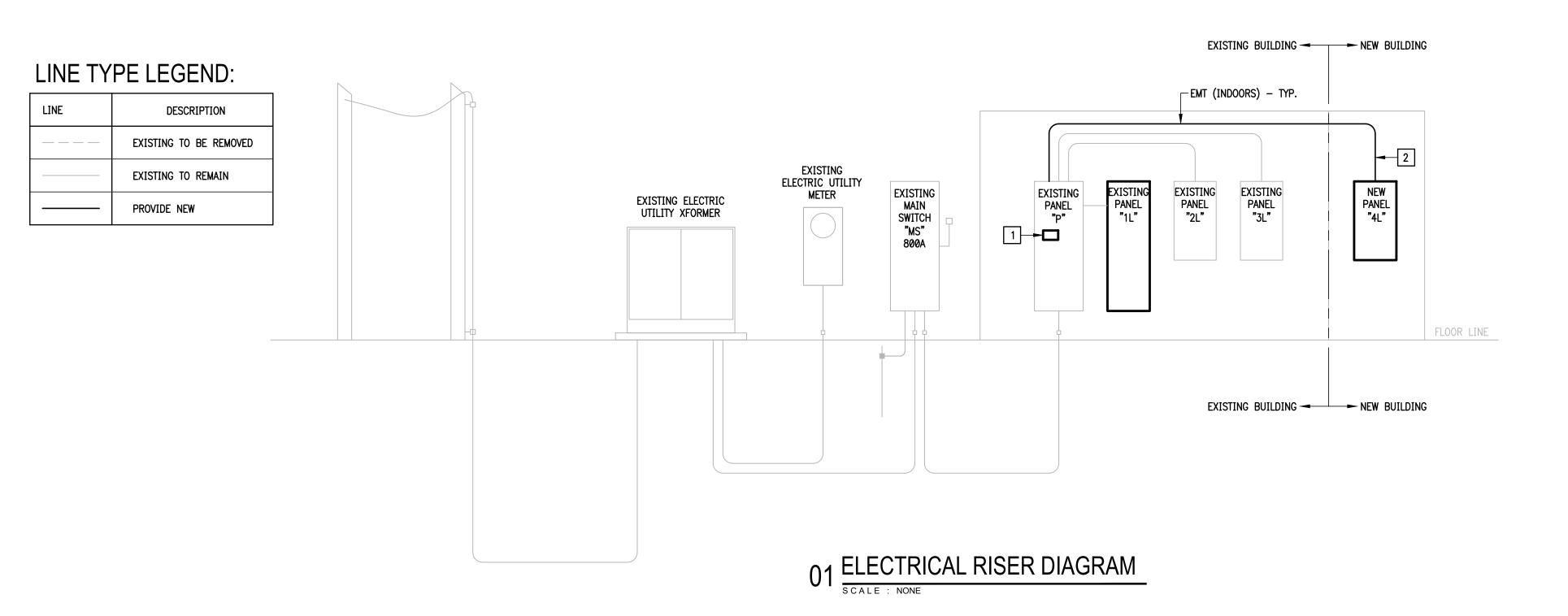
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EXISTING BUILDING NEW BLDG



RACEWAYS EMBEDDED IN FOUNDATION GENERAL NOTES:

- RACEWAYS EMBEDED WITHIN THE SLAB SHALL COMPLY WITH THE FOLLOWING:

- 1. SHALL HAVE A MINIMUM SPACING OF 2".
 2. SHALL NOT BE LARGER THAN 1".
 3. SHALL NOT BE RUN THROUGH THE SURFACE AREA OF THE FOOTING.
 4. SHALL NOT BE CROSSED OVER/UNDER EACH OTHER WITHIN THE SLAB.
 5. SHALL NOT BE TIED TO THE REBAR.
 6. SHALL BE A MINIMUM OF 1.5" AWAY FROM SLAB REBAR. IF SPACING CANNOT BE ACCOMPLISHED; IT SHALL BE PROVIDED BELOW GRADE.

ELECTRICAL RISER DIAGRAM KEYED NOTES:

- 1 EXISTING 800A, 30, 4W, MLO, TYPE MP40, CUTLER HAMMER PANELBOARD. REMOVE EXISTING 30A/3P SPARE BREAKER AND PROVIDE A NEW 150A/3P BREAKER TO CONNECT NEW PANELBOARD "4L".
- 2 PROVIDE 2" 4#1/0 AND #6G.

EQUIPMENT CONNECTION SCHEDULE:

DESIGN	HP/KW	FLA	MCA	MOCP	VOLTAGE	DISCONNECT	BRANCH CIRCUIT
RTU-6	_	_	49	50	208V/3PHASE	60A, 3PNF, 240V, NEMA 3R.	3/4" - 3#8 & #10G
IEWH-6	4.1 KW	19.7	_	30	208V/1PHASE	1) THERMAL SWITCH.	3/4" - 2#10 & #10G
IEWH-7	4.1 KW	19.7	-	30	208V/1PHASE	1) THERMAL SWITCH.	3/4" - 2#10 & #10G

1) PROVIDE WITHOUT OVERLOADS.

NOTE: LOCATE EQUIPMENT MEANS OF DISCONNECT WITHIN EQUIPMENT SIGHT. DO NOT INSTALL BELOW DUCTWORK OR PLUMBING LINES.

EXHAUST FAN CONNECTION SCHEDULE:

DESIGNATION	HP/WATTS	FLA	VOLTAGE	CONNECTION FOR EACH	BRANCH CIRCUIT
EF-7	34.4 W	0.3	120V/1PHASE	CONNECT AT CEILING. INTERLOCK SWITCHING WITH LIGHTING VACANCY SENSOR.	1/2" - 2#12 & #12G
EF-8	34.4 W	0.3	120V/1PHASE	CONNECT AT CEILING. INTERLOCK SWITCHING WITH LIGHTING VACANCY SENSOR.	1/2" - 2#12 & #12G

NOUN	MECH. ITING SI FROM P PROVII	JRFACE	ITTEN AS BUIL	VOLTS BUS AM NEUTRAL T DIRECTOR	PS 225 . 100%			OM NUM	MAIN LUGS	10,000 BKR 150 STANDARD				
KT #	CKT			L	OAD KV	4	СКТ	CKT				L	OAD KV	٩
#	BKR	CIRCUIT DES	CRIPTION	A	В	С	#	BKR	CIRCUIT DES	CRIPTION		Α	В	С
1 3 5	20/1 20/1 20/1	EF-7, EF-8, LIGHT EXTERIOR LIGHT DRINKING FOUN	ING	1.05	0.176	0.8	2 4 6	50/3 	* RTU-6			5.88	5.88	5.88
7 9	20/1 20/1	RECEPT. RECEPT.		1.08	1.08		8 10	30/2	IEWH-6			2.05	2.05	
11 13 15	20/1 20/1 20/1	RECEPT. RECEPT. INTRUSION DETE	CTION POWER	1.26	0.1	1.26	12 14 16	30/2 20/2	IEWH-7 SPARE			2.05	0	2.05
17 19	20/1 20/1	SUPPLY SPARE RECEPT.		1.08		0	18 20	 20/1	SPACE			0		0
21 23 25	20/1 20/1 20/1	RECEPT. RECEPT. RECEPT.		0.36	1.08	0.72	22 24 26	20/1 20/1 20/1	SPACE SPACE SPACE			0	0	0
27 29	20/1 20/1	COPIER SPARE			1.2	0	28 30	20/1 20/1	SPACE SPACE				0	0
31 33 35 37	20/1 20/1 20/1 20/1	SPARE SPARE SPARE SPARE		0	0	0	32 34 36 38	20/1 20/1 20/1 20/1	SPACE SPACE SPACE SPACE			0	0	0
39 41	20/1 20/1	SPARE SPARE			0	0	40 42	20/1 20/1	SPACE SPACE				0	0
								TO	TAL CONNECTE	D KVA BY PH	HASE	14.8	11.6	10.7
	LAR OTH REC	HTING GEST MOTOR ER MOTORS EPTACLES CHEN EQUIP	1.15 0.038 0.038 9.92	1.44 0.048 0.038 9.92	(125%) (125%) (100%) (50%>10 (N/A)	0)		HEA COC NON DIV	ITINUOUS TING DLING ICONTINUOUS ERSE ERED DEMAND	0.1 17.7 0 8.2 0	0.125 17.7 0 8.2 0		(125%) (100%) (N/A) (100%) (N/A) (125%)	

* PROVIDE HACR TYPE.



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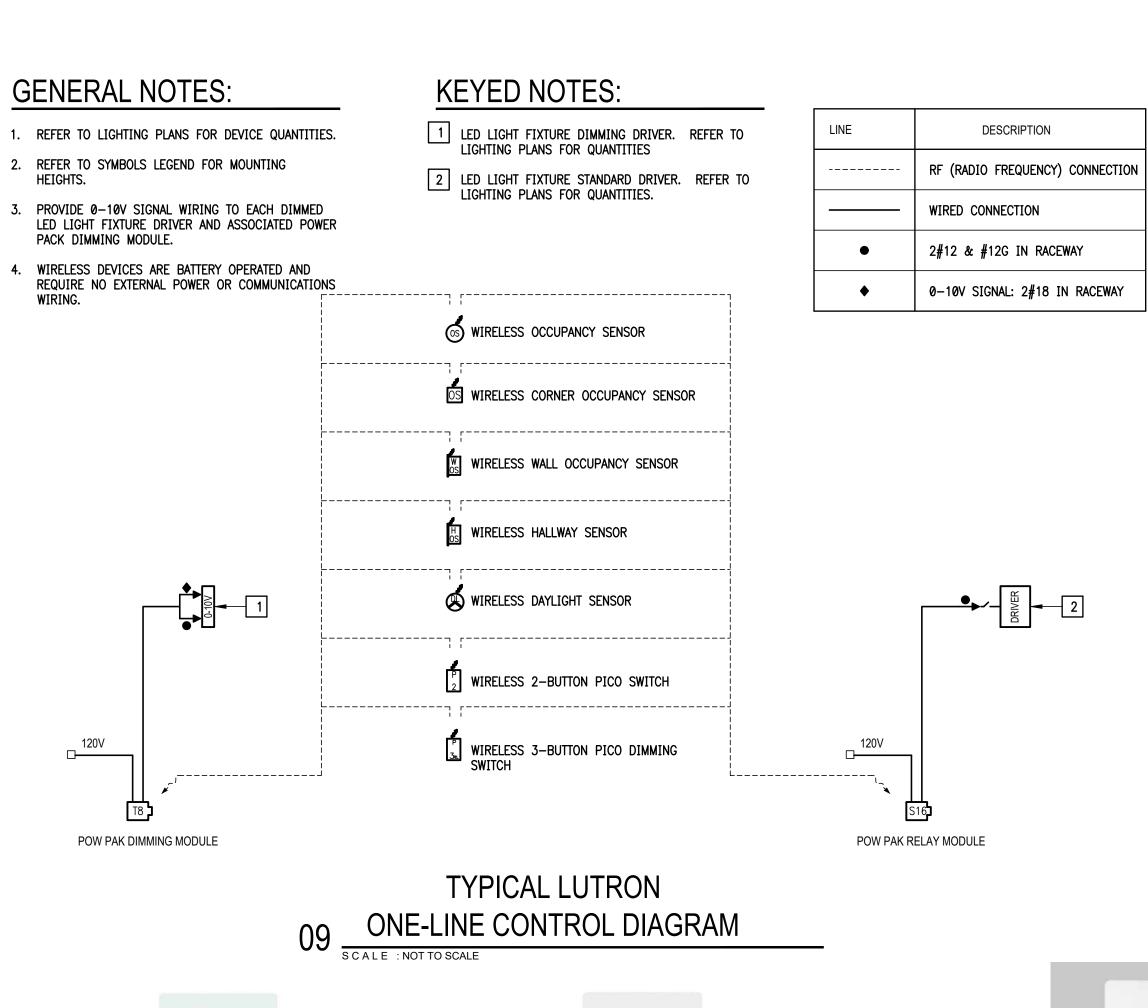
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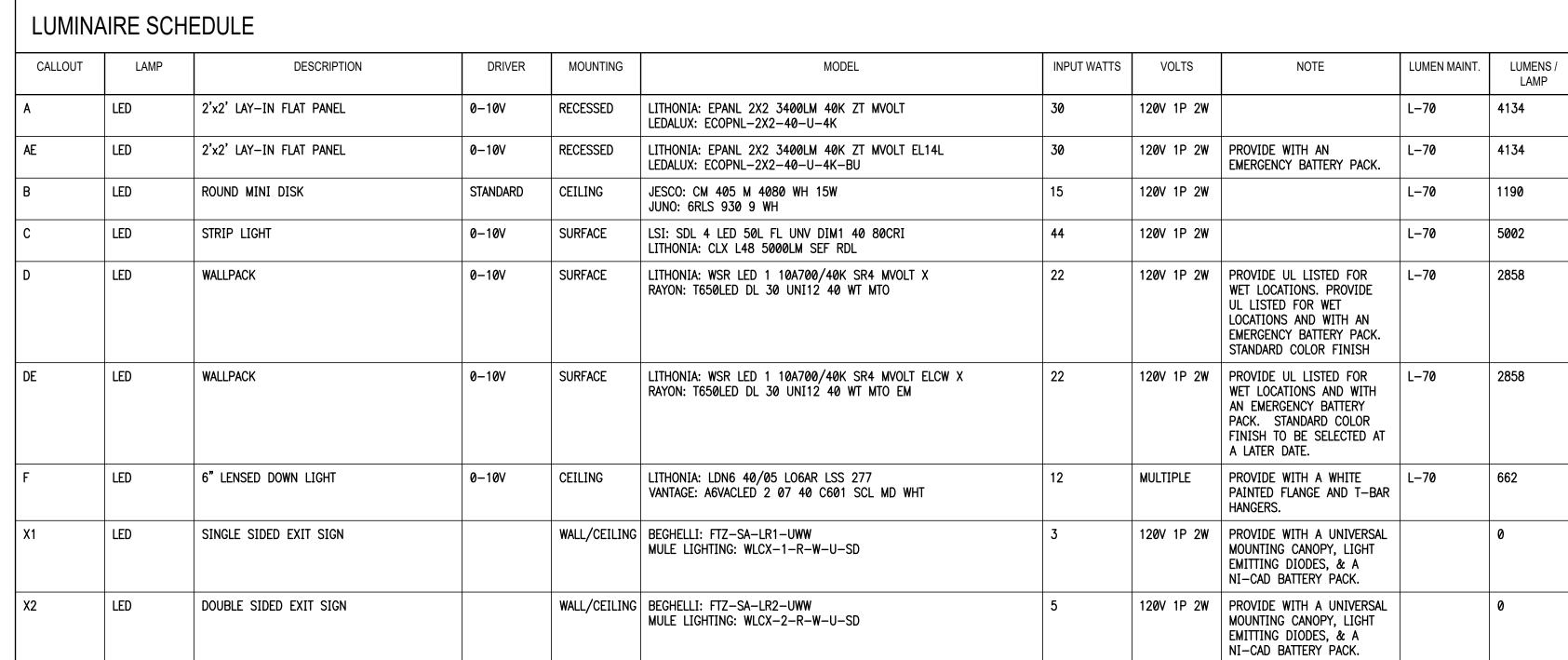
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E5.²





- 1. OTHER LIGHT FIXTURE AND BALLAST MANUFACTURERS THAN THOSE LISTED ON THIS SCHEDULE ARE REQUIRED TO OBTAIN PRIOR APPROVAL BY SUBMITTING CUT SHEETS OF THEIR SUBSTITUTIONS AT LEAST (10) DAYS PRIOR TO BID. CUT SHEETS SHALL
- INDICATE/HIGHLIGHT PHOTOMETRIC CURVE, EFFICIENCY & CONSTRUCTION FOR DIRECT COMPARISON WITH SPECIFIED FIXTURES AND BALLAST.

Z. EXIKA MATERIALS; SEE SPECIFICATIONS:

3. EMERGENCY BATTERY PACKS SHALL BE COMPLETE FACTORY INSTALLED WITH NI-CAD BATTERY, CHARGER INDICATING LIGHT, ELECTRONIC CIRCUITRY, 1400 LUMENS OUTPUT, 90 MINUTES DURATION & FIVE FULL YEARS WARRANTY.

4. FURNISH ALL 2' X 4' LAY-IN LIGHT FIXTURES WITH INTEGRAL CEILING CLIPS.





VACANCY
02 WALL SWITCH SENSOR
SCALE : NONE



03 WIRELESS SWITCH



04 TYPE 'A' & 'AE' IMAGE



05 TYPE 'B' IMAGE



06 TYPE 'C' IMAGE



VACANCY DIMMING
07 WALL SWITCH SENSOR



WIRELESS

08 CEILING OCCUPANCY SENSOR

SCALE : NONE



WIRELESS

09 CORNER OCCUPANCY SENSOR

SCALE : NONE



10 TYPE 'D' IMAGE



11 TYPE 'X1' & 'X2' IMAGE



DIMMING 12 POWER PACK MODULE



SWITCHING

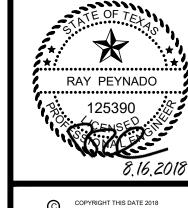
13 POWER PACK MODULE

SCALE : NONE



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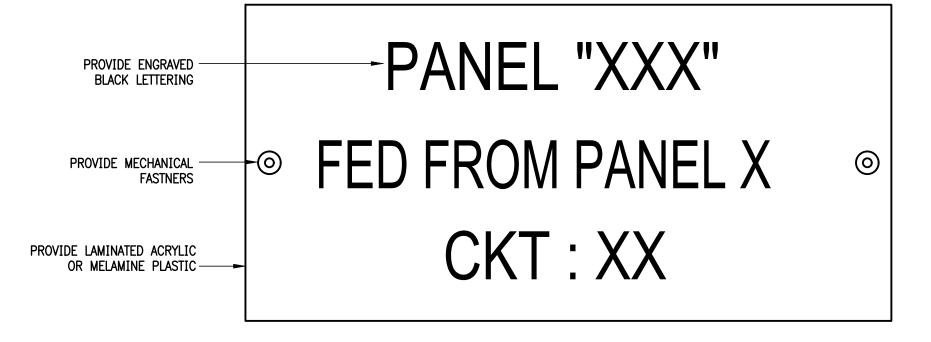
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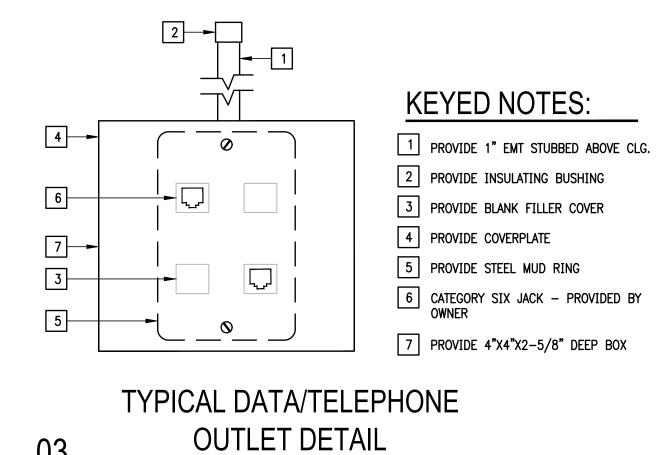
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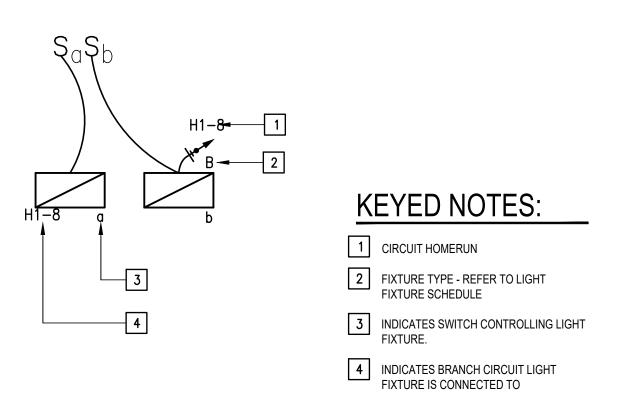
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NOTE: ATTACH NAMEPLATES TO ALL ELECTRICAL GEAR AS NOTED ON SECTION 260553.

EQUIPMENT 101 IDENTIFICATION LABEL DETAIL





05 LIGHTING LEGEND DETAIL



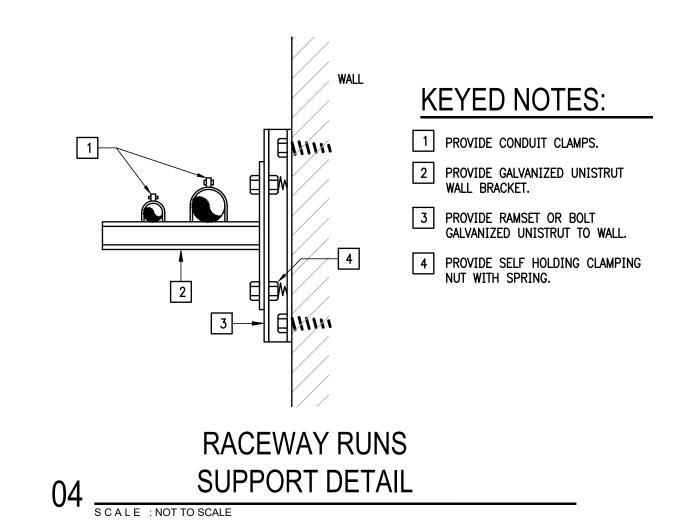
PROVIDE 2' X 2' LAY—IN LIGHT
FIXTURE

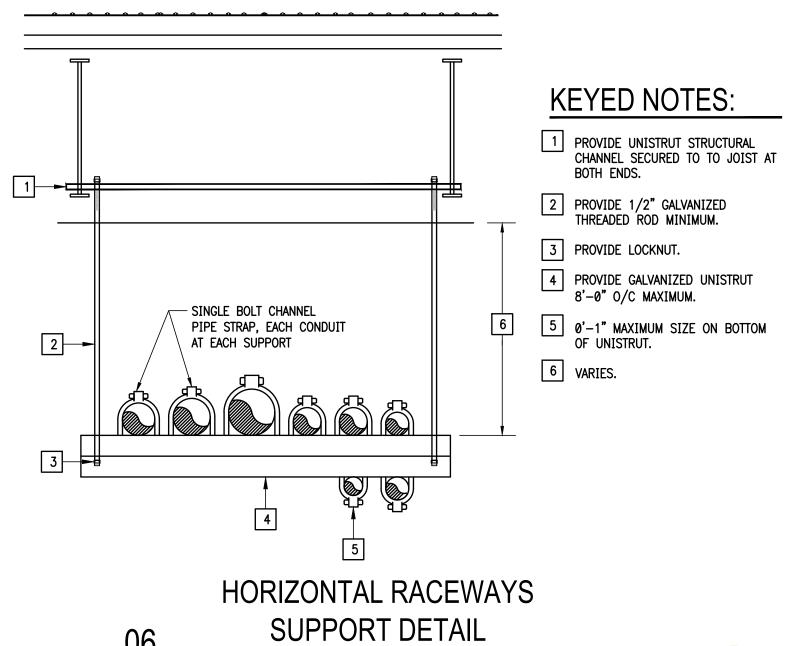
2 SUSPENDED CEILING

3 PROVIDE TIE WIRE, CONNECT TO
ALL FOUR CORNERS OF FIXTURE TO
STRUCTURE ABOVE, INDEPENDENT
OF CEILING SUPPORTS — TYPICAL.

TYPICAL

02 LAY-IN FIXTURE SUPPORT







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Bhone, 1956, 233, 2318

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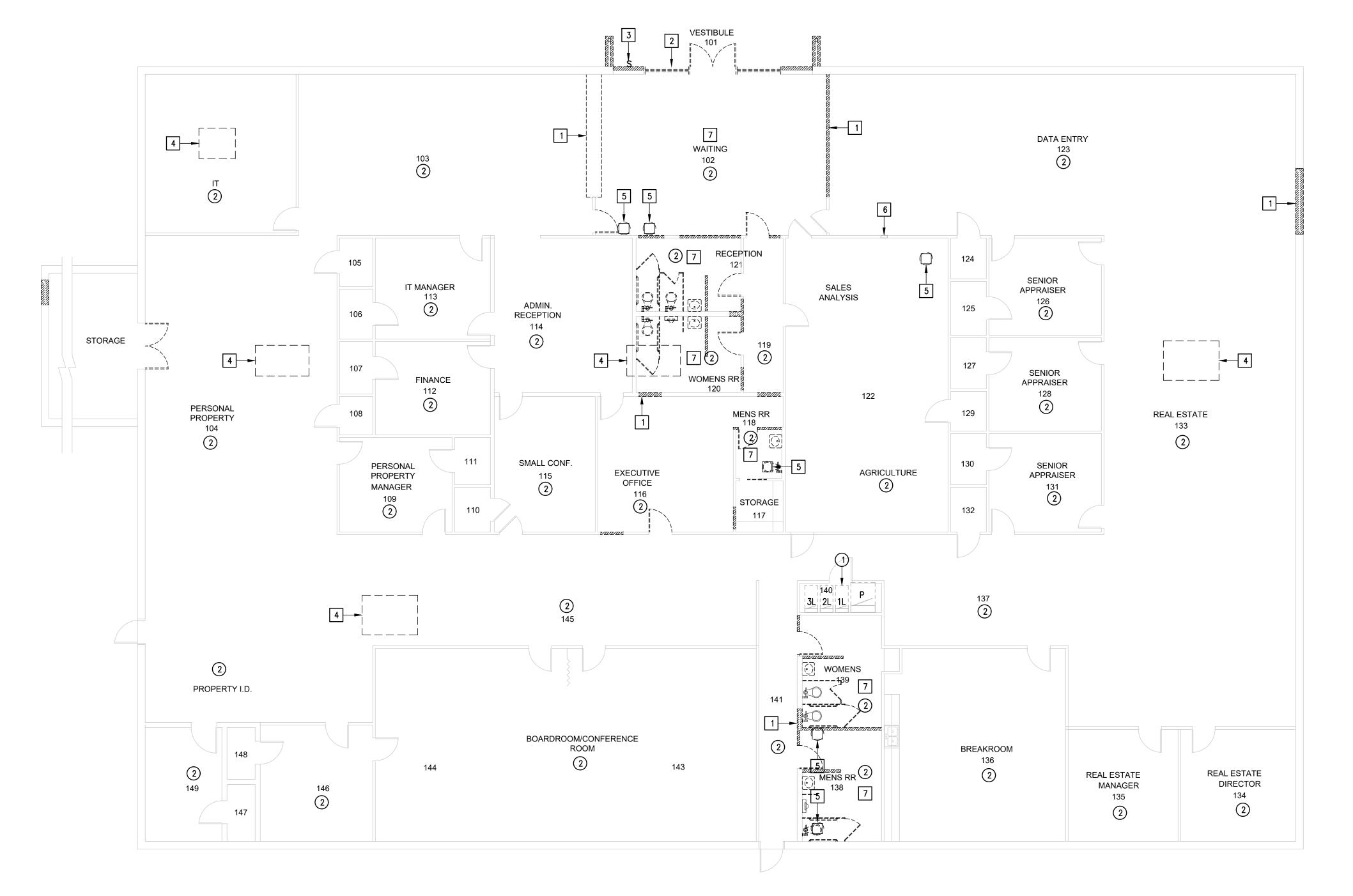
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EXISTING BUILDING ELECTRICAL DEMOLITION PLAN Scale: 1/8" = 1'-0"



GENERAL NOTES:

- REFER TO ARCHITECTURAL SPECIFICATIONS FOR PHASING
- DISCONNECT AND REMOVE ALL EXISTING FIRE ALARM SYSTEM (FACP, ANNUNCIATOR, SMOKE DETECTORS, PULL STATIONS, VISUAL, AUDIO VISUALS, ETC.) FOR REMOVAL; ALONG WITH RELATED RACEWAY, WIRE AND SUPPORT HARDWARE AFTER NEW FIRE SPRINKLER SYSTEM IS IN PLACE. ABANDON EXISTING WALL MOUNTED RACEWAYS AND BOXES IN PLACE. PROVIDE A BLANK WALL PLATE.
- 3. REMOVED MATERIALS SHALL BELONG TO OWNER. DELIVER THEM TO OWNERS DESIGNATED LOCATION. IF OWNER DOES NOT WANT THE REMOVED MATERIALS THEN REMOVE THEM FROM SITE & PROPERLY
- 4. IF REMOVAL OF EXISTING ELECTRICAL SYSTEMS RENDERS EXISTING ELECTRICAL SYSTEMS DOWNSTREAM TO REMAIN INOPERABLE, PROVIDE J-BOXES, CONDUIT WIRING AND SPLICES ABOVE ACCESSIBLE CEILINGS IN ORDER TO CONTINUE OPERATION.
- 5. REFER TO ARCHITECTURAL DEMOLITION DRAWINGS FOR WALL AND CEILINGS TO BE REMOVED.
- 6. PRIOR TO DEMOLITION, IN CEILINGS SCHEDULED TO BE REMOVED AND(OR) REPLACED FOR NEW HVAC DUCTWORK, NEW FIRE SPRINKLER, NEW ELECTRICAL FEEDER (PANEL 4L) AND NEW LIGHTING, PREPARE REFLECTED CEILING PLAN SKETCH SHOWING LOCATIONS OF ALL CEILING COMPONENTS AND DEVICES TO BE RE-USED INCLUDING BUT NOT LIMITED TO: • LIGHT FIXTURES; INCLUDING EMERGENCY AND EXIT LIGHTS
 - SPEAKERS CAMERAS
- WIRELESS ACCESS POINTS • FIRE ALARM DEVICES • EMERGENCY LIGHTING
- IF ANY OF THE ABOVE ITEMS ARE IN NON-WORKING CONDITION, SUBMIT A WRITTEN REPORT TO OWNER/ARCHITECT. TEMPORARY SUPPORT AND OR REMOVAL OF THESE SYSTEMS SHALL BE PROVIDED FOR NEW WORK.

KEYED NOTES:

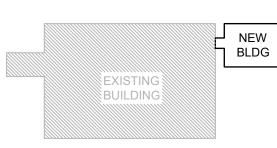
- DISCONNECT AND REMOVE ANY AND ALL LIGHTING, ELECTRICAL AND SPECIAL SYSTEMS LOCATED ON WALLS TO BE REMOVED TYPICAL.
- DISCONNECT EXISTING MOTORIZED GATE TO BE RELOCATED. EXTEND EXISTING BRANCH CIRCUIT TO NEW LOCATION.
- 3 DISCONNECT EXISTING MOTORIZED GATE KEY SWITCH TO BE RELOCATED. EXTEND EXISTING BRANCH CIRCUIT TO NEW LOCATION.
- disconnect existing hvac roof top unit to be replaced. See existing rtu's electrical riser diagram.
- 5 DISCONNECT EXISTING HVAC EXHAUST FAN TO BE REPLACED.
- 6 DISCONNECT AND REMOVE EXISTING FIRE ALARM CONTROL PANEL AFTER NEW FIRE SPRINKLER SYSTEM AND NEW FIRE ALARM CONTROL PANEL IS
- 7 DISCONNECT AND REMOVE ALL EXISTING 2X4 LAY—IN LIGHT FIXTURES, EMERGENCY LIGHTS AND LIGHT SWITCHES IN THIS ROOM ALONG RELATED RACEWAYS. WIRING AND SUPPORT HARDWARE. LIGHT SWITCH RACEWAYS AND BACK BOXES MAY BE ABANDONED IN PLACE. PROVIDE A BLANK

KEYED NOTES: ALTERNATE #2:

- 1) APPROXIMATE LOCATION OF EXISTING PANELBOARD SERVING LIGHTING CIRCUITS.
- 2 DISCONNECT AND REMOVE ALL EXISTING 2X4 LAY-IN LIGHT FIXTURES, EMERGENCY LIGHTS AND LIGHT SWITCHES IN THIS ROOM ALONG RELATED RACEWAYS. WIRING AND SUPPORT HARDWARE. LIGHT SWITCH RACEWAYS AND BACK BOXES MAY BE ABANDONED IN PLACE. PROVIDE A BLANK WALL PLATE. IT IS THE INTENT TO REMOVE ALL EXISTING LIGHTING BRANCH CIRCUITS (UNGROUNDED) AND PROVIDE NEW (GROUNDED). EXISTING RACEWAYS MAY BE RETAINED AND REUSED IF DEEMED SALVAGEABLE.

LINE TYPE LEGEND.

	I L LLOLIND.
LINE	DESCRIPTION
	EXISTING TO BE REMOVED
	EXISTING TO REMAIN
c===3	PROVIDE NEW



KEYPLAN





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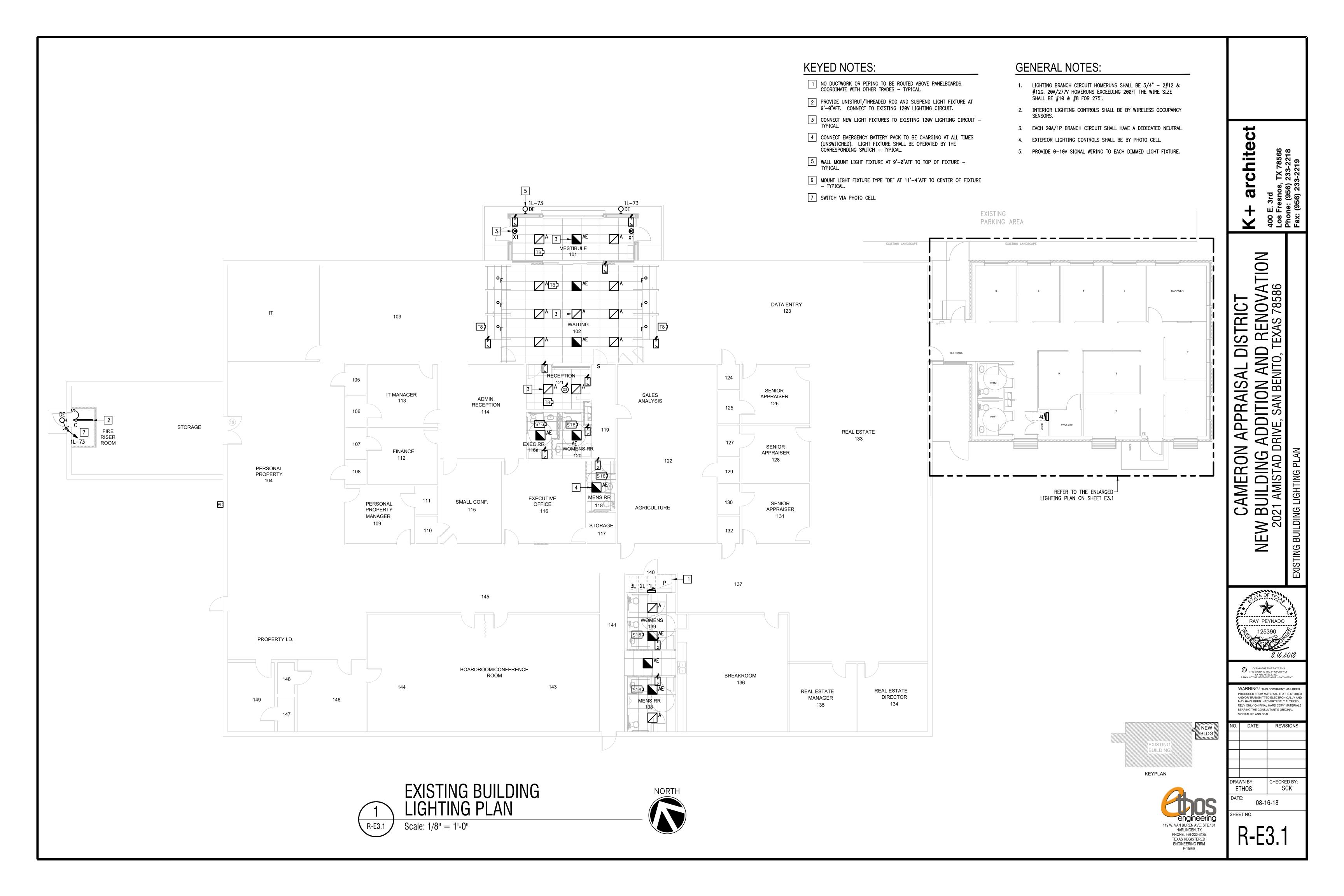
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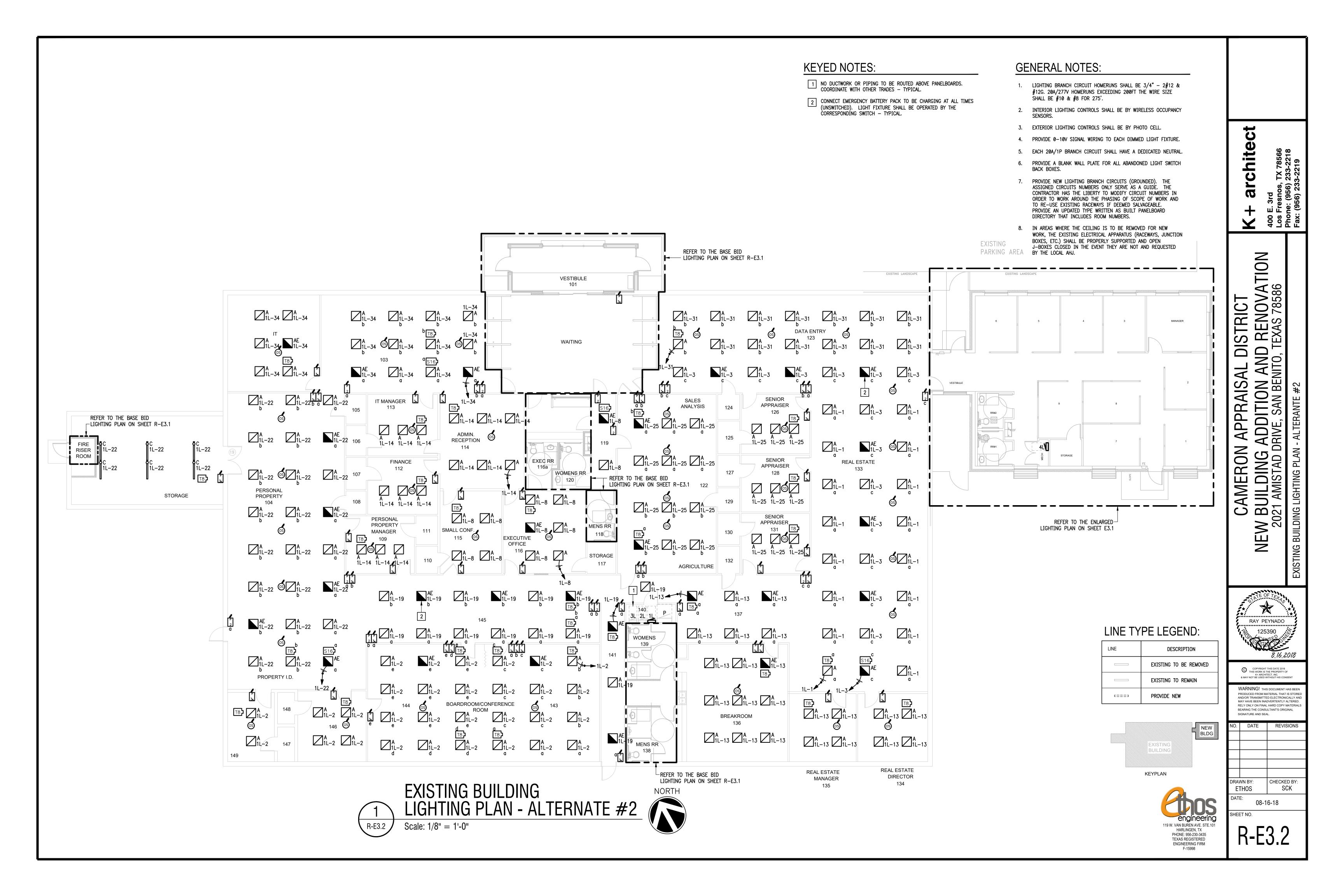
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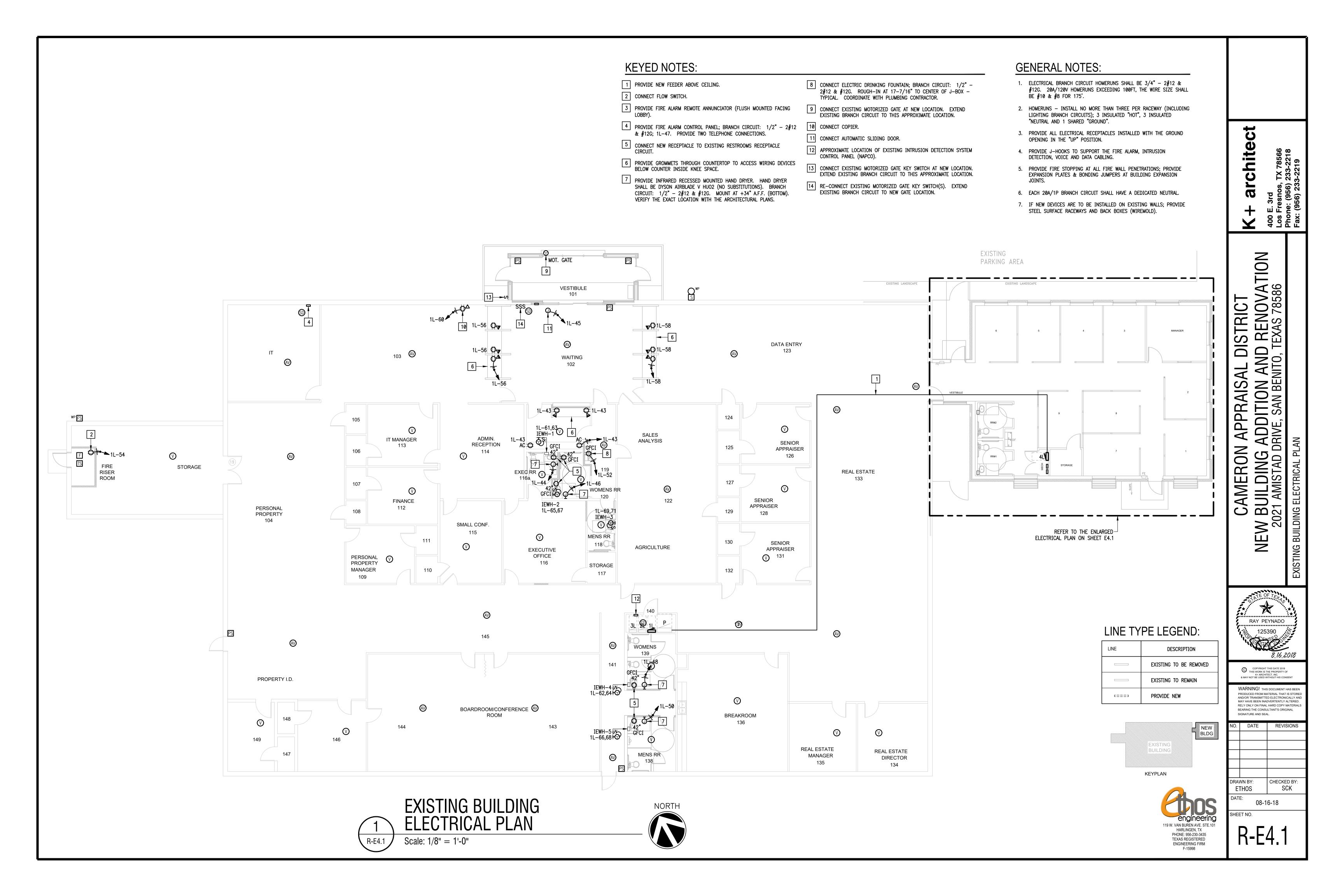
RAY PEYNADO

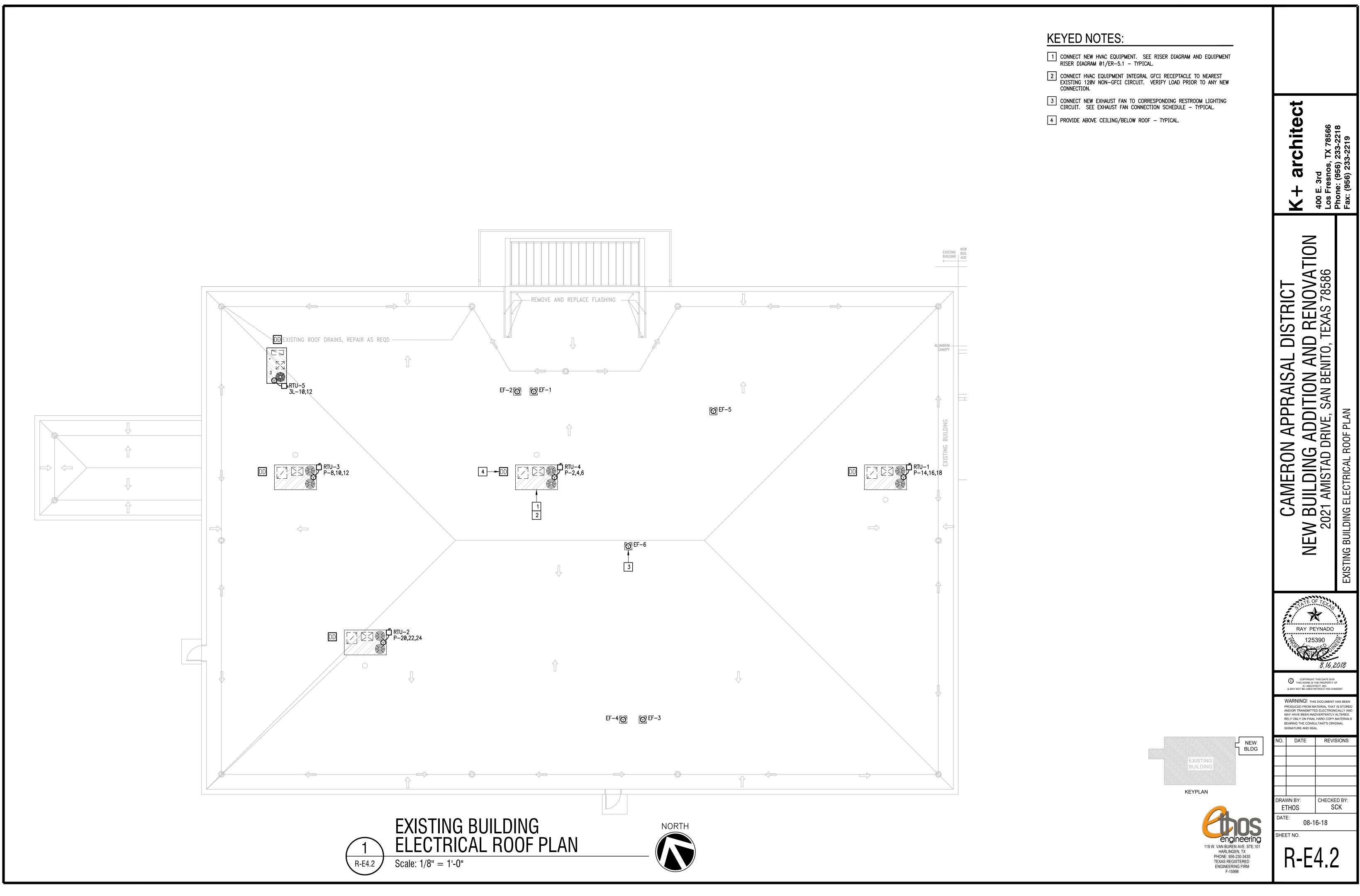
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EQUIPMENT CONNECTION SCHEDULE:

	· · · · · · · · · · · · · · · · · · ·				•		
DESIGN	HP/KW	FLA	MCA	MOCP	VOLTAGE	DISCONNECT	BRANCH CIRCUIT
RTU-1	_	-	92	100	208V/3PHASE	100A, 3P3F, 100AF, 240V, NEMA 3R.	1) 1.5" - 3#1/0 & #6G
RTU-2	-	-	92	100	208V/3PHASE	100A, 3P3F, 100AF, 240V, NEMA 3R.	1) 1.5" - 3#1/0 & #6G
RTU-3	_	_	69	70	208V/3PHASE	100A, 3P3F, 70AF, 240V, NEMA 3R.	1) 1.25" - 3#2 & #8G
RTU-4	_	_	69	70	208V/3PHASE	100A, 3P3F, 70AF, 240V, NEMA 3R.	1) 1.25" - 3#2 & #8G
RTU-5	_	_	16	25	208V/1PHASE	30A, 2P2F, 25AF, 240V, NEMA 3R.	1) 3/4" - 2#10 & #10G
IEWH-1	4.1 KW	19.7	_	30	208V/1PHASE	2) THERMAL SWITCH.	3/4" - 2#10 & #10G
IEWH-2	4.1 KW	19.7	_	30	208V/1PHASE	2) THERMAL SWITCH.	3/4" - 2#10 & #10G
IEWH-3	4.1 KW	19.7	_	30	208V/1PHASE	2) THERMAL SWITCH.	3/4" - 2#10 & #10G
IEWH-4	4.1 KW	19.7	_	30	208V/1PHASE	2) THERMAL SWITCH.	3/4" - 2#10 & #10G
IEWH-5	4.1 KW	19.7	_	30	208V/1PHASE	2) THERMAL SWITCH.	3/4" - 2#10 & #10G

1) RETAIN AND REUSE EXISTING TO MAXIMUM EXTENT POSSIBLE. PROVIDE ADDITIONAL WIRING AND RACEWAY IF NECESSARY.

2) PROVIDE WITHOUT OVERLOADS.

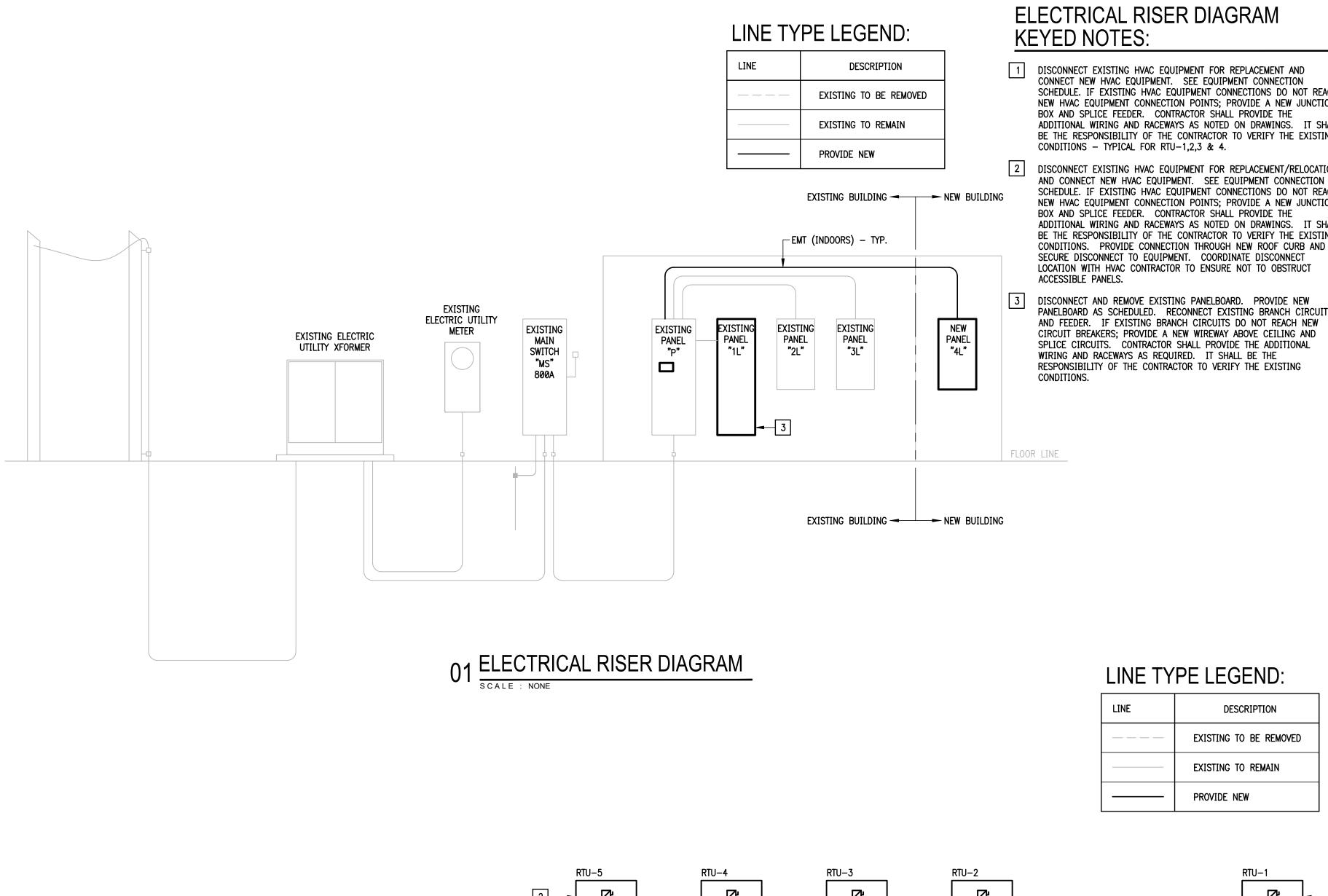
NOTE: LOCATE EQUIPMENT MEANS OF DISCONNECT WITHIN EQUIPMENT SIGHT. DO NOT INSTALL BELOW DUCTWORK OR PLUMBING LINES.

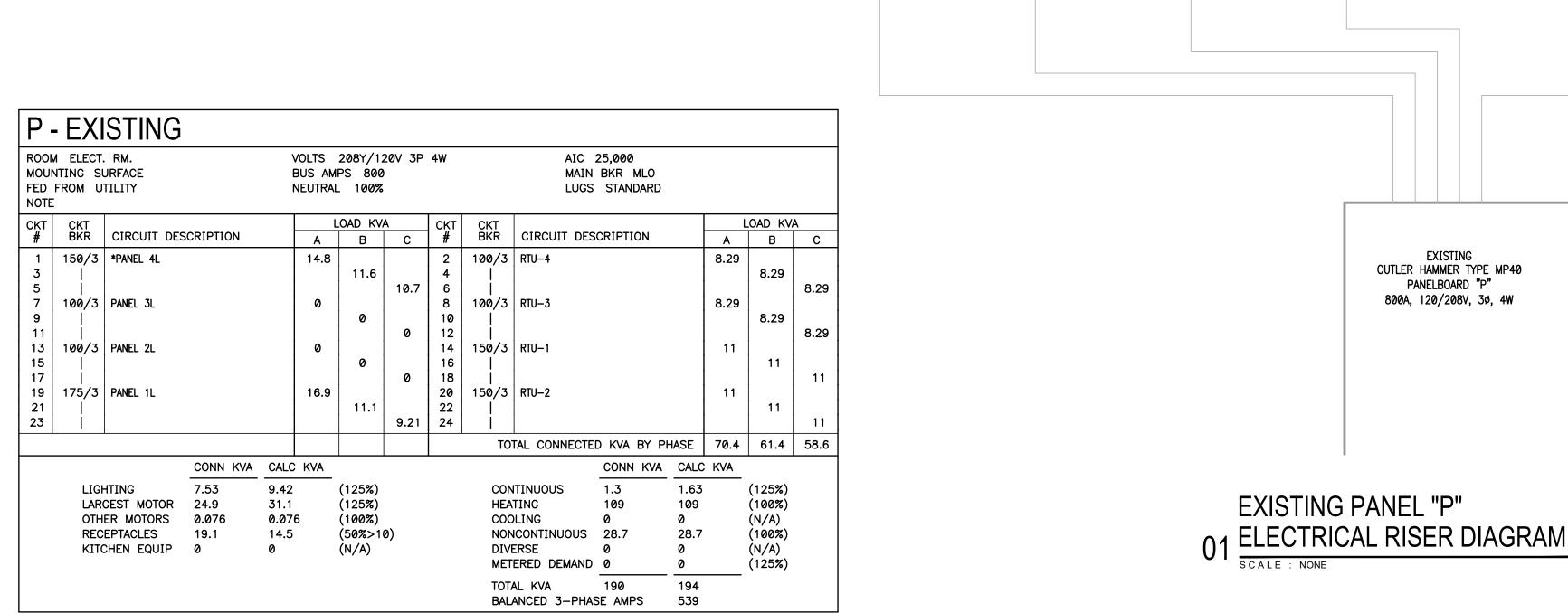
EXHAUST FAN CONNECTION SCHEDULE:

1) DISCONNECT AND RECONNECT EXISTING BRANCH CIRCUITS AND FEEDER.

DESIGNATION	HP/WATTS	FLA	VOLTAGE	CONNECTION FOR EACH	BRANCH CIRCUIT
EF-1	51.6 W	0.5	120V/1PHASE	CONNECT AT ROOF. INTERLOCK SWITCHING WITH LIGHTING VACANCY SENSOR.	1/2" - 2#12 & #12G
EF-2	51.6 W	0.5	120V/1PHASE	CONNECT AT ROOF. INTERLOCK SWITCHING WITH LIGHTING VACANCY SENSOR.	1/2" - 2#12 & #12G
EF-3	60.5 W	0.6	120V/1PHASE	CONNECT AT ROOF. INTERLOCK SWITCHING WITH LIGHTING VACANCY SENSOR.	1/2" - 2#12 & #12G
EF-4	60.5 W	0.6	120V/1PHASE	CONNECT AT ROOF. INTERLOCK SWITCHING WITH LIGHTING VACANCY SENSOR.	1/2" - 2#12 & #12G
EF-5	98.1 W	0.9	120V/1PHASE	CONNECT AT ROOF. INTERLOCK SWITCHING WITH LIGHTING VACANCY SENSOR.	1/2" - 2#12 & #12G
EF-6	51.6 W	0.5	120V/1PHASE	CONNECT AT ROOF. INTERLOCK SWITCHING WITH LIGHTING VACANCY SENSOR.	1/2" - 2#12 & #12G

OUN	I ELECT ITING S FROM P PROVI	URFACE	VOLTS BUS AM NEUTRAL DIRECTOR	PS 225 - 100%	5		OM NUM	MAIN LUGS	10,000 BKR MLO STANDARD				
KT #	CKT BKR	CIRCUIT DESCRIPTION		OAD KV	1	CKT #	CKT BKR	CIRCUIT DES	CRIPTION	-		LOAD KV	
+			A	В	С	-					A	В	С
1 3	20/1 20/1	EXISTING LIGHTING EXISTING LIGHTING	0.48	0.45		2 4	20/1 20/1	EXISTING LIGHT	.NG		0.9	ø	
5	20/1	EXISTING		0.43	ø	6	20/1	EXISTING				"	ø
,	20/1	EXISTING	ø			8	20/1	EXISTING LIGHT	NG		0.36		
9	20/1	EXISTING		0		10	20/1	EXISTING			0.00	ø	
1	20/1	EXISTING			0	12	20/1	EXISTING					0
3	20/1	EXISTING LIGHTING	0.69			14	20/1	EXISTING LIGHT	NG		0.45	İ	
5	20/1	EXISTING		0		16	20/1	EXISTING				0	İ
7	20/1	EXISTING			0	18	20/1	EXISTING				İ	0
9	20/1	EXISTING LIGHTING	0.48			20	20/1	EXISTING			0		
1	20/1	EXISTING		0		22	20/1	EXISTING LIGHT	NG			0.984	
3	20/1	EXISTING			0	24	20/1	EXISTING					0
5	20/1	EXISTING LIGHTING	0.63	_		26	20/1	EXISTING			0	_	
7	20/1	EXISTING		0		28	20/1	EXISTING				0	
9	20/1	EXISTING	0.40		0	30	20/1	EXISTING			•		0
31	20/1	EXISTING LIGHTING EXISTING	0.42			32 34	20/1	EXISTING LIGHT	'NC		0	0.54	
5	20/1 20/1	EXISTING		0	ø	36	20/1 20/1	EXISTING LIGHT	ING			0.54	ø
7	20/1	EXISTING	ø		"	38	30/1	EXISTING			0		V
9	20/1	EXISTING		0		40	30/2	EXISTING			·	ø	
1	20/1	EXISTING			0	42	1						ø
.3	20/1	RECEPT.	0.72			44	20/1	HAND DRYER			1.5	İ	
5	20/1	AUTOMATIC DOOOR		0.18		46	20/1	HAND DRYER				1.5	
.7	20/1	FIRE ALARM CONTROL PANEL		1	1.2	48	20/1	HAND DRYER				İ	1.5
.9	20/1	SPARE	0			50	20/1	HAND DRYER			1.5		
51	20/1	SPARE		0		52	20/1	DRINKING FOUN	ΓAIN			0.8	
3	20/1	SPARE			0	54	20/1	RECEPT.					0.18
5	20/1	SPARE	0			56	20/1	RECEPT.			0.54		
7	20/1	SPARE		0		58	20/1	RECEPT.				0.54	0.40
9	20/1	SPARE	2.05		0	60 62	20/1	COPIER			2.05	-	0.18
31 33	30/2	IEWH—1	2.05	2.05		64	30/2	IEWH-4			2.05	2.05	
55	30/2	IEWH-2		2.03	2.05	66	30/2	IEWH-5				2.03	2.05
7	1	ILWI Z	2.05		2.03	68	1	ILWII 5			2.05		2.00
9	30/2	IEWH-3		2.05		70	20/1	SPACE				0	
71	Í -			<u> </u>	2.05	72	20/1	SPACE				İ	0
3	20/1	LIGHTING	0.088			74	20/1	SPACE		İ	0		
'5	20/1	SPACE		 0		76	20/1	SPACE		İ		0	
7	20/1	SPACE			0	78	20/1	SPACE					0
9	20/1	SPACE	0			80	20/1	SPACE			0		
31	20/1	SPACE		0		82	20/1	SPACE				0	
3	20/1	SPACE			0	84	20/1	SPACE					0
							ТО	TAL CONNECTE			16.9	11.1	9.21
			LC KVA						CONN KVA	CALC	KVA		
		HTING 6.38 7.9	8	(125%)				NTINUOUS	1.2	1.5		(125%)	
		GEST MOTOR 0 0		(N/A)				TING	0	0		(N/A)	
		IER MOTORS 0 0	4	(100%)	۵)			DLING	0	0 20 5		(N/A)	
		CEPTACLES 9.14 9.1 CHEN EQUIP 0 0	4	(50%>1 (N/A)	<i>עש</i>			NCONTINUOUS ERSE	20.5 0	20.5 0		(100%) (N/A)	
	VIII	CHEN EQUIP & Ø		(N/A)				ERED DEMAND	0	0		(N/A) (125%)	
												(120/0)	
							TOT	AL KVA	37.2	39.1			

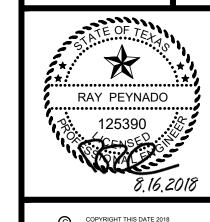




1) UNLESS NOTED OTHERWISE; CIRCUIT BREAKERS ARE EXISTING TO REMAIN.

* REMOVE EXISTING CIRCUIT BREAKER AND PROVIDE NEW.

- SCHEDULE. IF EXISTING HVAC EQUIPMENT CONNECTIONS DO NOT REACH NEW HVAC EQUIPMENT CONNECTION POINTS; PROVIDE A NEW JUNCTION ADDITIONAL WIRING AND RACEWAYS AS NOTED ON DRAWINGS. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THE EXISTING CONDITIONS — TYPICAL FOR RTU-1,2,3 & 4.
- DISCONNECT EXISTING HVAC EQUIPMENT FOR REPLACEMENT/RELOCATION AND CONNECT NEW HVAC EQUIPMENT. SEE EQUIPMENT CONNECTION SCHEDULE. IF EXISTING HVAC EQUIPMENT CONNECTIONS DO NOT REACH NEW HVAC EQUIPMENT CONNECTION POINTS; PROVIDE A NEW JUNCTION ADDITIONAL WIRING AND RACEWAYS AS NOTED ON DRAWINGS. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THE EXISTING CONDITIONS. PROVIDE CONNECTION THROUGH NEW ROOF CURB AND
- PANELBOARD AS SCHEDULED. RECONNECT EXISTING BRANCH CIRCUITS



EXISTING BUILDING ELECTRICA

CAMERON APPRAISAL DISTRICT
NEW BUILDING ADDITION AND RENOVATION
2021 AMISTAD DRIVE, SAN BENITO, TEXAS 78586

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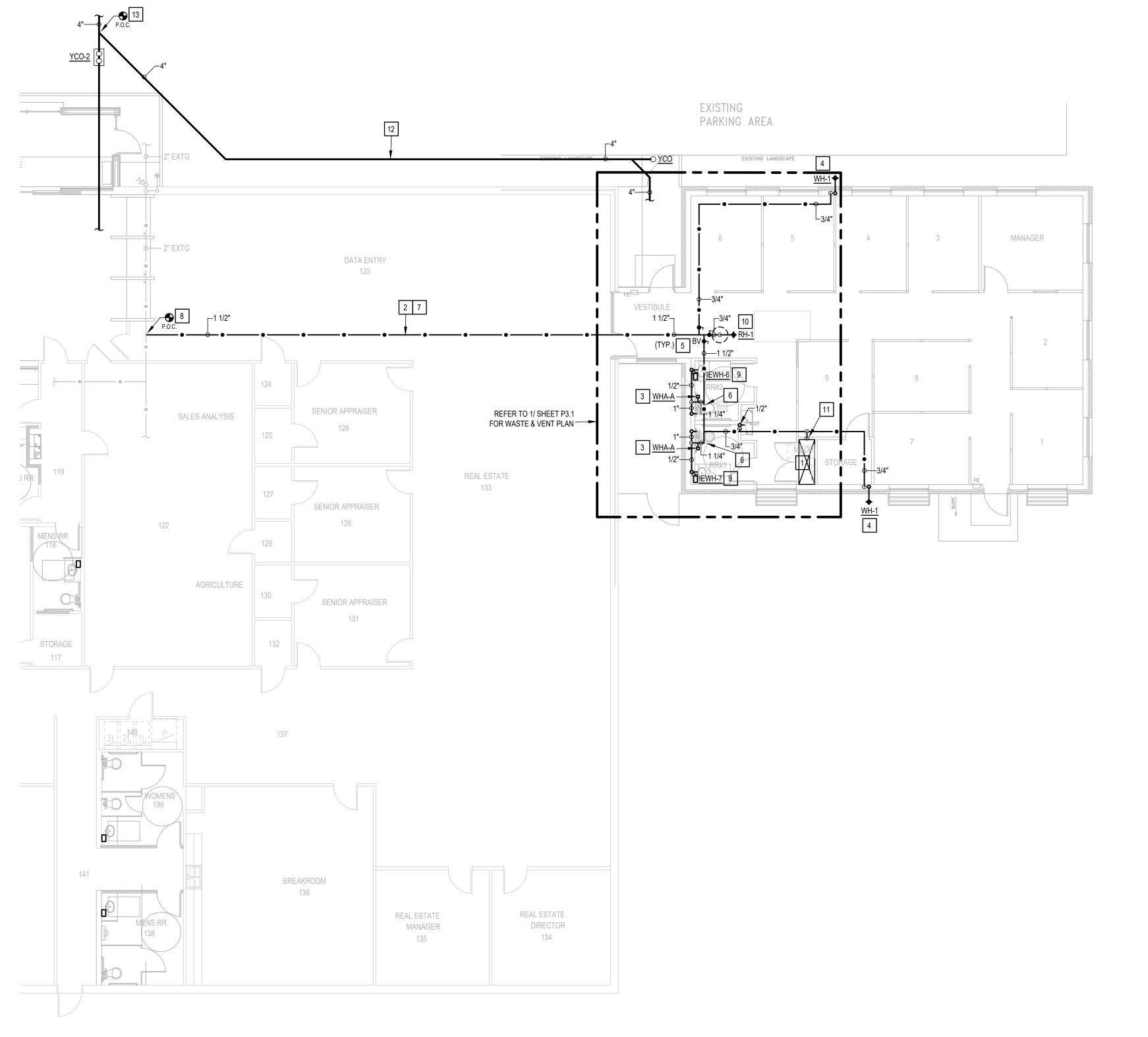
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engineering

119 W. VAN BUREN AVE. STE.101

HARLINGEN, TX PHONE: 956-230-3435

TEXAS REGISTERED ENGINEERING FIRM F-15998



PLUMBING PLAN
Scale: 1/8" = 1'-0"

PLUMBING KEYED NOTES:

- CLEARANCE FOR ELECTRICAL PANELS. ROUTE NO PIPING OVER THIS AREA. REFER TO ELECTRICAL PLANS FOR EXACT LOCATION OF ELECTRICAL ROOMS.
- PROVIDE PIPING SUPPORT AS PER SPECS AND DETAIL. SEE ASSOCIATED DETAIL ON DETAIL SHEET. (TYPICAL)
- PROVIDE BELLOWS TYPE WATER HAMMER ARRESTOR (WHB), MIFAB OR APPROVED EQUAL. INDICATED MODEL (A,B,C,D,E,F) AS PER MIFAB SIZING CHART. PROVIDE 12"X12" ACCESS PANEL WHERE INSTALLED IN AN INACCESSIBLE AREA. ACCESS PANEL EQUAL TO ACUDOR MODEL UF5000 WITH CYLINDER LOCK AND KEY AND PAINT TO MATCH THE WALL/CEILING. (TYPICAL)
- PROVIDE WALL HYDRANT AS SCHEDULED. PROVIDE CLOSE COUPLED HYDRANT TO ENSURE PIPE TURNS UP INSIDE BLOCK WALL. COORDINATE WALL THICKNESS WITH WALL HYDRANT MANUFACTURER DATA. (TYPICAL)
- PROVIDE BRONZE ISOLATION BALL VALVE ABOVE CEILING OR BEHIND WALL. PROVIDE A 12"x 12" ACCESS PANEL WHERE INSTALLED IN AN INACCESSIBLE AREA. ACCESS PANEL EQUAL TO ACUDOR MODEL UF5000 WITH CYLINDER LOCK AND KEY AND PAINT TO MATCH THE WALL/CEILING. PROVIDE VALVE IDENTIFICATION TAGS AS PER SPECIFICATIONS. (TYPICAL)
- 6 INSTALL WATER CLOSET FLUSH VALVE HANDLE TOWARDS WIDE SIDE OF THE ROOM. COORDINATE WITH GENERAL CONTRACTOR. (TYPICAL)
- REMOVE AND REINSTALL EXISTING CEILING TILES AS REQUIRED TO ACCOMMODATE NEW DOMESTIC COLD WATER PIPING. COORDINATE WITH GENERAL CONTRACTOR.
- 8 CONNECT NEW DOMESTIC COLD WATER PIPING INTO EXISTING 2" PIPING AT THIS APPROXIMATE LOCATION.
- 9 PROVIDE INSTANTANEOUS ELECTRIC WATER HEATER AS SCHEDULED.
- 10 PROVIDE ROOF HYDRANT AS SCHEDULED. SEE ASSOCIATED DETAIL ON DETAIL SHEET.
- PROVIDE A TRAP PRIMER VALVE ABOVE CEILING, PRECISION PLUMBING PRODUCTS (PPP) MODEL PR-500 OR APPROVED EQUAL. SEE ASSOCIATED DETAIL ON DETAILS SHEET.
- ROUTE NEW 4" SANITARY SEWER LINE INSIDE EXISTING PLANTER AREA TO AVOID CUTTING EXISTING PARKING LOT ASPHALT. COORDINATE WITH GENERAL CONTRACTOR.
- CONNECT NEW 4" SANITARY SEWER LINE INTO EXISTING LINE AT THIS APPROXIMATE LOCATION. CUT AND PATCH EXISTING PARKING LOT ASPHALT AS REQUIRED TO MAKE CONNECTION. COORDINATE WITH GENERAL CONTRACTOR.

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CAMERON APPRAISAL DISTRICT
NEW BUILDING ADDITION AND RENOVATION
2021 AMISTAD DRIVE, SAN BENITO, TEXAS 78586

CESAR A. GONZALEZ

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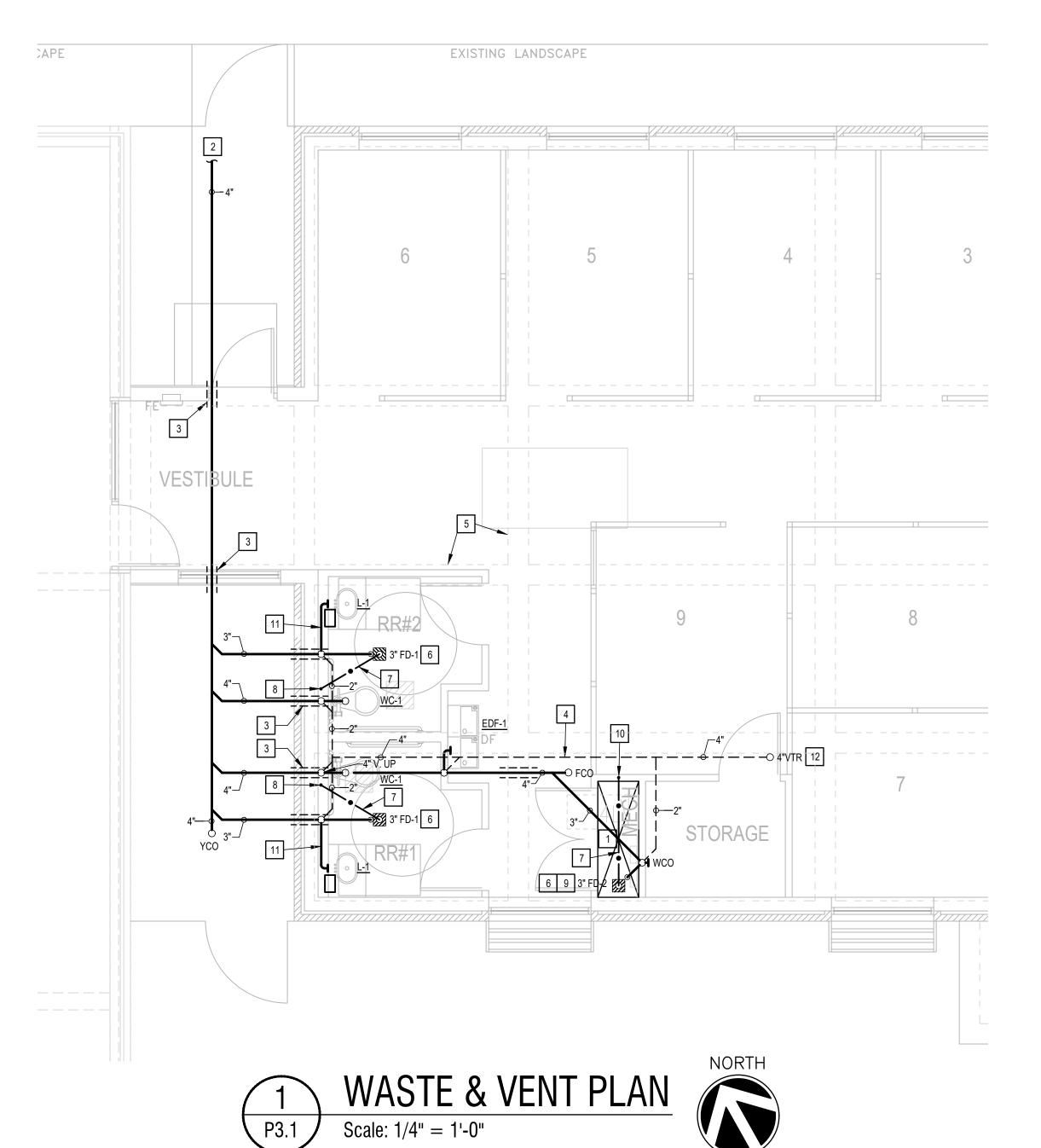
ENGINEERING FIRM

F-15998

EXISTING BUILDING

NEW BLDG

EXISTING PARKING AREA



PLUMBING KEYED NOTES:

- 1 CLEARANCE FOR ELECTRICAL PANELS. ROUTE NO PIPING OVER THIS AREA. REFER TO ELECTRICAL PLANS FOR EXACT LOCATION OF ELECTRICAL ROOMS.
- 2 REFER TO SHEET 1/P2.1 FOR CONTINUATION.
- 3 SLEEVE ALL GRADE BEAMS, FLOOR SLABS AND MASONRY WALL PENETRATIONS PER DETAIL WHETHER SPECIFICALLY INDICATED ON PLANS OR NOT.
- 4 PROVIDE PIPING SUPPORT AS PER SPECS AND DETAIL. SEE ASSOCIATED DETAIL ON DETAIL SHEET. (TYPICAL)
- 5 STRUCTURAL FOUNDATION SHOWN FOR REFERENCE AND COORDINATION PURPOSES. REFER TO STRUCTURAL DRAWINGS FOR MORE DETAILS. (TYPICAL).
- 6 PROVIDE FLOOR DRAIN AS SCHEDULED. SET FLUSH WITH FINISHED FLOOR. SEE ASSOCIATED DETAIL ON DETAIL SHEET. (TYPICAL)
- 7 PROVIDE 1/2" SOFT DRAWN COPPER FROM TRAP-PRIMER. ENCASE PIPING INSIDE WALL AND UNDER FLOOR SLAB IN POLYETHYLENE SLEEVE. "POLY-SLEEVE" OR EQUAL.
- 8 CONNECT TO FLUSH VALVE TRAP-PRIMER (WC). SEE ASSOCIATED DETAIL ON DETAIL SHEET. (TYPICAL)
- 9 PROVIDE FLOOR DRAIN WITH TYPE I STRAINER TO COLLECT RTU CONDENSATE. COORDINATE EXACT LOCATION WITH MECHANICAL CONTRACTOR.
- 10 CONNECT TO TRAP-PRIMER VALVE ABOVE CEILING.
- 11 RUN NEW WASTE LINE INSIDE WALL ABOVE CONCRETE FLOOR SLAB.
- 12 LOCATE NEW 4"VTR AT A MINIMUM OF 15' FROM ANY MECHANICAL EQUIPMENT (OUTSIDE AIR INTAKE).

CAMERON APPRAISAL DISTRICT
NEW BUILDING ADDITION AND RENOVATION
2021 AMISTAD DRIVE, SAN BENITO, TEXAS 78586

architect

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EXISTING BUILDING

KEYPLAN

NEW BLDG

HEET NO.

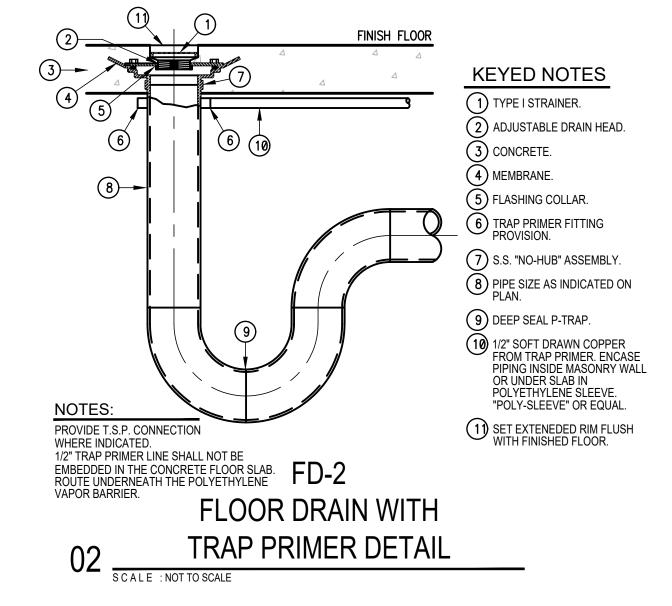
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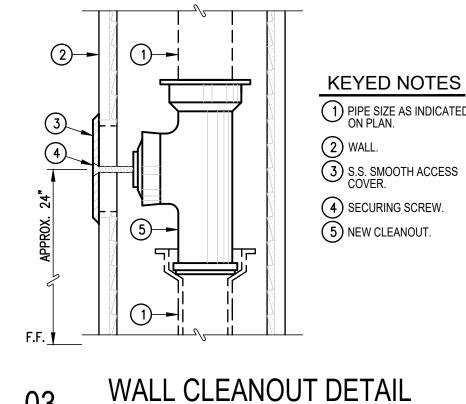
- 1. ALL PLUMBING WORK SHALL BE IN COMPLIANCE WITH ALL APPLICABLE CODES AS ADAPTED AND AMENDED BY THE INSPECTING AUTHORITIES.
- DRAWING IS DIAGRAMMATIC ONLY. CONTRACTOR SHALL COORDINATE EXACT LOCATIONS OF PIPING, DEVICES AND EQUIPMENT WITH BUILDING ELEMENTS AND THE WORK OF OTHER TRADES.
- 3. ALL PLUMBING WORK SHALL BE INSTALLED SO AS TO AVOID CONFLICT WITH THE WORK OF OTHER TRADES. COORDINATE WITH MECHANICAL ELECTRICAL AND STRUCTURAL FOR PROPER CLEARANCES.
- 4. REFER TO ARCHITECTURAL DRAWINGS AND SPECIFICATIONS FOR PHASING AND SEQUENCE OF CONSTRUCTION WORK.
- COORDINATE WORK AMONG ALL DISCIPLINES. IT IS NOT THE INTENT OF THESE DOCUMENTS TO DICTATE WHO MUST DO THE WORK. ALL WORK SHOWN IS THE RESPONSIBILITY OF THE PRIME CONTRACTOR.
- 6. SLEEVE ALL OUTSIDE WALLS, FOUNDATION GRADE BEAMS, INTERIOR WALL PENETRATIONS, AND FIRE SEAL ALL PENETRATION THROUGH FIRE WALLS AND FLOORS WHETHER SHOWN ON PLANS OR NOT.
- 7. PROVIDE MINIMUM 15' OF SEPARATION BETWEEN HVAC INTAKES AND VENT THRU ROOFS.
- 8. RECORD INVERT ELEVATIONS OF ALL YARD CLEAN OUT (YCO) ON "AS-BUILT" DRAWINGS.
- 9. PROVIDE SHUT-OFF VALVES (STOPS) ON ALL ROUGH-INS TO FIXTURES AND EQUIPMENTS.
- 10. PROVIDE WATER HAMMER ARRESTORS AS INDICATED ON THE DRAWINGS. AIR CHAMBERS NOT AN APPROVED SUBSTITUTE.
- 11. PROVIDE ANY BACKFLOW PREVENTION DEVICE REQUIRED BY CODE OR LOCAL AUTHORITIES. CONTRACTOR SHALL VERIFY THIS WITH CITY AND LOCAL AGENCIES AND INCLUDE COST IN BID. CONTRACTOR TO HAVE BACK FLOWS CERTIFIED.
- 12. REFER TO PLUMBING FIXTURE ROUGH—IN SCHEDULE FOR INDIVIDUAL PIPE CONNECTIONS TO FIXTURES.
- 13. PRIOR TO POURING FOUNDATION AND ERECTING CMU WALLS, COORDINATE INSTALLATION OF PLUMBING FIXTURE CARRIERS WITH GENERAL CONTRACTOR.
- 14. METAL STUDS AT DRY WALLS SHALL NOT BE CUT THRU HORIZONTAL DIRECTION. COORDINATE WITH DRY WALL CONTRACTOR.

PLUMBING SYMBOLS LEGEND							
	COLD WATER SUPPLY	wco I 	WALL CLEANOUT				
	HOT WATER SUPPLY	→ ×	*GATE VALVE (GV)				
— G G—	GAS LINE	•-1	*BALL VALVE				
	SOIL & WASTE LINE - ENLARGED PLANS	₹	VALVE IN RISER TYPE AS NOTED				
	VENT LINE - ENLARGED PLANS	WC	WATER CLOSET				
AW	ACID WASTE LINE - ENLARGED PLANS	UR	URINAL				
	GREASE WASTE LINE - ENLARGED PLANS	L	LAVATORY				
F	FIRE SPRINKLER LINE	SK	SINK				
FCO(0)	FLOOR CLEANOUT	EDF	ELECTRIC DRINKING FOUNTAIN				
FCO-2	FLOOR CLEANOUT - 2 WAY	MSB	MOP SERVICE BASIN				
FD 🍪 C FD 🎉	FLOOR DRAIN (FD) WITH DEEP SEAL TRAP	EESHR	EMERGENCY EYE/SHOWER				
HDCC	HUB DRAIN WITH DEEP SEAL TRAP	TP	TRAP PRIMER				
a	FLOOR SINK	EWH	ELECTRIC WATER HEATER				
YCO O	YARD CLEANOUT	VTR	VENT THRU ROOF				
YCO-2	YARD CLEANOUT - 2 WAY	СО	CLEANOUT				
wн -ф	WALL HYDRANT	A.F.F.	ABOVE FINISH FLOOR				
⊝ — □ —	TRAP PRIMER	ADT	ACID DILUTION TANK				
7	*WATER HAMMER	GT	GREASE TRAP				

* PROVIDE 12"x12" ACCESS PANEL WHERE INSTALLED IN AN INACCESSIBLE AREA.

3 4 5 6 6 10 9	FINISH FLOOR A KEYED NOTES 1) TYPE B STRAINER. 2) ADJUSTABLE DRAIN HEAD. 3) CONCRETE. 4) MEMBRANE. 5) FLASHING COLLAR. 6) TRAP PRIMER FITTING PROVISION. 7) S.S. "NO-HUB" ASSEMBLY. 8) PIPE SIZE AS INDICATED ON PLAN. 9) DEEP SEAL P-TRAP.
VAPOR BARRIER. FLOOR DE	1/2" SOFT DRAWN COPPER FROM TRAP PRIMER. ENCASE PIPING INSIDE MASONRY WALL OR UNDER SLAB IN POLYETHYLENE SLEEVE. "POLY-SLEEVE" OR EQUAL. D-1 RAIN WITH MER DETAIL





1) PIPE SIZE AS INDICATED ON PLAN.

WALL CLEANOUT DETAIL

CONNECTIONS MANUFACTURER & MARK DESCRIPTION MODEL NUMBER | WASTE | VENT | CW | HW | NOTES | REMARKS 16-1/2" HIGH LOW CONSUMPTION FLUSH AMERICAN STD. 3461.001 VALVE, WHITE VITREOUS CHINA WATER CLOSET SLOAN ROYAL WITH ELONGATED SIPHON JET ACTION BOWL, 4" 2" 1" - 1,2,3 WC-1 17"-19" TO TOP OF SEAT 1.28GPF TOP FLUSH VALVE, WHITE OPEN FRONT #111-1.28 SEAT LESS COVER AND BOLT CAPS FOR ADULT SEAT ADA MOUNTING. 5901.100 AMERICAN STD. WALL MOUNTED FLUSH VALVE, WHITE VITREOUS CHINA LOW 6590.001 CONSUMPTION 0.5 GPF URINAL WITH 14" DEEP BOWL, 3/4" 2" | 3/4" | UR-1 22" TO RIM OF BASIN SLOAN ROYAL #186-0.5 | TOP SPOUT FLUSH VALVE AND CARRIER FOR ADULT STANDARD ZURN # Z1222 CARRIER | MOUNTING LAVATORY BY LAVATORY BY GENERAL CONTRACTOR. SINGLE LEVER, 4" ON GENERAL CONTRACTOR CENTER, CHROME PLATED SOLID BRASS CONSTRUCTION (COORDINATE) FAUCET WITH THERMOSTATIC MIXING VALVE, ASSE 1070 CHICAGO FAUCETS COMPLAINT, SCALDING PROTECTION INCLUDED, SET AT 100 DEGREES. CHROME PLATED SUPPLY STOPS AND 420-T41E2805ABCP L-1 ESCUTCHEONS WITH STAINLESS STEEL FLEXIBLE 2" | 1/2" | 1/2" | 3,4,5 | SEE ARCHITECTURAL 0.5 GPM AERATOR ZURN #Z1231 CARRIER | CONNECTORS, CHROME PLATED DRAIN GRID AND TAILPIECE, 17 GA. DRAIN AND 17 GA. P-TRAP AND CARRIER FOR ADULT STANDARD MOUNTING P-TRAP W/CLEAN OUT TRUEBRO KIT BI-LEVEL ELECTRIC DRINKING FOUNTAIN, FRONT AND SIDE TOUCH CONTROLS, 8.0 GPH, FLEXI GUARD SAFETY VRCTL8SC BUBBLERS. PVC P-TRAP, APRON AND CARRIER. FOR 2" | 3/4" EDF-1 SEE ARCHITECTURAL LKAPREZL APRON ADULT STANDARD & ADA MOUNTING. OUTDOOR RATED, ZURN Z-1225 CARRIER VANDAL RESISTANT. PROVIDE WATER SENTRY FILTER 51300C. ENCASED NON-FREEZE ANTI-SIPHON WALL HYDRANT, BRONZE, ZURN NON-TURNING OPERATING ROD STOP VALVE IN SUPPLY, KEY 3/4" -WH-1# Z1300-SS-34UN OPERATED CONTROL VALVE, STAINLESS STEEL BOX WITH HINGED HYDRANT NON-FREEZE ROOF HYDRANT WITH GALV. CASING AND 3/4" RH-1 JAY R. SMITH 5906 ADJUSTABLE FLOW WHEEL LOCK HANDLE WITH DECK FLANGE AND UNDEER DECK CLAMP. BODY ASSEMBLY WITH TYPE B STRAINER, DURA COATED CAST ZURN FD-1 IRON BODY WITH BOTTOM OUTLET INVERTED MEMBRANE CLAMP # ZN415B-P AND ADJUSTABLE COLLAR WITH TRAP PRIMER CONNECTION. BODY ASSEMBLY WITH TYPE I STRAINER, DURA COATED CAST ZURN FD-2 IRON BODY WITH BOTTOM OUTLET INVERTED MEMBRANE CLAMP # ZN415I-P AND ADJUSTABLE COLLAR WITH TRAP PRIMER CONNECTION.

INSTALL FLUSH VALVE ON THE WIDE SIDE OF STALL.

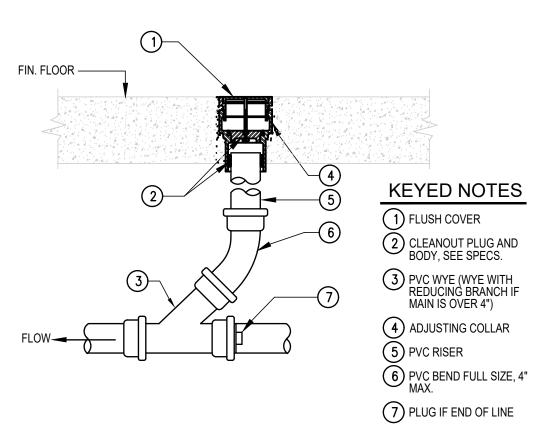
PLUMBING FIXTURE SCHEDULE

- PROVIDE ADA APPROVED FLUSH VALVE HANDLE FOR ALL ADA PLUMBING FIXTURES.
- REFER TO PLUMBING PLAN FOR FIXTURES THAT WILL REQUIRE TRAP PRIMER CONNECTIONS.
- PROVIDE TRUEBRO LAVATORY GUARD MODEL #103 COLOR WHITE. COVER SHALL BE SECURED WITH SNAP-SLIP FLUSH REUSABLE FASTENERS.
- ANGLE STOPS SHALL HAVE LOCK-UP LOCKING ACCESS COVERS.

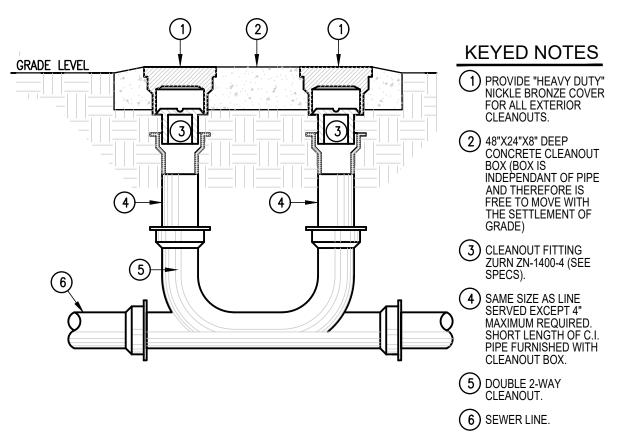
INSTANTANEOUS ELECTRIC WATER HEATER

MARK	LOCATION	MINIMUM	DEGREE RISE AT	ELECTRICAL	KW	DIMENSIONS	MANUFACTURER	NOTES
		FLOW RATE GPM	FLOW RATE	V/PH		LENGTH X WIDTH	MODEL NUMBER	
IEWH-1	SEE PLAN	0.8	36°	208/1	4.16	10.125" X 6.25"	CHRONOMITE M-20L/208	1,2
IEWH-2	SEE PLAN	0.8	36°	208/1	4.16	10.125" X 6.25"	CHRONOMITE M-20L/208	1,2
IEWH-3	SEE PLAN	0.8	36°	208/1	4.16	10.125" X 6.25"	CHRONOMITE M-20L/208	1,2
IEWH-4	SEE PLAN	0.8	36°	208/1	4.16	10.125" X 6.25"	CHRONOMITE M-20L/208	1,2
IEWH-5	SEE PLAN	0.8	36°	208/1	4.16	10.125" X 6.25"	CHRONOMITE M-20L/208	1,2
IEWH-6	SEE PLAN	0.8	36°	208/1	4.16	10.125" X 6.25"	CHRONOMITE M-20L/208	1,2
IEWH-7	SEE PLAN	0.8	36°	208/1	4.16	10.125" X 6.25"	CHRONOMITE M-20L/208	1,2

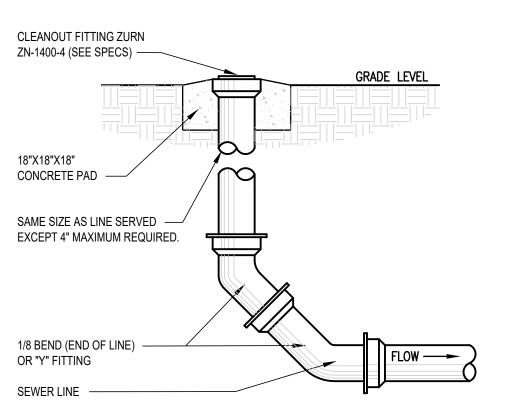
MANUFACTURER AND MODEL NUMBER ARE "OR APPROVED EQUAL 2. SET TEMPERATURE AT 105 DEGREE.



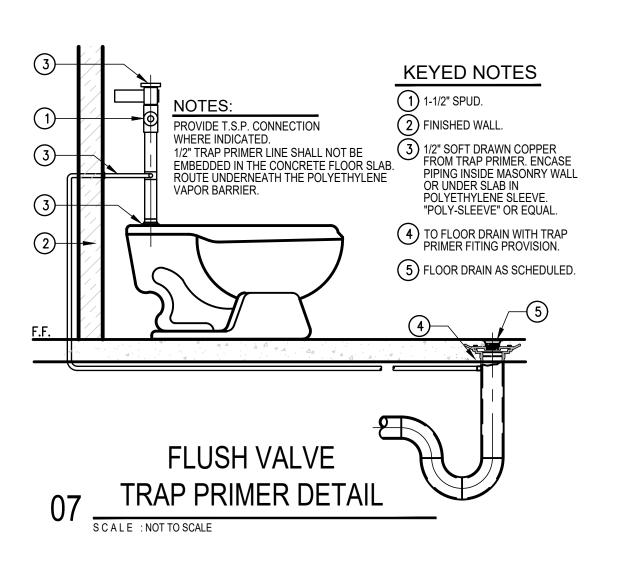




2-WAY YARD CLEANOUT DETAIL



YARD CLEANOUT DETAIL







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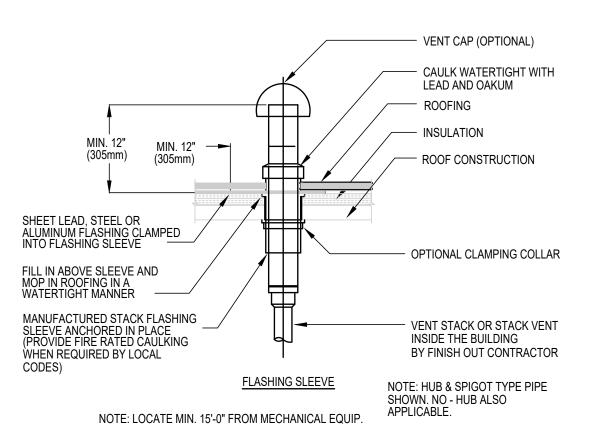
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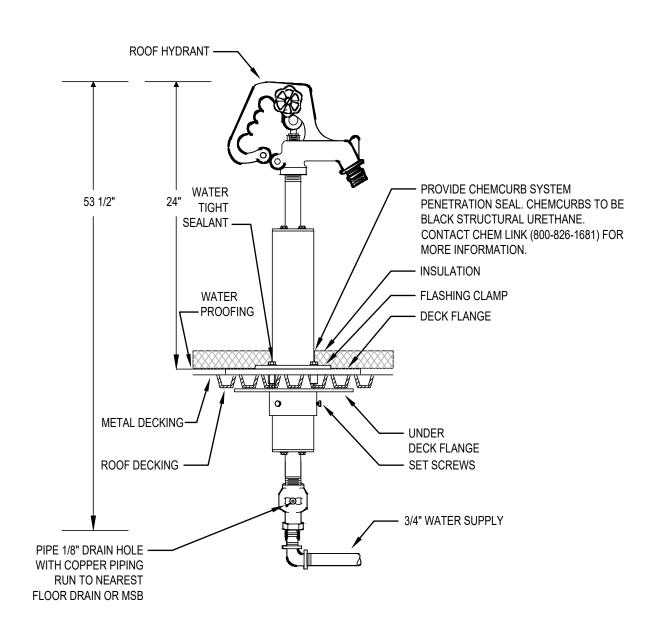
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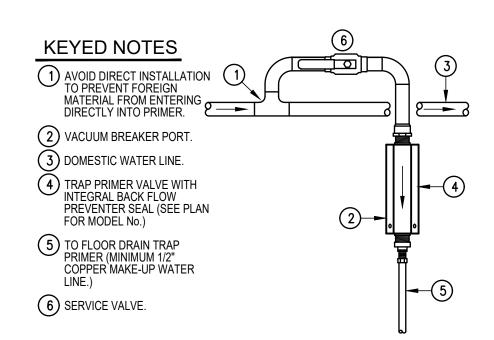
HEET NO.



01 VENT THRU ROOF DETAIL

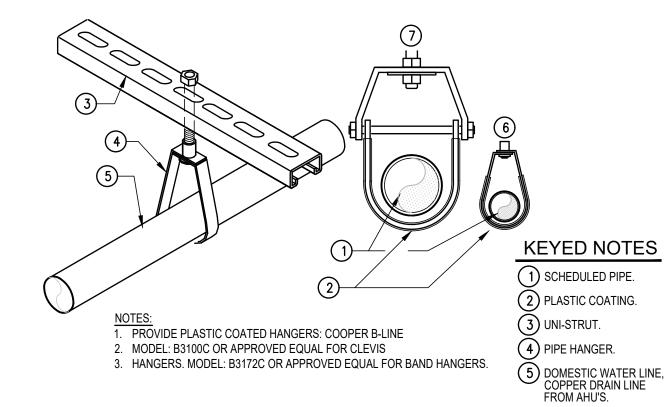


03 ROOF HYDRANT DETAIL



TRAP PRIMER

CONNECTION DETAIL



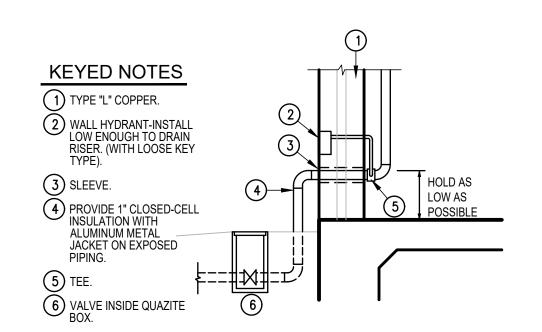
DOMESTIC WATER LINE
PIPING SUPPORT DETAIL

6 BAND HANGER.
7 CLEVIS HANGER.

WEYED NOTES

1 GRADE BEAM.
2 GALV. SCH.40 STEEL SLEEVE. SIZE PER SPECS. CENTER PIPE IN SLEEVE.
3 PIPING PASSING HORIZ. THROUGH GRADE BEAM SHALL BE LOCATED NO LESS THAN 6" ABOVE BOTTOM OF BEAM.
4 PIPING PASSING HORIZ. UNDER GRADE BEAM SHALL BE LOCATED A MINIMUM OF 6" BELOW BEAM. PROVIDE A SLEEVE.
5 COORDINATE LOCATIONS OF PIPING IN 3.4.5, ABOVE AS RELIEVING ARCHES OR ADDITIONAL CONCRETE MAY BE REQUIRED TO MAINTAIN STRUCTURAL INTEGRITY OF BEAM.

04 GRADE BEAM SLEEVE DETAIL



06 WATER ENTRANCE DETAIL
SCALE: NOT TO SCALE



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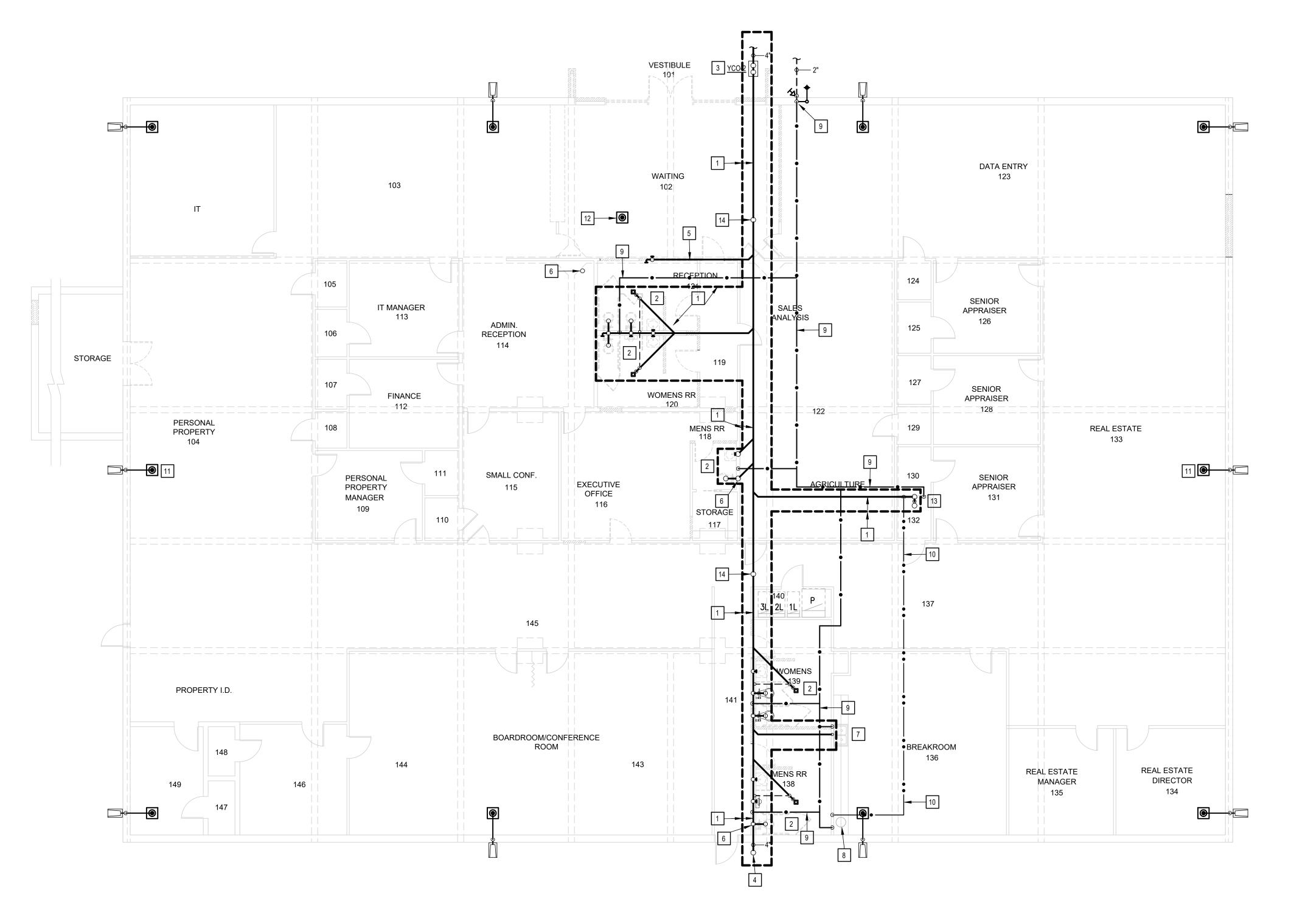
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P4.2







- REMOVED MATERIALS SHALL BELONG TO OWNER. DELIVER THEM TO OWNERS DESIGNATED LOCATION. IF OWNER DOES NOT WANT THE REMOVED MATERIALS THEN REMOVE THEM FROM SITE & PROPERLY DISPOSE OF THEM.
- 2. REFER TO ARCHITECTURAL DEMOLITION DRAWINGS FOR WALL AND CEILINGS TO BE REMOVED.
- 3. REFER TO ARCHITECTURAL SPECIFICATIONS FOR PHASING REQUIREMENTS.

PLUMBING KEYED NOTES:

- 1 TUNNEL UNDER EXISTING CONCRETE FOUNDATION BY GENERAL CONTRACTOR. REMOVE ALL EXISTING UNDERGROUND CAST IRON SANITARY SEWER PIPING SYSTEM AND PREPARE AREA FOR NEW SCHEDULE 40, PVC, SOLID WALL SANITARY SEWER PIPING SYSTEM. REFER TO PLUMBING PLAN, SHEET R-P2.1/R-P3.1 FOR NEW SANITARY SEWER PLUMBING SYSTEM. REFER TO STRUCTURAL PLANS AND SPECS FOR TUNNEL INFORMATION. COORDINATE WITH GENERAL CONTRACTOR.
- 2 EXISTING PLUMBING FIXTURES TO BE REMOVED.
- 3 EXISTING YARD CLEAN OUT TO BE REMOVED.
- EXISTING YARD CLEAN OUT TO BE REPLACED WITH NEW. REFER TO WASTE AND VENT PLUMBING PLAN, SHEET R-P3.1 FOR NEW YARD CLEAN OUT.
- 5 EXISTING ABANDONED UNDERGROUND PLUMBING LINE TO REMAIN IN PLACE.
- 6 EXISTING VENT THRU ROOF (VTR) TO REMAIN.
- 7 EXISTING DOUBLE COMPARTMENT SINK TO REMAIN.
- 8 EXISTING UNDER COUNTER ELECTRIC HOT WATER HEATER TO REMAIN.
- 9 EXISTING DOMESTIC COLD WATER SYSTEM TO REMAIN.
- 10 EXISTING DOMESTIC HOT WATER SYSTEM TO REMAIN.
- 11 EXISTING ROOF DRAINS TO REMAIN. UNLESS OTHERWISE NOTED. (TYPICAL)
- EXISTING ABANDONED ROOF DRAIN TO BE REMOVED. PATCH ROOF AS REQUIRED. COORDINATE WITH GENERAL CONTRACTOR.
- 13 EXISTING MOP SINK TO REMAIN.
- 14 EXISTING FCO TO REMAIN.

LEGEND						
	EXISTING WALL TO REMAIN					
	NEW WALL					
	EXISTING WALL TO BE DEMOLISHED					



KEYPLAN



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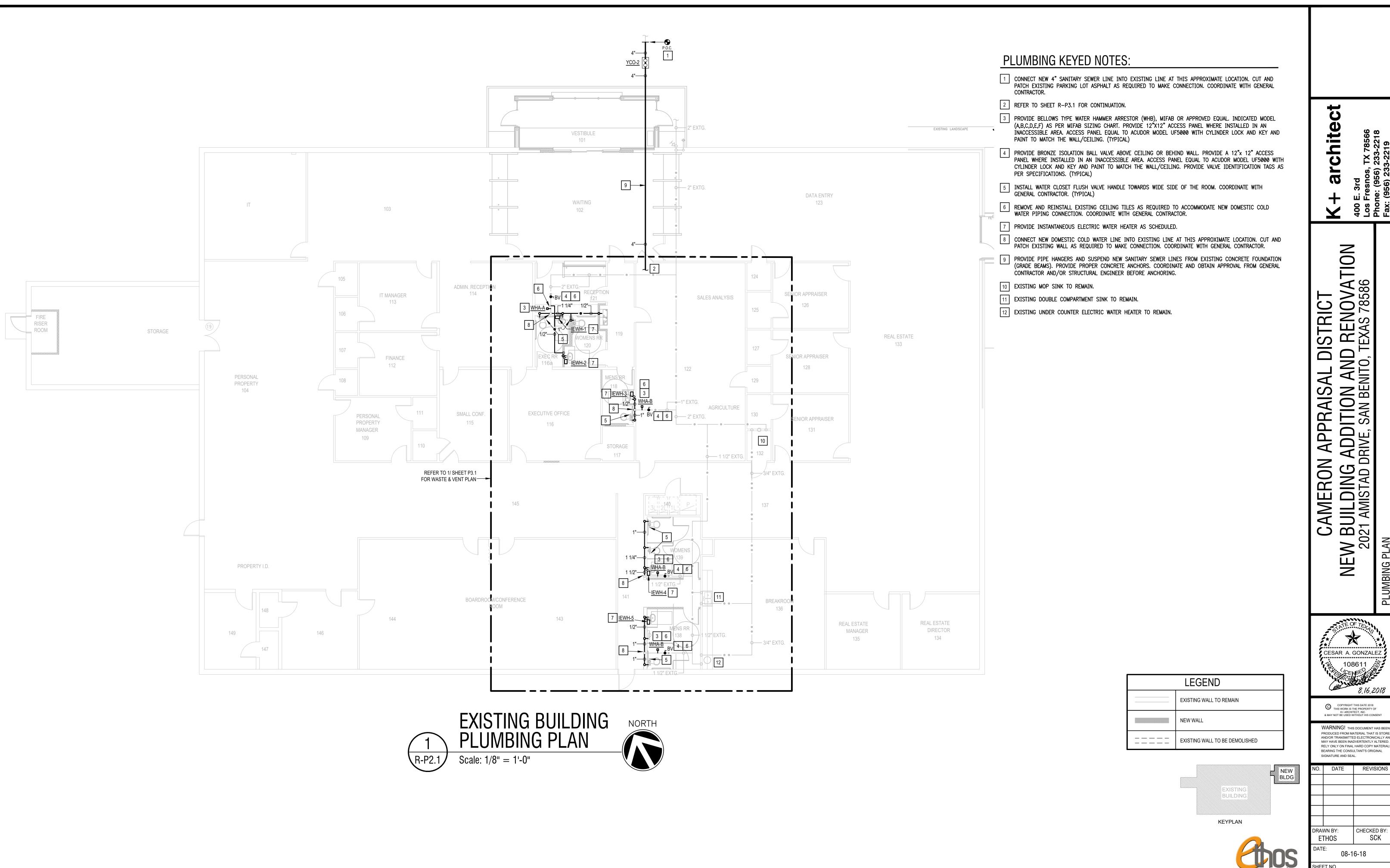
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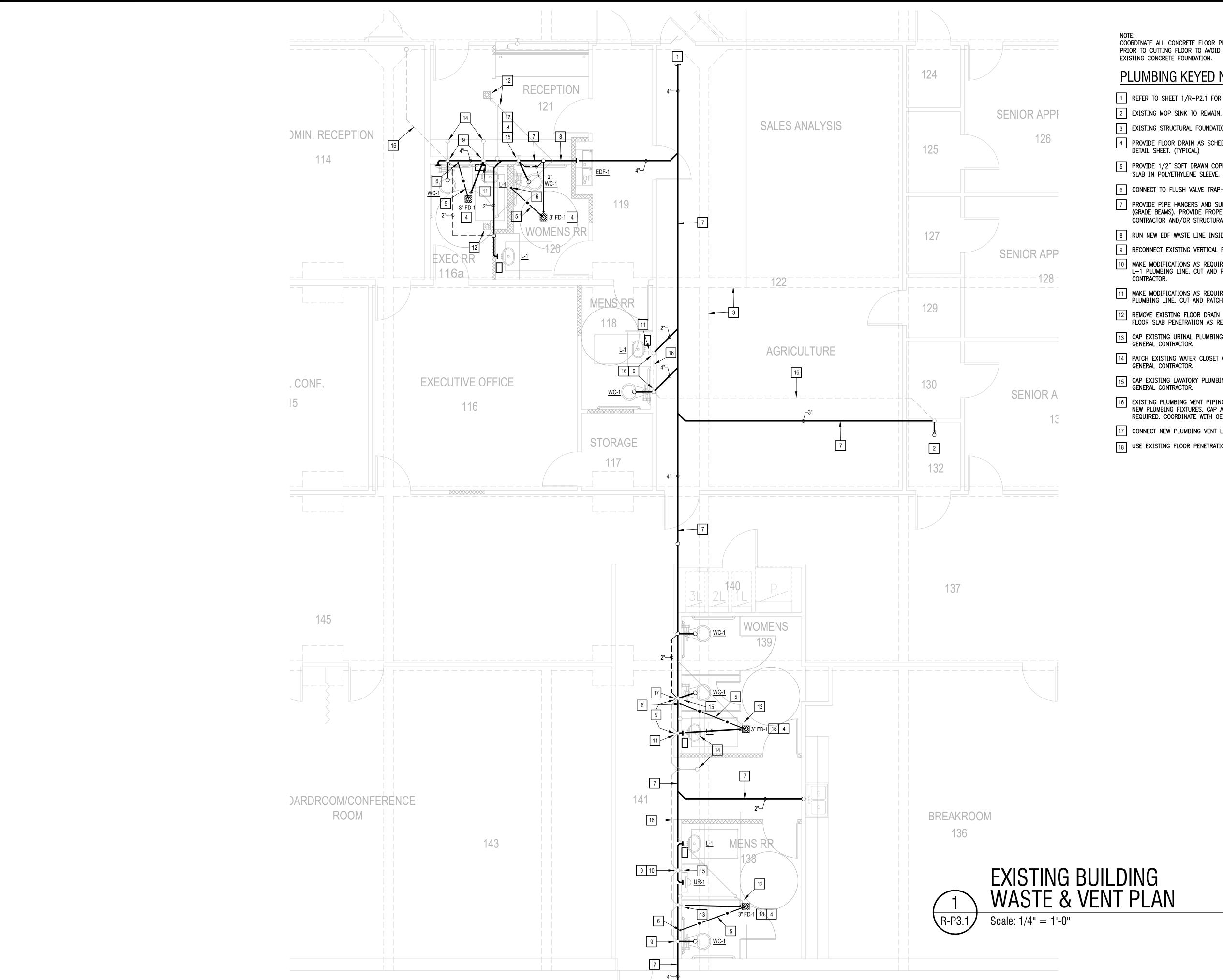


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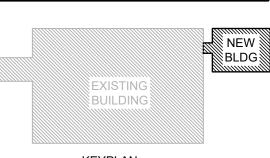


COORDINATE ALL CONCRETE FLOOR PENETRATIONS WITH GENERAL CONTRACTOR AND STRUCTURAL ENGINEER PRIOR TO CUTTING FLOOR TO AVOID DAMAGING EXISTING TENSION CABLES AND/OR THE INTEGRITY OF THE

PLUMBING KEYED NOTES:

- 1 REFER TO SHEET 1/R-P2.1 FOR CONTINUATION.
- 3 EXISTING STRUCTURAL FOUNDATION SHOWN FOR REFERENCE AND COORDINATION PURPOSES. (TYPICAL).
- 4 PROVIDE FLOOR DRAIN AS SCHEDULED. SET FLUSH WITH FINISHED FLOOR. SEE ASSOCIATED DETAIL ON
- 5 PROVIDE 1/2" SOFT DRAWN COPPER FROM TRAP-PRIMER. ENCASE PIPING INSIDE WALL AND UNDER FLOOR SLAB IN POLYETHYLENE SLEEVE. "POLY-SLEEVE" OR EQUAL.
- 6 CONNECT TO FLUSH VALVE TRAP-PRIMER (WC). SEE ASSOCIATED DETAIL ON DETAIL SHEET. (TYPICAL)
- PROVIDE PIPE HANGERS AND SUPPORT NEW SANITARY SEWER LINES FROM EXISTING CONCRETE FOUNDATION (GRADE BEAMS). PROVIDE PROPER CONCRETE ANCHORS. COORDINATE AND OBTAIN APPROVAL FROM GENERAL CONTRACTOR AND/OR STRUCTURAL ENGINEER BEFORE ANCHORING.
- 8 RUN NEW EDF WASTE LINE INSIDE WALL ABOVE CONCRETE FLOOR SLAB.
- 9 RECONNECT EXISTING VERTICAL PLUMBING LINE INTO NEW UNDERGROUND PLUMBING LINE.
- MAKE MODIFICATIONS AS REQUIRED TO EXISTING VERTICAL PLUMBING LINE TO CONNECT NEW UR-1 AND L-1 PLUMBING LINE. CUT AND PATCH EXISTING WALL AS REQUIRED. COORDINATE WITH GENERAL
- MAKE MODIFICATIONS AS REQUIRED TO EXISTING VERTICAL PLUMBING LINE TO CONNECT NEW L-1 PLUMBING LINE. CUT AND PATCH EXISTING WALL AS REQUIRED. COORDINATE WITH GENERAL CONTRACTOR.
- REMOVE EXISTING FLOOR DRAIN WITH ASSOCIATED WASTE AND VENT PIPING. PATCH EXISTING CONCRETE FLOOR SLAB PENETRATION AS REQUIRED. COORDINATE WITH GENERAL CONTRACTOR.
- CAP EXISTING URINAL PLUMBING LINE INSIDE WALL AND PATCH WALL AS REQUIRED. COORDINATE WITH
- PATCH EXISTING WATER CLOSET CONCRETE SLAB FLOOR PENETRATION AS REQUIRED. COORDINATE WITH
- CAP EXISTING LAVATORY PLUMBING LINE INSIDE WALL AND PATCH WALL AS REQUIRED. COORDINATE WITH GENERAL CONTRACTOR.
- EXISTING PLUMBING VENT PIPING SYSTEM TO REMAIN. MAKE MODIFICATIONS AS REQUIRED TO ACCOMMODATE NEW PLUMBING FIXTURES. CAP ALL UNUSED LINES INSIDE EXISTING WALL. PATCH WALL OPENINGS AS REQUIRED. COORDINATE WITH GENERAL CONTRACTOR.
- 17 CONNECT NEW PLUMBING VENT LINE INTO EXISTING LINE AT THIS APPROXIMATE LOCATION.
- 18 USE EXISTING FLOOR PENETRATION TO INSTALL NEW FLOOR DRAIN (FD).

LEGEND						
	EXISTING WALL TO REMAIN					
	NEW WALL					
	EXISTING WALL TO BE DEMOLISHED					



KEYPLAN



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