GENERAL NOTES:

GENERAL

1. ALL WORK SHALL CONFORM TO THE MINIMUM STANDARDS OF THE FOLLOWING CODES. THE CODES LISTED SHALL INCLUDE ALL AMENDMENTS AND ADDENDA IN FORCE AT THE DATE OF THE CONTRACT DOCUMENTS.

   2018 EDITION OF THE INTERNATIONAL BUILDING CODE

2. WHERE CONFLICT EXISTS AMONG THE VARIOUS PARTS OF THE STRUCTURAL AND ARCHITECTURAL CONTRACT DOCUMENTS THE STRICTEST REQUIREMENTS SHALL GOVERN.

3. CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS AND EXISTING CONDITIONS AT THE JOB SITE AND REPORT ANY DISCREPANCIES OR INCONSISTENCIES FROM ASSUMED CONDITIONS TO THE ARCHITECT PRIOR TO FABRICATION AND CONSTRUCTION.

4. DETAILS LABELED "TYPICAL DETAILS" ON THE DRAWINGS SHALL APPLY TO ALL SITUATIONS OCCURRING ON THE PROJECT THAT ARE THE SAME OR SIMILAR TO THOSE SPECIFICALLY DETAILED. SUCH DETAILS APPLY WHETHER OR NOT THEY ARE CUT AT EACH LOCATION. QUESTIONS REGARDING APPLICABILITY OF TYPICAL DETAILS SHALL BE DETERMINED BY THE ENGINEER.

5. DO NOT SCALE THE DRAWINGS.

6. THE GENERAL CONTRACTOR SHALL COMPARE THE ARCHITECTURAL AND STRUCTURAL DRAWINGS AND REPORT ANY DISCREPANCY BETWEEN EACH SET OF DRAWINGS AND WITHIN EACH SET OF DRAWINGS TO THE ARCHITECT AND ENGINEER PRIOR TO THE FABRICATION AND INSTALLATION OF ANY STRUCTURAL MEMBERS.

7. IT IS THE RESPONSIBILITY OF THE GENERAL CONTRACTOR TO OBTAIN ALL CONTRACT DOCUMENTS AND LATEST ADDENDA AND TO SUBMIT SUCH DOCUMENTS TO ALL SUBCONTRACTORS AND MATERIAL SUPPLIERS PRIOR TO THE SUBMITTAL OF SHOP DRAWINGS, FABRICATION OF ANY STRUCTURAL MEMBERS, AND ERECTION IN THE FIELD.

8. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO PROVIDE ALL MEASURES NECESSARY TO PROTECT THE STRUCTURE DURING CONSTRUCTION. SUCH MEASURES SHALL INCLUDE, BUT ARE NOT LIMITED TO, BRACING AND SHORING FOR LOADS DUE TO HYDROSTATIC, EARTH, WIND OR SEISMIC FORCES, AND CONSTRUCTION EQUIPMENT. OBSERVATION VISITS TO THE SITE BY THE ENGINEER SHALL NOT INCLUDE INSPECTION OF THE ABOVE ITEMS.

9. THE CONTRACT STRUCTURAL DRAWINGS AND SPECIFICATIONS REPRESENT THE FINISHED STRUCTURE. THEY DO NOT INDICATE THE METHOD OF CONSTRUCTION. THE CONTRACTOR SHALL SUPERVISE AND DIRECT THE WORK AND SHALL BE SOLELY RESPONSIBLE FOR ALL CONSTRUCTION MEANS, METHODS, PROCEDURES, TECHNIQUES, AND SEQUENCE.

10. IT IS THE DESIGN INTENT FOR ALL CONCRETE POURS TO HAPPEN IN SEQUENTIAL ORDER FROM FOUNDATIONS THROUGH ROOF. THE GENERAL CONTRACTOR SHALL DISCUSS WITH THE A/E TEAM THE FEASIBILITY OF NON-SEQUENTIAL POURING OF CONCRETE AND ITS IMPACT ON THE DESIGN INTENT AND ALLOW SUFFICIENT TIME FOR SUCH SCHEME TO BE INVESTIGATED OR REVIEWED.

11. PERIODIC SITE OBSERVATION BY THE ENGINEER IS SOLELY FOR THE PURPOSE OF DETERMINING IF THE WORK OF THE CONTRACTOR IS PROCEEDING IN GENERAL ACCORDANCE WITH THE STRUCTURAL CONTRACT DOCUMENTS. THIS LIMITED SITE OBSERVATION SHOULD NOT BE CONSTRUED AS EXHAUSTIVE OR CONTINUOUS TO CHECK THE QUALITY OF THE WORK, BUT RATHER PERIODIC IN AN EFFORT TO GUARD THE OWNER AGAINST DEFECTS OR DEFICIENCIES IN THE WORK OF THE CONTRACTOR.

12. NOTIFY THE STRUCTURAL ENGINEER WHEN DRAWINGS BY OTHERS SHOW OPENINGS, POCKETS, ETC., NOT SHOWN ON THE STRUCTURAL DRAWINGS, BUT WHICH ARE LOCATED IN THE STRUCTURAL MEMBERS.

13. DO NOT PENETRATE ANY STRUCTURAL ELEMENTS (BEAMS, COLUMNS, WALLS, SLABS, ETC.) WITHOUT PRIOR WRITTEN APPROVAL OF STRUCTURAL ENGINEER.

14. NOTES AND DETAILS ON DRAWINGS SHALL TAKE PRECEDENCE OVER GENERAL STRUCTURAL NOTES AND TYPICAL DETAILS. WHERE NO SPECIFIC DETAILS ARE SHOWN, CONSTRUCTION SHALL CONFORM TO SIMILAR WORK ON THE PROJECT.

15. SEE THE ARCHITECTURAL DRAWINGS FOR THE FOLLOWING:

    SIZE AND LOCATION OF DOOR AND WINDOW OPENINGS,
    SIZE AND LOCATION OF INTERIOR AND EXTERIOR NON-LOAD BEARING PARTITIONS, SIZE AND LOCATION OF CONCRETE CURBS, FLOOR DRAINS, SLOPES, DEPRESSED AREAS, CHAMFERS, GROOVES, INSERTS, ETC., SIZE AND LOCATION OF FLOOR AND ROOF OPENINGS, FLOOR AND ROOF FINISHES,
    STAIR FRAMING AND DETAILS, DIMENSIONS NOT SHOWN ON THE STRUCTURAL DRAWINGS, CEILING AND EXTERIOR WALL ASSEMBLIES.

16. SEE THE MECHANICAL, PLUMBING, AND ELECTRICAL DRAWINGS FOR THE FOLLOWING:

    PIPES, SLEEVES, HANGERS, TRENCHES, WALL, FLOOR AND ROOF OPENINGS, DUCT PENETRATIONS, ETC., EXCEPT AS SHOWN OR NOTED OTHERWISE ELECTRICAL CONDUIT RUNS, BOXES, OUTLETS IN WALLS AND SLABS, CONCRETE INSERTS FOR ELECTRICAL, MECHANICAL, OR PLUMBING FIXTURES, SIZE AND LOCATION OF MACHINE OR EQUIPMENT BASES AND ANCHOR BOLTS FOR MOUNTS.

DESIGN CRITERIA

1. DEAD LOAD MATERIALS ASSUMED IN THE DESIGN ARE SHOWN ON THE ARCHITECTURAL AND STRUCTURAL DRAWINGS.

2. AN ALLOWANCE OF 15 PSF HAS BEEN MADE FOR PARTITIONS AS A UNIFORMLY DISTRIBUTED LIVE LOAD, WHEREVER PARTITIONS ARE USED AND LOCATION SUBJECT TO CHANGE EXCLUDING PUBLIC LOBBIES, CORRIDORS, RESTROOMS, AND PLACES OF PUBLIC ASSEMBLY.

3. LIVE LOADS:

LOCATION	UNIFORM LOAD	CONCENTRATED LOAD
ROOF	20 PSF REDUCIBLE	300 LBS
MECHANICAL MEZZANINE	150 PSF REDUCIBLE ACTUAL EQUIP WEIGHT	
GROUND FLR, COMMON AREAS	100 PSF REDUCIBLE	
HANDRAILS AND GUARDRAILS	50 PLF OR 200 LBS APPLIED AT TOP RAIL IN ANY DIRECTION. 50 LBS IN ANY DIRECTION APPLIED AT INTERMEDIATE RAILS.	
GRAB BARS		250 LBS ANY DIRECTION

4. WIND LOADS

ULTIMATE WIND SPEED	120 MPH (3-SEC GUST)
NOMINAL WIND SPEED	93 MPH (3-SEC GUST)
RISK CATEGORY	IV
EXPOSURE CATEGORY	C
INTERNAL PRESSURE COEFF.	+/- 0.18
COMPONENTS & CLADDING	SEE DIAGRAM

5. SEISMIC LOADS

RISK CATEGORY	IV
SITE CLASS	B
IMPORTANCE FACTOR	1.25
MAPPED ACCELERATION PARAMETERS	
SS	0.051
S1	0.028
SPECTRAL RESPONSE COEFFICIENTS	
SDS	0.03
SD1	0.015
SEISMIC DESIGN CATEGORY	A

   SEISMIC DESIGN DOES NOT GOVERN BASED ON SECTION 11.7 OF ASCE 7-16

6. SNOW LOADS

GROUND SNOW LOAD	5 PSF
EXPOSURE FACTOR	0.9
IMPORTANCE FACTOR	1.0
THERMAL FACTORS	1.0

7. HANDRAILS, GUARDRAILS AND GRAB BARS (INCLUDING ATTACHMENT TO STRUCTURE) SHALL BE DESIGNED BY THE FABRICATOR FOR THE LOADS INDICATED IN THE REFERENCED BUILDING CODE. SHOP DRAWINGS SHALL BE SEALED BY A PROFESSIONAL ENGINEER IN THE STATE OF WHERE THE PROJECT IS LOCATED, REPRESENTING THE FABRICATOR.

8. STAIRS SHALL BE DESIGNED BY THE STEEL FABRICATOR FOR CODE REQUIRED LOADS. SHOP DRAWINGS SHALL BE SEALED BY A PROFESSIONAL ENGINEER IN THE STATE OF WHERE THE PROJECT IS LOCATED, REPRESENTING THE FABRICATOR.

FOUNDATION

1. THE FOUNDATION DESIGN IS BASED ON THE FOLLOWING GEOTECHNICAL REPORT (AND ANY ADDENDA) PREPARED BY THE FOLLOWING COMPANY:

   COMPANY TERRACON
   REPORT NO. 96255246
   DATED MARCH 16, 2026

   ALL RECOMMENDATIONS THEREIN THAT RELATE TO THE WORK SHOWN ON THESE DRAWINGS SHALL BE FOLLOWED.

2. THE FOUNDATION SYSTEM IS DESIGNED BASED ON THE FOLLOWING

   ALLOWABLE VALUES:

   VALUES ARE SHOWN FOR EMBEDMENT OF PIERS IN PALE BROWN TO TAN GLEN ROSE FORMATION LIMESTONE IN STRATUM 3

   MINIMUM EMBEDMENT INTO BEARING STRATUM = 4' OR 2 X SHAFT DIA (WHICHEVER IS GREATER)
   MINIMUM PIER LENGTH = 5' BELOW BOTTOM OF GRADE BEAM
   END BEARING = 30,000 PSF

   SKIN FRICTION (AFTER 4' EMBEDMENT) = 3000 PSF (COMPRESSION)
   SKIN FRICTION (AFTER 4' EMBEDMENT) = 3000 PSF (TENSION)

3. THE GENERAL CONTRACTOR SHALL NOTIFY THE GEOTECHNICAL ENGINEER OR OTHER AUTHORIZED INSPECTOR FOR REVIEW OF FOUNDATION BEARING SURFACE, INSPECTION OF FOUNDATION INSTALLATION, AND PLACEMENT OF REINFORCING STEEL. THE CONTRACTOR SHALL NOT PLACE CONCRETE WITHOUT INSPECTOR'S APPROVAL.

4. THE CONTRACTOR SHALL NOTIFY THE AUTHORIZED INSPECTOR 48 HOURS IN ADVANCE OF ANY MAJOR FOUNDATION POUR.

5. FORM EXPOSED FACES OF GRADE BEAMS.

6. GRADE BEAM BOTTOM STEEL SHALL BE CHAIRED AT 5 FOOT MAXIMUM CENTERS USING BEAM BOLSTERS PROVIDING 3 INCH BOTTOM COVER TO REINFORCING STEEL. BEAM BOLSTERS USED SHALL BE INTENDED FOR SUPPORT ON SOIL.

7. BOTTOM BARS OF GRADE BEAM SHALL BE SPLICED (WHERE REQUIRED) AT THE PIERS ONLY. TOP BARS SHALL BE SPLICED (WHERE REQUIRED) AT THE MIDSPAN OF THE GRADE BEAMS. LAP LENGTH SHALL BE 44 TIMES BAR DIAMETER UNLESS SPECIFIED OTHERWISE. PROVIDE CORNER BARS TO MATCH TOP AND BOTTOM STEEL.

8. ALL REINFORCING STEEL FOR SLABS SHALL BE CHAIRED WITH SLAB BOLSTERS FOR SUPPORT ON SOIL AT 4'-0" MAXIMUM CENTERS EACH WAY FOR REINFORCING FOR SLABS. DEPTH OF CHAIRS SHALL PROVIDE COVER TO REINFORCING AS NOTED ON PLANS/DETAILS.

9. SLAB ON GRADE CONSTRUCTION SHALL FOLLOW THE RECOMMENDATIONS OF GUIDE FOR CONCRETE FLOOR AND SLAB CONSTRUCTION ACI 302.1R. PROVIDE (3) #3 X 4'-0" TOP AND BOTTOM AT ALL SLAB ON GRADE RE-ENTRANT CORNERS.

10. SUBGRADE PREPARATION SHALL CONFORM TO THE SOILS REPORT NOTED ABOVE. IF REPORT DOES NOT SPECIFY THE AMOUNT OF SELECT FILL, PROVIDE FILL AS REQUIRED ABOVE TO REDUCE PVR TO 1 INCH.

11. VAPOR RETARDER SHALL HAVE NO MORE THAN 0.01 PERMS AS TESTED BEFORE AND AFTER MANDATORY CONDITIONING (ASTM E 1745 SECTION 7.1 AND SUB-PARAGRAPHS 7.1.2-5), MEET OR EXCEED THE REQUIREMENTS OF ASTM E 1745 CLASS A AND BE NO LESS THAN 15 MILS THICK.

12. ALL VAPOR RETARDER SEAMS SHALL BE OVERLAPPED A MINIMUM OF 6 INCHES AND TAPED WITH MANUFACTURER'S TAPE. ALL PENETRATIONS, BLOCK-OUTS, AND OPENINGS SHALL BE SEALED USING A COMBINATION OF THE VAPOR RETARDER, MASTIC AND MANUFACTURER'S TAPE. DO NOT PENETRATE VAPOR RETARDER WITH FORMWORK STAKES. USE STEGO BEAST FORM STAKES OR EQUIVALENT WHERE REQUIRED.

13. REMOVE ALL VEGETATION, TREE ROOTS, ORGANIC SOIL, EXISTING FOUNDATIONS, PAVED AREAS, AND ANY UNDESIRABLE MATERIALS FROM THE CONSTRUCTION AREA.

14. SCARIFY THE SUBGRADE, ADD MOISTURE, OR DRY AS NECESSARY AND RECOMPACT TO 95% OF THE MAXIMUM DRY DENSITY AS DETERMINED BY ASTM D698 (STANDARD PROCTOR TEST).

15. THE SUBGRADE AREAS SHALL THEN BE PROOF-ROLLED WITH HEAVY EQUIPMENT. ANY SOILS DEFLECTING EXCESSIVELY UNDER MOVING LOADS SHALL BE UNDERCUT TO FIRM SOILS AND RECOMPACTED. THE MOISTURE CONTENT AT THE TIME OF COMPACTION OF SUBGRADE SOILS SHALL BE WITHIN –1 TO +3% OF THE OPTIMUM PROCTOR VALUE.

16. STRUCTURAL FILL BENEATH THE BUILDING AREA SHALL CONSIST OF SANDY CLAYS WITH A LIQUID LIMIT LESS THAN 40 AND A PLASTICITY INDEX BETWEEN 7 AND 20. STRUCTURAL FILL SHALL BE PLACED IN LOOSE LIFTS NOT EXCEEDING EIGHT INCHES IN THICKNESS AND COMPACTED TO AT LEAST 95% OF THE MAXIMUM DRY DENSITY AS DETERMINED BY ASTM D698. THE MOISTURE CONTENT OF THE FILL AT THE TIME OF COMPACTION SHALL BE WITHIN –1 TO +3%OF THE OPTIMUM VALUE.

17. PROVIDE MINIMUM [ ] INCHES OF SELECT FILL UNDER BUILDING SLAB TO SEPARATE BUILDING SLAB FROM THE EXISTING GRADE. REMOVE EXISTING GRADE AS REQUIRED. CONTRACTOR SHALL RETAIN A TESTING LABORATORY FOR THE DETERMINATION OF SOIL COMPACTION AND CONCRETE TESTING. SUBMIT RESULTS TO ARCHITECT.

18. THE CONTRACTOR SHALL ENSURE THE SELECT FILL MATERIAL IS PROPERLY MIXED TO THE SATISFACTION OF THE GEOTECHNICAL ENGINEER AND TESTING LAB AND SHALL MAKE PROVISIONS FOR SOIL PULVERIZATION OR OTHER MIXING METHODS AS REQUIRED.

19. THE BEARING STRATUM OF EACH DRILLED PIER SHALL BE INSPECTED AND APPROVED BY THE GEOTECHNICAL ENGINEER OR OTHER AUTHORIZED INSPECTOR PRIOR TO POURING OF CONCRETE.

20. THE BOTTOM ELEVATION OF PIERS IS SHOWN ON THE DRAWINGS FOR BID PURPOSES. THE ACTUAL REQUIRED BEARING ELEVATION MAY VARY AS REQUIRED TO PROVIDE PROPER CAPACITY AS DETERMINED BY THE GEOTECHNICAL ENGINEER. FOOTINGS SHALL BE POURED IMMEDIATELY AFTER EXCAVATION.

21. PROVIDE AND INSTALL 1/8 INCH STEEL TEMPLATES TO ACCURATELY SET VERTICAL PIER REINFORCING STEEL, AND ANCHOR BOLTS FOR STEEL COLUMNS.

22. THE PRESENCE OF SAND SEAMS AND SLICKENSIDES IN THE LAYERS MAY CAUSE SLOUGHING DURING PIER EXCAVATION. THIS MAY REQUIRE THE USE OF TEMPORARY STEEL CASING.

23. REDUCING THE POTENTIAL FOR CAVING OF THE BELL CAN BE ACHIEVED BY LIMITING THE BELL TO SHAFT DIAMETER RATIO TO 2:1 OR TO INSTALL STRAIGHT SHAFT FOOTINGS.

24. THE GROUNDWATER LEVELS MAY FLUCTUATE SEASONALLY AND WITH CLIMATIC CHANGES. SEEPAGE OF GROUNDWATER INTO THE EXCAVATIONS IS POSSIBLE AND SEEPAGE FROM "PERCHED" WATER TRAPPED IN THE SOILS MAY ALSO OCCUR. THE CONTRACTOR SHALL MAKE PROVISIONS FOR DEWATERING THE FOOTING EXCAVATION IF GROUNDWATER IS ENCOUNTERED.

25. CONCRETE SHALL BE PLACED AS SOON AS POSSIBLE AFTER THE FOOTING EXCAVATIONS ARE COMPLETED TO REDUCE THE POTENTIAL FOR WATER SEEPAGE AND TO MINIMIZE THE DISTURBANCE TO THE BEARING AREA. IN NO CASE, SHOULD AN EXCAVATION BE LEFT OPEN OVERNIGHT.

CONCRETE

1. ALL ASPECTS OF WORK RELATING TO THE CONCRETE CONSTRUCTION SHALL CONFORM TO THE FOLLOWING CODES AND SPECIFICATIONS:

   CURRENT EDITION OF ACI 318 BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE
   CURRENT EDITION OF ACI 301 SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS
   CRSI MANUAL OF STANDARD PRACTICE

2. STRUCTURAL CONCRETE 28-DAY COMPRESSIVE STRENGTHS AND TYPES ARE AS FOLLOWS:

LOCATION	STRENGTH	TYPE	AGGREGATE SIZE
FOUNDATIONS	3000 PSI	NORMAL WT	1 1/2"
GRADE BEAMS	3000 PSI	NORMAL WT	1 1/2"
SLAB-ON-GRADE			
TYPICAL	3000 PSI	NORMAL WT	1 1/2"
APPARATUS BAY	4000 PSI	NORMAL WT	1 1/2"
METAL DECK SLAB	3500 PSI	NORMAL WT	3/8"

3. THERE SHALL BE NO HORIZONTAL COLD JOINT IN ANY CONCRETE POUR.

4. ADMIXTURES USED SHALL BE COMPATIBLE WITH FLOOR TREATMENTS. FINISH APPLICATOR SHALL APPROVE ADMIXTURES AND CURING COMPOUNDS PRIOR TO USE.

5. CONCRETE FOR SLAB-ON-GRADE SHALL HAVE A MAXIMUM WATER-CEMENT RATIO OF 0.45. ALL OTHER CONCRETE SHALL HAVE A MAXIMUM WATER-CEMENT RATIO OF 0.50. ADJUST CONCRETE STRENGTH BEYOND MINIMUM SPECIFIED ABOVE TO MAINTAIN MAXIMUM WATER-CEMENT RATIO.

6. CONCRETE FOR SLAB-ON-GRADE AND METAL DECK SHALL BE PROPORTIONED FOR A MAXIMUM ALLOWABLE UNIT SHRINKAGE OF 0.04% (400 MICROSTATIONS) AT 28 DAYS OF DRYING. LENGTH CHANGE SHALL BE MEASURED IN ACCORDANCE WITH ASTM C157.

7. FLY ASH CONFORMING TO ASTM C618, MAY BE USED UNLESS NOTED OTHERWISE. THE MAXIMUM AMOUNT OF FLY ASH SHALL BE 25% OF THE TOTAL CEMENTITIOUS MATERIAL BY WEIGHT.

8. AT POLISHED OR STAINED CONCRETE, THE FLY ASH ALLOWANCE IN NOTE 7 DOES NOT APPLY. NO FLY ASH IS PERMITTED IN THESE MIXES. ADDITIONALLY, NO AIR ENTRAINMENT IS ALLOWED EITHER. MAX WATER CEMENT RATIO SHALL BE 0.45. WET CURING IS REQUIRED AT POLISHED CONCRETE. USE ONE SOURCE FOR CEMENT, AGGREGATES, AND POZZOLANS THROUGHOUT THE PROJECT. DO NOT USE CALCIUM CHLORIDE-BASED ADMIXTURES. NON-CHLORIDE ADMIXTURES MAY BE USED. GENERAL CONTRACTOR SHALL PROTECT AREAS TO RECEIVE CONCRETE FINISH AT ALL TIMES DURING CONSTRUCTION TO PREVENT OILS, DIRT, METAL, EXCESSIVE WATER, AND OTHER POTENTIALLY DAMAGING MATERIALS FROM AFFECTING THE FINISHED CONCRETE SURFACE.

9. CONCRETE FORMS SHALL BE LAID OUT AND CONSTRUCTED TO PROVIDE THE SPECIFIED CAMBERS INDICATED ON THE STRUCTURAL DRAWINGS.

10. CONCRETE FOR SLABS TO RECEIVE A HARD-TROWELED FINISH SHALL NOT CONTAIN AIR-ENTRAINING ADMIXTURES OR HAVE A TOTAL AIR CONTENT GREATER THAN 3 PERCENT.

11. SUBMIT SHOP DRAWINGS TO ARCHITECT AND ENGINEER INDICATING LOCATIONS OF CONCRETE JOINTS TO REVIEW PRIOR TO PLACING CONCRETE. PLACE JOINTS AT LOCATIONS TO MINIMIZE THE EFFECTS OF SHRINKAGE AS WELL AS BEING PLACED AT POINTS OF LOW STRESS.

12. ROUGHEN CONCRETE SURFACES TO 1/4 INCH AMPLITUDE WHERE MASONRY WALLS INTERSECT CONCRETE OR WHERE NEW CONCRETE INTERFACES WITH EXISTING CONCRETE.

13. MECHANICAL PIPES AND ELECTRICAL CONDUITS WHICH PASS THROUGH SLAB-ON-GRADE, CONCRETE ON METAL DECK, FRAMED CONCRETE FLOORS, AND WALLS DO NOT REQUIRE SLEEVES UNLESS NOTED OTHERWISE ON THE PROJECT SPECIFICATIONS, MECHANICAL OR ELECTRICAL DRAWINGS. IF SLEEVES ARE REQUIRED, INSTALL SLEEVES BEFORE PLACING CONCRETE. DO NOT CUT ANY REINFORCING WHICH MAY INTERFERE WITH SLEEVE PLACEMENT. CORING OPENINGS IN CONCRETE IS NOT PERMITTED. NOTIFY THE ARCHITECT AND ENGINEER IN ADVANCE OF CONDITIONS NOT SHOWN ON THE STRUCTURAL DRAWINGS. NO PIPES OR ELECTRICAL CONDUIT SHALL PASS THROUGH CONCRETE BEAMS OR COLUMNS UNLESS SPECIFICALLY DETAILED.

14. WITH THE EXCEPTION OF SLABS ON GRADE AND CONCRETE ON METAL DECK, THE OUTSIDE DIAMETER OF MECHANICAL PIPES AND/OR ELECTRICAL CONDUITS (OTHER THAN THOSE PASSING THROUGH) SHALL NOT EXCEED 1/3 OF THE SLAB THICKNESS AND SHALL BE CENTERED BETWEEN THE TOP AND BOTTOM REINFORCING UNLESS SPECIFICALLY DETAILED OTHERWISE. CONCENTRATIONS OF MECHANICAL PIPES AND/OR ELECTRICAL CONDUITS SHALL BE AVOIDED EXCEPT WHERE DETAILED OPENINGS ARE PROVIDED. CONDUIT AND PIPE SHALL BE SPACED AT 3" OR 3 DIAMETERS ON CENTER, WHICHEVER IS GREATER.

15. FOR SLABS ON GRADE AND METAL DECK SLABS NO PIPES OR CONDUITS SHALL BE PLACED WITHIN THE INDICATED SLAB THICKNESS AND SHALL BE LOCATED BELOW THE SLAB UNLESS SPECIFICALLY DETAILED OTHERWISE.

16. THE DESIGN, CONSTRUCTION, AND SAFETY OF ALL FORMWORK SHALL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR. ALL FORMS, SHORES, BACKSHORES, FALSEWORK, BRACING, AND OTHER TEMPORARY SUPPORTS SHALL BE ENGINEERED TO SUPPORT ALL LOADS IMPOSED INCLUDING THE WET WEIGHT OF CONCRETE, CONSTRUCTION EQUIPMENT, LIVE LOADS, LATERAL LOADS DUE TO WIND AND WET CONCRETE IMBALANCE. THE CONTRACTOR SHALL ALSO BE RESPONSIBLE FOR DETERMINING WHEN TEMPORARY SUPPORTS, SHORES, BACKSHORES, AND OTHER BRACING MAY BE SAFELY REMOVED.

REINFORCING STEEL

1. ALL ASPECTS OF WORK RELATING TO THE REINFORCING STEEL SHALL CONFORM TO THE FOLLOWING CODES AND SPECIFICATIONS:

   CURRENT EDITION OF ACI 318 BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE
   CRSI MANUAL OF STANDARD PRACTICE

2. DEFORMED BARS SHALL CONFORM TO THE REQUIREMENTS OF ASTM A615 GRADE 60.

3. WELDED WIRE FABRIC SHALL CONFORM TO THE REQUIREMENTS OF ASTM A185, YIELD STRENGTH 65,000 PSI. WELDED DEFORMED WIRE FABRIC FOR ASTM A497, YIELD STRENGTH 70,000 PSI. ALL WELDED WIRE FABRIC SHALL BE FURNISHED IN FLAT SHEETS ONLY. WHEREVER WELDED WIRE FABRIC IS SPECIFIED AS REINFORCEMENT, IT SHALL BE CONTINUOUS ACROSS THE ENTIRE CONCRETE SURFACE AND NOT INTERRUPTED BY BEAMS OR GIRDERS AND PROPERLY LAPPED ONE CROSS WIRE SPACING PLUS 2 INCHES.

4. MINIMUM LAP OF WELDED WIRE FABRIC SHALL BE 6 INCHES OR ONE FULL MESH AND ONE HALF, WHICHEVER IS GREATER.

5. WELDING OF REINFORCING IS PERMITTED ONLY WHERE SHOWN ON THE DRAWINGS OR WHEN APPROVED BY THE ENGINEER OF RECORD. WELDING OF REINFORCING BARS SHALL BE WITH LOW HYDROGEN ELECTRODES IN ACCORDANCE WITH THE RECOMMENDED PRACTICES OF AWS D1.4.

6. ALL REINFORCING BAR BENDS SHALL BE MADE COLD.

7. REINFORCING DOWELS BETWEEN FOOTINGS AND WALLS OR COLUMNS SHALL BE THE SAME NUMBER, SIZE, SPACING, AND GRADE AS THE SPECIFIED VERTICAL REINFORCING, UNO.

8. IN ADDITION TO ALL OF THE REINFORCING STEEL INDICATED ON THE DRAWINGS, THE CONTRACTOR SHALL PROVIDE FOR AN ALLOWANCE OF A NET (INSERT AMOUNT HERE) TONS OF REINFORCING BARS TO BE FURNISHED, FABRICATED, AND PLACED DURING THE PROGRESSION OF WORK AS MAY BE DIRECTED BY THE ENGINEER OF RECORD.

9. CLEAR COVERAGE OF CONCRETE OVER REINFORCING BARS SHALL BE AS FOLLOWS:

LOCATION OF CONCRETE	MINIMUM COVER
CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH	3"
CONCRETE EXPOSED TO EARTH OR WEATHER	
#6 THROUGH #18 BAR	2"
#5 BAR AND SMALLER	1 1/2"
CONCRETE NOT EXPOSED TO EARTH OR WEATHER OR IN CONTACT WITH GROUND	
SLABS, WALLS, JOISTS	3/4"
BEAMS, COLUMNS (INCLUDING TIES)	1 1/2"
SLAB ON GRADE	SEE DETAILS
PRESTRESSED CONCRETE	SEE IBC 1907.7.3

NON-SHRINK GROUT FOR BASE PLATES AND BEARING PLATES

1. GROUT FOR BASE PLATES AND BEARING PLATES SHALL BE A NON-METALLIC, SHRINKAGE RESISTANT, PREMIXED, NON-CORROSIVE, NON-STAINING PRODUCT CONTAINING PORTLAND CEMENT, SILICA SANDS, SHRINKAGE COMPENSATING AGENTS, AND FLUIDITY IMPROVING COMPOUNDS.

2. GROUT SHALL CONFORM TO CORPS OF ENGINEERS SPECIFICATION FOR NON-SHRINK GROUT, CE-CRD-C621. TWENTY-EIGHT DAY COMPRESSIVE STRENGTH AS DETERMINED BY GROUT CUBE TESTS, SHALL BE 5,000 PSI. MINIMUM THICKNESS OF GROUT UNDER ALL BASE PLATES AND BEARING PLATES SHALL BE 1 INCH, UNLESS SPECIFIED OTHERWISE ON THE DRAWINGS.

3. GROUT SHALL BE PLACED IN A FLUID FLOWABLE STATE UNDER BASE PLATES THAT HAVE A FORM BUILT AROUND THEM FOR GROUT CONFINEMENT. GROUT SHOULD BE CURED ACCORDING TO MANUFACTURER'S RECOMMENDATIONS.

COLD-FORMED STEEL

1. ALL ASPECTS OF WORK RELATING TO COLD-FORMED (LIGHT GAGE) STEEL CONSTRUCTION SHALL CONFORM TO THE FOLLOWING CODES AND SPECIFICATIONS:

   CURRENT EDITION OF THE AISI SPECIFICATION FOR THE DESIGN OF COLD-FORMED STEEL STRUCTURAL MEMBERS, INCLUDING ANY SUPPLEMENTS.

2. COLD-FORMED STEEL MEMBERS SHALL BE OF THE SIZE, GAUGE, AND SPACING SHOWN ON THE DRAWINGS. FLANGE WIDTHS SHALL BE 1 5/8" WITH 1/2" RETURNS UNLESS SPECIFIED OTHERWISE.

3. ALL FRAMING MEMBERS SHALL BE MANUFACTURED FROM CORROSION RESISTANT STEEL CONFORMING TO ASTM A653 (G60). 25 GAUGE THROUGH 18 GAUGE MEMBERS SHALL BE FORMED FROM STEEL HAVING A MINIMUM 33 KSI YIELD POINT PER ASTM A653 GRADE 33. 16 GAUGE THROUGH 12 GAUGE MEMBERS SHALL BE FORMED FROM STEEL HAVING A MINIMUM 50 KSI YIELD POINT PER ASTM A446 GRADE 50.

4. SPLICES IN FRAMING COMPONENTS EXCEPT RUNNERS AND TRACKS SHALL NOT BE PERMITTED.

5. AT LOAD BEARING WALLS SUPPORTING FLOOR OR ROOF JOISTS, LOCATE STUDS DIRECTLY UNDER THE JOISTS OR PROVIDE LOAD DISTRIBUTING MEMBER BETWEEN STUDS TO SUPPORT JOISTS.

6. FASTENING OF COMPONENTS SHALL BE WITH SELF-DRILLING SCREWS OR WELDING. WELDING SHALL BE DONE USING FILLET, PLUG, BUTT OR SEAM WELDS WITH A MINIMUM 3/32 IN. AWS TYPE 6013 WELDING RODS. WELD AREAS SHOULD BE RE-TOUCHED WITH THE APPROPRIATE PAINT OR COLD-GALVANIZING TO RETAIN CORROSION RESISTANCE. ALL WORK SHALL BE COMPLETED BY QUALIFIED WELDERS IN ACCORDANCE WITH AWS D1.3 STANDARDS.

7. PROVIDE HORIZONTAL BRIDGING IN ALL STUD SYSTEMS AT 4'-0" O.C. VERTICALLY FOR AXIALLY LOADED STUDS AND AT 6'-0" O.C. FOR NON-LOAD BEARING STUDS. WELD AT EACH STUD INTERSECTION.

8. SCREWS SHALL BE SELF-DRILLING AND OF TYPE S-12, ASTM C-954, EXCEPT THAT TYPE S, ASTM C-1002 MAY BE USED FOR 20 GAUGE OR 22 GAUGE MATERIAL ONLY. SCREWS SHALL BE 3/8" TO 1/2" LONGER THAT TOTAL MATERIAL THICKNESS.

9. SHEATHING MATERIALS FOR SHEAR WALLS MUST EXTEND AND BE CONNECTED TO THE TOP AND BOTTOM TRACKS.

10. STEEL STRUCTURAL STUD TRACK OF THE SAME GAUGE AS THE STUDS SHALL BE USED AT THE TOP AND BOTTOM OF ALL STUD WALLS UNLESS NOTED OTHERWISE. STUDS SHALL SIT FLAT AGAINST THE WEB OF THE STUD TRACK AND BE ATTACHED WITH 1-#8 X 5/8" SCREW EACH SIDE OF EACH STUD.

11. WEB PUNCH-OUTS SHOULD BE COORDINATED WITH BRACING AND UTILITY REQUIREMENTS. WEB PUNCH-OUTS OR WEB OPENINGS SHALL BE LOCATED A MINIMUM OF 6" OR MEMBER DEPTH, WHICHEVER IS GREATER, FROM STUD OR JOIST BEARING POINTS.

12. ALL FRAMING COMPONENTS SHALL BE CUT SQUARELY FOR ATTACHMENT TO PERPENDICULAR MEMBERS, OR AS REQUIRED FOR AN ANGULAR FIT AGAINST ABUTTING MEMBERS.

13. FOR NON-LOAD BEARING STUDS, CONNECTIONS SHALL ACCOUNT FOR THE DEFLECTION OF THE STRUCTURAL MEMBERS TO WHICH THE STUDS ARE ATTACHED (1" MINIMUM). PROVIDE SLIDING CLIPS AND/OR SLIP TRACKS.

14. JACK STUDS OR CRIPPLES SHALL BE INSTALLED BELOW WINDOW SILLS, ABOVE WINDOW AND DOOR HEADS, AND ELSEWHERE TO FURNISH SUPPORT, AND SHALL BE SECURELY ATTACHED TO CONNECTING MEMBERS.

15. PRIOR TO FABRICATION, THE CONTRACTOR SHALL SUBMIT ERECTION DRAWINGS TO THE ARCHITECT AND ENGINEER OF RECORD FOR REVIEW AND APPROVAL.

16. TRACK SHALL BE SECURELY ANCHORED TO THE SUPPORTING STRUCTURE. ABUTTING PIECES OF TRACK SHALL BE SECURELY SPLICED TOGETHER.

17. THE DESIGN OF ALL COLD-FORMED STEEL SHALL BE PERFORMED BY THE COLD-FORMED METAL CONTRACTOR. THE DESIGN SHALL INCLUDE MEMBER SIZES AND CONNECTION. THE DESIGN SHALL CONSIDER MEMBER DIMENSIONS NOTED ON THE DRAWINGS. THE COLD-FORMED CONTRACTOR SHALL SUPPLY DRAWINGS SEALED BY AN ENGINEER REGISTERED IN THE STATE WHERE THE PROJECT IS LOCATED. THE OUT-OF-PLANE DEFLECTION OF STUDS SHALL BE LIMITED TO H/600 (H = UNSUPPORTED HEIGHT OF STUDS) IF USED FOR MASONRY OR STONE BACKUP, H/720 FOR ADHERED VENEER, FOR OTHER CONDITIONS THE DEFLECTION SHALL BE LIMITED TO H/360.

18. COLD-FORMED STEEL FRAMING SHALL HAVE A MINIMUM BASE METAL THICKNESS OF 0.43 (18 GA.) IF USED FOR MASONRY OR STONE BACKUP.

19. DO NOT HANG STUD FRAMING FROM METAL DECK ROOF. FRAMING SHALL BE SUPPORTED BETWEEN ROOF FRAMING MEMBERS.

PRE-ENGINEERED METAL BUILDING (PEMB)

1. ALL ROOF COMPONENTS INCLUDING PURLINS AND BUILDING FRAME SHALL BE DESIGNED BY METAL FRAME SUPPLIER. ALL OTHER STEEL MEMBERS SHALL BE DESIGNED BY THE METAL BUILDING SUPPLIER.

2. ALL DESIGNS SHALL CONFORM TO AISC, AISI AND MBMA STANDARDS (LATEST EDITION).

3. ALL ROOF DECK SYSTEMS SHALL CONFORM TO THE UL WIND-UPLIFT RATING OF CLASS 90.

4. ALL BUILDING FRAMES SHALL BE DESIGNED FOR A MAXIMUM HORIZONTAL DEFLECTION OF H/240 UNDER LATERAL LOADS (H = HEIGHT OF BUILDING FRAME).

5. GIRTS SUPPORTING BRICK/CMU SHALL BE DESIGNED FOR A MAXIMUM HORIZONTAL DEFLECTION OF L/600 (L = SPAN OF GIRT). MEMBERS SUPPORTING BRICK/CMU SHALL HAVE A VERTICAL DEFLECTION OF L/600.

6. ALL PURLINS SHALL BE DESIGNED FOR DEAD LOADS SHOWN ON ARCHITECTURAL DRAWINGS, INCLUDING MISCELLANEOUS FRAMING TO CARRY SUPERIMPOSED DEAD LOADS.

7. BUILDING FRAMES SHALL BE DESIGNED FOR THE LATERAL STABILITY OF THE BUILDING IN BOTH DIRECTIONS. EXAMINE THE CONSTRUCTION DOCUMENTS TO DETERMINE THE PREFERRED LOCATIONS OF LATERAL FRAMES. NO X-BRACES OR ROD BRACES ARE ALLOWED IN THE VERTICAL PLANE AT ANY LOCATIONS IN THESE DOCUMENTS.

8. FOUNDATION DESIGN IS BASED ON THE ROOF LOADINGS SPECIFIED BY THE MBMA AND ANY OTHER ADDITIONAL LOADS IMPOSED BY THE BUILDING USE. SUBMIT REACTIONS FROM METAL BUILDING FRAME (AT LEAST 6 WEEKS PRIOR TO THE POURING OF THE FOUNDATION) TO CONFIRM THE DESIGN OF FOOTINGS. GENERAL CONTRACTOR SHALL CONFIRM FOOTING SIZES WITH THE STRUCTURAL ENGINEER AFTER ACTUAL REACTIONS ARE RECEIVED FROM THE METAL BUILDING FRAME SUPPLIER. MODIFICATIONS TO FOUNDATION AND/OR DETAILS RESULTING FROM SUCH REVIEW SHALL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR AND HIS METAL BUILDING SUPPLIERS. NO ADDITIONAL COST PROPOSALS WILL BE ENTERTAINED.

9. SUBMIT SHOP DRAWINGS FOR BUILDING METAL BUILDING FRAMES, INCLUDING ALL CONNECTIONS. ALL SHOP DRAWINGS SHALL BE SEALED AND SIGNED BY A PROFESSIONAL ENGINEER REGISTERED IN THE STATE WHERE THE PROJECT IS LOCATED.

10. ALL WELDING SHALL BE IN CONFORMANCE WITH THE REQUIREMENTS OF AWS.

11. THE FOUNDATION HAS BEEN DESIGNED ASSUMING THAT RIGID FRAMES ARE PINNED AT THE BASE. THE FOOTINGS HAVE NOT BEEN DESIGNED FOR MOMENTS DUE TO FIXITY AT THE BASE.

12. THE METAL BUILDING MANUFACTURER SHALL TAKE INTO ACCOUNT LATERAL LOADS FOR BRACING PERIMETER/INTERIOR WALLS. THE TOP OF ALL WALLS SHALL BE BRACED BY THE METAL BUILDING STRUCTURE. PROVIDE STEEL MEMBERS AS REQUIRED.

13. THE METAL BUILDING MANUFACTURER SHALL REVIEW ALL PLANS (ARCHITECTURAL, STRUCTURAL, MEP, ETC.) DETAILS AND SPECIFICATIONS AND MAKE PROVISIONS FOR THE SUPPORT OF ALL ELEMENTS DESIGNATED TO BE SUPPORTED OR BRACED BY THE STRUCTURE, INCLUDING ANY HANGING ELEMENTS FROM THE ROOF, PIPING, DUCTS, CLADDING/WALL SUPPORT, MEP ELEMENTS SUPPORT, ETC. SUCH WORK IS NOT IN MSE'S SCOPE OF WORK. ANY SUCH MISSING ELEMENTS SHALL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR AND HIS METAL FRAMING SUPPLIER.

14. MATRIX STRUCTURAL ENGINEER'S SCOPE OF WORK IS STRICTLY FOR FOUNDATION DESIGN ONLY. ANY FRAMING SHOWN ON THESE PLANS ARE SCHEMATIC IN NATURE AND IS PROVIDED FOR THE CONVENIENCE OF THE METAL BUILDING MANUFACTURER. IF ADDITIONAL MOMENT FRAMES AND/OR BRACED BAYS ARE REQUIRED, PLEASE COORDINATE SUCH LOCATIONS WITH ARCHITECT. ANY WORK RELATED TO STRUCTURAL FRAMING (INCLUDING MEZZANINES, SECOND FLOOR, STAIRS, HANDRAILS, ETC., LATERAL BRACING OF WALLS AND OTHER COMPONENTS) IS IN THE SCOPE OF THE GENERAL CONTRACTOR AND THE METAL BUILDING SUPPLIER.

15. ALL ANCHOR BOLTS SHALL BE SUPPLIED BY THE BUILDING MANUFACTURER. THE MINIMUM EMBEDMENT DEPTH INTO CONCRETE SHALL BE 1' - 6" U.N.O.

16. PROVIDE (2) - #5 (WITH 4' - 0" LEGS) V SHAPED HAIRPIN BARS AT THE BASE OF ALL EXTERIOR COLUMNS, U.N.O.

17. ALL EXPOSED STEEL MEMBERS (INCLUDING CONNECTIONS AND ASSOCIATED ACCESSORIES) SHALL BE GALVANIZED.

18. NO EXCLUSIONS FROM PROVIDING A TOTAL AND COMPLETE BUILDING FRAMING PACKAGE WILL BE ENTERTAINED.

CONCRETE MASONRY

1. ALL MASONRY MATERIALS AND CONSTRUCTION SHALL CONFORM TO THE RECOMMENDATIONS OF THE NATIONAL CONCRETE MASONRY ASSOCIATION AND THE FOLLOWING CODES AND SPECIFICATIONS:

   ACI 530-11 BUILDING CODE REQUIREMENTS AND SPECIFICATION FOR MASONRY STRUCTURES

2. ALL CONCRETE MASONRY UNITS (CMU) SHALL CONFORM TO ASTM C90. UNLESS SPECIFIED OTHERWISE, CMU SHALL BE LIGHTWEIGHT (LESS THAN 110 PCF, OVEN DRY UNIT WEIGHT). THE MINIMUM COMPRESSIVE STRENGTH OF MASONRY (F'M) SHALL BE 2000 PSI AS DETERMINED BY THE UNIT STRENGTH METHOD OR BY THE PRISM TEST METHOD.

3. UNLESS SPECIFIED OTHERWISE, ALL MORTARS AND THE MATERIALS THEREIN SHALL CONFORM TO THE STANDARD SPECIFICATIONS OF MASONRY UNITS, ASTM C270, TYPE S EXCEPT FOR MASONRY IN CONTACT WITH THE EARTH SHALL BE TYPE M.

4. ALL GROUT SHALL BE FINE GROUT CONTAINING SAND, PORTLAND CEMENT, AND LIME (OPTIONAL) FOR GROUT SPACES LESS THAN 2 INCHES IN ANY HORIZONTAL DIRECTION, UNLESS SPECIFIED OTHERWISE. GROUT SHALL ATTAIN A MINIMUM 28 DAYS COMPRESSIVE STRENGTH OF 2500 PSI TESTED ACCORDING TO ASTM C476.

5. CONTROL JOINTS SHALL BE LOCATED PER ARCHITECTURAL DRAWINGS AND SPECIFICATIONS OR AT A MAXIMUM SPACING OF 24 FEET ON CENTERS OR 3 TIMES THE WALL HEIGHT, WHICHEVER IS LESS. ALL MASONRY UNITS SHALL BE PLACED IN RUNNING BOND.

6. PROVIDE HORIZONTAL JOINT REINFORCING (TRUSS OR LADDER TYPE, 9 GAUGE) AT 16 INCHES ON CENTER FOR ALL CMU WALLS LAID IN A RUNNING BOND AND AT 8 INCHES ON CENTER FOR ALL CMU WALL NOT LAID IN A RUNNING BOND. HORIZONTAL JOINT REINFORCING SHALL BE LAPPED A MINIMUM OF 6". REINFORCEMENT SHALL CONFORM TO ASTM A951 AND SHALL BE HOT DIP GALVANIZED IN ACCORDANCE WITH ASTM A153.

7. ALL HORIZONTAL REINFORCING STEEL IN BOND BEAMS AND LINTEL BLOCK UNITS SHALL BE CONTINUOUS AND UNITS SHALL BE SOLID GROUTED. PROVIDE 48 TIMES BAR DIAMETER LAP FOR HORIZONTAL REINFORCING IN BOND BEAMS. NO SPLICES SHALL BE PROVIDED FOR HORIZONTAL REINFORCING IN BLOCK LINTELS.

8. GROUT CELLS SOLID WHERE VERTICAL BARS ARE SHOWN ON THE DRAWINGS. VERTICAL BARS SHALL EXTEND FROM BOTTOM TO THE TOP OF THE WALL. AT EACH VERTICAL BAR, PROVIDE MATCHING BAR SIZE DOWEL INTO FOUNDATIONS. PROVIDE MINIMUM 48 TIMES BAR DIAMETER SPLICE FOR VERTICAL BARS WHERE REQUIRED AND/OR SHOWN ON THE DRAWINGS UNLESS NOTED OTHERWISE.

9. GROUT LIFTS SHALL TERMINATE TO FORM A GROUT KEY A MINIMUM OF 1 1/2" BELOW MORTAR JOINTS WHEN SUBSEQUENT GROUT LIFTS WILL HAPPEN AFTER PREVIOUS GROUT LIFTS HAVE SET. GROUT KEYS IN BOND BEAMS OR LINTELS SHALL NOT BE PERMITTED.

10. MAXIMUM GROUT POUR HEIGHT SHALL BE 5' - 4" (8 BLOCK COURSES).

11. PROVIDE A BOND BEAM AT THE TOP OF ALL CMU WALLS AND REINFORCE WITH (2) - #5 CONTINUOUS UNLESS NOTED OTHERWISE. UNLESS NOTED OTHERWISE, ALL EXTERIOR BOND BEAMS SHALL BE REINFORCED WITH (2) - #5 CONTINUOUS AND ALL INTERIOR BOND BEAMS SHALL BE REINFORCED WITH (2) - #4 CONTINUOUS. BOND BEAM REINFORCING SHALL NOT BE CONTINUED THROUGH CONTROL JOINT LOCATIONS.

12. PROVIDE BOND BEAMS AT A MAXIMUM OF 48 INCHES ON CENTER IN ALL EXTERIOR AND LOAD BEARING CMU WALLS NOT LAID IN A RUNNING BOND (E.G. STACK BOND) REINFORCED WITH (2) - #5 CONTINUOUS UNLESS NOTED OTHERWISE BOND BEAM REINFORCEMENT SHALL BE DISCONTINUED AT CONTROL JOINTS.

13. AT THE END OF EACH DAY AND DURING INCLEMENT WEATHER, ALL UNFINISHED MASONRY WORK SHALL BE COVERED AT THE TOP OF WALL AND EXTEND DOWN ALL SIDES A MINIMUM OF 24".

14. SEE TYPICAL DETAILS FOR INTERIOR WALL HEIGHT, BRACING AND REINFORCING REQUIREMENTS.

15. MECHANICAL PIPES AND ELECTRICAL CONDUITS WHICH PASS THROUGH MASONRY WALLS DO NOT REQUIRE SLEEVES, UNLESS NOTED OTHERWISE IN THE PROJECT SPECIFICATIONS, MECHANICAL OR ELECTRICAL DRAWINGS. IF SLEEVES ARE REQUIRED, INSTALL SLEEVES BEFORE GROUTING. DO NOT CUT ANY REINFORCING WHICH MAY INTERFERE WITH SLEEVE PLACEMENT. CORING OPENINGS IN GROUTED MASONRY IS NOT PERMITTED. NOTIFY THE STRUCTURAL ENGINEER IN ADVANCE OF CONDITIONS NOT SHOWN ON THE STRUCTURAL DRAWINGS. NO PIPES OR ELECTRICAL CONDUIT SHALL PASS THROUGH MASONRY LINTELS UNLESS SPECIFICALLY DETAILED.

16. ALL REINFORCED MASONRY WALLS WITH OPENINGS UP TO THREE (3) FEET WIDE, SHALL HAVE ONE VERTICAL BAR MINIMUM AT EACH SIDE OF OPENINGS. FOR OPENINGS LARGER THAN 3 FEET WIDE, PROVIDE TWO (2) VERTICAL BARS AT EACH SIDE OF OPENINGS UNLESS NOTED OTHERWISE. REINFORCING AT EDGES OF OPENING SHALL MATCH TYPICAL VERTICAL WALL REINFORCING (UNLESS NOTED OTHERWISE) AND SHALL EXTEND TO THE TOP OF WALL.

17. ALL REINFORCED MASONRY WALL CORNERS AND INTERSECTIONS SHALL HAVE ONE VERTICAL BAR (MINIMUM) IN GROUTED CELL. REINFORCING SHALL MATCH TYPICAL WALL VERTICAL REINFORCEMENT.

18. PROVIDE ONE VERTICAL BAR (MINIMUM) IN THE FIRST CELL EACH SIDE OF CONTROL JOINTS. REINFORCING SHALL MATCH TYPICAL VERTICAL WALL REINFORCING (UNLESS NOTED OTHERWISE) AND SHALL EXTEND TO THE TOP OF WALL.

SUBMITTALS

1. THE GENERAL CONTRACTOR SHALL SUBMIT FOR ENGINEER REVIEW SHOP DRAWINGS FOR THE FOLLOWING ITEMS:

   CONCRETE MIX DESIGNS AND ACCESSORIES
   REINFORCING STEEL
   METAL DECK
   MISCELLANEOUS STEEL
   STEEL STAIR (*,^)
   FORMWORK (*,#)
   PRE-ENGINEERED METAL BUILDING (*,#)
   LIGHT-GAGE FRAMING (*,^)
   CONCRETE MASONRY (MATERIAL AND REBAR PLACEMENT PLANS)
   SLAB CONTRACTION JOINT LAYOUT

   ITEMS MARKED (*) SHALL HAVE SHOP DRAWINGS SEALED BY A REGISTERED ENGINEER IN THE STATE WHERE THE PROJECT IS LOCATED. ITEMS MARKED (#) SHALL BE SUBMITTED TO ENGINEER FOR OWNER'S RECORD ONLY AND WILL NOT HAVE ENGINEER'S SHOP DRAWING STAMP. ITEMS MARKED (^) SHALL HAVE SEALED STRUCTURAL CALCULATIONS SUBMITTED TO ENGINEER FOR OWNER'S RECORD.

2. ALL SHOP DRAWINGS MUST BE REVIEWED AND SEALED BY THE GENERAL CONTRACTOR PRIOR TO SUBMITTAL.

3. CONTRACTOR SHALL SUBMIT ELECTRONIC COPIES (E.G. PDFS) OF ALL SHOP DRAWINGS SPECIFIED TO BE RETURNED BY THE ENGINEER.

4. THE OMISSION FROM THE SHOP DRAWINGS OF ANY MATERIAL REQUIRED BY THE CONTRACT DOCUMENTS TO BE FURNISHED SHALL NOT RELIEVE THE CONTRACTOR OF THE RESPONSIBILITY OF FURNISHING AND INSTALLING SUCH MATERIALS, REGARDLESS OF WHETHER THE SHOP DRAWINGS HAVE BEEN REVIEWED AND APPROVED.

5. SUBMIT TWO COPIES OF MANUFACTURER'S LITERATURE FOR ALL MATERIALS AND PRODUCTS USED IN CONSTRUCTION ON THE PROJECT.

6. THE USE OF REPRODUCTIONS OF THESE CONTRACT DOCUMENTS BY ANY CONTRACTOR, SUBCONTRACTOR, ERECTOR, FABRICATOR, OR MATERIAL SUPPLIER IN LIEU OF PREPARATION OF SHOP DRAWINGS SIGNIFIES HIS ACCEPTANCE OF ALL INFORMATION SHOWN HEREIN AS CORRECT, AND OBLIGATES HIMSELF TO ANY JOB EXPENSE, REAL OR IMPLIED, ARISING DUE TO ANY ERRORS THAT MAY OCCUR HEREIN.

PROFESSIONAL SEAL

Matrix Structural Engineers
TBPE Firm Registration No. F-2640

STATE OF TEXAS
KHALIL TABAJA
117127
LICENSED
PROFESSIONAL ENGINEER
10/20/2026

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Architectural
Martinez Architects

Civil
Hill Country Civil

Landscape
Evergreen Landscape Group

Structural
Matrix Structural

MEP
Emerald MEP

Technology
Imagine IT

Alerting
WestNET

STATION #42
Hays County ESD #4
xxxxx
Wimberley, TX 78676

PROJECT No: **MA 25016**
DATE: **01-JUN-2026**

ISSUE #

1	100% DD	01/06/2026
2	25% CD	02/25/2026
3	75% CD	04/06/2026
4	98% CD	05/04/2026
5	IFP	06/01/2026
6	IFB	10/20/2026

GENERAL NOTES

S-101

SPECIAL INSPECTION

1. ALL ASPECTS OF WORK RELATING TO SPECIAL INSPECTION SHALL CONFORM TO THE FOLLOWING CODES AND SPECIFICATIONS:

   2018 INTERNATIONAL BUILDING CODE (CHAPTER 17).

2. THE OWNER'S SPECIAL INSPECTOR SHALL BE A QUALIFIED PERSON WHO SHALL DEMONSTRATE COMPETENCE, TO THE SATISFACTION OF THE BUILDING OFFICIAL, FOR INSPECTION OF THE PARTICULAR TYPE OF CONSTRUCTION OR OPERATION REQUIRING SPECIAL INSPECTION.

3. PRIOR TO THE BEGINNING OF CONSTRUCTION, THE ARCHITECT (OR ENGINEER) SHALL CALL A PRE-CONSTRUCTION MEETING WITH THE ARCHITECT, ENGINEER, BUILDING OFFICIAL, CONTRACTOR AND SPECIAL INSPECTORS TO REVIEW THE SPECIAL INSPECTION REQUIREMENTS.

4. DUTIES OF THE OWNER'S SPECIAL INSPECTOR INCLUDE (BUT ARE NOT LIMITED TO):

   A. ACKNOWLEDGE THE SPECIAL INSPECTION AND TESTING AGREEMENT PROVIDED BY THE LOCAL JURISDICTION.

   B. THE OWNER'S SPECIAL INSPECTOR SHALL OBSERVE THE WORK FOR CONFORMANCE WITH THE APPROVED CONSTRUCTION DOCUMENTS. ALL DISCREPANCIES SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE CONTRACTOR FOR CORRECTION, THEN, IF UNCORRECTED TO THE REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE AND TO THE BUILDING OFFICIAL.

   C. THE OWNER'S SPECIAL INSPECTOR SHALL FURNISH INSPECTION REPORTS FOR EACH INSPECTION TO THE BUILDING OFFICIAL, ARCHITECT, REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE, CONTRACTOR AND (OTHER DESIGNATED PARTIES), IN A TIMELY MANNER, AS ESTABLISHED AT THE PRE-CONSTRUCTION MEETING.

   D. THE OWNER'S SPECIAL INSPECTOR SHALL SUBMIT A FINAL REPORT STATING WHETHER THE WORK REQUIRING SPECIAL INSPECTION WAS, TO THE BEST OF THE SPECIAL INSPECTOR'S KNOWLEDGE, IN CONFORMANCE WITH THE APPROVED CONSTRUCTION DOCUMENTS AND THE APPLICABLE WORKMANSHIP PROVISIONS OF THE INTERNATIONAL BUILDING CODE.

5. DUTIES OF THE CONTRACTOR INCLUDE (BUT ARE NOT LIMITED TO):

   A. NOTIFY THE SPECIAL INSPECTOR THAT THE WORK IS READY FOR INSPECTION AT LEAST 24 HOURS BEFORE SUCH INSPECTION.

   B. ALL WORK REQUIRING SPECIAL INSPECTION SHALL REMAIN ACCESSIBLE AND EXPOSED UNTIL IT HAS BEEN OBSERVED AND INDICATED TO BE IN CONFORMANCE BY THE SPECIAL INSPECTOR AND APPROVED BY THE BUILDING OFFICIAL.

   C. PROVIDE THE SPECIAL INSPECTOR WITH ACCESS TO APPROVED CONSTRUCTION DOCUMENTS AT JOBSITE.

   D. MAINTAIN AT THE JOBSITE COPIES OF ALL REPORTS SUBMITTED BY THE SPECIAL INSPECTOR.

6. CONTINUOUS SPECIAL INSPECTION REFERS TO INSPECTIONS BY THE SPECIAL INSPECTOR WHO IS CONTINUOUSLY PRESENT WHEN AND WHERE THE WORK TO BE INSPECTED IS BEING PERFORMED.

7. PERIODIC SPECIAL INSPECTION REFERS TO INSPECTIONS BY THE SPECIAL INSPECTOR WHO IS INTERMITTENTLY PRESENT WHERE THE WORK TO BE INSPECTED HAS BEEN OR IS BEING PERFORMED.

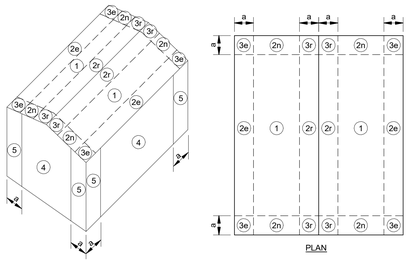
8. SPECIAL INSPECTIONS AND TESTING SHALL BE REQUIRED FOR THE FOLLOWING TYPES OF WORK LISTED BELOW. SPECIAL INSPECTIONS AND TESTING SHALL FOLLOW THE REQUIREMENTS OF THE BUILDING AND MATERIAL CODE REFERENCES AND TABLES. IN THE EVENT OF A CONFLICT BETWEEN REFERENCES, THE OWNER'S SPECIAL INSPECTOR SHALL FOLLOW THE MORE STRINGENT REQUIREMENT.

SOILS	IBC 1704.7 AND TABLE 1704.7, APPROVED GEOTECHNICAL REPORT AND CONSTRUCTION DOCUMENTS
CAST-IN-PLACE DEEP FOUNDATIONS	IBC 1704.9 AND TABLE 1704.9 APPROVED GEOTECHNICAL REPORT AND CONSTRUCTION DOCUMENTS
CONCRETE	IBC 1704.4 AND TABLE 1704.4
SHOP FABRICATION	IBC 1704.2 (NOT REQUIRED IF FABRICATOR IS APPROVED IN ACCORDANCE WITH IBC 1704.2.2.)
MASONRY	IBC 1704.5 AND TABLE 1704.5.3
EXPANSION/EPOXY ANCHORS	MANUFACTURER'S ICC REPORT

ROOF PRESSURE						
ZONE	0-10 SQ. FT.	20 SQ. FT.	50 SQ. FT.	>100 SQ. FT.	>500 SQ. FT.	>1000 SQ. FT.
1	+22,-61	+19,-16	+17,-35	+16,-16	+16,-16	+16,-16
2n	+22,-91	+19,-78	+17,-61	+16,-48	+16,-31	+16,-31
2r	+22,-91	+19,-78	+17,-61	+16,-48	+16,-31	+16,-31
2e	+22,-61	+19,-61	+17,-35	+16,-16	+16,-16	+16,-16
3r	+22,-110	+19,-93	+17,-72	+16,-55	+16,-55	+16,-55
3e	+22,-91	+19,-78	+17,-61	+16,-48	+16,-31	+16,-31

WALL PRESSURE						
ZONE	0-10 SQ. FT.	20 SQ. FT.	50 SQ. FT.	>100 SQ. FT.	>500 SQ. FT.	>1000 SQ. FT.
4	+36,-34	+34,-33	+32,-30	+30,-29	+27,-25	+27,-25
5	+36,-43	+34,-40	+32,-36	+30,-33	+27,-25	+27,-25

ROOF OVERHANG PRESSURE						
ZONE	0-10 SQ. FT.	20 SQ. FT.	50 SQ. FT.	>100 SQ. FT.	>500 SQ. FT.	>1000 SQ. FT.
1	-75	-75	-58	-45	-45	-45
2n	-106	-96	-83	-73	-60	-60
2r	-106	-96	-83	-73	-60	-60
2e	-75	-75	-58	-45	-45	-45
3r	-142	-120	-91	-69	-69	-69
3e	-124	-107	-84	-68	-45	-45



GABLE ROOF

NOTES:
1. (0-10 SQ. FT.) EXAMPLE DENOTES EFFECTIVE WIND AREA.
2. + AND - SIGNS SIGNIFY PRESSURES ACTING TOWARD OR AWAY FROM THE SURFACES, RESPECTIVELY. ALL VALUES SHOWN ARE IN PSF.
3. WIND PRESSURE FOR EFFECTIVE WIND AREAS BETWEEN THE SPECIFIED RANGES MAY BE DETERMINED BY INTERPOLATION, OTHERWISE, USE THE VALUE ASSOCIATED WITH THE LOWER EFFECTIVE AREA.
4. h = EAVE HEIGHT.
5. a = WIDTH OF EDGE STRIP EQUAL TO 10% OF THE LEAST HORIZONTAL DIMENSION (L or B) or 40% OF THE ROOF HEIGHT (h), WHICHEVER IS SMALLER, BUT NOT LESS THAN 4% OF THE LEAST HORIZONTAL DIMENSION OR 3 FT.
6. ELEMENTS WITH TRIBUTARY AREAS GREATER THAN 700 SQ. FEET MAY BE DESIGNED USING MWFRS PROVISIONS.
7. VALUES SHOWN ARE BASED ON IBC 2018 / ASCE 7-16 WIND CALCULATIONS FOR COMPONENTS AND CLADDING AND ARE ULTIMATE VALUES (LRFD). VALUES SHOWN ARE FOR USE IN ASCE 7-16 LOAD COMBINATIONS SHOWN IN SECTION 2.32 (1.0W).
8. THE BUILDING LAYOUT SHOWN IS INTENDED TO BE SCHEMATIC, APPLY WIND PRESSURE PROVIDED SIMILARLY TO THE BUILDING(S) AT THIS PROJECT.
9. UNLESS OTHERWISE SPECIFIED, ROOF DEAD LOAD TO BE USED FOR NET UPLIFT CALCULATIONS SHALL NOT EXCEED 10 PSF. NET UPLIFT PRESSURE SHALL NOT BE LESS THAN 16 PSF.

COMPONENTS & CLADDING PRESSURES

ASCE Hazards Report

Address: No Address at This Location
Standard: ASCE/SEI 7-16
Risk Category: IV
Soil Class: B - Rock
Latitude: 30.0305
Longitude: -98.1014
Elevation: 1028.374769638611 ft (NAVD 88)



Wind

Results:

Wind Speed	120 Vmph
10-year MRI	72 Vmph
25-year MRI	79 Vmph
50-year MRI	85 Vmph
100-year MRI	91 Vmph

Data Source: ASCE/SEI 7-16, Fig. 26.5-1D and Figs. CC.2-1–CC.2-4, and Section 26.5.2
Date Accessed: Wed Feb 25 2026

ABBREVIATIONS

ABBR.	ABBREVIATION
A.F.F.	ABOVE FINISH FLOOR
ADDN'L	ADDITIONAL
AHU	AIR HANDLING UNIT
ALT.	ALTERNATE
ANCH.	ANCHOR
A.B.	ANCHOR BOLT
A.R.	ANCHOR ROD
APPROX.	APPROXIMATELY
ARCH.	ARCHITECT(URAL)
BM.	BEAM
BRG.	BEARING
BTW	BETWEEN
BOT.	BOTTOM
B.F.B.	BOTTOM FLANGE BRACE
B.O.	BOTTOM OF
BRDG.	BRIDGING
BLDG	BUILDING
C.	CAMBER
CANT.	CANTILEVER
C.I.P.	CAST IN PLACE
C/C	CENTER TO CENTER
CL	CENTERLINE
CH	CHANNEL
CLR.	CLEAR(ANCE)
CFMF	COLD FORMED METAL FRAMING
COL.	COLUMN
CJP	COMPLETE JOINT PENETRATION
CONC.	CONCRETE
CMU	CONCRETE MASONRY UNIT
CONN.	CONNECTION
CONST.	CONSTRUCTION
C.J.	CONSTRUCTION / CONTRACTION JOINT
CONT.	CONTINUOUS
COORD.	COORDINATE
DL	DEAD LOAD
DBA	DEFORM BAR ANCHOR
D	DEPTH
DET.	DETAIL
DIA. or Ø	DIAMETER
DIM.	DIMENSION
DWL.	DOWEL
D.N.	DOWN
DWG.	DRAWING
EA.	EACH
E.F.	EACH FACE
E.W.	EACH WAY
EL.	ELEVATION
ELEV.	ELEVATOR
EMBED.	EMBEDMENT
ENGR.	ENGINEER
EOR	ENGINEER OF RECORD
EQ.	EQUAL
EQUIP.	EQUIPMENT
EQUIV.	EQUIVALENT
EXIST.	EXISTING
E.J.	EXPANSION JOINT
EXT.	EXTERIOR
f'c=	28 DAY CONCRETE STRENGTH
FAB.	FABRICATE
F.S.	FAR SIDE
FIN.	FINISH(IF/INISHED
FLR	FLOOR
F.D.	FLOOR DRAIN
FTG.	FOOTING
Fy=	YIELD STRENGTH
GALV.	GALVANIZED
GA.	GAUGE
GEN	GENERAL
G.C.	GENERAL CONTRACTOR
GFRC	GLASS FIBER REINFORCED CONCRETE
GR.	GRADE/GRADING
HGR.	HANGER
HSA	HEADED STUD ANCHOR
HI	HIGH
HSS	HOLLOW STRUCTURAL SECTION
HORIZ. OR (H)	HORIZONTAL
H	HORIZONTAL REACTION
IN	INCH
INFO.	INFORMATION
ID	INSIDE DIAMETER
I.F.	INSIDE FACE
INT.	INTERIOR
JT.	JOINT
JST.	JOIST
K	KIPS (1000 LBS)
KSF	KIPS PER SQUARE FOOT
KSI	KIPS PER SQUARE INCH
L	ANGLE
Ld	DEVELOPMENT LENGTH
LWC	LIGHTWEIGHT CONCRETE
LL	LIVE LOAD
LLBB	LONG LEG BACK TO BACK
LLV	LONG LEG VERTICAL
LLH	LONG LGE HORIZONTAL
LSH	LONG SIDE HORIZONTAL
LSV	LONG SIDE VERTICAL
LONG	LONGITUDINAL
LO	LOW
LBS	POUNDS
MFR. / MNFR.	MANUFACTURER
MAS.	MASONRY
MAX.	MAXIMUM

MECH.	MECHANICAL
MEP	MECHANICAL, ELECTRICAL, PLUMBING
MTL.	METAL
MIN.	MINIMUM
MISC.	MISCELLANEOUS
M	MOMENT
M.C.	MOMENT CONNECTION
N.S.	NEAR SIDE
NWC	NORMAL WEIGHT CONCRETE
N.I.C.	NOT IN CONTRACT
N.T.S.	NOT TO SCALE
NO.	NUMBER
O.C.	ON CENTER(S)
OPNG.	OPENING
OPP.	OPPOSITE
OPH.	OPPOSITE HAND
OD	OUTSIDE DIAMETER
O.F.	OUTSIDE FACE
OA	OVERALL
O.H.	OVERHEAD
OVS.	OVERSIZED HOLE
P	AXIAL LOAD
P.J.	PANEL JOINT
PAR.	PARALLEL
PRKG.	PARKING
PJP	PARTIAL JOINT PENETRATION
PVMT	PAVEMENT
PVG	PAVING
PERP.	PERPENDICULAR
PL.	PLATE
PLBG	PLUMBING
PT	POST-TENSION(ED)
PCF	POUNDS PER CUBIC FOOT/FEET
PLF	POUNDS PER LINEAR FOOT
PSF	POUNDS PER SQUARE FOOT/FEET
PSI	POUNDS PER SQUARE INCH
P/C	PRECAST CONCRETE
PRELIM.	PRELIMINARY
P.L.	PROPERTY LINE
QTY	QUANTITY
R	RADIUS, REACTION, REMAINDER
REC.	RECESSED
RE:	REFER TO
REF.	REFERENCE
REINF.	REINFORCED / REINFORCING
REBAR	REINFORCING BAR
REQ'D	REQUIRED
REV.	REVISION
R.D.	ROOF DRAIN
RTU	ROOF TOP UNIT
SCHED.	SCHEDULE
SECT.	SECTION
SHT.	SHEET
SLBB	SHORT LEG BACK TO BACK
SIM.	SIMILAR
SC	SLIP CRITICAL, SHEAR CONNECTOR
SPA.	SPACING
SPEC.	SPECIFICATION
SQ.	SQUARE
SF	SQUARE FOOT/FEET
STD	STANDARD
STL	STEEL
STIFF.	STIFFENER
STIR.	STIRRUP
STRUCT.	STRUCTURE/STRUCTURAL
TEMP.	TEMPERED
THK	THICK(NESS)
t	THICKNESS, TREAD
THD	THREADED
T.O.	TOP OF
T.O.C.	TOP OF CONCRETE
T.O.M.	TOP OF MASONRY
T.O.P.	TOP OF PARAPET
T.O.S.	TOP OF STEEL
T.O.W.	TOP OF WALL
TYP.	TYPICAL
U.N.O.	UNLESS NOTED OTHERWISE
V.I.F.	VERIFY IN FIELD
VERT. OR (V)	VERTICAL
WT.	WEIGHT
WWR	WELD WIRE REINF.
WF	WIDE FLANGE
W	WIDTH
WL	WIND LOAD
W.P.	WORK POINT
XXS	DOUBLE EXTRA STRONG
XS	EXTRA STRONG
&	AND
≈	APPROXIMATELY EQUAL
@	AT
"	DEGREE
=	EQUAL
≥	GREATER THAN or EQUAL
≤	LESS THAN or EQUAL
#	NUMBER or POUNDS
/	PER
±	PLUS or MINUS
Ø	ROUND/DIAMETER

SYMBOLS LEGEND

SYMBOLS	DESCRIPTION
N	NORTH ARROW
XX S-X.XX	ENLARGE FLOOR PLAN REFERENCE OR ENLARGE DETAIL REFERENCE
XX S-X.XX	DETAIL SECTION (STRUCTURAL)
XX/SX.XX	BRACING ELEVATION
11 5/8" 5"	DIMENSIONS
XX/S-X.XX XX/S-X.XX	MATCHLINE
1	REVISION NUMBER & AFFECTED AREA
LEVEL NAME 0' - 0"	VERTICAL ELEVATION
EX. 152' - 6"	EXISTING ELEVATION
152' - 6"	NEW ELEVATION
	M.C. OR MOMENT CONNECTION
	DEPRESSION
	PANEL WALL TAG
12/36	BELL DIAMETER (IN) BELLED PIER SHAFT DIAMETER (IN)
P1	PILE SHAFT
F3	FOOTING

STRUCTURAL SHEET INDEX

SHEET NUMBER	SHEET NAME	Current Revision
S-101	GENERAL NOTES	6
S-102	CONT. GENERAL NOTES	6
S-201	FOUNDATION PLAN	6
S-202	MEZZANINE FLOOR FRAMING PLAN	6
S-301	TYPICAL FOUNDATION DETAILS	6
S-302	TYPICAL FOUNDATION DETAILS	6
S-303	TYPICAL FOUNDATION DETAILS	6
S-304	TYPICAL FOUNDATION DETAILS	6
S-401	TYPICAL FRAMING DETAILS	6
S-501	TYPICAL LIGHT GAUGE FRAMING DETAILS	6
S-502	TYPICAL LIGHT GAUGE FRAMING DETAILS	6
S-503	TYPICAL LIGHT GAUGE FRAMING DETAILS	6
S-601	PUMP HOUSE FOUNDATION AND ROOF FRAMING PLAN	6
S-701	TANK FOUNDATION DETAILS	6

Grand total: 14

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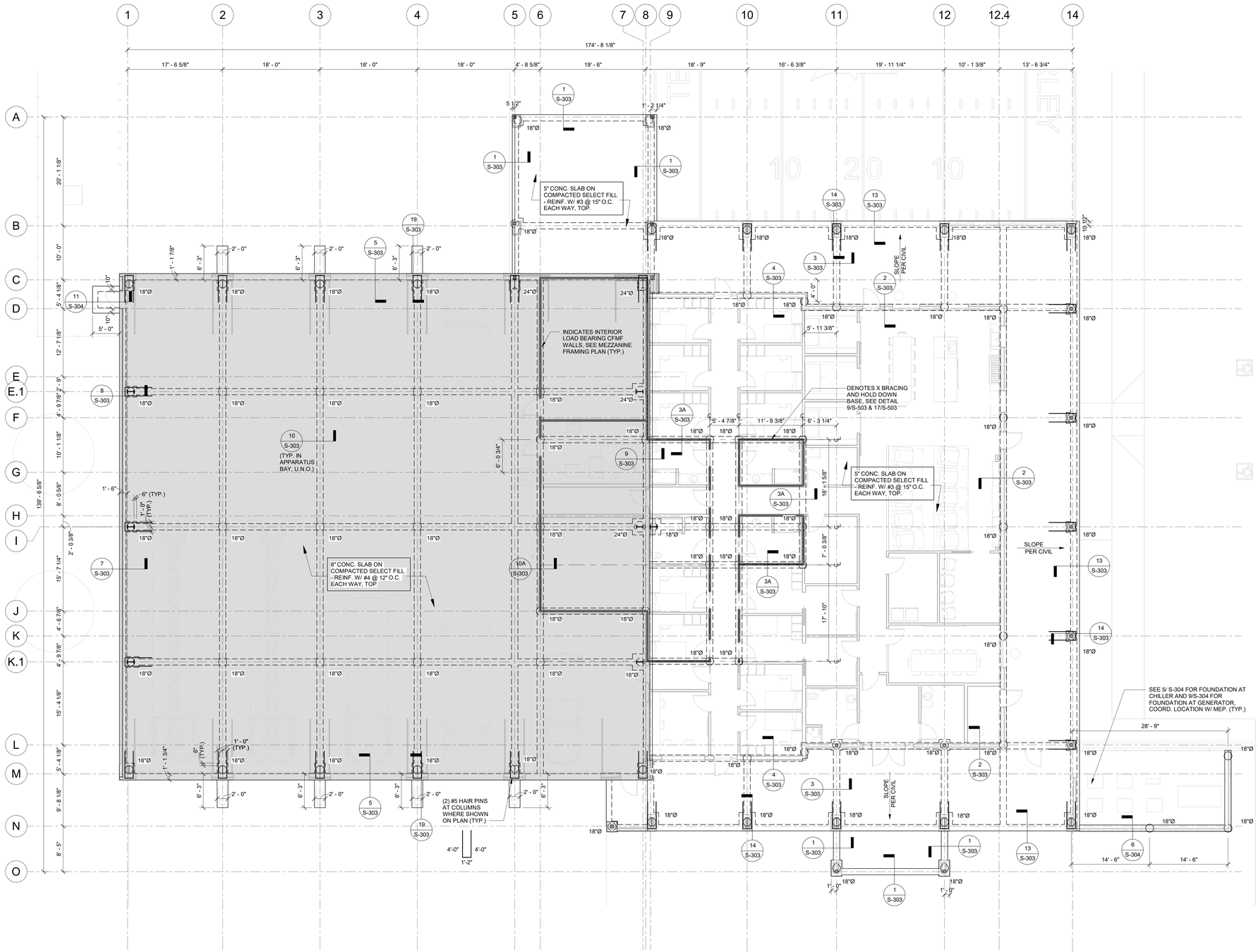
PROJECT No: **MA 25016**
DATE: **01-JUN-2026**

ISSUE

#		
1	100% DD	01/06/2026
2	25% CD	02/25/2026
3	75% CD	04/06/2026
4	98% CD	05/04/2026
5	IFP	06/01/2026
6	IFB	10/20/2026

CONT. GENERAL NOTES

S-102



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

PEMB FOUNDATION PLAN NOTES:

1. ALL PIERS ARE CENTERED UNDER COLUMN CENTERLINES, U.N.O.
2. PIERS UNDER GRADE BEAM (WITHOUT COLUMNS) SHALL BE CENTERED UNDER GRADE BEAMS, U.N.O.
3. ALL PIERS ARE 18" DIA STRAIGHT SHAFTS TYP. U.N.O.
4. SEE 17/S-302 FOR ADDN'L INFORMATION FOR PIER REINFORCEMENT AND MINIMUM EMBEDMENT OF SHAFT INTO LIMESTONE IN STRATUM 3.
5. SEE ARCHITECTURAL DRAWINGS FOR EXACT LOCATION OF ALL FLOOR SLOPES, DEPRESSIONS, ETC.
6. COORDINATE ALL BRICK LEDGES AND DEPTH WITH ARCHITECTURAL DRAWINGS.
7. LOCATIONS NOTED THUS: 0' - 0" INDICATES TOP OF SLAB ELEVATION.
8. SEE PEMB FOR BASE PLATE INFORMATION.
9. REFER TO PEMB FOR SIZE, LOCATION AND ORIENTATION OF ALL COLUMNS, ANCHOR BOLTS. NOTIFY ARCH. OF ANY DISCREPANCIES BETWEEN PLANS FOR RESOLUTION PRIOR TO FABRICATION AND INSTALLATION.
10. SEE S/S-301 & 7/S-301 FOR ADDITIONAL REBAR AT OPENINGS, DISCONTINUOUS JOINTS, AND RE-ENTRANT CORNERS IN SLAB-ON-GRADE.
11. PROVIDE CONTRACTION JOINTS AND DISCONTINUOUS SLAB REINFORCING AS SHOWN IN DETAIL 6/S-301.
12. REFER TO MEP FOR SLOPE - INVERT ELEVATION (I.E.) AT DRAINS.
13. TYPICAL SLOPE AT FLOOR IS 1/8" PER FOOT, U.N.O. ON ARCH.
14. PROVIDE (2)-#4X4'-0" TOP & BOT. AT ALL RE-ENTRANT CORNERS AT SLAB ON GRADE. TOP REINFORCING SHALL BE PLACED AT 1 1/4" CLEAR FROM THE TOP OF THE SLAB.
15. ——► WHERE SHOWN ON PLAN INDICATES SLOPE DIRECTION. SEE ARCH. FOR INFORMATION.
16. ALL COLUMN LOCATIONS SHOWN AND ASSOCIATED FOUNDATIONS ARE PLACEHOLDERS IN THE ABSENCE OF A COMPLETE METAL BUILDING DESIGN SUBMITTAL. SEE GENERAL NOTES FOR SUBMITTAL REQUIREMENTS.

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FOUNDATION PLAN

S-201



1 MEZZANINE FLOOR FRAMING PLAN

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

MEZZANINE FRAMING PLAN NOTES:

1. TOP OF CONCRETE ELEVATION = SEE PLAN
2. SPACE JOISTS EQUALLY U.N.O.
3. FIELD VERIFY ALL EXISTING CONDITIONS AND DIMENSIONS PRIOR TO FABRICATION / CONSTRUCTION.
4. ▬▬ INDICATES LOAD BEARING CFMF STUD WALL. ALL LOAD BEARING WALLS BELOW 600S162-43(33) @ 16" O.C., U.N.O.
5. ▒▒▒▒ INDICATES LOAD BEARING CFMF STUD WALL. ALL LOAD BEARING WALLS BELOW 600S162-54(50) @ 16" O.C., U.N.O.
6. FLOOR JOISTS SHALL ALIGNED OVER STUDS. MAXIMUM OFFSET TOLERANCE IS 3/4" FROM CENTER OF JOIST TO CENTER OF STUD.
7. HORIZONTAL BRIDGING IN LOAD BEARING WALLS SHALL BE AT 48"O.C. VERTICALLY. SEE DETAIL 7/S-501.
8. SOLID BLOCKING LINES SHALL OCCUR OVER INTERIOR LOAD BEARING WALLS. SEE DETAIL 16/S-501.
9. ALL LOAD BEARING HEADERS SHALL BE TYPE H1 U.N.O. JAMB SHALL BE TYPE J1 U.N.O. SEE SCHEDLUE ON 20/S-501.
10. FLOOR SHALL BE 2" NORMAL WEIGHT CONCRETE OVER THE FLUTES OF 9/16" x 22 GA TYPE C STEEL DECK AS MANUFACTURED BY VULCRAFT OR APPROVED EQUIVALENT TO TOTAL THICKNESS = 2 1/2". REINFORCE CONCRETE WITH W2.9X2.9 WIRE MESH @ 6" O.C. EACH WAY. PLACE WIRE (PARALLEL TO DECK) IN THE OUTSIDE LAYER. ATTACH DECK USING #10 SELF-DRIVING SCREWS:
    a. PERPENDICULAR BEARING : 36/4 PATTERN.
    b. PARALLEL BEARING AND EDGE : AT 12" O.C.
    c. SIDE SEAMS : SEAM WELDS AT 12" O.C.

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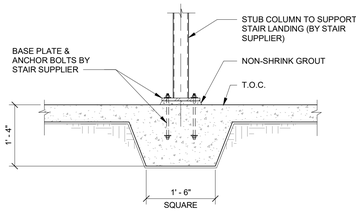
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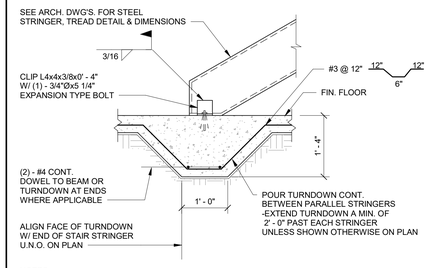
MEZZANINE FLOOR FRAMING PLAN

S-202



TYPICAL DETAIL
THICKENED SLAB BELOW
COLUMNS AT STAIR LANDING

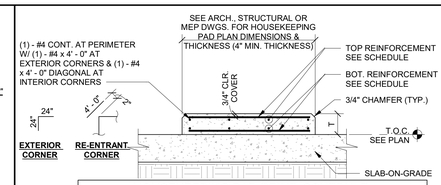
16 SCALE: 3/4" = 1'-0"



NOTES:
1. GENERAL CONTRACTOR IS RESPONSIBLE FOR THE COORDINATION OF STAIR STRINGER LOCATIONS WITH ARCHITECTURAL DRAWINGS & PROVIDE TURNDOWNS WHERE REQUIRED WHETHER SHOWN ON STRUCTURAL DRAWINGS OR NOT.
2. CLIP ANGLE TO BE HIDDEN BENEATH FIRST TREAD. WHERE OPEN RISERS ARE USED, COORDINATE THE LOCATION WITH THE ARCHITECT.

TYPICAL DETAIL
TURNDOWN AT STEEL STAIR
SLAB-ON-GRADE

12 SCALE: N.T.S.

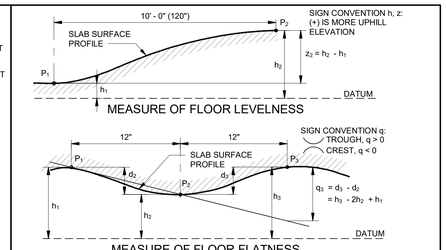


HOUSEKEEPING PAD REINF. SCHEDULE		
PAD THICKNESS	TOP REINFORCEMENT	BOTTOM REINF.
T ≤ 4"	WWR 4x4-W2.9xW2.9 OR #3 @12" E.W.	NONE
4" < T ≤ 6"	WWR 4x4-W4xW4 OR #4 @18" E.W.	NONE
6" < T ≤ 8"	WWR 4x4-W6xW6 OR #4 @12" E.W.	NONE
8" < T ≤ 12"	#4 @ 18" E.W.	#4 @ 18" E.W.
12" < T ≤ 16"	#4 @ 12" E.W.	#4 @ 12" E.W.

NOTES:
1. GENERAL CONTRACTOR TO COORDINATE WITH MECHANICAL DRAWINGS AND SPECIFICATIONS TO DETERMINE REQUIREMENTS FOR HOUSEKEEPING PADS OVER SLAB-ON-GRADE AND PROVIDE WHERE REQUIRED WHETHER SHOWN ON STRUCTURAL DRAWINGS OR NOT. COORDINATE DIMENSIONS AND OTHER SPECIAL REQUIREMENTS WITH EQUIPMENT MANUFACTURERS AS REQUIRED.
2. PAD SHALL NOT BE POURED UNTIL AFTER SLAB HAS REACHED ITS SPECIFIED 28 DAYS STRENGTH.
3. CONCRETE FOR HOUSEKEEPING PAD SHALL BE NORMAL WEIGHT CONCRETE WITH f'c = 3,000 PSI.

TYPICAL DETAIL
CONCRETE ISLAND OR HOUSEKEEPING PAD
SLAB-ON-GRADE

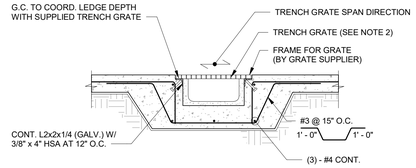
8 SCALE: N.T.S.



NOTES:
1. F_L = LEVELNESS F-NUMBER
   $F_L = \frac{12.5}{(3 \times S_Z) + \bar{z}}$ WHERE $\bar{z}$ = MEAN VALUE OF ALL z FLOOR READINGS.
   S_z = STANDARD DEVIATION OF ALL z FLOOR READINGS.
2. F_F = LEVELNESS F-NUMBER
   $F_F = \frac{4.57}{(3 \times S_Q) + \bar{q}}$ WHERE $\bar{q}$ = MEAN VALUE OF ALL z FLOOR READINGS.
   S_z = STANDARD DEVIATION OF ALL q FLOOR READINGS
3. F_L AND F_F SHALL BE STATISTICALLY DETERMINED ACCORDING TO ASTM E 1155 "STANDARD TEST METHOD FOR DETERMINING FLOOR FLATNESS AND LEVELNESS USING THE F-NUMBER SYSTEM."
4. REFER TO CONCRETE SPECIFICATIONS FOR REQUIRED F_F AND F_L VALUES.

TYPICAL DETAIL
SLAB SURFACE TOLERANCE

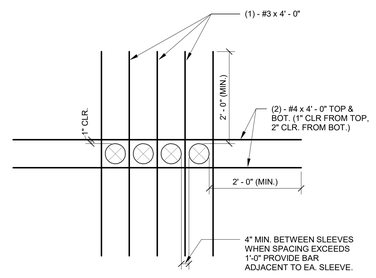
4 SCALE: N.T.S.



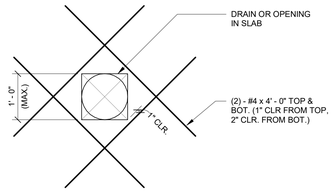
NOTES:
1. SEE ARCHITECT DRAWINGS FOR ACTUAL LOCATION AND TRENCH SIZE.
2. TRENCH GRATE OR TRENCH AND DRAIN ASSEMBLY SHALL BE DESIGNED TO SPAN TRENCH OPENING UNDER HEAVY DUTY TRAFFIC LOADS (H-25) AND SHALL BE GALVANIZED OR STAINLESS STEEL.

TYPICAL DETAIL
TRENCH DRAIN AT VEHICLE BAYS

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



MULTIPLE OPENINGS
(PIPE SLEEVES)

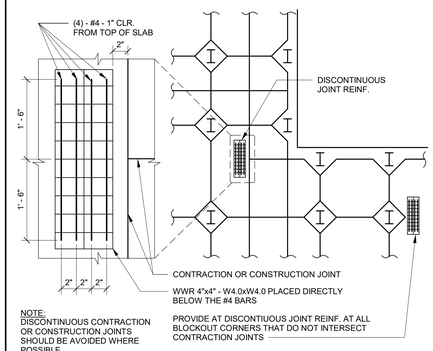


SINGLE DRAIN OR OPENING

NOTES:
1. COORDINATE OPENING SIZE AND LOCATIONS WITH ARCHITECTURAL AND MECHANICAL DRAWINGS.
2. CONDUIT & PIPES OF ALUMINUM SHALL NOT BE PLACED IN CONCRETE UNLESS EFFECTIVELY COATED W/ PROTECTIVE MATERIAL TO PREVENT CHEMICAL REACTION.

TYPICAL DETAIL
ADDITIONAL REINFORCEMENT AT
OPENINGS AT SLAB-ON-GRADE

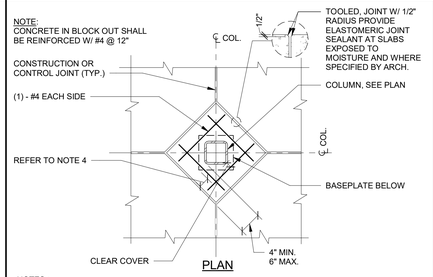
10 SCALE: N.T.S.



NOTE:
DISCONTINUOUS CONTRACTION OR CONSTRUCTION JOINTS SHOULD BE AVOIDED WHERE POSSIBLE.

TYPICAL DETAIL
ADDITIONAL REINFORCEMENT AT
DISCONTINUOUS JOINT IN SLAB-ON-GRADE

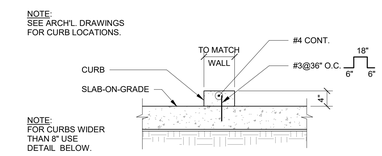
7 SCALE: N.T.S.



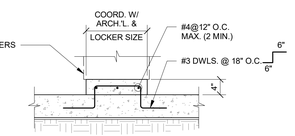
NOTES:
1. GENERAL CONTRACTOR TO COORDINATE REQUIRED SIZE OF BLOCK OUT FOR COLUMNS. SUBMIT THE DESIRED BLOCK OUT SIZE TO ARCHITECT FOR APPROVAL.
2. PROVIDE 3" MINIMUM CONCRETE COVER ALL AROUND COLUMN.
3. BLOCKOUT SHALL BE SIZED TO PROVIDE 3" MINIMUM CONCRETE COVER ALL AROUND COLUMN AND BASE PLATE.
4. GENERAL CONTRACTOR TO INCREASE COLUMN BLOCK-OUT DIMENSIONS AS REQUIRED TO ACCOMMODATE GUSSET PLATES AT BRACE FRAMES.

TYPICAL DETAIL
BLOCK-OUT AROUND COLUMN
(SLAB-ON-GRADE)

3 SCALE: N.T.S.



CURB AT MECHANICAL ROOMS

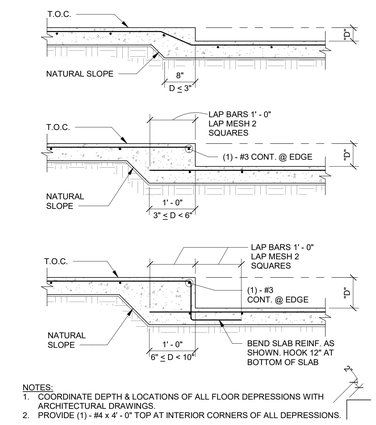


NOTE:
COORDINATE CURB SIZES AND LOCATIONS W/ ARCH'L.

CURB AT LOCKERS

TYPICAL DETAIL
CURB AT MECH. ROOMS AND LOCKERS

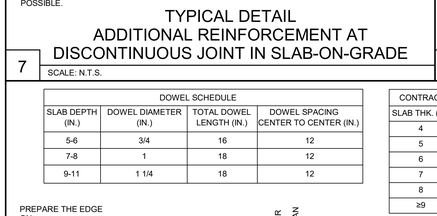
14 SCALE: N.T.S.



NOTES:
1. COORDINATE DEPTH & LOCATIONS OF ALL FLOOR DEPRESSIONS WITH ARCHITECTURAL DRAWINGS.
2. PROVIDE (1) - #4 x 4' - 0" TOP AT INTERIOR CORNERS OF ALL DEPRESSIONS.

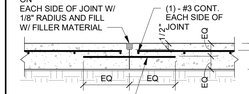
TYPICAL DETAIL
AT FLOOR DEPRESSIONS

9 SCALE: N.T.S.

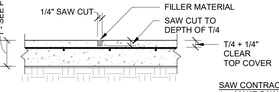


DOWEL SCHEDULE			
SLAB DEPTH (IN.)	DOWEL DIAMETER (IN.)	TOTAL DOWEL LENGTH (IN.)	DOWEL SPACING CENTER TO CENTER (IN.)
5-6	3/4	16	12
7-8	1	18	12
9-11	1 1/4	18	12

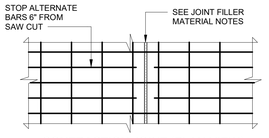
CONTRACTION JOINT SPACING	
SLAB THK. (IN.)	JOINT SPACING (FT.)
4	11
5	13
6	14
7	16
8	17
≥9	18



CONSTRUCTION JOINT



CONTRACTION JOINT



CONTRACTION JOINT (PLAN VIEW)

CONSTRUCTION JOINT NOTES:
1. SLAB REINFORCEMENT SHALL BE CHAIRED BY SOIL SUPPORTED SLAB BOLSTERS.
2. BREAK BOND BETWEEN NEW AND PREVIOUSLY PLACED SLAB BY SPRAYING OR PAINTING EXPOSED SIDE WITH FORM OIL.
3. SUBGRADE SHALL BE FREE OF STANDING WATER AT THE TIME OF CONCRETE PLACEMENT.
4. ALL DOWELS IN THIS DETAIL SHALL BE SMOOTH BAR DOWELS.

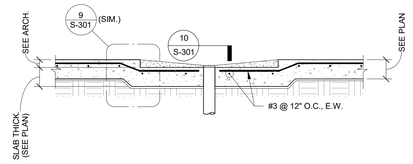
JOINT SPACING NOTE:
1. PROVIDE CONTRACTION AND/OR CONSTRUCTION JOINTS AT EVERY COLUMN CENTERLINE AND AT A MAXIMUM SPACING AS SCHEDULED. ASPECT RATIOS OF SLAB PANELS ENCLOSED BY CONTROL JOINTS SHALL NOT EXCEED 1.5 TO 1.

SAW CONTRACTION JOINT NOTES:
1. MAKE SAW CUT AS SOON AS SLAB IS ABLE TO SUPPORT WEIGHT OF WORKERS AND SAWING EQUIPMENT WITHOUT DAMAGE TO FINISH SURFACE OF SLAB.
2. ALL JOINTS SHALL BE CONTINUOUS. DO NOT OFFSET OR STAGGER JOINTS.
3. CLEAN JOINT PRIOR TO FILLING THE JOINT.

JOINT FILLER MATERIAL NOTES:
1. FILLER MATERIAL USED SHALL BE EPOXY RESINS WITH A MINIMUM SHORE "A" HARDNESS OF 80 AND SHALL CONFORM TO ASTM D2240. JOINT FILLER SHALL BE APPROVED BY ENGINEER PRIOR TO APPLICATION. INSTALL JOINT FILLER PER MANUFACTURER'S SPECIFICATIONS.
2. WHERE POSSIBLE, FILLER MATERIAL SHALL BE APPLIED WHEN BUILDING IS UNDER PERMANENT TEMPERATURE CONTROL. THIS SHALL BE EITHER AT THE END OF CONSTRUCTION OF THE COMPLETE BUILDING SHELL, OR A MINIMUM OF 90 DAYS AFTER SLAB CONSTRUCTION.
3. ALL EXPOSED SLAB JOINTS SHALL BE FILLED WITH FILLER MATERIAL.

TYPICAL DETAIL
CONSTRUCTION AND CONTRACTION JOINTS SLAB-ON-GRADE

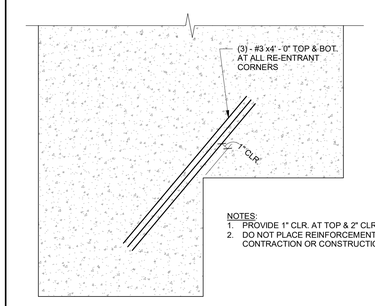
6 SCALE: N.T.S.



NOTE:
SEE ARCH. FOR LOCATIONS AND EXTENTS.

TYPICAL DETAIL
SHOWER SLAB DEPRESSION

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

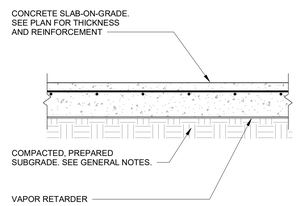


NOTES:
1. PROVIDE 1" CLR. AT TOP & 2" CLR. AT BOT.
2. DO NOT PLACE REINFORCEMENT ACROSS CONTRACTION OR CONSTRUCTION JOINTS.

SCHEMATIC SLAB-ON-GRADE

TYPICAL DETAIL
RE-ENTRANT CORNER BARS AT
SLAB-ON-GRADE

5 SCALE: N.T.S.



NOTE:
1. UNLESS SPECIFIED ELSEWHERE, VAPOR RETARDER SHALL BE A MINIMUM OF 15 MILS THICK (UNLESS THICKER SPECIFIED IN SPECS/ARCH. DRAWINGS) MEETING OR EXCEEDING ASTM E-1745, CLASS C, AND HAVE NO MORE THAN 0.01 PERMS WHEN TESTED IN ACCORDANCE WITH ASTM E-96.

TYPICAL DETAIL
SLAB-ON-GRADE CONSTRUCTION
SUBGRADE PREPARATION

1 SCALE: N.T.S.

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Structural
Matrix Structural
MEP
Emerald MEP
Technology
Imagine IT
Alerting
WestNET

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Hays County ESD #4
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Wimberley, TX 78676

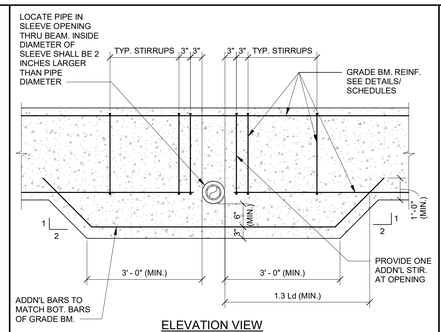
PROJECT No: MA 25016
DATE: 01-JUN-2026

ISSUE

#		
1	100% DD	01/06/2026
2	25% CD	02/25/2026
3	75% CD	04/06/2026
4	98% CD	05/04/2026
5	IFP	06/01/2026
6	IFB	10/20/2026

TYPICAL FOUNDATION DETAILS

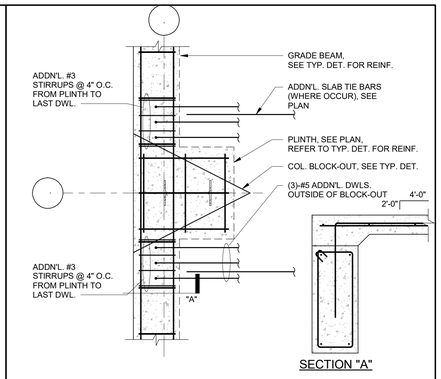
S-301



ELEVATION VIEW

TYPICAL DETAIL OPENING THRU GRADE BEAM THAT CONFLICTS WITH BOTTOM REINFORCEMENT

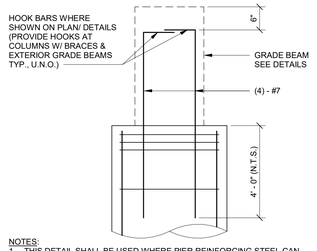
8 SCALE: N.T.S.



SECTION "A"

TYPICAL DETAIL ADDITIONAL REINFORCING AT PERIMETER COLUMNS

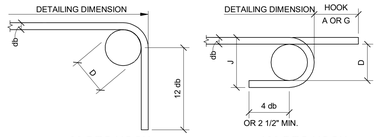
4 SCALE: 3/4" = 1'-0"



NOTES:
1. THIS DETAIL SHALL BE USED WHERE PIER REINFORCING STEEL CAN NOT BE ACCOMMODATED WITHIN WIDTH OF GRADE BEAMS.
2. SEE TYPICAL DRILLED PIER DETAIL FOR ADDITIONAL INFORMATION.

TYPICAL DETAIL SHAFT SIZE LARGER THAN GRADE BEAM WIDTH

19 SCALE: N.T.S.



90 DEG HOOK 180 DEG HOOK

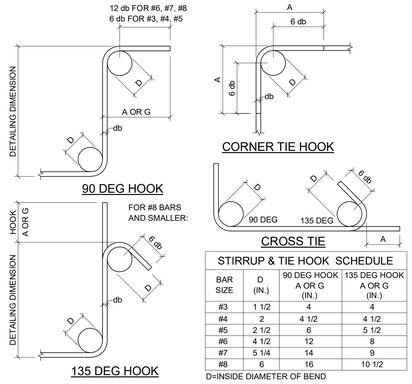
RECOMMENDED END HOOKS, ALL GRADES

BAR SIZE	FINISHED BEND DIAMETER D, (IN.)	180 DEG HOOKS		90 DEG HOOKS
		A OR G, (IN.)	J, (IN.)	A OR G, (IN.)
#3	2 1/4	5	3	6
#4	3	6	4	8
#5	3 3/4	7	5	10
#6	4 1/2	8	6	12
#7	5 1/4	10	7	14
#8	6	11	8	16
#9	9 1/2	15	11 3/4	19
#10	10 3/4	17	13 1/4	22
#11	12	19	14 3/4	24
#14	18 1/4	27	21 3/4	31
#18	24	36	28 1/2	41

D = INSIDE DIAMETER OF BEND

END HOOK TYPES

15 SCALE: N.T.S.



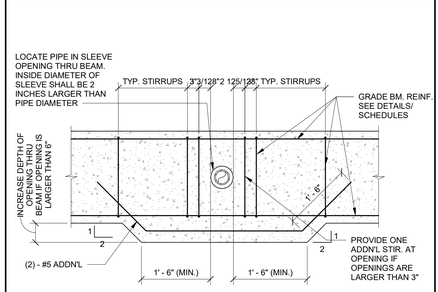
STIRRUP & TIE HOOK SCHEDULE

BAR SIZE	D (IN.)	90 DEG HOOK A OR G (IN.)	135 DEG HOOK A OR G (IN.)
#3	1 1/2	4	4
#4	2	4 1/2	4 1/2
#5	2 1/2	6	5 1/2
#6	4 1/2	12	8
#7	5 1/4	14	9
#8	6	16	10 1/2

D=INSIDE DIAMETER OF BEND

STIRRUP AND TIE HOOK TYPES

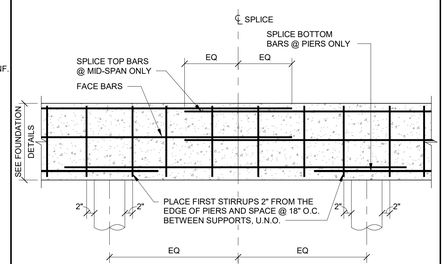
11 SCALE: N.T.S.



ELEVATION OF GRADE BEAM

TYPICAL DETAIL OPENING THRU GRADE BEAM

7 SCALE: N.T.S.



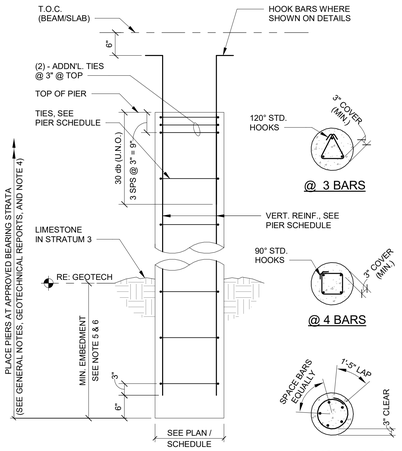
NOTES:
1. SLAB STEEL NOT SHOWN FOR CLARITY.
2. SEE TYPICAL DETAIL "TENSION DEVELOPMENT AND SPLICE LENGTH" FOR SPLICE DIMENSION.

TYPICAL DETAIL BEAM REINFORCING SPLICE DETAIL

3 SCALE:N.T.S.

PIER SCHEDULE			
SHAFT DIA.	MIN. DEPTH OF EMBEDMENT INTO LIMESTONE IN STRATUM 3	VERT. REINF.	TIES
18" DIA.	7'-0"	(4) - #6	#3 @ 12"
24" DIA.	7'-0"	(6) - #6	#3 @ 12"

NOTES:
1. ALL PIER SIZES SHOWN MAY NOT BE USED ON THIS PROJECT.
2. PIERS SHALL BEAR ON PALE BROWN TO TAN GLEN ROSE FORMATION LIMESTONE IN STRATUM 3 THAT WILL PROVIDE ALLOWABLE END BEARING PRESSURE AND FRICTIONAL RESISTANCE AS NOTED IN GENERAL NOTES.
3. GEOTECH ENGINEER SHALL APPROVE BEARING ELEVATIONS OF ALL PIERS. SEE GENERAL NOTES FOR ADDITIONAL INFORMATION.
4. MINIMUM PIER DEPTH = 7 FT BELOW BOTTOM OF GRADE BEAM INCLUDING MINIMUM EMBEDMENT INTO STRATUM 3
5. MINIMUM EMBEDMENT INTO BEARING STRATUM = 7' OR 2 x SHAFT DIA (WHICHEVER IS GREATER)
6. IF CLAY LAYER OR VOIDS ARE ENCOUNTERED IN LIMESTONE DURING DRILLING, PIERS SHALL BE EXTENDED FURTHER INTO THE LIMESTONE THAT IS CONSISTENT WITH THE DEPTH OF VOID DETECTED (I.E. ADDITIONAL EMBEDMENT DEPTH = DEPTH OF VOID).



TYPICAL FOOTING (STRAIGHT SHAFT)

17 SCALE: N.T.S.

DEVELOPMENT LENGTHS OF STANDARD HOOKS IN TENSION GRADE 60 (UNCOATED) REINFORCEMENT (NORMAL WEIGHT CONCRETE)

BAR SIZE	F'c = 3000		F'c = 4000		F'c = 5000		F'c = 6000		F'c = 7000		F'c = 8000		F'c = 9000		F'c = 10000	
	Lhb	0.7Lhb	Lhb	0.7Lhb	Lhb	0.7Lhb	Lhb	0.7Lhb	Lhb	0.7Lhb	Lhb	0.7Lhb	Lhb	0.7Lhb	Lhb	0.7Lhb
#3	9	6	8	6	7	6	6	6	6	6	6	6	6	6	6	6
#4	11	8	10	7	9	6	8	6	8	6	7	6	7	6	6	6
#5	14	10	12	9	11	8	10	7	9	7	9	6	8	6	8	6
#6	17	12	15	10	13	9	12	9	11	8	11	8	10	7	9	7
#7	20	14	17	12	15	11	14	10	13	9	12	9	12	8	11	8
#8	22	16	19	14	17	12	16	11	15	11	14	10	13	9	12	9
#9	25	18	22	15	20	14	18	13	17	12	16	11	15	10	14	10
#10	28	20	25	17	22	16	20	14	19	13	18	12	17	12	16	11
#11	31	22	27	19	24	17	22	16	21	15	19	14	18	13	17	12



NOTES:
1. ALL LENGTHS SHOWN IN THE TABLE ARE IN INCHES.
2. Lhb = TENSION DEVELOPMENT LENGTH.
3. Ldh = Lhb, UNLESS CONDITIONS OF ITEM 4 ARE SATISFIED.
4. Ldh = 0.7 Lhb, WHEN SIDE COVER NORMAL TO PLANE OF HOOK IS NOT LESS THAN 2 1/2 INCHES AND FOR 90° HOOK, COVER ON BAR EXTENSION BEYOND HOOK SHALL NOT BE LESS THAN 2 INCHES.
5. HOOKS SHALL NOT BE CONSIDERED EFFECTIVE IN DEVELOPING BARS IN COMPRESSION.

TYPICAL DETAIL DEVELOPMENT LENGTH OF STANDARD HOOKS IN TENSION (NORMAL WEIGHT CONCRETE)

14 SCALE: N.T.S.

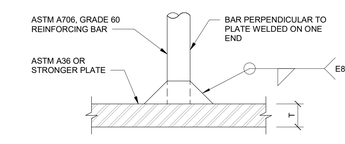
TENSION DEVELOPMENT LENGTHS AND TENSION LAP SPLICE LENGTHS GRADE 60 (UNCOATED) REINFORCEMENT (NORMAL WEIGHT CONCRETE)

BAR SIZE	F'c = 3000		F'c = 4000		F'c = 5000		F'c = 6000		F'c = 7000		F'c = 8000		F'c = 9000		F'c = 10000	
	CLASS A 1.0Ld	CLASS B 1.3Ld	CLASS A 1.0Ld	CLASS B 1.3Ld	CLASS A 1.0Ld	CLASS B 1.3Ld	CLASS A 1.0Ld	CLASS B 1.3Ld	CLASS A 1.0Ld	CLASS B 1.3Ld	CLASS A 1.0Ld	CLASS B 1.3Ld	CLASS A 1.0Ld	CLASS B 1.3Ld	CLASS A 1.0Ld	CLASS B 1.3Ld
#3	17	22	15	19	13	17	12	16	12	16	12	16	12	16	12	16
#4	22	29	19	25	17	23	16	21	15	19	14	18	13	17	12	16
#5	28	36	24	31	22	28	20	26	18	24	17	22	16	21	15	20
#6	33	43	29	37	26	34	24	31	22	28	21	27	19	25	18	24
#7	48	63	42	54	38	49	34	45	32	41	30	39	28	36	27	35
#8	55	72	48	62	43	56	39	51	36	47	34	44	32	42	30	39
#9	62	81	54	70	48	63	44	57	41	53	38	50	36	47	34	44
#10	70	91	61	79	54	71	50	64	46	60	43	56	41	53	39	50
#11	78	101	67	87	60	78	55	71	51	66	48	62	45	58	43	55

NOTES:
1. ALL LENGTHS SHOWN IN THE TABLE ARE IN INCHES.
2. Ld = TENSION DEVELOPMENT LENGTH.
3. THE ABOVE TABLE IS VALID FOR
   a. BEAMS AND COLUMNS WHERE CONCRETE COVER > = db, c/c BAR SPACING > = 2db AND WITH STIRRUPS OR TIES THROUGHOUT Ld NOT LESS THAN THE CODE MINIMUM.
   b. OTHER ELEMENTS SUCH AS SLABS, WALLS, ETC. WHERE CONCRETE COVER > = db, c/c BAR SPACING > = 3db.
4. FOR TOP BARS, MULTIPLY THE SPLICE LENGTHS BY 1.30. TOP BARS REQUIRE A MINIMUM OF 12" OF FRESH CONCRETE BELOW BAR.
5. WHEN BARS OF A DIFFERENT SIZE ARE LAP SPLICED IN TENSION, SPLICE LENGTH SHALL BE THE LARGER OF Ld OF THE LARGER BAR AND COMPRESSION LAP SPLICE LENGTH OF SMALLER BAR.
6. BARS SPLICED BY NON-CONTACT LAP SPLICES SHALL NOT BE SPACED TRANSVERSELY FARTHER APART THAN THE SMALLER OF ONE-FIFTH THE REQUIRED LAP SPLICE LENGTH AND 6

TYPICAL DETAIL TENSION DEVELOPMENT AND SPLICE LENGTHS (NORMAL WEIGHT CONCRETE)

13 SCALE: N.T.S.

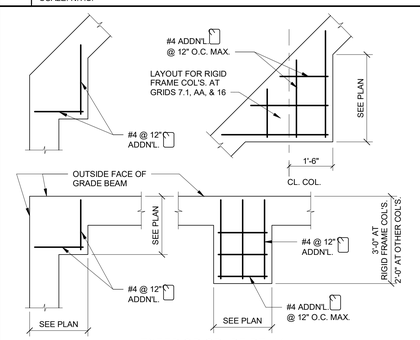


DEVELOPMENT OF WELDABLE REINFORCEMENT GRADE 60 REINFORCEMENT, E80 ELECTRODE

BAR SIZE	NOMINAL WELD SIZE (INCHES)	MINIMUM PLATE THICKNESS, T (INCHES)
#3	3/16	1/4
#4	1/4	1/4
#5	5/16	5/16
#6	5/16	7/16
#7	3/8	1/2
#8	7/16	9/16
#9	1/2	5/8
#10	9/16	11/16
#11	5/8	3/4

TYPICAL DEVELOPMENT OF WELDABLE REINFORCEMENT

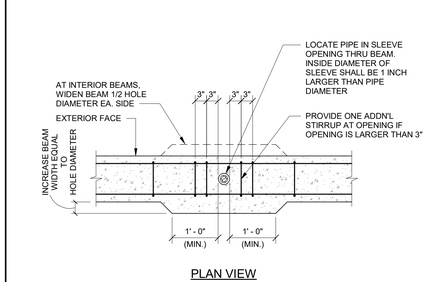
10 SCALE: N.T.S.



EXTERIOR GRADE BEAM

TYPICAL DETAIL ADDITIONAL BARS AT WIDENED GRADE BEAM (PLAN VIEW)

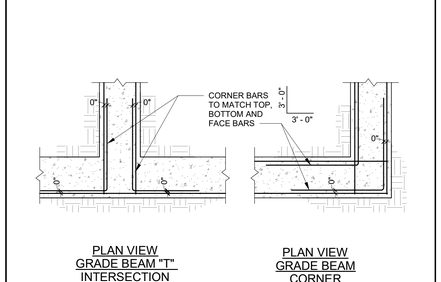
9 SCALE: N.T.S.



PLAN VIEW

TYPICAL DETAIL VERTICAL HOLE THRU GRADE BEAM LARGER THAN 3" DIAMETER

6 SCALE: N.T.S.



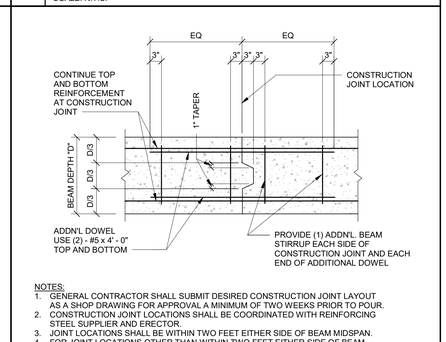
EXTERIOR GRADE BEAMS

INTERIOR GRADE BEAMS

NOTES:
1. PLAN VIEWS FOR TYPICAL WIDENED GRADE BEAMS ARE SHOWN. FOR SIMILAR CONDITION NOT SHOWN, PROVIDE ☐ ADDN'L. @ 12" O.C. MAX. IN WIDENED SECTION.
2. SEE DETAIL SHEETS FOR GRADE BEAM WIDTH.

TYPICAL DETAIL ADDITIONAL BARS AT WIDENED GRADE BEAM (PLAN VIEW)

5 SCALE: N.T.S.



NOTES:
1. GENERAL CONTRACTOR SHALL SUBMIT DESIRED CONSTRUCTION JOINT LAYOUT AS A SHOP DRAWING FOR APPROVAL A MINIMUM OF TWO WEEKS PRIOR TO POUR.
2. CONSTRUCTION JOINT LOCATIONS SHALL BE COORDINATED WITH REINFORCING STEEL SUPPLIER AND ERECTOR.
3. JOINT LOCATIONS SHALL BE WITHIN TWO FEET EITHER SIDE OF BEAM MIDSPAN.
4. FOR JOINT LOCATIONS OTHER THAN WITHIN TWO FEET EITHER SIDE OF BEAM MIDSPAN, CONTRACTOR SHALL COORDINATE REQUIRED ADDITIONAL REINFORCEMENT WITH THE ENGINEER ON THE SHOP DRAWINGS.

TYPICAL DETAIL GRADE BEAM CONSTRUCTION JOINT

1 SCALE: N.T.S.

PLAN VIEW GRADE BEAM "T" INTERSECTION

PLAN VIEW GRADE BEAM CORNER

TYPICAL DETAIL GRADE BEAM REINFORCEMENT STEEL CORNER BARS

2 SCALE: N.T.S.

PROFESSIONAL SEAL

Matrix Structural Engineers
TBPE Firm Registration No. F-2642

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Emerald MEP

Technology
Imagine IT

Alerting
WestNET

STATION #42

Hays County ESD #4

xxxxx
Wimberley, TX 78676

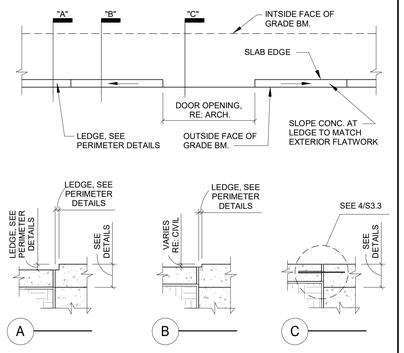
PROJECT No: **MA 25016**
DATE: **01-JUN-2026**

ISSUE

#		
1	100% DD	01/06/2026
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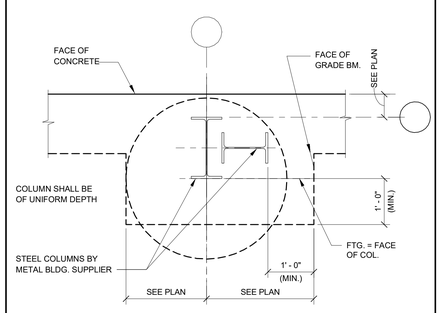
TYPICAL FOUNDATION DETAILS

S-302



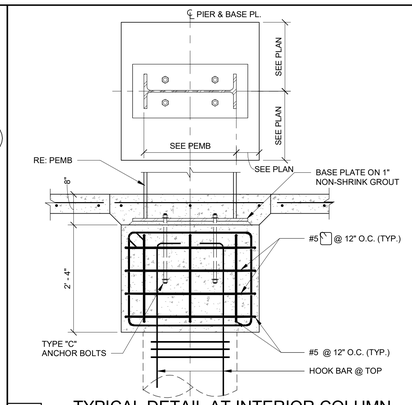
TYPICAL DETAIL
SLAB EDGE AT METAL PANEL AT DOORS

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



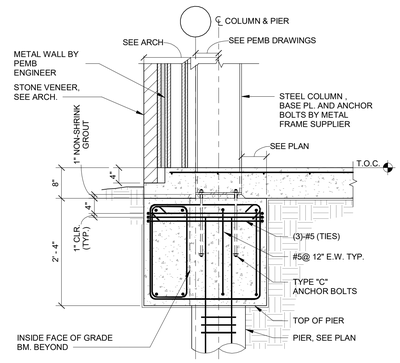
TYPICAL DETAIL
PLAN AT PORTAL FRAME

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



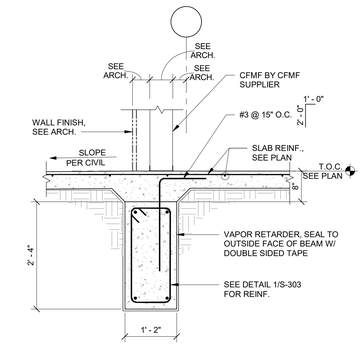
TYPICAL DETAIL AT INTERIOR COLUMN

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



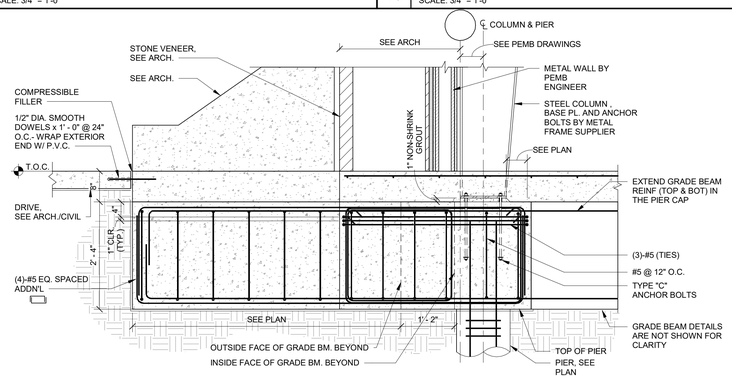
WIDENED GRADE BEAM DETAIL AT EXTERIOR BUILDING COLUMN WITH BRICK VENEER

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



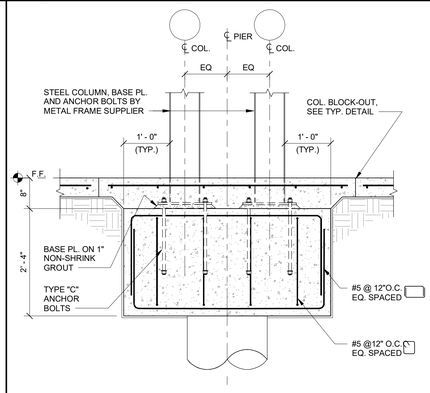
INTERIOR GRADE BEAM DETAIL WITH CFMF WALL

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



WIDENED GRADE BEAM DETAIL AT EXTERIOR PEMB COLUMN IN APPARATUS BAY

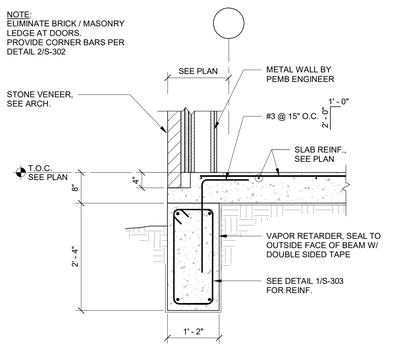
19 SCALE: 3/4" = 1'-0"



SHARED PIER CAP

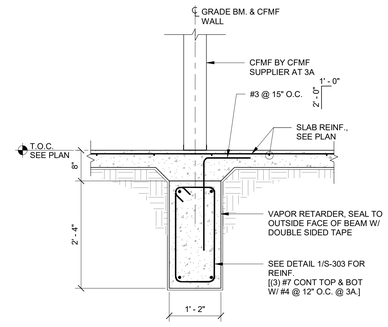
11 SCALE: 3/4" = 1'-0"

NOTE:
ELIMINATE BRICK / MASONRY LEDGE AT DOORS. PROVIDE CORNER BARS PER DETAIL 2/S-302



EXTERIOR GRADE BEAM DETAIL AT APPARATUS BAY WITH BRICK VENEER

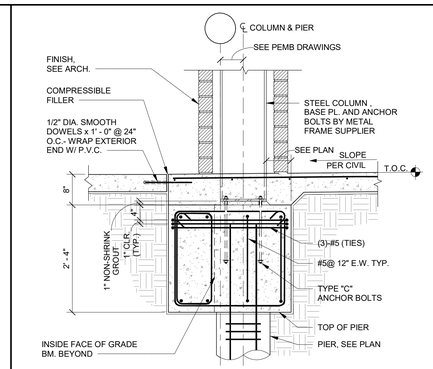
7 SCALE: 3/4" = 1'-0"



3A

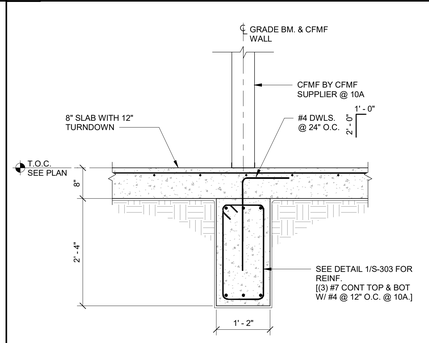
INTERIOR GRADE BEAM DETAIL

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



WIDENED GRADE BEAM DETAIL AT EXTERIOR BUILDING COLUMN WITH CMU WALL

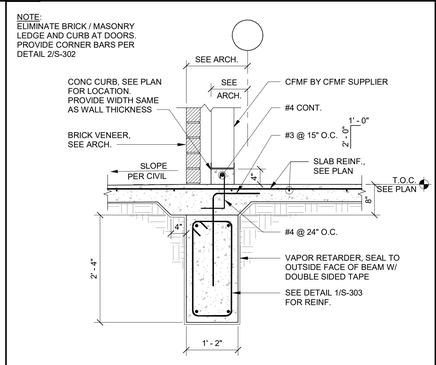
14 SCALE: 3/4" = 1'-0"



TYPICAL DETAIL
INTERIOR GRADE BEAM IN APARATUS BAY

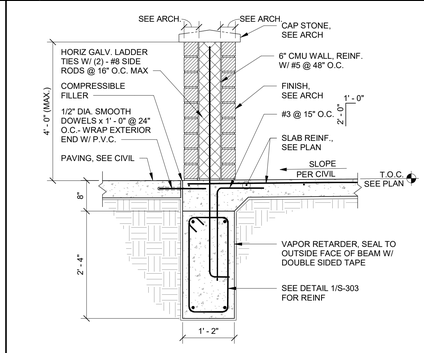
10A 10 SCALE: 3/4" = 1'-0"

NOTE:
ELIMINATE BRICK / MASONRY LEDGE AND CURB AT DOORS. PROVIDE CORNER BARS PER DETAIL 2/S-302



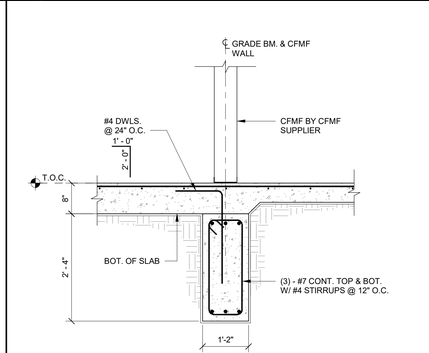
INTERIOR GRADE BEAM DETAIL WITH BRICK VENEER

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



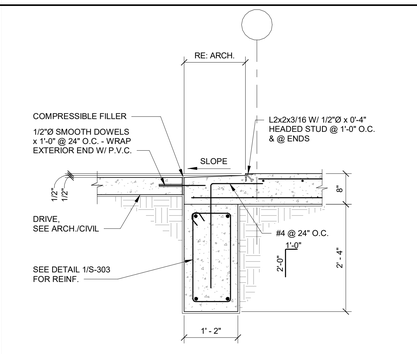
TYPICAL DETAIL
EXTERIOR GRADE BEAM WITH FREE STANDING CMU WALL

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



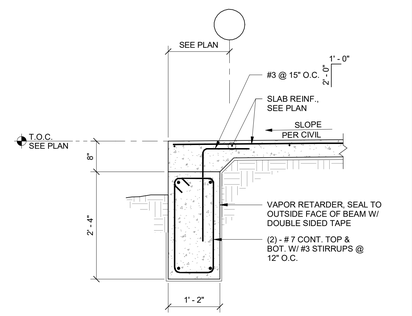
TYPICAL DETAIL
INTERIOR GRADE BEAM
AT SLAB TRANSITION

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



TYPICAL DETAIL
EXTERIOR GRADE BEAM AT
APPARATUS BAY

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



TYPICAL DETAIL
EXTERIOR GRADE BEAM

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

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Civil
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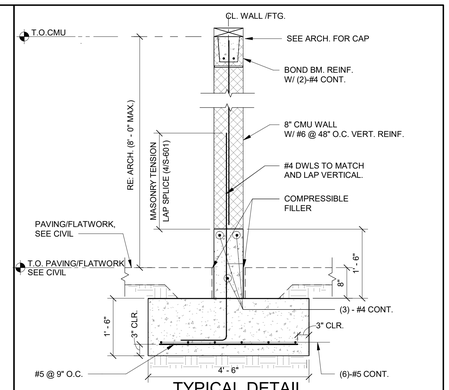
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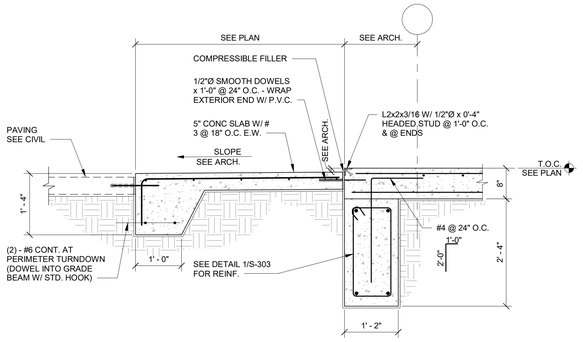
TYPICAL FOUNDATION DETAILS

S-303



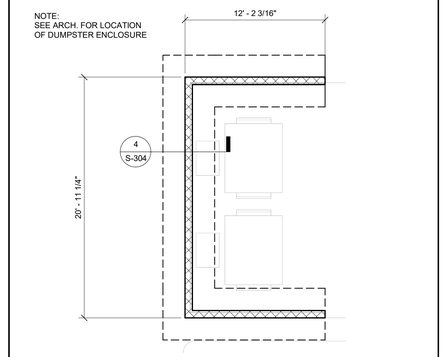
TYPICAL DETAIL
CMU AT FREESTANDING WALL

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



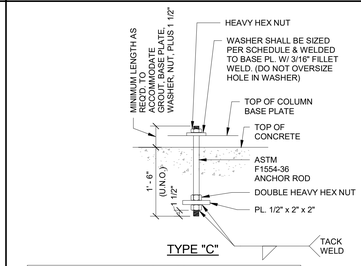
TYPICAL DETAIL
FOUNDATION AT STOOP

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



FOUNDATION PLAN - DUMPSTER

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



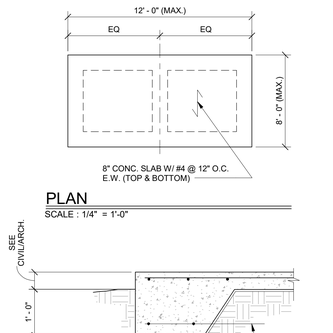
TYPE "C"

TYPE "B" WASHER SCHEDULE		
ANCHOR ROD DIA.	WASHER SIZE*	MIN. WASHER THICKNESS
3/4"	2"	1/4"
7/8"	2 1/2"	5/16"
1"	3"	3/8"
1 1/4"	3 1/2"	1/2"
1 1/2"	4"	1/2"
1 3/4"	4 1/2"	5/8"
2"	5"	3/4"
2 1/2"	5 1/2"	7/8"

*CIRCULAR OR SQUARE
WASHERS MEETING
WASHER SIZE ARE
ACCEPTABLE

TYPICAL DETAIL ANCHOR BOLT

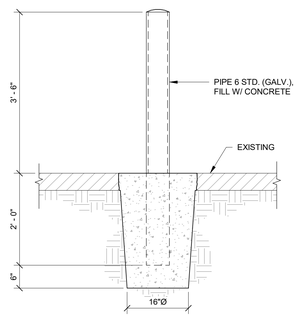
13 SCALE: N.T.S.



GENERATOR FOUNDATION

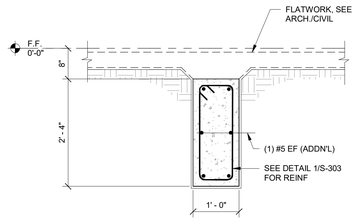
9 SCALE: N.T.S.

NOTES:
1. BOLLARD IS NOT DESIGNED AS A VEHICLE BARRIER, BUT RATHER IS INTENDED AS A TRAFFIC DIVERTER AND IS NOT DESIGNED FOR SIGNIFICANT IMPACT LOADS.



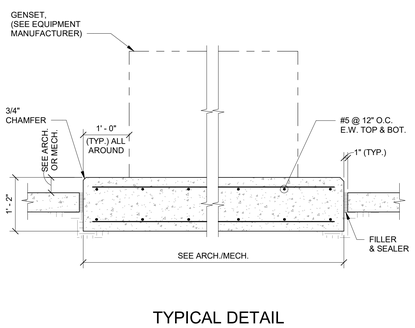
TYPICAL DETAIL
TRAFFIC DIVERTER BOLLARD

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



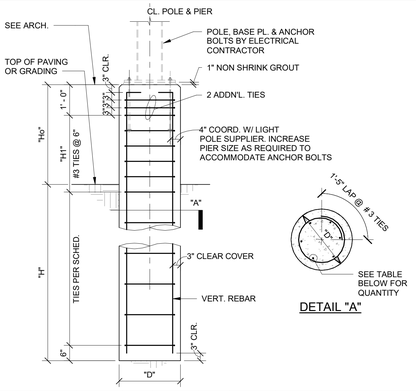
TYPICAL DETAIL
EXTERIOR GRADE BEAM
AT FLATWORK

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



TYPICAL DETAIL
CHILLER PAD

5 SCALE: N.T.S.



POLE MARK	NOM. POLE HEIGHT	ASSUMED EPA (sf)	"H" DEPTH OF PIER	"Ho" ABOVE GRADE	"H1"	"D" DIAMETER OF PIER	VERTICAL REINF	TIES	REMARKS
LP1	15' - 0"	5.0	5' - 0"	RE: ARCH.	1' - 6"	24"	6 - #6	#3 @ 12"	TYPICAL PARKING
LP2	25' - 0"	10.0	8' - 0"	RE: ARCH.	1' - 6"	24"	6 - #6	#3 @ 12"	TYPICAL PARKING
LP3	35' - 0"	10.0	10' - 0"	RE: ARCH.	1' - 6"	24"	6 - #7	#3 @ 12"	
LP4	40' - 0"	25.0	12' - 0"	9"	2' - 0"	24"	6 - #8	#3 @ 12"	TENNIS
LP5	50' - 0"	30.0	14' - 0"	9"	2' - 0"	30"	8 - #9	#3 @ 12"	
LP6	60' - 0"	40.0	16' - 0"	9"	2' - 6"	36"	10 - #9	#3 @ 12"	
LP7	70' - 0"	40.0	18' - 0"	9"	3' - 0"	36"	12 - #9	#3 @ 18"	SOFTBALL
LP8	80' - 0"	60.0	20' - 0"	9"	4' - 0"	42"	15 - #9	#3 @ 18"	BASEBALL
LP9	90' - 0"	80.0	22' - 0"	9"	5' - 0"	48"	17 - #9	#3 @ 18"	BASEBALL

NOTES:
1. WIND LOAD CRITERIA IS PER IBC 2018. Vult = 120 MPH.
2. CONCRETE COMPRESSIVE STRENGTH, F'C = 3,000 PSI (NWC), WITH A MAX WATER/CEMENT RATIO OF 0.54.
3. STEEL REINFORCEMENT SHALL BE ASTM A615, GR. 60.
4. REFER TO ARCH DRAWINGS/CIVIL DRAWINGS FOR LOCATIONS OF LIGHT POLES.
5. REFER TO ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION (AND SPECIFICATIONS FOR LIGHT STANDARDS).
6. VERIFY PROJECTION OF CONCRETE ABOVE GROUND WITH ARCHITECT.
7. EPA INDICATES MAXIMUM EXPOSED PROJECTED AREA AT THE TOP OF THE POLE IN ANY DIRECTION.
8. FOR A STATED POLE HEIGHT SHOWN ON THE TABLE, THE DEPTH OF PIER IS DEEMED ADEQUATE IF EPA IS LESS THAN SHOWN ON TABLE ABOVE.
9. THE PRESENCE OF SAND SEAMS AND SLICKENSIDES IN THE LAYERS MAY CAUSE SLOUGHING DURING PIER EXCAVATION. THIS MAY REQUIRE THE USE OF TEMPORARY STEEL CASING.
10. CONCRETE SHALL BE POURED IMMEDIATELY AFTER EXCAVATION.

TYPICAL DETAIL
LIGHT POLE FOUNDATION

1 SCALE: N.T.S.

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Wimberley, TX 78676

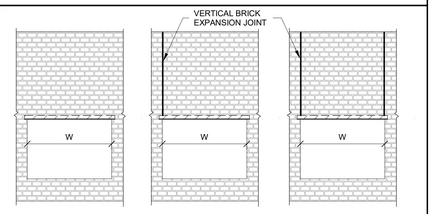
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TYPICAL FOUNDATION DETAILS

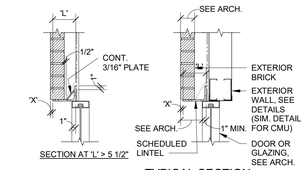
S-304



NO JOINTS | JOINT ON ONE SIDE | JOINT ON BOTH SIDES

MINIMUM ANGLE SIZE

CLEAR OPENING	EXPANSION JOINT AT RUNNING BOND			
	NONE	ONE SIDE	BOTH SIDES	STACK BOND
≤6'-0"	L3 1/2 x 'L' x 5/16	L5 x 'L' x 1/4	L5 x 'L' x 5/16	L7 x 'L' x 3/8
6'-8"	L4 x 'L' x 5/16	L5 x 'L' x 5/16	L6 x 'L' x 5/16	L7 x 'L' x 3/8
7'-4"	L5 x 'L' x 1/4	L6 x 'L' x 5/16	L6 x 'L' x 3/8	L8 x 'L' x 7/16
8'-0"	L6 x 'L' x 5/16	L6 x 'L' x 3/8	L7 x 'L' x 3/8	L8 x 'L' x 7/16
10'-0"	L7 x 'L' x 3/8	L8 x 'L' x 7/16	L8 x 'L' x 7/16	NA



SECTION AT 'L' > 5 1/2"

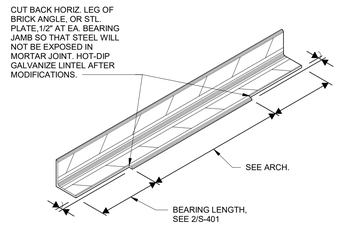
TYPICAL SECTION

NOTES:
1. SEE ARCHITECTURAL DRAWINGS FOR SIZE AND LOCATION OF OPENINGS.
2. PROVIDE 1" OF BEARING AT EACH JAMB FOR EACH FOOT OF CLEAR SPAN BUT NOT LESS THAN 6".
3. WHERE MINIMUM BEARING CANNOT BE ACHIEVED, PROVIDE ADEQUATE CONNECTION TO ADJACENT STRUCTURAL MEMBERS OR PROVIDE SEPARATE VERTICAL SUPPORTS. SUBMIT SUCH DETAILS FOR THE ENGINEER'S APPROVAL.
4. ALL LINTELS SHALL BE HOT DIPPED GALVANIZED AFTER FABRICATION.
5. FOR MASONRY OPENINGS GREATER THAN 10'-0", SEE DETAILS ON THE DRAWINGS OR REFER TO ENGINEER.
6. BRICK HEIGHTS OVER OPENINGS GREATER THAN ONE HALF THE LINTEL SPAN SHALL BE SHORED UNTIL MORTAR HAS SET AND CURED.
7. 'L' DIMENSION SHALL NOT BE LESS THAN 4". FOR 'L' DIMENSION GREATER THAN 5 1/2", PROVIDE 3/16" PLATE STIFFENER.
8. UNLESS NOTED OTHERWISE BY ARCHITECT, 'X' DIMENSION SHALL BE 5/8" AT NOMINAL BRICK OR 4" CMU, AT KING BRICK 'X' SHALL BE 1/2".
9. WHERE MINIMUM ANGLE THICKNESS EXCEEDS GROUT BED THICKNESS, BOOT CUT BRICK AS REQ'D IN ORDER TO MAINTAIN LEVEL COURSING.
10. WHERE NO BRICK JOINTS OCCUR, LINTEL SCHEDULE IS VALID FOR ALL BRICK WALL HEIGHTS. WHERE EXPANSION JOINTS ARE PROVIDED AT ONE OR BOTH SIDES OF OPENINGS,OR WHERE STACK BONDED BRICK IS USED. LINTEL SCHEDULE IS VALID FOR A CARRIED BRICK HEIGHT UP TO 26 FT. SEE EOR IF THIS VALUE IS EXCEEDED.

TYPICAL DETAIL
STEEL LOOSE LINTEL
SCHEDULE EXTERIOR BRICK

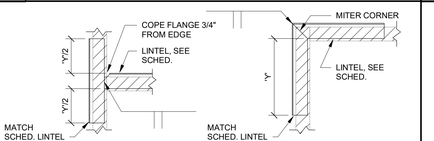
2 SCALE: N.T.S.

NOTE:
SEE 2/S-401 FOR LINTEL SCHEDULE.

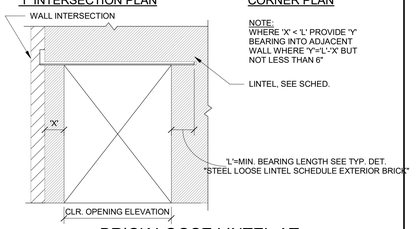


TYPICAL DETAIL
LOOSE LINTEL CUT BACK AND BEARING

6 SCALE: N.T.S.

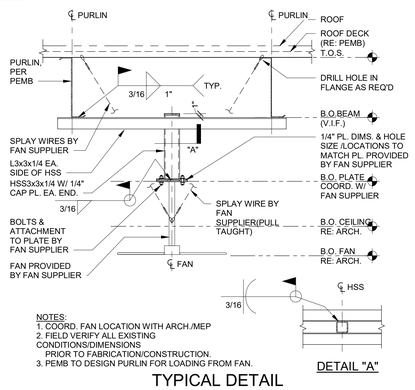


NOTE:
WHERE 'X' < 'L' PROVIDE 'Y' BEARING INTO ADJACENT WALL WHERE 'Y'='L'-'X' BUT NOT LESS THAN 6"



BRICK LOOSE LINTEL AT
CORNER AND INTERSECTION

5 SCALE: N.T.S.



NOTES:
1. COORD. FAN LOCATION WITH ARCH./MEP
2. FIELD VERIFY ALL EXISTING CONDITIONS/DIMENSIONS PRIOR TO FABRICATION/CONSTRUCTION.
3. PEMB TO DESIGN PURLIN FOR LOADING FROM FAN.

DETAIL "A"

TYPICAL DETAIL
BIG ASS FAN AT PURLINS

1 SCALE: N.T.S.

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TYPICAL FRAMING DETAILS

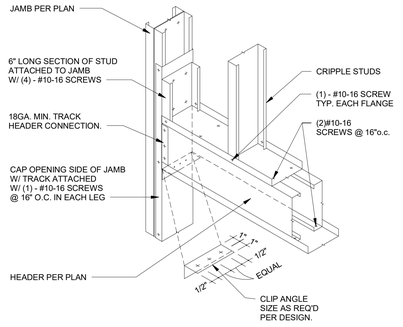
S-401

JAMB AND HEADER SCHEDULE	
MARK	HEADER COMBINATION
H1	#10 SCREWS AT 12" TYP. 4 PLACES; 2-600T125-43 STUD TRACK; 2-1200S200-97 (50) STUDS
J1	3-600S162-54 MIL (50)

NOTE:
"H" INDICATES HEADER BEAM.

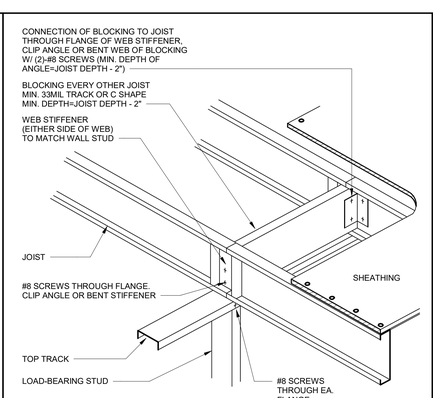
TYPICAL DETAIL LOAD BEARING HEADER AND JAMB SCHEDULE

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



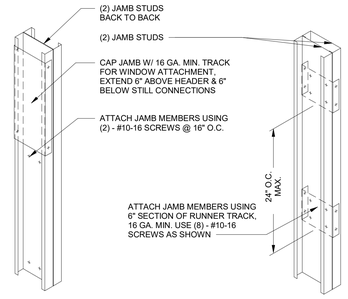
BOXED HEADER CONNECTION

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



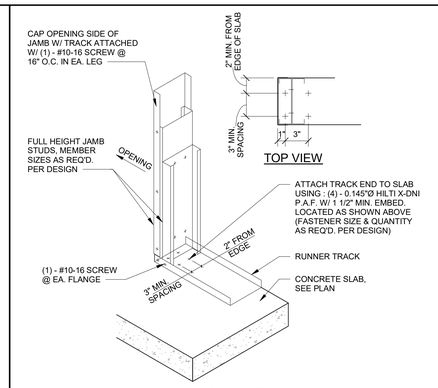
CONNECTION DETAILS

16 SCALE: N.T.S.



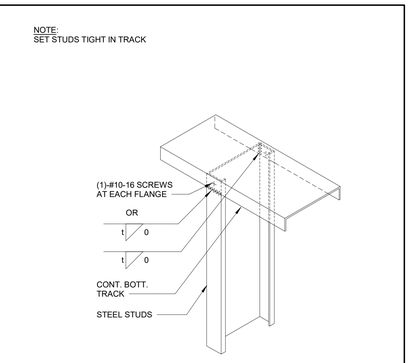
TYPICAL DETAIL TIED JAMB STUDS

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



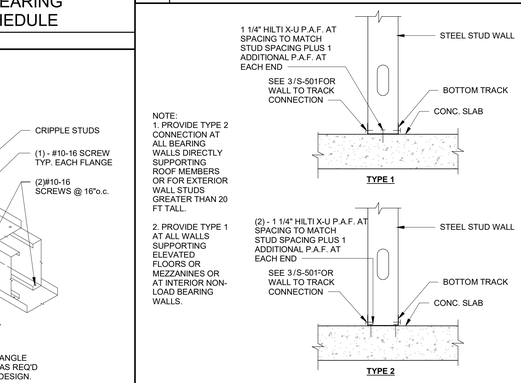
TYPICAL DETAIL DOOR JAMB ANCHORAGE

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



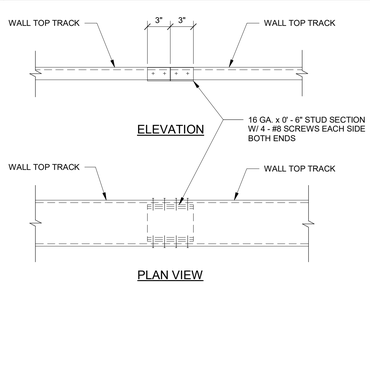
TYPICAL DETAIL STUD TO TRACK CONNECTION AT LOAD BEARING WALL

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



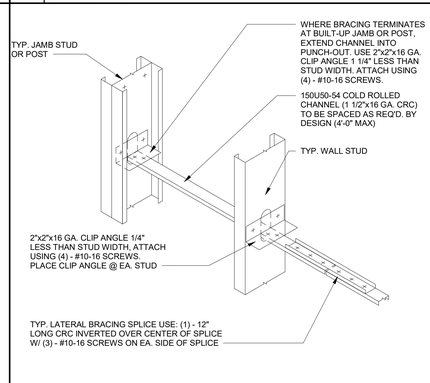
TYPICAL DETAIL STUD WALL AT CONCRETE SLAB

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



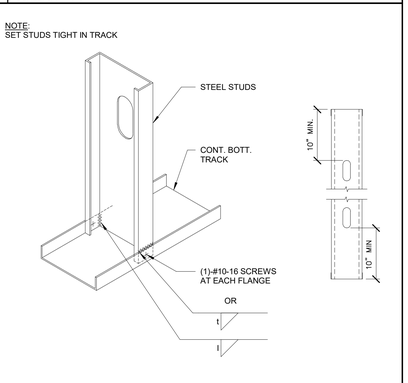
TYPICAL DETAIL TRACK SPLICE

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



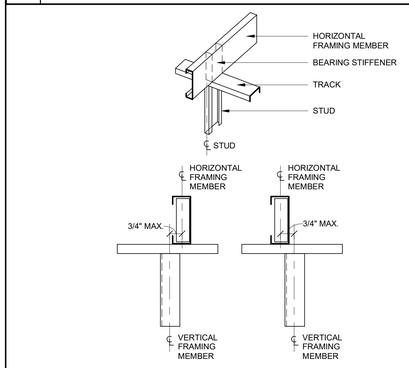
TYPICAL DETAIL STUD BRIDGING DETAIL

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



TYPICAL DETAIL STUD TO TRACK CONNECTION

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



JOIST TO STUD TYPICAL DETAIL CONNECTION DETAILS

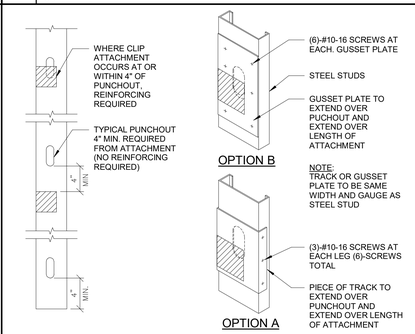
18 SCALE: N.T.S.

SIMPSON SJC CONNECTOR SCHEDULE					
FASTENERS					
SUPPORTED JOIST SIZE	CONNECTOR	CARRIED MEMBER	CARRYING MEMBER	SUPPORT GAGE (MIN.)	CAPACITY (ASD)
6" JOIST >6'	SJCT	(4)-#10	(3)-#10	16 GAGE	2.10 KIPS
12" JOIST	MSJC10.25	(9)-#10	(7)-#10	14 GAGE	2.6 KIPS

NOTE:
PROVIDE CONNECTOR SHOWN PER SCHEDULE U.N.O. IN DETAILS.

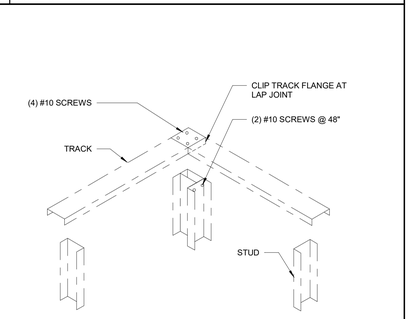
TYPICAL DETAIL COLD FORM JOIST CONNECTOR SCHEDULE

10 SCALE: 12" = 1'-0"



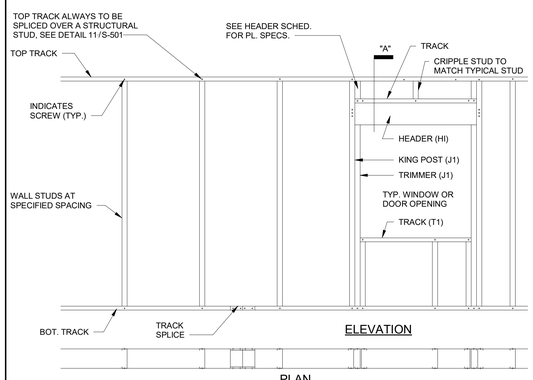
TYPICAL DETAIL PUNCHOUT REINFORCING

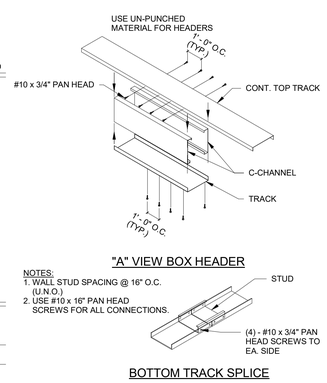
6 SCALE: 3/4" = 1'-0"



TYPICAL DETAIL FRAMING AT CORNER

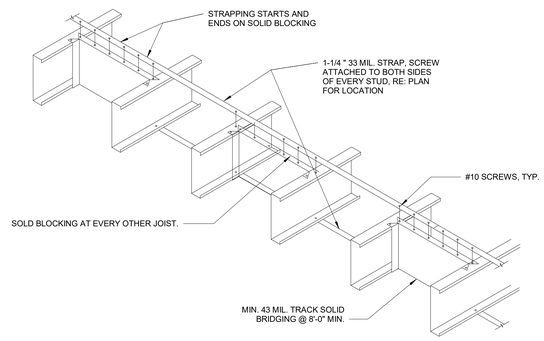
2 SCALE: 1 1/2" = 1'-0"





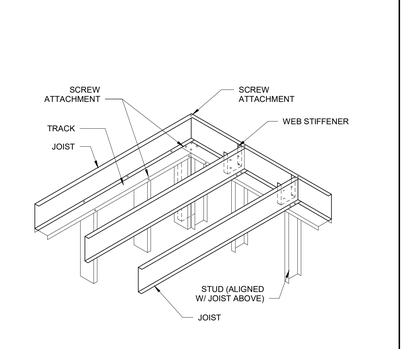
TYPICAL STRUCTURAL WALL FRAMING

17 SCALE: N.T.S.



TYPICAL DETAIL RAFTER/JOIST BRIDGING

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



TYPICAL FLOOR FRAMING

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

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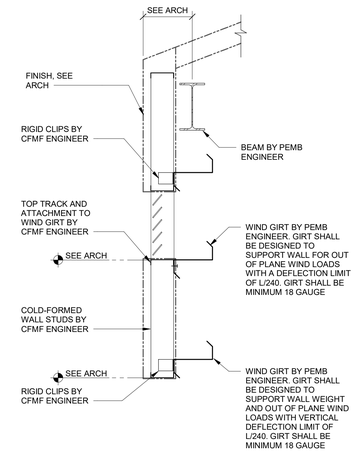
PROJECT No: **MA 25016**
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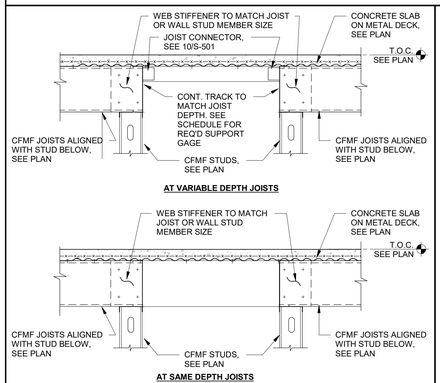
TYPICAL LIGHT GAUGE FRAMING DETAILS

S-501



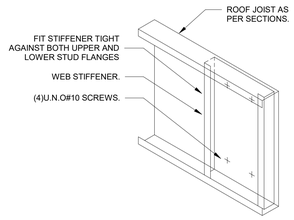
WIND GIRTS AT GARAGE DOOR OPENINGS BY PEMB ENGINEER

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



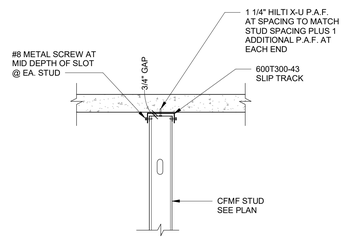
TYPICAL DETAIL
FRAMING AT LOAD-BEARING WALL

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



TYPICAL DETAIL
WEB STIFFENERS

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



TYPICAL NON-LOAD BEARING LIGHT GAUGE WALL CONNECTION TO CONCRETE SLAB

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

3 5/8" NON-LOAD BEARING HEADER SCHEDULE

UNSUPPORTED HEIGHT	L ≤ 8' - 0"	L ≤ 12' - 0"	L ≤ 16' - 0"
H ≤ 12' - 0"	(2) - 362T125-27 W/ (2) - 362S125-33	(2) - 362T125-43 W/ (2) - 362S162-54	(2) - 362T125-54 W/ (2) - 600S137-54
H ≤ 18' - 0"	(2) - 362T125-27 W/ (2) - 362S125-43	(2) - 362T125-54 W/ (2) - 600S137-43	(3) - 362T125-54, (1) - 362S162-43 W/ (2) - 800S162-43*
H ≤ 22' - 0"	(2) - 362T125-33 W/ (2) - 362S137-43	(2) - 362T200-54 W/ (2) - 600S137-54	(3) - 362T125-54, (1) - 362S200-43 W/ (2) - 800S162-54*



* HEADER CONFIGURATION AT LONG SPAN

3 5/8" WALL SCHEDULE

UNSUPPORTED HEIGHT	MIN. STUD SIZE	No. of KING STUDS AT JAMB				
		L ≤ 3' - 0"	L ≤ 6' - 0"	L ≤ 8' - 0"	L ≤ 12' - 0"	L ≤ 16' - 0"
H ≤ 8' - 0"	362S125-27 @ 24"O.C.	2	3	3	4	6*
H ≤ 10' - 0"	362S125-33 @ 24"O.C.	2	3	4	5	6*
H ≤ 14' - 0"	362S137-43 @ 24"O.C.	2	3	3	4	5
H ≤ 18' - 0"	362S137-54 @ 24"O.C.	2	3	4	5	6**
H ≤ 22' - 0"	362S162-54 @ 16"O.C.	2	3	4	6***	****

* MAY BE REPLACED WITH (2) - 362S162-43
** MAY BE REPLACED WITH (3) - 362S200-54
*** MAY BE REPLACED WITH (3) - 362S300-54
**** PROVIDE (3)-362S300-68

3 5/8" SILL TRACK SCHEDULE

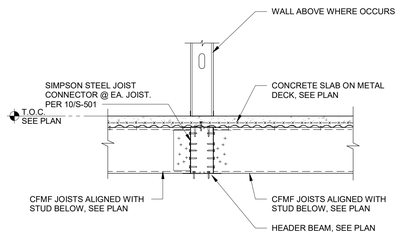
UNSUPPORTED HEIGHT	L ≤ 8' - 0"	L ≤ 12' - 0"	L ≤ 16' - 0"
H ≤ 12' - 0"	362T125-33	362T125-54	(2) - 362T125-43 W/ 362S162-33*
H ≤ 18' - 0"	362T125-43	362T125-68	(2) - 362T125-54 W/ 362S162-33*
H ≤ 22' - 0"	362T125-54	362T200-68	(2) - 362T125-68 W/ 362S162-43*



* SILL TRACK CONFIGURATION AT LONG SPAN

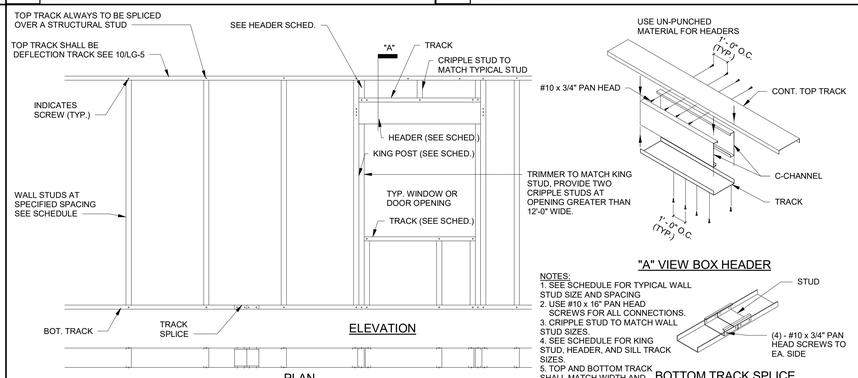
TYPICAL DETAIL
4" NON-LOAD BEARING WALL SCHEDULES

6 SCALE: N.T.S.



TYPICAL DETAIL
HEADER IN THE PLANE OF FLOOR STUDS

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



NOTES:
1. SEE SCHEDULE FOR TYPICAL WALL STUD SIZE AND SPACING.
2. USE #10 x 16" PAN HEAD SCREWS FOR ALL CONNECTIONS.
3. CRIPPLE STUD TO MATCH WALL STUD SIZES.
4. SEE SCHEDULE FOR KING STUD, HEADER, AND SILL TRACK SIZES.
5. TOP AND BOTTOM TRACK SHALL MATCH WIDTH AND GAUGE OF WALL STUDS.

TYPICAL NON-LOAD BEARING WALL FRAMING

13 SCALE: N.T.S.

6" NON-LOAD BEARING HEADER SCHEDULE

UNSUPPORTED HEIGHT	L ≤ 8'-0"	L ≤ 12'-0"	L ≤ 20'-0"
H ≤ 12' - 0"	(2)-600T125-27 w/(2)-600S125-27	(2)-600T125-27 w/(2)-600S162-33	(2)-600T125-54 w/(2)-800S162-54
H ≤ 18' - 0"	(2)-600T125-27 w/(2)-600S125-33	(2)-600T125-33 w/(2) 600S162-43	(2)-600T125-54 w/(2)-1000S162-54
H ≤ 24' - 0"	(2)-600T125-27 w/(2)-600S162-33	(2)-600T125-43 w/(2) 600S162-54	(2)-600T125-68 w/(2)-1200S162-54

6" WALL SCHEDULE

UNSUPPORTED HEIGHT	MIN. STUD SIZE	No. of KING STUDS AT JAMB				
		≤ 3'-0"	≤ 6'-0"	≤ 8'-0"	≤ 12'-0"	≤ 20'-0"
H ≤ 8' - 0"	600S125-27 @ 24" O.C.	1	1	1	2	2
H ≤ 10' - 0"	600S125-27 @ 24" O.C.	1	1	2	2	3
H ≤ 14' - 0"	600S125-27 @ 24" O.C.	2	2	2	3	4
H ≤ 18' - 0"	600S125-27 @ 24" O.C.	2	3	3	4	6*
H ≤ 22' - 0"	600S125-27 @ 16" O.C.	3	4	4	6**	***
H ≤ 24' - 0"	600S125-30 @ 16" O.C.	3	4	4	6*	****

6" SILL TRACK SCHEDULE

UNSUPPORTED HEIGHT	L ≤ 8'-0"	L ≤ 12'-0"	L ≤ 20'-0"
H ≤ 12' - 0"	600T125-27	600T125-43	(2)-600T125-43 w/ 600S162-43*
H ≤ 18' - 0"	600T125-30	600T125-54	(2)-600T125-43 w/ 600S162-43*
H ≤ 24' - 0"	600T125-43	600T125-54	(2)-600T125-54 w/ 600S162-54*



*SILL TRACK CONFIGURATION AT LONG SPAN

* MAY BE REPLACED WITH (3)-600S162-43
** MAY BE REPLACED WITH (3)-600S162-33
*** PROVIDE (4)-600S162-33
**** PROVIDE (4)-600S162-43

TYPICAL DETAIL
6" NON-LOAD BEARING WALL SCHEDULES

5 SCALE:N.T.S.

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STATION #42

Hays County ESD #4
xxxxx
Wimberley, TX 78676

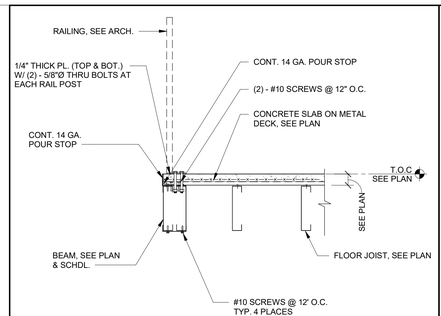
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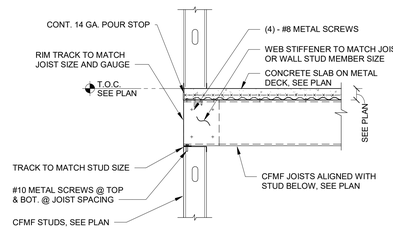
TYPICAL LIGHT GAUGE FRAMING DETAILS

S-502



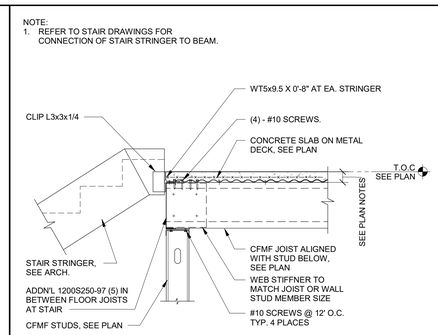
TYPICAL DETAIL STAIR STRINGER CONNECTION AT JOIST PERPENDICULAR TO EDGE

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



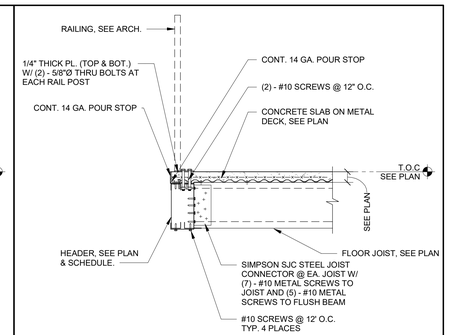
TYPICAL DETAIL FLOOR FRAMING AT LOAD BEARING WALL

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



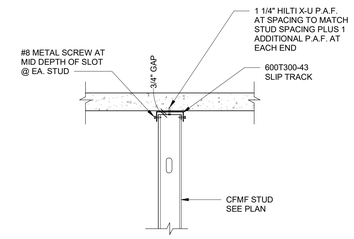
TYPICAL DETAIL STAIR STRINGER CONNECTION AT JOIST PERPENDICULAR TO EDGE

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



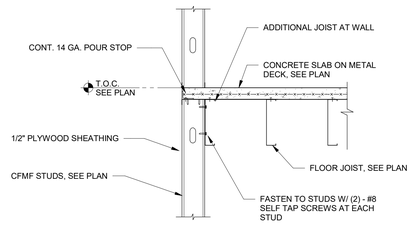
TYPICAL DETAIL STAIR STRINGER CONNECTION AT JOIST PERPENDICULAR TO EDGE

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



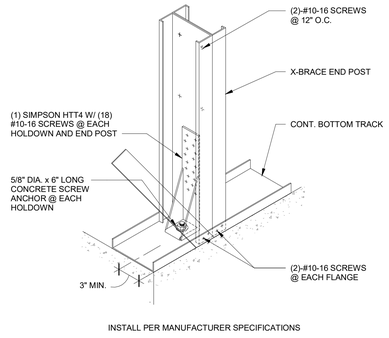
TYPICAL NON-LOAD BEARING LIGHT GAUGE WALL CONNECTION TO CONCRETE SLAB

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



TYPICAL DETAIL FLOOR FRAMING AT LOAD BEARING WALL

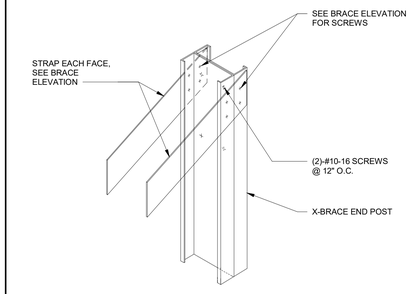
15 SCALE: 3/4" = 1'-0"



INSTALL PER MANUFACTURER SPECIFICATIONS

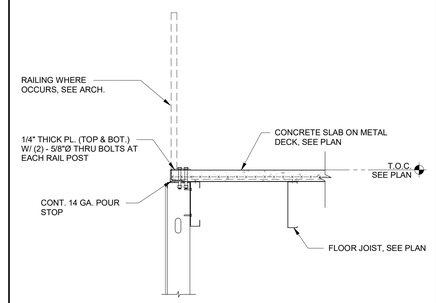
HOLD DOWN BASE TYPICAL DETAIL AT STRAPS

11 SCALE:N.T.S.



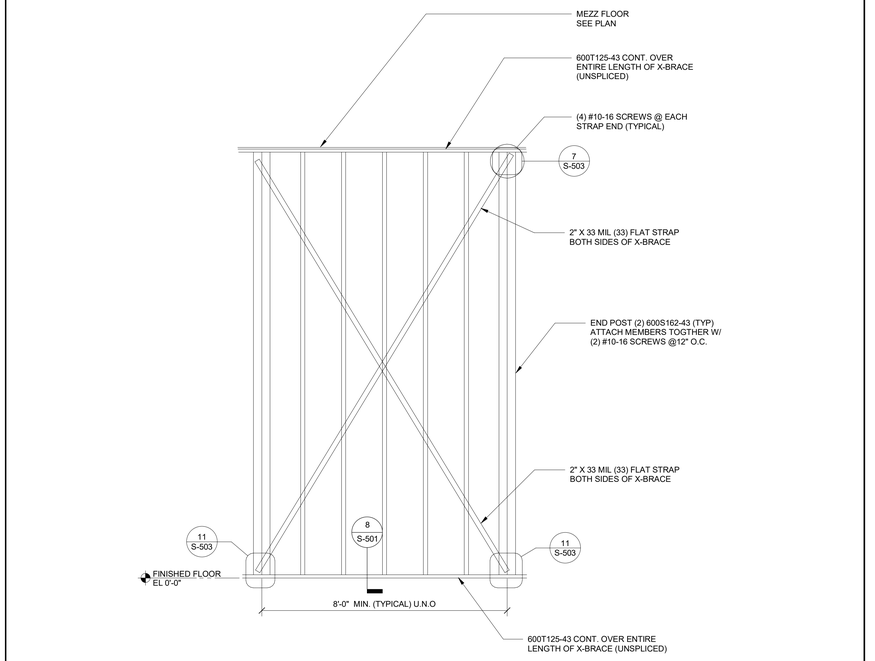
STRAP TO CHORD STUD CONNECTIONS TYPICAL DETAIL

7 SCALE:N.T.S.



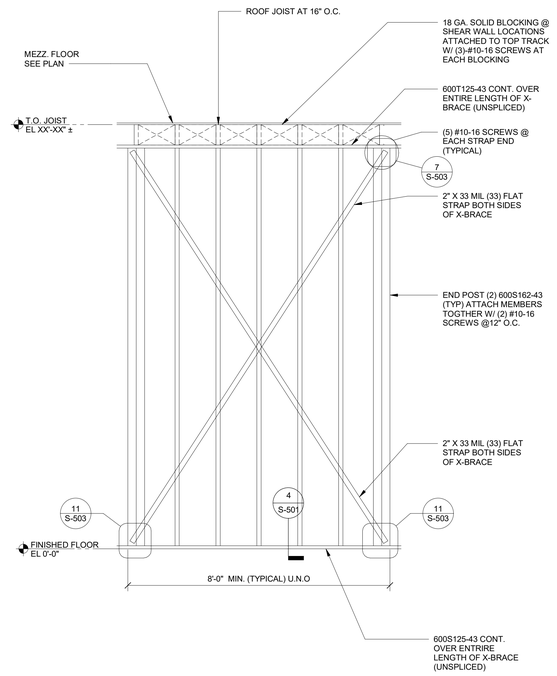
TYPICAL DETAIL STAIR STRINGER CONNECTION AT JOIST PARALLEL TO EDGE

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



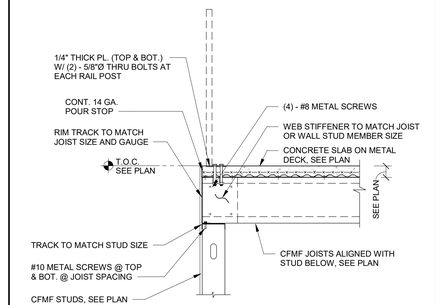
X-BRACE ELEVATION TYPICAL DETAIL

17 SCALE:N.T.S.



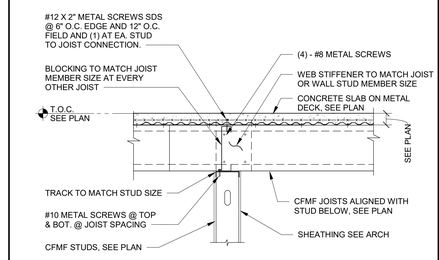
X-BRACE ELEVATION TYPICAL DETAIL

9 SCALE:N.T.S.



TYPICAL FLOOR FRAMING AT LOAD BEARING WALL

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



TYPICAL FLOOR FRAMING AT LOAD BEARING WALL

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

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TYPICAL LIGHT GAUGE FRAMING DETAILS

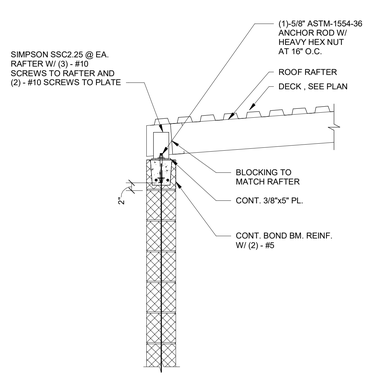
S-503

BAR SIZE	MINIMUM LAP SPLICE LENGTH REINFORCEMENT AT CENTER OF WALL 6" CMU	8" CMU	10" CMU	12" CMU	REINFORCEMENT OFF CENTER ANY	HOOKED BAR DEVELOPMENT LENGTH ANY
3	12	12	12	12	17	5
4	18	13	12	12	29	7
5	28[4]	20	16	13	45	9
6	51[4]	37	29	24	54	10
7	NA[5]	50	39	32	63	12
8	NA[5]	72	58	48	72	13

NOTES:
1. TABLE FOR USE WITH GRADE 60 UNCOATED REINF. BARS IN CMU (f'm = 2000 psi)
2. BARS SPLICED BY NON-CONTACT LAP SPLICE SHALL NOT BE SPACED FARTHER APART THAN, ONE-FIFTH THE REQUIRED LAP LENGTH, OR 8".
3. LAP LENGTHS PER IBC 2018.
4. PERMITTED ONLY IF ALL MORTAR FINS ARE REMOVED ROM THE CELL TO BE GROUTED.
5. BAR EXCEEDS MAX. ALLOWABLE SIZE.
6. DEVELOPMENT LENGTH OF EPOXY COATED BARS SHALL BE TAKEN AS 1.5 TIMES THE VALUES IN THE CHART.

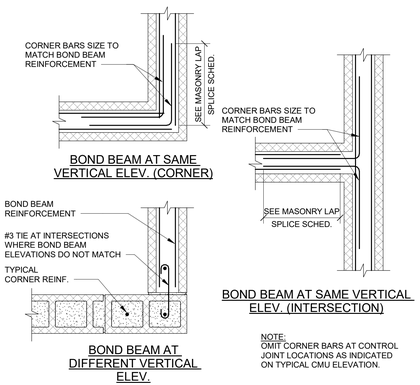
4 TYPICAL DETAIL MASONRY TENSION LAP SPLICE (INCHES)

SCALE: N.T.S.



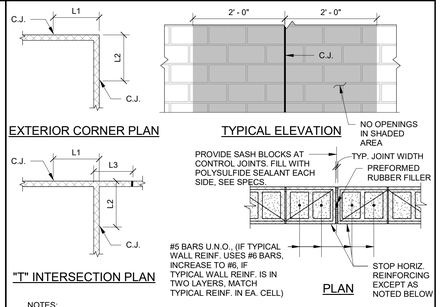
11 TYPICAL DETAIL AT ROOF FRAMING PERPINDICULAR TO WALL (LOWER END)

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



7 TYPICAL CMU BOND BEAM REINFORCEMENT

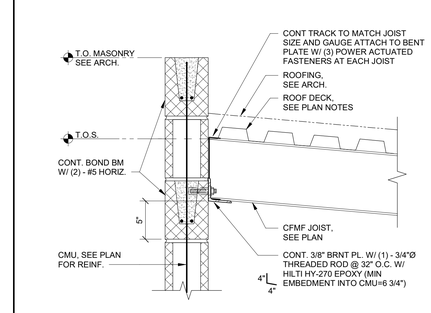
SCALE: N.T.S.



NOTES:
1. CONTRACTOR SHALL OBTAIN ARCHITECT'S APPROVAL OF JOINT LOCATIONS, WHICH SHALL NOT EXCEED THE MINIMUM OF 1.5 TIMES THE WALL HEIGHT OR 20'-0".
2. HORIZONTAL REINFORCING AT FLOOR AND ROOF LINES SHALL BE CONTINUOUS THRU JOINT.
3. CONCRETE BLOCK SHOWN - BRICK SIMILAR.
4. SAWCUT BLOCK OR BRICK AS REQUIRED.
5. AT EXTERIOR CORNERS, LOCATE JOINTS SUCH THAT: L1 + L2 ≤ 20' - 0".
6. AT EXTERIOR "T" INTERSECTIONS, LOCATE JOINTS SUCH THAT: L1 + L2 ≤ 20' - 0", L2 + L3 ≤ 20' - 0" AND L1 + L3 - WALL THICKNESS ≤ 20' - 0"

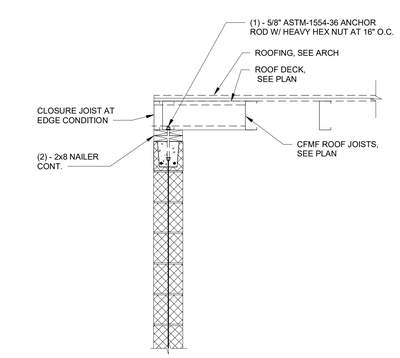
3 MASONRY WALL CONTROL JOINT

SCALE: N.T.S.



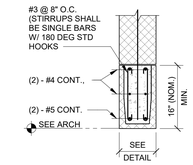
14 TYPICAL DETAIL AT ROOF FRAMING PERPINDICULAR TO WALL (HIGHER END)

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



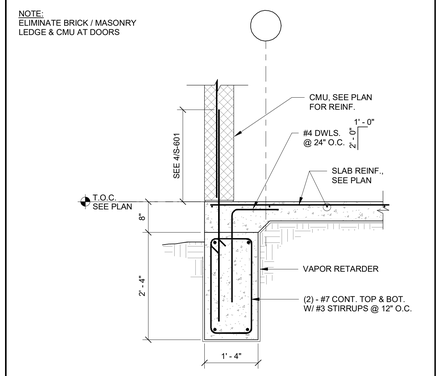
10 TYPICAL DETAIL AT ROOF FRAMING PARALLEL TO WALL

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



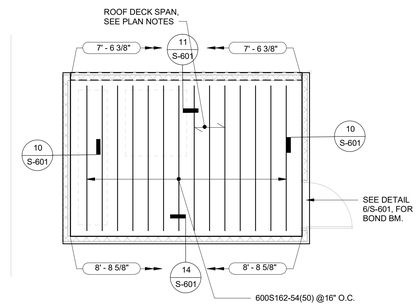
6 BOND BEAM DETAIL

SCALE: N.T.S.



2 TYPICAL DETAIL EXTERIOR GRADE BEAM

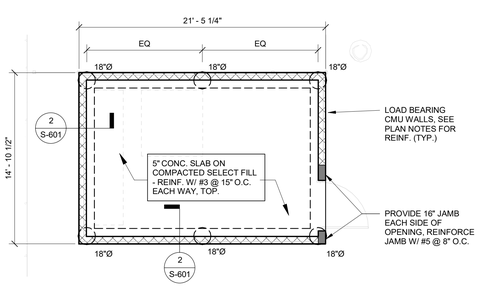
SCALE: 3/4" = 1'-0"



13 ROOF FRAMING PLAN - PUMP HOUSE

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

ROOF FRAMING PLAN NOTES:
1. LOCATIONS SHOWN THUS: ( ) INDICATES TOP OF STEEL (T.O.S.) ELEVATION (TOP OF STEEL = TOP OF JOIST OR BOTTOM OF DECK).
2. FIELD VERIFY ALL EXISTING CONDITIONS AND DIMENSIONS PRIOR TO FABRICATION / CONSTRUCTION.
3. SPACE BEAMS EQUALLY, U.N.O.
4. REFER TO ARCHITECTURAL DRAWINGS / MEP FOR LOCATIONS OF ROOF DRAINS, OVERFLOW DRAINS AND TAPERED INSULATION.
5. ROOF SHALL BE 1.5B, 22GA DECK AS MANUFACTURED BY VULCRAFT OR EQUIVALENT. SEE ARCHITECTURAL DRAWINGS FOR INSULATION, ROOFING, ETC. ATTACH DECK USING #10 TEK SCREWS:
   a. PERPENDICULAR BEARING: 36/4 PATTERN.
   b. PARALLEL BEARINGS AND EDGE: AT 6" O.C.
   c. SIDE SEAMS: #10 TEK SCREWS AT 12" O.C.



5 FOUNDATION PLAN - PUMP HOUSE

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

FOUNDATION PLAN NOTES:
1. ALL PIERS ARE CENTERED UNDER COLUMN CENTERLINES, U.N.O.
2. PIERS UNDER GRADE BEAM (WITHOUT COLUMNS) SHALL BE CENTERED UNDER GRADE BEAMS, U.N.O.
3. ALL PIERS ARE 18" DIA STRAIGHT SHAFTS TYP. U.N.O.
4. SEE 17/S-302 FOR ADDN'L INFORMATION FOR PIER REINFORCEMENT AND MINIMUM EMBEDMENT OF SHAFT INTO LIMESTONE IN STRATUM 3.
5. SEE ARCHITECTURAL DRAWINGS FOR EXACT LOCATION OF ALL FLOOR SLOPES, DEPRESSIONS, ETC.
6. COORDINATE ALL BRICK LEDGES AND DEPTH WITH ARCHITECTURAL DRAWINGS.
7. LOCATIONS NOTED THUS: 0' - 0" INDICATES TOP OF SLAB ELEVATION.
8. REFER ELEVATION = 0'-0" CORRESPONDS TO CIVIL FINISH FLOOR ELEVATION. VERIFY WITH CIVIL.
9. SEE 5/S-301 & 7/S-301 FOR ADDITIONAL REBAR AT OPENINGS, DISCONTINUOUS JOINTS, AND RE-ENTRANT CORNERS IN SLAB-ON-GRADE.
10. PROVIDE CONTRACTION JOINTS AND DISCONTINUOUS SLAB REINFORCING AS SHOWN IN DETAIL 6/S-301.
11. FIELD VERIFY ALL EXISTING CONDITIONS AND DIMENSIONS PRIOR TO FABRICATION / CONSTRUCTION.
12. ALL COLUMN LOCATIONS SHOWN AND ASSOCIATED FOUNDATIONS ARE PLACEHOLDERS IN THE ABSENCE OF A COMPLETE METAL BUILDING DESIGN SUBMITTAL. SEE GENERAL NOTES FOR SUBMITTAL REQUIREMENTS.
13. REINFORCE ALL 8" EXTERIOR CMU WALL WITH #5 VERT. @ 32" O.C. SEE 3/S-601 FOR MASONRY CONTROL JOINT REQUIREMENTS.

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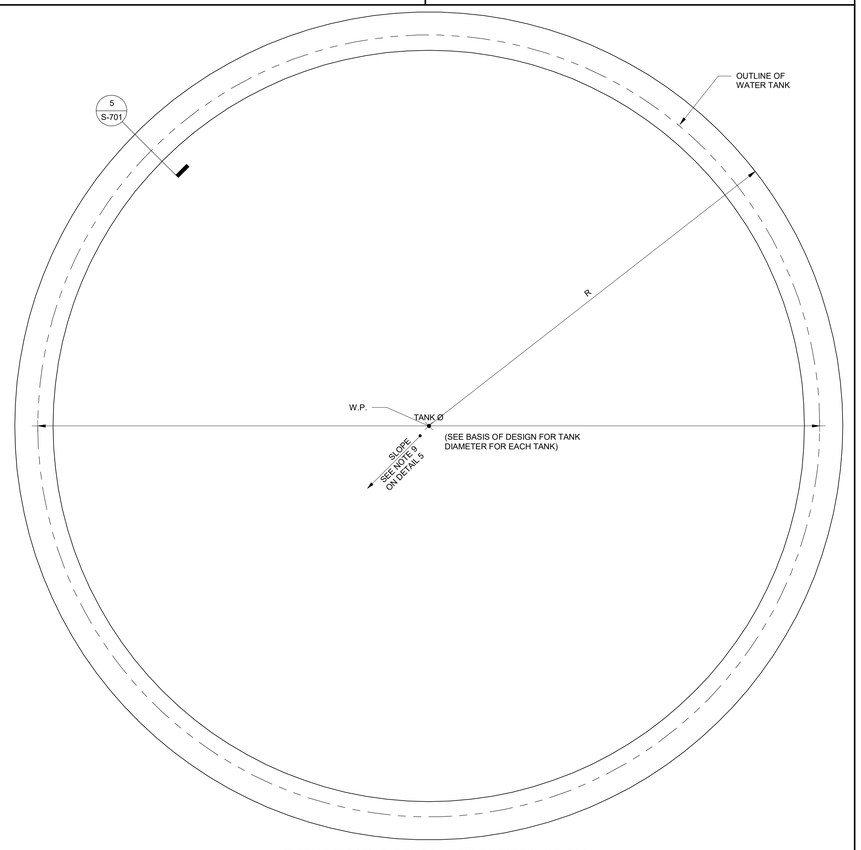
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PUMP HOUSE FOUNDATION AND ROOF FRAMING PLAN

S-601



TANK FOUNDATION RING WALL PLAN

13

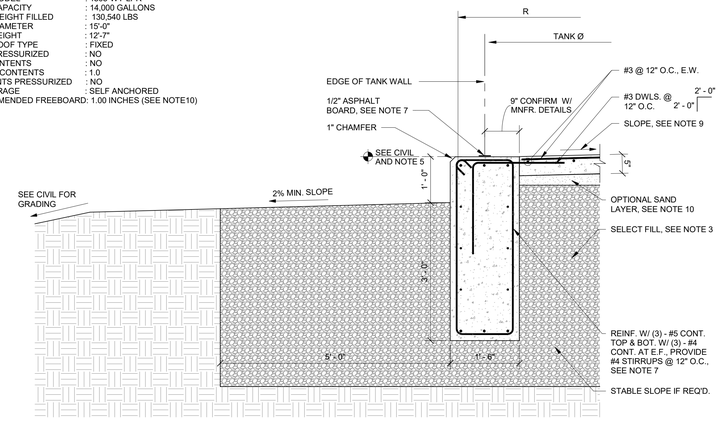
SCALE: N.T.S.

BASIS OF DESIGN:

1.
TANK MODEL : 2106-WT-CHR
TANK CAPACITY : 55,000 GALLONS
TANK WEIGHT FILLED : 494,677 LBS
TANK DIAMETER : 21'-0"
TANK HEIGHT : 27'-7"
TANK ROOF TYPE : FIXED
TANK PRESSURIZED : NO
HOT CONTENTS : NO
S.G. OF CONTENTS : 1.0
CONTENTS PRESSURIZED : NO
ANCHORAGE : SELF ANCHORED
RECOMMENDED FREEBOARD: 1.12 INCHES (SEE NOTE10)

2.
TANK MODEL : 1505-WT-CHR
TANK CAPACITY : 23,000 GALLONS
TANK WEIGHT FILLED : 210,486 LBS
TANK DIAMETER : 15'-0"
TANK HEIGHT : 22'-4"
TANK ROOF TYPE : FIXED
TANK PRESSURIZED : NO
HOT CONTENTS : NO
S.G. OF CONTENTS : 1.0
CONTENTS PRESSURIZED : NO
ANCHORAGE : SELF ANCHORED
RECOMMENDED FREEBOARD: 1.00 INCHES (SEE NOTE10)

3.
TANK MODEL : 1503-WT-LPR
TANK CAPACITY : 14,000 GALLONS
TANK WEIGHT FILLED : 130,540 LBS
TANK DIAMETER : 15'-0"
TANK HEIGHT : 12'-7"
TANK ROOF TYPE : FIXED
TANK PRESSURIZED : NO
HOT CONTENTS : NO
S.G. OF CONTENTS : 1.0
CONTENTS PRESSURIZED : NO
ANCHORAGE : SELF ANCHORED
RECOMMENDED FREEBOARD: 1.00 INCHES (SEE NOTE10)



FOUNDATION DETAIL AT TANK

5

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

NOTES:
1. THE INDICATED DESIGN IS VALID ONLY FOR THE BASIS OF DESIGN TANKS SPECIFIED. CONTRACTOR SHALL NOTIFY EOR OF ANY SUBSTITUTE OF BASIS OF DESIGN TANK PRIOR TO CONSTRUCTION.
2. TANK SHALL BE DESIGNED BY FABRICATOR FOR SITE LOADING CONDITIONS INCLUDING WIND AND SEISMIC EFFECTS AS REQUIRED BY CODE AND CONSISTENT WITH DESIGN RECOMMENDATIONS OF API 650. IF INDICATED ANCHORAGE CONDITION, PRESSURIZATION, OR ANY OTHER CRITERIA NOTED IN BASIS OF DESIGN IS INCORRECT NOTIFY EOR PRIOR TO CONSTRUCTION.
3. EXCAVATE MINIMUM 5-0" BELOW THE BOTTOM OF THE TANK SLAB. THE TANK BOTTOM SHALL BE PROOF-ROLLED AND RE-COMPACTED TO A MINIMUM OF 95% STANDARD COMPACTION, WITH A MOISTURE CONTENT AT OR ABOVE OPTIMUM (OPT' +). SELECT FILL SHALL EXHIBIT RELATIVELY LOW PLASTICITY INDICES AND LOW EXPANSIVE POTENTIAL. ENGINEERED FILL SHALL HAVE A LIQUID LIMIT OF 40 OR LESS, AND A PLASTICITY INDEX (PI) BETWEEN 8 AND 20. ENGINEERED FILL SHALL BE COMPACTED FLEXIBLE BASE PLACED IN 8-INCH LOOSE LIFTS AND COMPACTED TO 95% OR MORE OF MODIFIED PROCTOR WITH A MOISTURE CONTENT WITHIN 2% OF OPTIMUM (+/- 2%).
4. BEARING CAPACITY PER GEOTECHNICAL REPORT:
   TANK BASE: 2500 PSF
   RING FOOTING: 2500 PSF
   LATERAL EARTH COEFF: 0.52
   FRICTION FACTOR: 0.35
5. PER API 650 CONSTRUCTION TOLERANCES FOR THE TOP OF THE RING WALL SHOULD BE LEVEL WITHIN +/- 1/8 INCH IN ANY 30FT OF THE CIRCUMFERENCE AND WITHIN +/- 1/4 INCH IN THE TOTAL CIRCUMFERENCE MEASURED FROM THE AVERAGE ELEVATION
6. EXCEPT FOR HOT TANKS, A 1/2 INCH THICK MINIMUM ASPHALT-IMPREGNATED BOARD SHOULD BE PLACED, IN ACCORDANCE WITH ASTM D1751, ON TOP OF THE WALL DIRECTLY UNDERNEATH SHELL ANNULAR PLATE
7. ALL CONTINUOUS RING WALL REINFORCEMENT SHALL MATCH RING CURVATURE AND BE SPLICED WITH TYPE BE LAP SLICES. SPLICE LOCATIONS FOR TOP BARS, BOTTOM BARS, AND SIDE BARS SHALL BE OFFSET TO OCCUR AT DIFFERENT LOCATIONS.
8. UNLESS SPECIFIED OTHERWISE BY THE PURCHASER, THE FINISHED TANK GRADE SHALL BE CROWNED FROM ITS OUTER PERIPHERY TO ITS CENTER AT A SLOPE OF 1 INCH IN 10 FEET.
9. WHERE DESIRED BY CONTRACTOR FOR LEVELING OR WHERE NO SLAB IS PROVIDED BENEATH THE TANK BOTTOM PROVIDE A LAYER OF CLEAN WASHED SAND 3-4 INCHES DEEP. WHERE SAND IS USED INCREASE THE DEPTH OF EXCAVATION AND FILL SPECIFIED ABOVE BY THE DEPTH OF THE SAND LAYER.
10. PER API 650 SEISMIC SPECIFICATION A MINIMUM FREEBOARD TO ACCOMMODATE SLOSHING HAS BEEN CALCULATED BY THE EOR FOR THIS SITE, IT IS THE TANK PROVIDERS RESPONSIBILITY TO PROVIDE ADEQUATE FREEBOARD OR ACCEPTABLE ALTERNATIVE DESIGN PROVISIONS. AT THIS SITE A FREEBOARD OF 1.12 INCHES IS RECOMMENDED BUT NOT REQUIRED.
11. BASED ON THE MAGNITUDE OF THE SETTLEMENTS ESTIMATED ALONG THE TANK PERIMETER AND THE ESTIMATED PVR, A VERTICAL DIFFERENTIAL MOVEMENT OF 1 INCH OR MORE BE ACCOUNTED FOR IN THE DESIGN OF UTILITY CONNECTIONS AND SURFACE DRAINAGE FEATURES. BALL JOINTS AND SLEEVE-TYPE OR OTHER FLEXIBLE COUPLINGS, AS APPROPRIATE, SHOULD BE CONSIDERED BETWEEN EXTERNAL PIPING AND THE TANK WALL CONNECTIONS.

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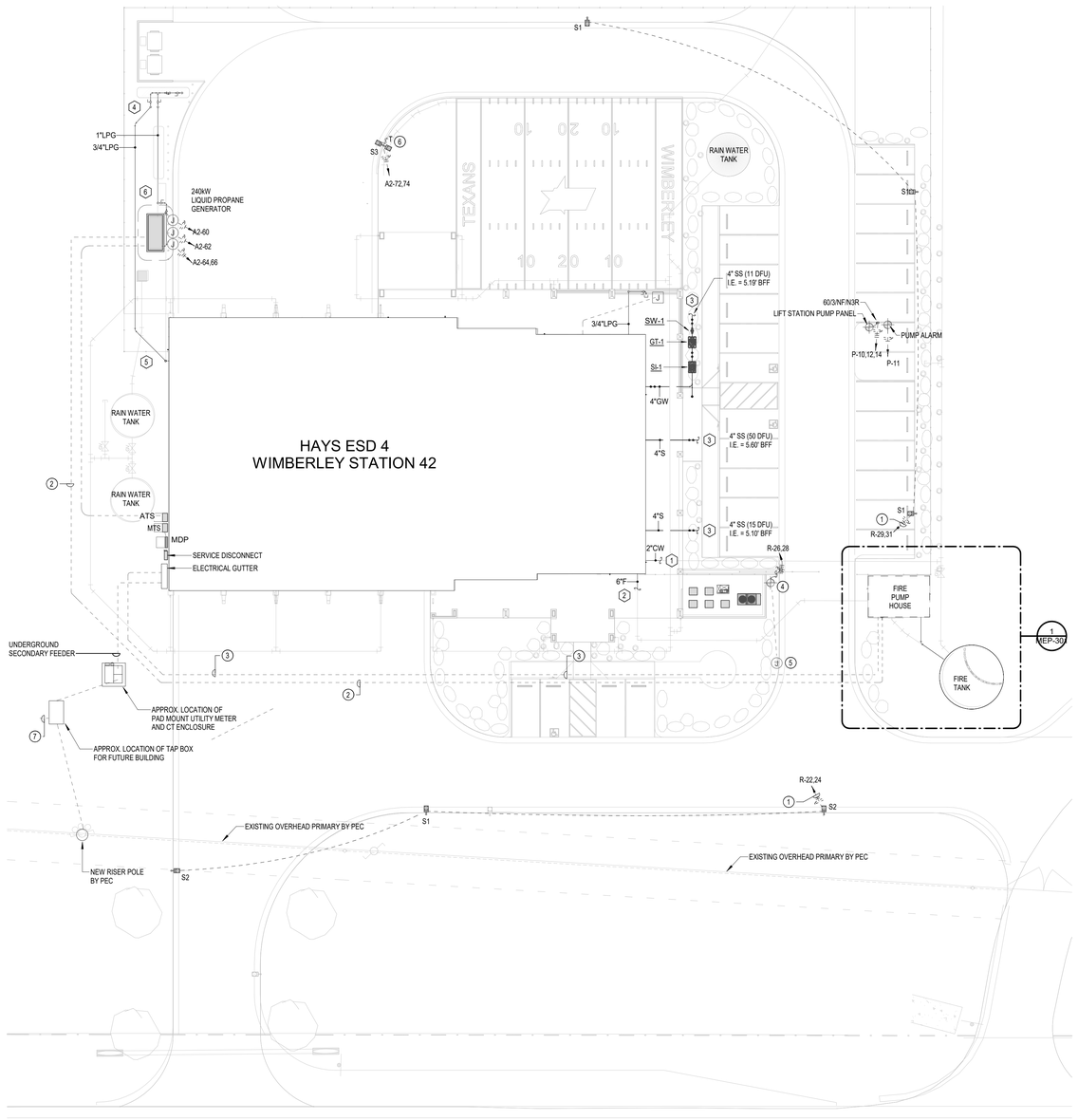
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6	IFB	10/20/2026

TANK FOUNDATION DETAILS

S-701



(1) MEP SITE PLAN

1" = 20'-0"

(E) PLUMBING KEYED NOTES:

1. DOMESTIC WATER SERVICE, SIZE AND PEAK FLOW RATE AS NOTED. REFER TO CIVIL SITE UTILITY PLANS FOR CONTINUATION.
2. FIRE PROTECTION WATER ENTRY FROM FIRE PUMP, SIZE AS NOTED. COORDINATE WITH FINAL TANK, FIRE PUMP, AND FIRE SPRINKLER DESIGN PROVIDED BY FIRE PROTECTION ENGINEER HIRED BY CONTRACTOR.
3. SANITARY BUILDING DRAIN, SIZE AS NOTED. REFER TO CIVIL SITE UTILITY PLANS FOR CONTINUATION.
4. PROPANE TANK TO BE OWNER PROVIDED THROUGH WIMBERLEY HYDRO GAS. COORDINATE CONCRETE PAD REQUIREMENTS AND INSTALLATION. REFER TO PLUMBING GAS RISER.
5. LP GAS SERVICE TO BUILDING. REFER TO PLUMBING GAS RISER.
6. LP GAS SERVICE TO GENERATOR. REFER TO PLUMBING GAS RISER.

GENERAL FIRE PROTECTION NOTES:

A. PRELIMINARY FIRE TANK CAPACITY ESTIMATED TO BE 55,000 GALLONS. FIRE PROTECTION ENGINEER SHALL COORDINATE FINAL STORAGE REQUIREMENTS WITH AHJ (HAYS COUNTY FIRE MARSHAL) IN ACCORDANCE WITH NFPA 22 AND NFPA 1142.

B. INITIAL WATER FILL FOR FIRE TANK TO BE SUPPLIED BY WATER HAUL PROVIDER CONTRACTED BY OWNER. COORDINATE AGREEMENTS FOR PERMITTING AND FILL DATE WITH OWNER.

C. FIRE PROTECTION ENGINEER, HIRED BY CONTRACTOR, SHALL PROVIDE FULL DESIGN FOR COMPLETE FIRE PROTECTION SYSTEM SERVING BUILDING AND SITE: FIRE SPRINKLER SYSTEM, FIRE LINES, FIRE TANK, HYDRANT, FIRE PUMP, AND JOCKEY PUMP. COORDINATE FINAL ELECTRICAL REQUIREMENTS WITH DIVISION 26.

(E) ELECTRICAL KEYED NOTES

1. EXTERIOR LIGHTING CIRCUIT SHALL BE ROUTED THROUGH CONTACTOR AND BE PHOTOCELL CONTROLLED.
2. UNDERGROUND EMERGENCY FIRE PUMP FEEDER SHALL BE UPSIZED TO 200AMPS TO ACCOUNT FOR VOLTAGE DROP. CONDUIT SHALL BE SIZED BASED ON FEEDER SCHEDULE.
3. UNDERGROUND FIRE PUMP FEEDER SHALL BE UPSIZED TO 150AMPS TO ACCOUNT FOR VOLTAGE DROP. CONDUIT SHALL BE SIZED BASED ON FEEDER SCHEDULE.
4. PROVIDE ELECTRICAL CONNECTION AND DISCONNECT FOR MOTORIZED GATE OPERATOR. PROVIDE ADDITIONAL RACEWAY FOR SENSOR LOOP, AND ANY ADDITIONAL CONTROL ROUGH-IN REQUIREMENTS INDICATED BY GATE SHOP DRAWINGS.
5. PROVIDE SPARE CONDUIT WITH PULL STRING AND ROUGH-IN TO CARD READER PEDESTAL. FIELD COORDINATE EXACT LOCATION.
6. LIGHT FIXTURE SHALL BE CONTROLLED BY SPRING WOUND TIMER SWITCH. TIMER SWITCH SHALL BE MOUNTED TO POLE AND BE PROVIDED WITH WEATHERPROOF COVER.
7. (3) 3" CONDUIT STUB-UP FOR FUTURE BUILDING.

EMERALD MEP
TX FIRM No. F-24826
PROJECT No. 25018

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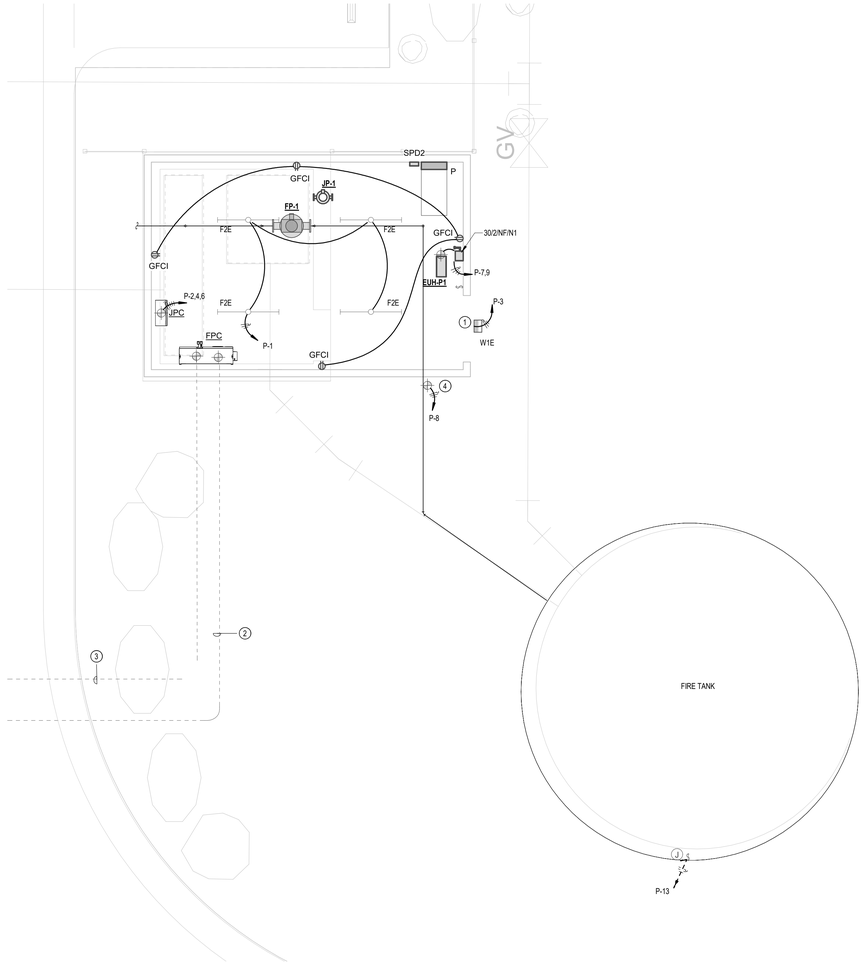
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98% CD	04-MAY-2026
IFP	01-JUN-2026
IFB	20-OCT-2026

MEP SITE PLAN

MEP-201



1 MEP SITE PLAN - ENLARGED

1/4" = 1'-0"

ELECTRICAL KEYED NOTES

1. EXTERIOR LIGHT FIXTURE SHALL BE CONTROLLED BY FIXTURE PHOTOCELL ACCESSORY. REFER TO LIGHT FIXTURE SCHEDULE.
2. UNDERGROUND EMERGENCY FIRE PUMP FEEDER SHALL BE UPSIZED TO 200AMPS TO ACCOUNT FOR VOLTAGE DROP. CONDUIT SHALL BE SIZED BASED ON FEEDER SCHEDULE.
3. UNDERGROUND FIRE PUMP FEEDER SHALL BE UPSIZED TO 150AMPS TO ACCOUNT FOR VOLTAGE DROP. CONDUIT SHALL BE SIZED BASED ON FEEDER SCHEDULE.
4. PROVIDE 120V ELECTRICAL CONNECTION FOR TRACE HEAT WIRING FOR FIRE WATER PIPING. EXACT LENGTH SHALL BE COORDINATED IN FIELD.
5. DEDICATED RECEPTACLE FOR OWNER PROVIDED HEATER. COORDINATE FINAL ROUGH-IN LOCATION WITH ARCHITECT / OWNER.

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ENLARGED MEP PLAN

MEP-301

ABBREVIATIONS

A

A	AIR (COMPRESSED)
ABV	ABOVE
A/C	AIR CONDITIONING
AC	ALTERNATING CURRENT, AIR COMPRESSOR
ACCH	AIR COOLED CHILLER
ACCU	AIR COOLED CONDENSING UNIT
AD	ACCESS DOOR, AREA DRAIN
ADJ	ADJUSTABLE
AF	AIR FILTER
AFC	ABOVE FINISHED CEILING
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AHRI	AIR-CONDITIONING, HEATING, AND REFRIGERATION INSTITUTE
AHU	AIR HANDLING UNIT
AL	ALUMINUM
AMB	AMBIENT
AP	ACCESS PANEL
APD	AIR PRESSURE DROP
ARCH	ARCHITECT, ARCHITECTURAL
AS	AIR SEPARATOR
ASHRAE	AMERICAN SOCIETY OF HEATING, REFRIGERATING AND AIR-CONDITIONING ENGINEERS
ASME	AMERICAN SOCIETY OF MECHANICAL ENGINEERS
ASTM	AMERICAN SOCIETY OF TESTING AND MATERIALS
AVG	AVERAGE
AWS	AMERICAN WELDING SOCIETY
AUX	AUXILIARY

B

B	BOILER
BFF	BELOW FINISHED FLOOR
BFV	BUTTERFLY VALVE
BLDG	BUILDING
BOS	BOTTOM OF STRUCTURE
BTU	BRITISH THERMAL UNIT
BV	BALL VALVE

C

C	CELSIUS
CD	CONDENSATE DRAIN LINE
CFM	CUBIC FEET PER MINUTE
CFS	CUBIC FEET PER SECOND
CH	CHILLER
CHR	CHILLED WATER RETURN
CHS	CHILLED WATER SUPPLY
CHW	CHILLED WATER
CHP	CHILLED WATER PUMP
CIRC	CIRCULATING
CL	CENTERLINE
CLG	CEILING
CLR	CLEAR
CMU	CONCRETE MASONRY UNIT
COL	COLUMN
COMB	COMBINATION
COMP	COMPRESSOR
CONC	CONCRETE, CONCENTRIC
COND	CONDENSER, CONDENSATE
CONN	CONNECTION
CONT	CONTINUOUS,CONTINUATION
CTR	CENTER
CT	COOLING TOWER
CU	COPPER
CWR	CONDENSER WATER RETURN
CWS	CONDENSER WATER SUPPLY
CWP	CONDENSER WATER PUMP

D

D	DEPTH, DRAIN, DRYER
DB	DRY BULB
DC	DIRECT CURRENT
DDC	DIRECT DIGITAL CONTROL
DDMB	DUAL DUCT MIXING BOX
DESIG	DESIGNATION
DTL	DETAIL
DIA	DIAMETER
DIFF	DIFFUSER
DIM	DIMENSION
DISC	DISCONNECT
DN	DOWN
DS	DUCTLESS SPLIT
DSCU	DUCTLESS SPLIT CONDENSING UNIT
DW	DISHWASHER
DWG	DRAWING
DX	DIRECT EXPANSION

E

EA	EACH
EAT	ENTERING AIR TEMPERATURE
EDB	ENTERING DRY BULB
EDH	ELECTRIC DUCT HEATER
EF	EXHAUST FAN
EFF	EFFICIENCY
EJ	EXPANSION JOINT
ELEC	ELECTRICAL
ELEV	ELEVATION
EMERG	EMERGENCY
ENCL	ENCLOSURE
ENGR	ENGINEER
EQ	EQUAL
EQUIP	EQUIPMENT
ESP	EXTERNAL STATIC PRESSURE
ET	EXPANSION TANK
ETR	EXISTING TO REMAIN
EVAP	EVAPORATOR
EWB	ENTERING WET BULB
EWT	ENTERING WATER TEMPERATURE
EX	EXISTING
EXT	EXTERNAL

F

F	FAHRENHEIT, FIRE
FCU	FAN COIL UNIT
FD	FLOOR DRAIN, FIRE DAMPER
FLA	FULL LOAD AMPS
FLEX	FLEXIBLE
FLR	FLOOR
FPTU	FAN POWERED TERMINAL UNIT
FT	FOOT, FEET

G

G	GAS
GA	GAUGE
GAL	GALLON
GALV	GALVANIZED
GC	GENERAL CONTRACTOR
GLV	GLOBE VALVE
GND	GROUND
GPM	GALLONS PER MINUTE
GV	GATE VALVE

H

HEX	HEAT EXCHANGER
HORIZ	HORIZONTAL
HP	HORSEPOWER
HSTAT	HUMIDISTAT
HT	HEIGHT
HTG	HEATING
HTR	HEATER
HW	HOT WATER
HWP	HEATING WATER PUMP
HWR	HOT WATER RETURN
HWS	HOT WATER SUPPLY
HZ	HERTZ

I

ID	INSIDE DIAMETER
IE	INVERT ELEVATION
IH	INFRARED HEATER
IN	INCH
INSUL	INSULATION
INT	INTERNAL, INTERIOR
INV	INVERT

J

JB	JUNCTION BOX

K

KEC	KITCHEN EQUIPMENT CONTRACTOR
KVA	KILOVOLT- AMPS
KW	KILOWATT

L

L	LENGTH
LAT	LEAVING AIR TEMPERATURE
LAV	LAVATORY
LF	LINEAR FEET
LP	LOW PRESSURE
LRA	LOCKED ROTOR AMPS
LVL	LEVEL
LWB	LEAVING WET BULB
LWT	LEAVING WATER TEMPERATURE

M

MAT	MIXED AIR TEMPERATURE
MAX	MAXIMUM
MBTUH	THOUSAND OF BTU'S
MC	MECHANICAL CONTRACTOR
MECH	MECHANICAL
MFR	MANUFACTURER
MH	MANHOLE
MIN	MINIMUM
MP	MEDIUM PRESSURE
MTD	MOUNTED
MU	MAKE-UP
MVD	MANUAL VOLUME DAMPER

N

N.C.	NORMALLY CLOSED
NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
NIC	NOT IN CONTRACT
N.O.	NORMALLY OPEN
NO.	NUMBER
NTS	NOT TO SCALE

O

OA	OUTSIDE AIR
OAF	OUTSIDE AIR FAN
OAHU	OUTSIDE AIR HANDLING UNIT
OBD	OPPOSED BLADE DAMPER
OC	ON CENTER
OD	OUTSIDE DIAMETER, OVERFLOW DRAIN
OS&Y	OPEN STEM AND YOLK

P

PG	PRESSURE GAUGE
PPM	PART PER MILLION
PRS	PRESSURE REDUCING STATION
PRV	PRESSURE REDUCING VALVE
PSF	POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH
PSIG	POUNDS PER SQUARE INCH GAUGE
PV	PLUG VALVE
PVC	POLYVINYL CHLORIDE

Q

QTY	QUANTITY

R

RA	RETURN AIR
RAD	REFRIGERATED AIR DRYER
RAF	RETURN AIR FAN
RAG	RETURN AIR GRILLE
RAT	RETURN AIR TEMPERATURE
RCP	REFLECTED CEILING PLAN
RD	ROOF DRAIN
RE	REFERENCE, REFER
RED	REDUCER
REFR	REFRIGERATOR
REG	REGISTER
REINF	REINFORCING
REQD	REQUIRED
REV	REVISION, REVISE
RH	RELATIVE HUMIDITY
RHG	REFRIGERANT HOT GAS
RL	REFRIGERANT LIQUID
RLA	RUNNING LOAD AMPS
RM	ROOM
RPM	REVOLUTIONS PER MINUTE
RS	REFRIGERANT SUCTION
RTU	ROOFTOP UNIT
RV	RELIEF VALVE

S

SA	SUPPLY AIR
SAF	SUPPLY AIR FAN
SAG	SUPPLY AIR GRILLE
SAN	SANITARY SEWER
SAR	SUPPLY AIR REGISTER
SC	STEAM CONDENSATE
SCHED	SCHEDULED
SD	STORM DRAIN
SEC	SECONDARY
SECT	SECTION
SENS	SENSIBLE
SF	SQUARE FEET
SFCS	SPRINKLER FLOOR CONTROL STATION
SH	SHOWER
SHT	SHEET
SIM	SIMILAR
SK	SINK
SM	SHEETMETAL
SP	STATIC PRESSURE, SUMP PUMP
SPEC	SPECIFICATION
SPR	SPRINKLER
SQ	SQUARE
SS	SERVICE SINK
SSSC	SOLID STATE SPEED CONTROL
STD	STANDARD
STL	STEEL
STR	STRAINER
SURF	SURFACE
SUSP	SUSPEND
SV	SANITARY VENT
SW	SOFT WATER

T

TSP	TOTAL STATIC PRESSURE
TSTAT	THERMOSTAT
TYP	TYPICAL

U

UG	UNDERGROUND
UH	UNIT HEATER

V

V	VOLT
VA	VOLT- AMPERE
VAV	VARIABLE AIR VOLUME
VD	VOLUME DAMPER
VFD	VARIABLE FREQUENCY DRIVE

W

W	WATT, WIDTH
WPD	WATER PRESSURE DROP

Z

Z	ZONE

WALL MOUNTED SENSOR TYPES

(T)	THERMOSTAT
(H)	HUMIDISTAT
(C)	CARBON DIOXIDE SENSOR
(CS)	CARBON MONOXIDE SENSOR
(N)	NITROGEN DIOXIDE SENSOR
(S)	ON/OFF SWITCH

PIPING TYPES

CD	CONDENSATE DRAIN LINE
CHS	CHILLED WATER SUPPLY
CHR	CHILLED WATER RETURN
HWS	HOT WATER SUPPLY
HWR	HOT WATER RETURN
CWS	CONDENSER WATER SUPPLY
CWR	CONDENSER WATER RETURN
REF	REFRIGERANT PIPING SIZED BY MFR.

MECHANICAL GENERAL NOTES

1. PIPING AND DUCTWORK SHOWN ON PLANS ARE SCHEMATIC ONLY. COORDINATE WITH OTHER TRADES FOR PIPING AND DUCTWORK ROUTING. OFFSET AND RUN PIPING DUCTWORK INSIDE THE STRUCTURE IF REQUIRED. PROVIDE ALL NECESSARY PIPING, DUCTWORK, FITTING, INSULATION, AND OTHER ACCESSORIES IN ORDER TO COMPLETE THE INSTALLATIONS.
2. EXACT LOCATIONS OF MECHANICAL EQUIPMENT, GRILLES, AND DAMPERS SHALL BE FIELD COORDINATED WITH OTHER TRADES TO AVOID CONFLICTS AND ALLOW ADEQUATE CLEARANCES.
3. EQUIPMENT SIZES, DIMENSIONS, AND REQUIRED CONNECTIONS SHALL BE VERIFIED WITH THE MANUFACTURER DRAWINGS AND CUTSHEETS BEFORE FABRICATING OF DUCTWORK, PIPING, OR POURING OF CONCRETE HOUSEKEEPING PADS.
4. CONTRACTOR SHALL COORDINATE WITH ELECTRICAL CONTRACTOR FOR ALL ELECTRICAL POWER REQUIREMENTS.
5. DUCT SIZES SHOWN ON PLANS ARE CLEAR INSIDE DIMENSIONS.
6. PROVIDE RECTANGULAR BRANCH DUCT TAP FOR ALL RECTANGULAR DUCT CONNECTIONS TO RECTANGULAR DUCT TRUNKS.
7. ALL MEDIUM AND LOW PRESSURE DUCTWORK AND ASSOCIATED ACCESSORIES SHALL BE CONSTRUCTED TO MEET THE LATEST SMACNA STANDARDS FOR MEDIUM AND LOW PRESSURE DUCTWORK.
8. ALL DUCTWORK SHALL BE CONSTRUCTED TO SEAL CLASS 'A' AS REFERENCED IN SMACNA STANDARDS. ALL NON-WELDED JOINTS AND SEAMS SHALL BE SEALED. THIS INCLUDES BUT IS NOT LIMITED TO TRANSVERSE JOINTS, LONGITUDINAL SEAMS, DUCT WALL PENETRATIONS, SPINJNG, TAPS, AND OTHER BRANCH CONNECTIONS, ACCESS DOORS, ACCESS PANELS, AND DUCT CONNECTIONS TO EQUIPMENT. OPENINGS FOR ROTATING SHAFTS SHALL ALSO BE SEALED WITH BUSHINGS. REFER TO SPECIFICATION 23 31 13 METAL DUCTWORK FOR FURTHER INFORMATION.
9. ALL EXPOSED DUCTWORK AND PIPING AND ASSOCIATED ACCESSORIES IN AREAS (INTERIOR & EXTERIOR) WITH NO CEILING OR PARTIAL CEILING SHALL BE PAINTED. REFER TO ARCHITECT FOR COLOR.
10. DIVISION 23 MECHANICAL CONTRACTOR SHALL COORDINATE WITH ELECTRICAL CONTRACTOR PRIOR TO ACTUAL INSTALLATION OF TEMPERATURE SENSORS AND HUMIDITY SENSORS.
11. PROVIDE REMOTE SPIN-IN DAMPER OPERATOR FOR SPIN-IN CONNECTIONS AND VOLUME DAMPERS LOCATED OVER GYPSUM CEILINGS.
12. PROVIDE AIRFOIL TYPE TURNING VANES IN ALL 90 DEGREE ELBOWS.
13. COORDINATE LOCATIONS OF FLOOR AND WALL OPENINGS WITH ARCHITECT AND STRUCTURAL ENGINEER.
14. ALL, INTERIOR AND EXTERIOR, CEILING MOUNTED AND WALL MOUNTED AIR DEVICE/TERMINAL FINISHES SHALL MATCH ADJACENT ARCHITECTURAL SURFACE. CONTRACTOR SHALL COORDINATE COLOR WITH ARCHITECT.
15. NO PIPE HANGERS SHALL BE SPACED MORE THAN 10'-0" O.C. COMPLY WITH PIPE SPACING AS SPECIFIED IN THE PIPING SUPPORT SPECIFICATIONS.
16. MECHANICAL CONTRACTOR SHALL COORDINATE EXACT LOCATIONS OF ALL OUTSIDE AIR INTAKES TO MAINTAIN 15 FEET DISTANCE BETWEEN OUTSIDE AIR INTAKES AND ANY EXHAUST AIR OUTLET, FLUES OR PLUMBING VENTS.
17. MECHANICAL CONTRACTOR SHALL COORDINATE WITH PLUMBING CONTRACTOR FOR ALL CONDENSATE DRAIN PIPES CONNECTING TO A SINK DRAIN TAIL PIECE.
18. ALL KITCHEN GREASE EXHAUST DUCTWORK SHALL BE CONTINUOUSLY WELDED 16 GA. CARBON STEEL. ALL GREASE EXHAUST DUCTS SHALL BE WRAPPED WITH 3M 2 HR. FIRE RATED WRAP OR INSTALLED WITHIN A FIRE RATED ENCLOSURE.

EMERALD MEP
TX FIRM No. F-24826
PROJECT No. 25018

PROFESSIONAL SEAL

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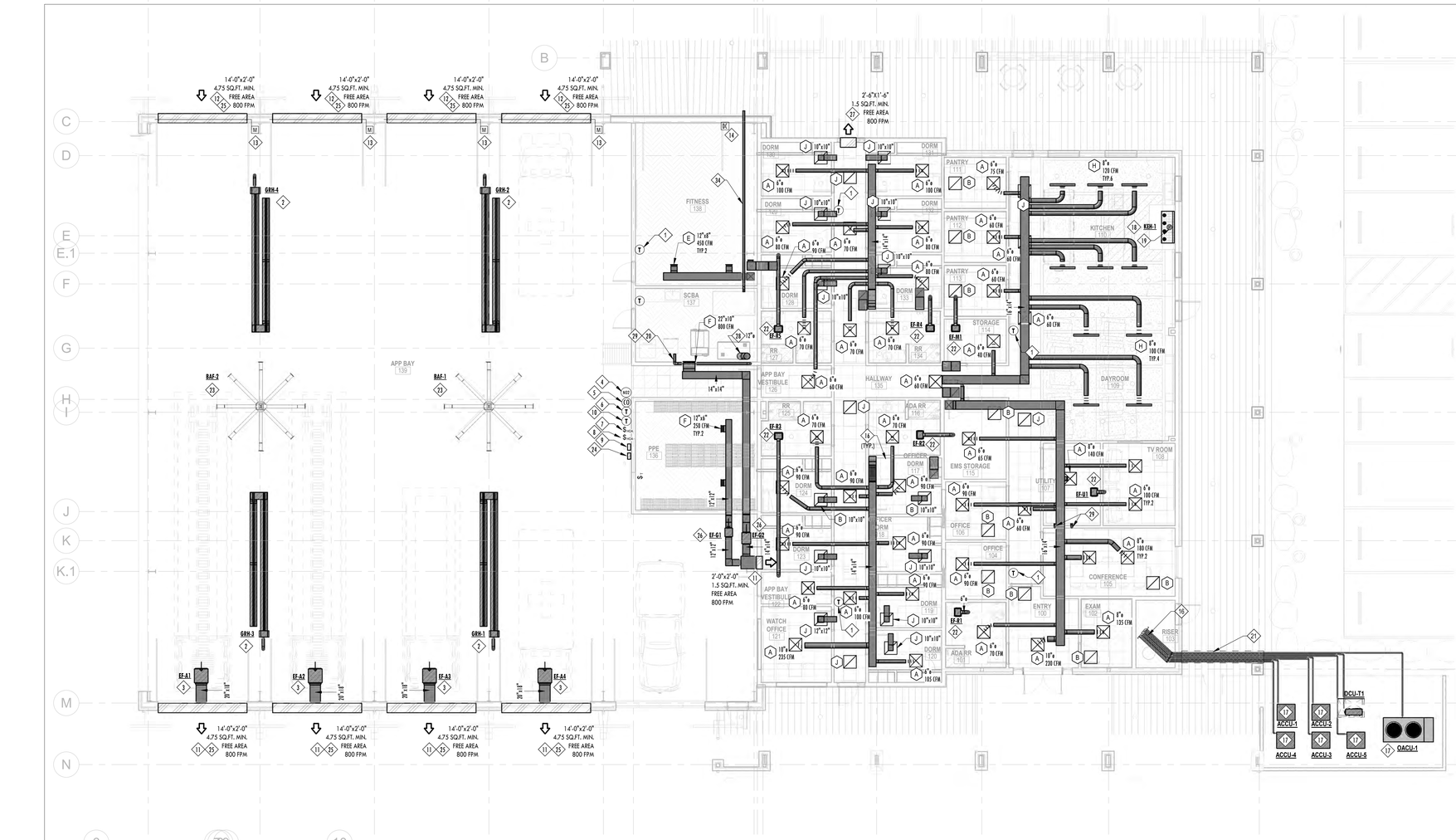
PROJECT No: **MA 25016**
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ISSUE

100% DD	06-JAN-2026
50% CD	23-FEB-2026
75% CD	06-APR-2026
98% CD	04-MAY-2026
IFP	01-JUN-2026
IFB	20-OCT-2026

MECHANICAL SYMBOLS LEGEND

M-001

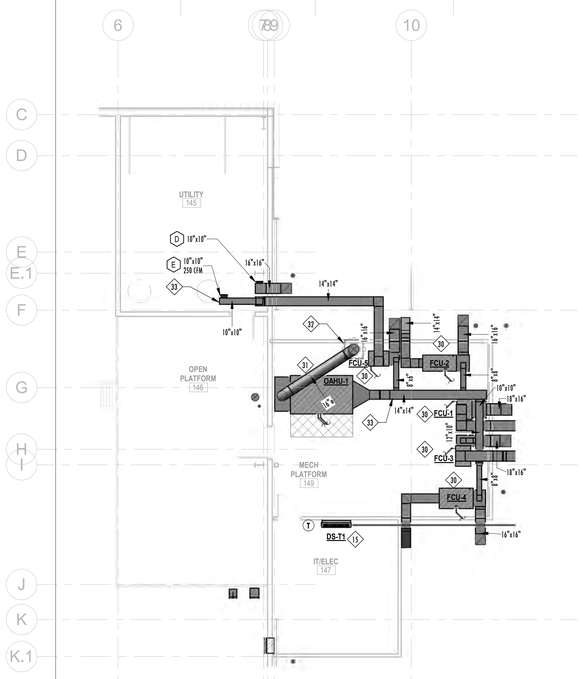


MECHANICAL KEYED NOTES:

1. PROVIDE AND LOCATE THERMOSTAT AS SHOWN. MOUNT AT SAME ELEVATION AS LIGHT SWITCHES. COORDINATE EXACT LOCATION WITH ARCHITECT.
2. PROVIDE GAS RADIANT HEATER AT APPROXIMATE LOCATION. SUSPEND HEATER FROM STRUCTURE AT ELEVATION ABOVE OVERHEAD DOOR RAILING. COORDINATE EXACT LOCATION WITH OTHER TRADES TO AVOID CONFLICTS. ROUTE 5" ROUND FLUE FROM HEATER UP THROUGH ROOF AND TERMINATE 3'-0" (MIN.) ABOVE ROOF WITH ROOF CAP. SLOPE OF FLUE SHALL NOT BE MORE THAN 45° FROM VERTICAL. INSTALL PER MANUFACTURER'S RECOMMENDATIONS.
3. PROVIDE INLINE EXHAUST FAN AS SCHEDULED, SUSPENDED FROM STRUCTURE ABOVE, AT APPROXIMATE LOCATION. INSTALL PER MANUFACTURER'S SPECIFICATION. COORDINATE EXACT LOCATION WITH ARCHITECT. PROVIDE TRANSITIONS AS REQUIRED. COVER INLET OF FAN WITH HARDWARE CLOTH.
4. PROVIDE NO2 (NITROGEN DIOXIDE) DETECTOR, AIRTEST MODEL 'TR-3210', AT 1'-0" ABOVE FINISHED FLOOR. EXHAUST FANS (EF-A1 & EF-A3) SHALL ENERGIZE UPON DETECTION OF NO2 AT CONCENTRATION OF 1 PPM. VISUAL AND AUDIBLE ALARM SHALL SIGNAL UPON NO2 CONCENTRATION OF 3 PPM. INSTALL AND CALIBRATE PER MANUFACTURER'S RECOMMENDATIONS. PROVIDE WITH CALIBRATION GAS KIT AND GUARD. CALIBRATION TO BE PERFORMED ANNUALLY.
5. PROVIDE CO (CARBON MONOXIDE) DETECTOR, AIRTEST MODEL 'TR-2000', AT 5'-0" ABOVE FINISHED FLOOR. EXHAUST FANS (EF-A1 & EF-A3) SHALL ENERGIZE UPON DETECTION OF CO AT CONCENTRATION OF 50 PPM. VISUAL AND AUDIBLE ALARM SHALL SIGNAL UPON DETECTION OF CO AT CONCENTRATION OF 100 PPM. INSTALL AND CALIBRATE PER MANUFACTURER'S RECOMMENDATIONS. PROVIDE WITH CALIBRATION GAS KIT AND GUARD. CALIBRATION TO BE PERFORMED ANNUALLY.
6. PROVIDE THERMOSTAT FOR EXHAUST FANS (EF-A2 & EF-A4) AT APPROXIMATE LOCATION SHOWN AT SAME ELEVATION AS LIGHT SWITCHES. COORDINATE WITH ARCHITECT PRIOR TO CONSTRUCTION TO AVOID CONFLICT.
7. PROVIDE HOA (HAND/OFF/AUTO) SWITCH FOR EXHAUST FANS (EF-A2 & EF-A4) AT APPROXIMATE LOCATION SHOWN AT SAME ELEVATION AS LIGHT SWITCHES. FANS (EF-A2 & EF-A4) SHALL ENERGIZE ON 'AUTO' POSITION UPON DETECTION OF CO/NO2 CONCENTRATIONS ABOVE ASSOCIATED HIGH LIMITS OR WHEN TEMPERATURE EXCEEDS 85°F (ADJ.).
8. PROVIDE HOA (HAND/OFF/AUTO) SWITCH FOR EXHAUST FANS (EF-A1 & EF-A3) AT APPROXIMATE LOCATION SHOWN AT SAME ELEVATION AS LIGHT SWITCHES. FANS (EF-A1 & EF-A3) SHALL RUN (LOW SPEED) CONTINUOUSLY ON 'AUTO' POSITION, AND INCREASE TO FULL SPEED UPON DETECTION OF CO/NO2 CONCENTRATIONS ABOVE ASSOCIATED HIGH LIMITS OR WHEN SIGNAL IS PROVIDED BY ALERTING SYSTEM. FAN SHALL RUN FOR 15 MINUTES (ADJ.) UPON ACTIVATION BY ALERTING SYSTEM.
9. PROVIDE GAS DETECTION SYSTEM CONTROLLER AIRTEST MODEL CT-2100 AND INSTALL ABOVE CO SENSOR. PROVIDE 120-VOLT TO 24-VOLT (LOW VOLTAGE) TRANSFORMER AS NEEDED FOR POWER.
10. TIE GAS UNIT HEATERS (GUH-1-4) TOGETHER AND LOCATE THERMOSTAT ON WALL AS SHOWN. MOUNT AT SAME ELEVATION AS LIGHT SWITCHES THERMOSTAT SHALL ENERGIZE HEATER TO MAINTAIN TEMPERATURE AT 60°F (ADJUSTABLE).
11. PROVIDE RUSKIN HZ700 EXHAUST AIR LOUVER WITH DIMENSIONS AND FREE AREA AS INDICATED. EXHAUST LOUVER SHALL BE PROVIDED WITH A MINIMUM OF 18" DEEP PLENUM, FULL SIZE IN WIDTH AND HEIGHT OF LOUVER UNLESS NOTED OTHERWISE. UNUSED PORTIONS OF LOUVER SHALL BE COVERED WITH RUSKIN BLANK-OFF PANELS. COORDINATE LOUVER AND PANEL FINISHES WITH ARCHITECT.
12. PROVIDE RUSKIN HZ700 INTAKE AIR LOUVER WITH A FREE AREA AS INDICATED. COORDINATE EXACT LOUVER DIMENSIONS, LOCATION, AND FINISH WITH ARCHITECT. INTAKE LOUVER SHALL BE PROVIDED WITH A MINIMUM OF 18" DEEP PLENUM, FULL SIZE IN WIDTH AND HEIGHT OF LOUVER UNLESS NOTED OTHERWISE. INTAKE LOUVER SHALL BE INSTALLED A MINIMUM OF 10'-0" FROM EXHAUST OUT OF BUILDING. UNUSED PORTIONS OF LOUVER SHALL BE COVERED WITH RUSKIN BLANK-OFF PANELS. COORDINATE LOUVER AND PANEL FINISHES WITH ARCHITECT.
13. INTERLOCK MOTORIZED DAMPER WITH ASSOCIATED EXHAUST FANS SUCH THAT DAMPER SHALL BE OPEN WHEN FANS ARE ENERGIZED AND SHUT WHEN FANS ARE DE-ENERGIZED.
14. PROVIDE DOOR CONTACT FOR OVERHEAD DOOR. INTERLOCK WITH ASSOCIATED FAN COIL UNIT TO DISABLE UNIT WHEN DOOR IS OPEN AND ENABLE UNIT WHEN DOOR IS CLOSED.
15. PROVIDE NEW DUCTLESS FAN COIL UNIT AS SCHEDULED. MOUNT ABOVE DOOR HEIGHT FROM WALL STRUCTURE. PROVIDE ALL CLEARANCES AND ACCESS AS RECOMMENDED BY MANUFACTURER. ROUTE 3/4"Ø CONDENSATE TO LAVATORY Y-TAIL PIECE.
16. ROUTE REFRIGERANT PIPING THROUGH FOUNDATION PIPE CORRIDOR INTO BUILDING, UP ABOVE CEILING HEIGHT, TO ASSOCIATED INDOOR UNIT. PROVIDE DIRECT ROUTE TO ASSOCIATED INDOOR UNIT, UTILIZING MINIMUM AMOUNT OF ELBOWS AND NOT EXCEEDING MANUFACTURER'S MAXIMUM LINE LENGTHS. SIZE LINES PER MANUFACTURER'S RECOMMENDATIONS.
17. PROVIDE OUTDOOR CONDENSING UNIT WITH CONCRETE HOUSEKEEPING PAD THAT EXTENDS 6" FROM UNIT ON ALL SIDES. INSTALL PER MANUFACTURER'S RECOMMENDATIONS, PROVIDE REQUIRED CLEARANCES.
18. PROVIDE CAPTIVEAIRE WRH-48 UL507 HOOD WITH INTEGRAL EXHAUST FAN AND CORE FIRE SUPPRESSION. PROVIDE WITH FULL HEIGHT (TOP OF HOOD TO CEILING) STAINLESS STEEL WRAPPER . COORDINATE FINAL CORE NOZZLE QUANTITIES AND LOCATIONS WITH ASSOCIATED KITCHEN RANGE PURCHASED BY CONTRACTOR/OWNER AND CAPTIVEAIRE. COORDINATE GAS VALVE INSTALLATION, POWER REQUIREMENTS, AND ROUGH-INS NEEDED FOR EQUIPMENT AND ALL ACCESSORIES (PULL STATION, POWER, ETC.) WITH OTHER TRADES PRIOR TO WALLS CLOSING.
19. CONNECT 10"Ø RIGID DOMESTIC RANGE HOOD EXHAUST DUCT, SIZED TO MATCH HOOD CONNECTION, TO HOOD AND DUCT TO ROOF CAP; PROVIDE TRANSITIONS AS REQUIRED. PROVIDE ROOF CAP BY FAMCO 'AVEBA' OR EQUIVALENT. WRAP DUCT AND LOUVER PLENUM WITH 3M 2-HR RATED FIRE WRAP (MODEL 615+ OR APPROVED EQUAL). INSTALL PER RANGE HOOD MANUFACTURER'S RECOMMENDATIONS.
20. PROVIDE FANTECH MODEL 'DBT-110' BOOSTER FAN AND LINT TRAP MODEL 'DBLT'. COORDINATE FINAL ROUTING WITH STRUCTURE. PROVIDE TRANSITIONS AS REQUIRED.
21. ROUTE REFRIGERANT PIPING THROUGH FOUNDATION PIPE CORRIDOR INTO RISER, AVOIDING P-TRAP BENDS. PIPE CORRIDOR SHALL BE PROVIDED WITH REMOVABLE PANELS, RE: ARCHITECTURE.
22. PROVIDE CEILING MOUNTED EXHAUST FAN AT APPROXIMATE LOCATION SHOWN, SUSPEND FROM STRUCTURE ABOVE. TIE INTO DEDICATED WALL SWITCH (COORDINATE WITH ELECTRICAL CONTRACTOR); ROUTE EXHAUST DUCT TO GREENHECK ROOF CAP. MAINTAIN 10'-0" MINIMUM DISTANCE FROM HVAC INTAKE AND/OR BUILDING OPENINGS.
23. PROVIDE HVLS FAN AS SCHEDULED AND INDICATED ON PLANS. THE FAN BLADES MUST BE A MINIMUM DISTANCE OF 3' IN ANY DIRECTION FROM ANY OBSTACLES (CEILING DECK, MAJOR STRUCTURAL OBSTRUCTIONS, LIGHT GRID). COORDINATE HVLS FAN INSTALLATION WITH GARAGE DOORS, HEATERS, LIGHTS AND OTHER BUILDING COMPONENTS. TIE HVLS FAN TO FIRE ALARM SYSTEMS RELAY TO DISABLE HVLS IF ALARM IS ACTIVATED.
24. PROVIDE WIRED BAF 'BAFCON' CONTROLLER AT APPROXIMATE LOCATION. COORDINATE FINAL LOCATION WITH ARCHITECT AND OTHER TRADES.
25. LOUVER SHALL SPAN ENTIRE WIDTH (14'-0") OF APPARATUS BAY DOOR AND HEIGHT (2'-0") PER ARCHITECTURAL. PROVIDE LOUVER IN SECTIONS AS DETAILED BY ARCHITECTURAL ELEVATIONS. COORDINATE FINAL LOUVER DIMENSIONS WITH ARCHITECT, ARCHITECTURAL PLANS/DETAILS/ELEVATIONS, BUILDING STRUCTURE, AND APPARATUS BAY DOOR FRAMING. FREE AREA INDICATED IS FOR ACTIVE PORTION (UTILIZED FOR VENTILATION) OF LOUVER.
26. PROVIDE INLINE EXHAUST FAN AS SCHEDULED, SUSPENDED FROM STRUCTURE ABOVE, AT APPROXIMATE LOCATION. INSTALL PER MANUFACTURER'S SPECIFICATION. PROVIDE TRANSITIONS AT INLET AND OUTLET AS REQUIRED TO MAKE DUCTWORK CONNECTIONS. MAINTAIN 10'-0" MINIMUM DISTANCE FROM HVAC INTAKE AND/OR BUILDING OPENINGS.
27. PROVIDE RUSKIN HZ700 RELIEF AIR LOUVER WITH DIMENSIONS AND FREE AREA AS INDICATED. RELIEF LOUVER SHALL BE PROVIDED WITH A MINIMUM OF 18" DEEP PLENUM, FULL SIZE IN WIDTH AND HEIGHT OF LOUVER UNLESS NOTED OTHERWISE. PROVIDE WITH BAROMETRIC DAMPER; PLENUM SHALL BE EXTENDED AS NEEDED FOR INSTALLATION OF RELIEF DAMPER. COORDINATE LOUVER FINISH WITH ARCHITECT.
28. PROVIDE RIGID METAL EXHAUST DUCT, CONNECT TO DRYER CABINET EXHAUST OPENING AND ROUTE TO WALL CAP. PROVIDE INSECT SCREEN AND TRANSITIONS AS REQUIRED. INSTALL PER DRYER CABINET MANUFACTURER'S RECOMMENDATIONS.
29. ROUTE 4"Ø RIGID METAL DRYER EXHAUST DUCT UP THROUGH ROOF. PROVIDE TRANSITIONS AS REQUIRED. TERMINATE TO ROOF CAP.
30. PROVIDE NEW FAN COIL UNIT AS SCHEDULED; SUPPORT FROM FLOOR STRUCTURE. PROVIDE FIELD FABRICATED FULL-SIZED MIXING PLENUM BOX AT INTAKE END AND FLEXIBLE CONNECTION AT UNIT DISCHARGE. PROVIDE ALL CLEARANCES AND ACCESS AS RECOMMENDED BY MANUFACTURER. ROUTE 5" FLUE UP THROUGH ROOF. PROVIDE 3/4"Ø CONDENSATE AND ROUTE TO FLOOR DRAIN.
31. PROVIDE NEW HORIZONTAL OUTDOOR AIR HANDLING UNIT AS SCHEDULED; SUPPORT FROM FLOOR STRUCTURE. PROVIDE FIELD FABRICATED FULL-SIZED PLENUM BOX AT INTAKE END AND FLEXIBLE CONNECTION AT UNIT DISCHARGE. PROVIDE ALL CLEARANCES AND ACCESS AS RECOMMENDED BY MANUFACTURER. PROVIDE 3/4"Ø CONDENSATE AND ROUTE TO NEAREST FLOOR DRAIN.
32. PROVIDE 18" DIAMETER GRAVITY INTAKE HOOD, GREENHECK MODEL 'GRSI-18' OR EQUAL. PROVIDE AND COORDINATE FACTORY FINISH COLOR WITH ARCHITECT. PROVIDE WITH 14" HIGH INSULATED ROOF CURB DIMENSIONED FOR SLOPE OF ROOF. COORDINATE FINAL LOCATION WITH STRUCTURE AND OTHER TRADES TO PROVIDE 10' MINIMUM DISTANCE FROM EXHAUST/VENT OPENINGS.
33. ROUTE DUCT HIGH UP ABOVE DOOR OPENING ELEVATION.
34. PROVIDE SCBA COMPRESSOR AIR INTAKE, SIZE AND INSTALL PER MANUFACTURER'S RECOMMENDATIONS. COORDINATE FINAL ELEVATION AND LOCATION WITH OWNER.

1 MECHANICAL PLAN - LEVEL ONE

1/8" = 1'-0"



2 MECHANICAL PLAN - MEZZANINE

1/8" = 1'-0"

EMERALD MEP

TX FIRM No. F-24826
PROJECT No. 25018

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Alerting
WestNET

STATION #42

Hays County ESD #4

Wimberley, TX 78676

PROJECT No: **MA 25016**
DATE: **20-OCT-2026**

ISSUE

100% DD	06-JAN-2026
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75% CD	06-APR-2026
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IFB	20-OCT-2026

MECHANICAL PLANS

M-201

FAN COIL UNIT SCHEDULE (GAS HEAT)

MARK	SERVES	FAN				COOLING					HEATING (LP GAS)				ELECTRICAL				MANUFACTURER	MODEL	WEIGHT	COMMENTS
		SA CFM	OA CFM	FAN HP	ESP (IN-WG)	EAT°F (DB/WB)	LAT°F (DB/WB)	SENS MBH	TOTAL MBH	REFR. TYPE	HTG EAT°F	HTG LAT°F	HTG INPUT MBH	HTG MBH	VOLTAGE	PHASE	MCA	MOCP				
FCU-1	KITCHEN/DAY RM	1475 CFM	400 CFM	0.75	0.7	75 / 63	54.2 / 52.9	44	52	R-454B	64 °F	90 °F	80	48	208 V	1	9 A	15 A	BOSCH	RL18080C16MPS1 + CTM48C5CFS1	300.00 lb	ALL
FCU-2	DORMS	1200 CFM	200 CFM	0.75	0.7	74 / 62	54.0 / 51.9	30	41	R-454B	64 °F	90 °F	80	48	208 V	1	9 A	15 A	BOSCH	RL18060C16MPS1 + CTM42C5CES1	300.00 lb	ALL
FCU-3	ENTRY / OFFICES	1500 CFM	200 CFM	0.75	0.7	75 / 63	54.2 / 52.9	40	48	R-454B	64 °F	90 °F	80	48	208 V	1	9 A	15 A	BOSCH	RL18080C16MPS1 + CTM48C5CFS1	300.00 lb	ALL
FCU-4	DORMS	1200 CFM	200 CFM	0.75	0.7	75 / 63	54.2 / 52.9	30	41	R-454B	64 °F	90 °F	80	48	208 V	1	9 A	15 A	BOSCH	RL18060C16MPS1 + CTM42C5CES1	300.00 lb	ALL
FCU-5	FITNESS	1450 CFM	50 CFM	0.75	0.7	75 / 63	54.2 / 52.9	40	48	R-454B	64 °F	90 °F	80	48	208 V	1	9 A	15 A	BOSCH	RL18080C16MPS1 + CTM48C5CFS1	300.00 lb	ALL

FAN COIL UNIT SCHEDULE NOTES:
1. EXTERNAL STATIC PRESSURE DOES NOT ACCOUNT FOR LOSSES DUE TO COIL(S), FILTERS, HOUSING, NOR ACCESSORIES.
2. PROVIDE UNIT WITH VERTICAL DISCHARGE AND FIELD FABRICATED MIXING PLENUM BOX.
3. PROVIDE FILTERS W.I.L MINIMUM EFFICIENCY OF MERV 8.
4. PROVIDE 1" FOAM INSULATION.
5. PROVIDE WITH LP GAS KIT.
6. PROVIDE TIME DELAY RELAY FOR EACH FAN COIL UNIT TO ALLOW START UP OF UNITS IN 30 SECOND INTERVALS AFTER POWER LOSS EVENT.
7. PROVIDE RELAY TO FIRE ALARM SYSTEM. RELAY SHALL SHUT OFF UNIT UPON FIRE ALARM ACTIVATION.

CONDENSING UNIT SCHEDULE

MARK	SERVES	COOLING		NO. OF STAGES	SEER2 (AHRI)	ELECTRICAL				MANUFACTURER	MODEL	WEIGHT	COMMENTS
		TOTAL MBH	REFR. TYPE			VOLTAGE	PHASE	MCA	MOCP				
ACCU-1	FCU-1	48	R454B	2	13.75	208 V	1	29.3 A	50 A	BOSCH	RC348E2S11	300.00 lb	ALL
ACCU-2	FCU-2	36	R454B	2	14	208 V	1	19.2 A	30 A	BOSCH	RC342E2S11	300.00 lb	ALL
ACCU-3	FCU-3	48	R454B	2	13.75	208 V	1	29.0 A	50 A	BOSCH	RC348E2S11	300.00 lb	ALL
ACCU-4	FCU-4	48	R454B	2	14	208 V	1	19.2 A	30 A	BOSCH	RC348E2S11	300.00 lb	ALL
ACCU-5	FCU-5	48	R454B	2	13.75	208 V	1	29.0 A	50 A	BOSCH	RC348E2S11	300.00 lb	ALL

CONDENSING UNIT SCHEDULE NOTES:
1. PROVIDE WITH WEATHERPROOF DISCONNECT SWITCH. COORDINATE WITH DIVISION 26.
2. ROUTE AND SIZE REFRIGERANT PIPING IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
3. PROVIDE SUCTION PRESSURE TRANSDUCER.
4. INSTALL AND PROVIDE ALL CLEARANCES REQUIRED PER MANUFACTURER'S RECOMMENDATIONS.
5. PROVIDE TIME DELAY RELAY FOR EACH CONDENSING UNIT TO ALLOW START UP OF UNITS IN 10 SECOND INTERVALS AFTER POWER LOSS EVENT.
6. PROVIDE 2 STAGE COMPRESSORS, 5 YEAR PARTS (INCLUDING COMPRESSOR) AND LABOR WARRANTY.

100% OUTSIDE AIR HANDLING UNIT SCHEDULE

MARK	SERVES	FAN				COOLING					HOT GAS REHEAT CAPACITY (MBH)	HGRH LAT°F	HEATING				ELECTRICAL				MANUFACTURER	MODEL	WEIGHT (LBS)	COMMENTS
		SA CFM	OA CFM	FAN ECM HP	ESP (IN-WG)	EAT°F (DB/WB)	LAT°F (DB/WB)	SENS MBH	TOTAL MBH	REFR. TYPE			HTG EAT°F	HTG LAT°F	HTG KW	HTG STAGES	VOLTAGE	PHASE	MCA	MOCP				
OAHU-1	OA	1000 CFM	1000 CFM	1	0.7	98 / 85	51.9 / 51.7	47	116	R-454B	22.8	75 / 61	35 °F	68 °F	10.5 kW	2	208 V	3	43.0 A	45 A	AAON	H3-CRB	1020.00 lb	ALL

100%OAHU & CONDENSING UNIT SCHEDULE NOTES:
1. EXTERNAL STATIC PRESSURE DOES NOT ACCOUNT FOR LOSSES DUE TO COIL(S), FILTERS, HOUSING, NOR ACCESSORIES.
2. PROVIDE UNIT WITH MODULATING HOT GAS REHEAT COIL.
3. PROVIDE UNIT WITH FACTORY HAIL GUARDS, HINGED PANELS, AND 1" INSULATED 18" ROOF CURB.
4. PROVIDE 65K SHORT CIRCUIT CURRENT RATING, FACTORY MOUNTED REFRIGERANT LEAK DETECTION.
5. UNIT MANUFACTURER TO PROVIDE DEDICATED TOUCH SCREEN CONTROLLER. CONTROLLER SHALL BE ABLE TO STAGE THE COMPRESSOR TO MEET 52°F (ADJ.) COIL LEAVING AIR TEMPERATURE. UNIT SHALL BE PROVIDED WITH MODULATING HOT GAS REHEAT COIL. CONTROLLER SHALL BE ABLE TO REHEAT LEAVING AIR TEMPERATURE TO 75°F (ADJ.).
6. PROVIDE DIRECT DRIVE ECM SUPPLY FAN WITH FACTOR INSTALLED AND WIRED CONDENSATE OVERFLOW SWITCH.
7. PROVIDE 2" DOUBLE WALL R-16 FOAM INJECTION INSULATION
8. PROVIDE FACTORY INSTALLED PHASE/VOLTAGE MONITOR.
9. PROVIDE WITH 2" MERV 8 AND 4" MERV 13 FILTERS.
10. PROVIDE TIME DELAY RELAY FOR EACH FAN COIL UNIT TO ALLOW START UP OF UNITS IN 30 SECOND INTERVALS AFTER POWER LOSS EVENT.
11. PROVIDE RELAY TO FIRE ALARM SYSTEM. RELAY SHALL SHUT OFF UNIT UPON FIRE ALARM ACTIVATION.
12. PROVIDE ECM CONDENSER FAN WITH HEAD PRESSURE CONTROL.
13. PROVIDE 10%-100% VARIABLE CAPACITY SCROLL COMPRESSORS, 5 YEAR PARTS (INCLUDING COMPRESSOR) AND LABOR WARRANTY.

100% OA CONDENSING UNIT SCHEDULE

MARK	SERVES	COOLING				ELECTRICAL				MANUFACTURER	MODEL	WEIGHT	COMMENTS
		TOTAL MBH	REFR. TYPE	NO. OF STAGES	ISMRE2	VOLTAGE	PHASE	MCA	MOCP				
OACU-1	OAHU-1	116.8	R454B	2	6.2	208 V	3	42 A	50 A	AAON	CFA-011	1100.0 lb	ALL

DUCTLESS SPLIT SYSTEM SCHEDULE

MARK	SERVES	INDOOR UNIT				OUTDOOR UNIT							COMMENTS
		FAN CAPACITY (CFM)	COOLING CAPACITY (BTU)	MCA	MODEL	MARK	MCA	MOCP	SEER (AHRI)	VOLTS, PH, HZ	MODEL NUMBER	MANUFACTURER	
DS-T1	IT	635-705-775	24000	Power From Outdoor	PKA-A24HA	DSCU-3	18.0 A	30 A	17	208/230, 1, 60	PUZ-A24NHA3	Mitsubishi Electric	ALL

DUCTLESS SPLIT SYSTEM SCHEDULE NOTES:
1. PROVIDE WITH SINGLE POINT POWER CONNECTION TO INCLUDE CONDENSING UNIT AND REMOTE THERMOSTAT. INDOOR UNIT SHALL BE POWERED FROM OUTDOOR UNIT.
2. INSTALL PER MANUFACTURER'S SPECIFICATIONS.
3. REFRIGERANT LINES TO BE SIZED BY MANUFACTURER.
4. PROVIDE LITTLE GIANT CONDENSATE PUMP MODEL VCMA-15ULS.
5. PROVIDE TIME DELAY RELAY FOR THE CONDENSING UNIT TO ALLOW START UP OF UNITS 30 SECONDS AFTER POWER LOSS EVENT.

GAS RADIANT HEATER SCHEDULE

MARK	SERVES	HEAT GAIN (LOW FIRE)	HEAT GAIN (HIGH FIRE)	GAS TYPE	VOLTAGE	MCA	PHASE	MANUFACTURER	MODEL	COMMENTS
GRH-1	APPARATUS BAY	50000.0 Btu/h	65000.0 Btu/h	NATURAL GAS	120 V	5 A	1	Detroit Radiant Products Company	HL3-40-65	ALL
GRH-2	APPARATUS BAY	50000.0 Btu/h	65000.0 Btu/h	NATURAL GAS	120 V	5 A	1	Detroit Radiant Products Company	HL3-40-65	ALL
GRH-3	APPARATUS BAY	50000.0 Btu/h	65000.0 Btu/h	NATURAL GAS	120 V	5 A	1	Detroit Radiant Products Company	HL3-40-65	ALL
GRH-4	APPARATUS BAY	50000.0 Btu/h	65000.0 Btu/h	NATURAL GAS	120 V	5 A	1	Detroit Radiant Products Company	HL3-40-65	ALL

GAS RADIANT HEATER SCHEDULE NOTES:
1. PROVIDE 120-VOLT WALL-MOUNTED 3-POSITION SWITCH WITH LOCKING COVER, LOW VOLTAGE CONTROL TRANSFORMER, UNIVERSAL WALL AND CEILING MOUNTED BRACKET, AUTOMATIC RESET THERMAL CUT-OUT, AND DISCONNECT SWITCH.
2. PROVIDE WITH TWO-STAGE HEATING.
3. PROVIDE WITH OUTDOOR COMBUSTION AIR INLET KIT.
4. PROVIDE WITH EXHAUST VENT KIT.

INLINE FAN SCHEDULE

MARK	SERVES	DESCRIPTION	CFM	FAN RPM	FAN HP	VOLTAGE	PHASE	MANUFACTURER	MODEL	WEIGHT	COMMENTS
EF-A1	APPARATUS BAY	Direct Drive Inline	3875 CFM	1300	2.00	208 V	1	Greenheck	SQ-160-VG	200.00 lb	1
EF-A2	APPARATUS BAY	Direct Drive Inline	3875 CFM	1300	2.00	208 V	1	Greenheck	SQ-160-VG	200.00 lb	1
EF-A3	APPARATUS BAY	Direct Drive Inline	3875 CFM	1300	2.00	208 V	1	Greenheck	SQ-160-VG	200.00 lb	1
EF-A4	APPARATUS BAY	Direct Drive Inline	3875 CFM	1300	2.00	208 V	1	Greenheck	SQ-160-VG	200.00 lb	1
EF-G1	PPE	Direct Drive Inline	500 CFM	1725	0.17	115 V	1	Greenheck	SQ-95-VG	60.00 lb	1, 2
EF-G2	CASCADE	Direct Drive Inline	800 CFM	1725	0.25	115 V	1	Greenheck	SQ-100-VG	60.00 lb	1, 3

INLINE FAN SCHEDULE NOTES:
1. PROVIDE FAN WITH MOTOR RATED TOGGLE SWITCH AND BACKDRAFT DAMPER.
2. INTERLOCK FAN TO WALL TIMER SWITCH LOCATED NEAR LIGHT SWITCH IN ASSOCIATED ROOM. COORDINATE WITH DIVISION 26.
3. FAN SHALL BE INTERLOCKED WITH WALL MOUNTED THERMOSTAT TO ENERGIZE WHEN SPACE TEMPERATURE REACHES 80°F (ADJ.).

CEILING EXHAUST FAN SCHEDULE

MARK	SERVES	DESCRIPTION	CFM	FAN RPM	WATTS	VOLTAGE	PHASE	MANUFACTURER	MODEL	WEIGHT	COMMENTS
EF-M1	RESTROOM	Ceiling Exhaust Fan	100 CFM	960	12 W	115 V	1	Greenheck	SP-A90-130-VG	12.00 lb	1, 2
EF-R1	RESTROOM	Ceiling Exhaust Fan	100 CFM	960	12 W	115 V	1	Greenheck	SP-A90-130-VG	12.00 lb	1, 2
EF-R2	RESTROOM	Ceiling Exhaust Fan	100 CFM	960	12 W	115 V	1	Greenheck	SP-A90-130-VG	12.00 lb	1, 2
EF-R3	RESTROOM	Ceiling Exhaust Fan	100 CFM	960	12 W	115 V	1	Greenheck	SP-A90-130-VG	12.00 lb	1, 2
EF-R4	RESTROOM	Ceiling Exhaust Fan	100 CFM	960	12 W	115 V	1	Greenheck	SP-A90-130-VG	12.00 lb	1, 2
EF-R5	RESTROOM	Ceiling Exhaust Fan	100 CFM	960	12 W	115 V	1	Greenheck	SP-A90-130-VG	12.00 lb	1, 2
EF-U1	RESTROOM	Ceiling Exhaust Fan	100 CFM	960	12 W	115 V	1	Greenheck	SP-A90-130-VG	12.00 lb	1, 2

CEILING FAN SCHEDULE NOTES:
1. PROVIDE FAN WITH MOTOR RATED TOGGLE SWITCH, BACKDRAFT DAMPER, AND GREENHECK 'RCC-7' ROOF CAP AND ROOF CURB.
2. INTERLOCK FAN TO WALL SWITCH LOCATED NEAR LIGHT SWITCH IN ASSOCIATED ROOM. COORDINATE WITH DIVISION 26.

ELECTRIC UNIT HEATER SCHEDULE

MARK	SERVES	CAPACITY (KW)	VOLTAGE	PHASE	WEIGHT	MANUFACTURER	MODEL	COMMENTS
EUH-P1	GEAR	5	208 V	1	60.00 lb	QMARK	MUH	ALL

EUH SCHEDULE NOTES:
1. PROVIDE WALL-MOUNTED THERMOSTAT, LOW VOLTAGE CONTROL TRANSFORMER, UNIVERSAL WALL AND CEILING MOUNTED BRACKET, AUTOMATIC RESET THERMAL CUT-OUT, ADJUSTABLE DISCHARGE LOUVER, REMOTE SUMMER FAN SWITCH, FAN DELAY, AND DISCONNECT SWITCH.
2. PROVIDE ALL CLEARANCES AS RECOMMENDED BY MANUFACTURER.

AIR TERMINAL SCHEDULE

MARK	MANUFACTURER	MODEL	TYPE COMMENTS	DESCRIPTION
A	TITUS	TMS-AA	24"X24" LOUVERED FACE SUPPLY AIR DIFFUSER	24"X24" FACE, ALUMINUM CONSTRUCTION WITH FRAME FOR ASSOCIATED CEILING TYPE.
B	TITUS	PAR-AA	24"X24" PERFORATED FACE RETURN/EXHAUST AIR GRILLE	24"x24" FACE, ALUMINUM CONSTRUCTION WITH FRAME FOR ASSOCIATE CEILING TYPE. PROVIDE 22"x22" NECK UNLESS OTHERWISE NOTED. PROVIDE O.B.D. FOR DUCTED EXHAUST.
E	TITUS	300FL	SIDEWALL SUPPLY AIR GRILLE	ALUMINUM CONSTRUCTION WITH FRAME FOR SURFACE MOUNT. 3/4" BLADE SPACING, DOUBLE DEFLECTION WITH FRONT BLADES PARALLEL TO LONG DIMENSION. PROVIDE O.B.D.
F	TITUS	350FL	SIDEWALL RETURN AIR GRILLE	ALUMINUM CONSTRUCTION WITH FRAME FOR SURFACE MOUNT. 3/4" BLADE SPACING, 35° DEFLECTION WITH BLADES PARALLEL TO LONG DIMENSION. PROVIDE O.B.D. FOR DUCTED EXHAUST.
H	TITUS	FL-10-HT	HIGH THROW SUPPLY AIR FLOW BAR	ALUMINUM CONSTRUCTION; PROVIDE PATTERN CONTROLLERS ENTIRE LENGTH OF SLOT; PROVIDE 4 FT EXTERNALLY INSULATED PLENUM; CONNECT PLENUM TO NECK OF SLOT DIFFUSER; PROVIDE ROUND INLET SIZED AS INDICATED ON PLAN; PROVIDE BORDER TYPE 22. PROVIDE REMOTE DAMPER OPERATOR WHEN LOCATED ABOVE INACCESSIBLE CEILINGS.
J	TITUS	45F	24"X24" SITE PROOF EGGCRATE RETURN AIR GRILLE	24"x24" FACE, EGGCRATE CORE AT 45°F DEFLECTION ANGLE, ALUMINUM CONSTRUCTION WITH FRAME FOR ASSOCIATED CEILING TYPE. PROVIDE 22"x22" NECK UNLESS OTHERWISE NOTED. PROVIDE WITH RETURN AIR BOOT AT GRILLE.

AIR TERMINAL SCHEDULE NOTES:
1. INSULATE BACK-PAN OF ALL DEVICES.
2. PROVIDE FRAME TO MATCH CEILING TYPE INDICATED ON ARCHITECT'S REFLECTED CEILING PLAN.
3. PAINT INTERIOR SURFACES OF DUCTWORK VISIBLE FROM FACE OF RETURN AIR GRILLED FLAT BLACK.
4. REFER TO ARCHITECTURAL DRAWINGS FOR FINISH.
5. REFER TO MECHANICAL PLAN FOR NECK SIZES.

HVLS FAN SCHEDULE

MARK	SERVES	DIAMETER	WEIGHT (LBS)	MAX SPEED (RPM)	INPUT POWER (V/PH/HZ)	BREAKER (AMPS)	MOTOR HP	MANUFACTURER	MODEL	COMMENTS
BAF-1	APPARATUS BAY	14'-0"	300	118 RPM	208 / 3 / 60	20A	1.5 HP	Big Ass Fans	Powerfoil X3.0	ALL
BAF-2	APPARATUS BAY	14'-0"	300	118 RPM	208 / 3 / 60	20A	1.5 HP	Big Ass Fans	Powerfoil X3.0	ALL

HVLS FAN SCHEDULE NOTES:
1. FAN SHALL BE INTERLOCKED WITH WIRED WALL CONTROLLER.
2. PROVIDE FAN WITH BRACING AS NECESSARY TO PREVENT SWAYING.
3. WEIGHT DOES NOT INCLUDE MOUNT OR EXTENSION TUBE.
4. VERIFY EXTENSION TUBE LENGTH AND MOUNTING BRACKET WITH MANUFACTURER PRIOR TO ORDERING.
5. BOTTOM OF FANS SHALL BE AT LEAST 2'-0" AWAY, IN ALL DIRECTIONS, FROM POSSIBLE OBSTRUCTIONS.
6. FANS SHALL NOT BE MOUNTED WITHIN 2'DIAMETER OF EXHAUST OR RETURN AIR INTAKES, AND SHALL NOT BE IN DIRECT LINE OF HVAC EQUIPMENT DISCHARGE .
7. EXTENSION TUBES 4'-0" OR LONGER SHALL BE INSTALLED WITH GUY WIRES IN ACCORDANCE WITH MANUFACTURER'S INSTALLATION REQUIREMENTS.
8. FAN SHALL BE AT SAME ELEVATION OR HIGHER THAN GAS HEATERS AND OUTSIDE THE MINIMUM CLEARANCE TO COMBUSTIBLES.
9. PROVIDE WITH AIRFOIL FINISH.
10. PROVIDE FAN WITH LIGHTING KIT (120-277V, 220 W, 4200K).

EMERALD MEP
TX FIRM No. F-24826
PROJECT No. 25018

PROFESSIONAL SEAL

STATE OF TEXAS
M. JACQUELINE CHANG
124987
LICENSED
PROFESSIONAL ENGINEER
2026-10-20

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Hill Country Civil

Landscape
Evergreen Landscape Group

Structural
Matrix Structural

MEP
Emerald MEP

Technology
Imagine IT

Alerting
WestNET

STATION #42

Hays County ESD #4
Wimberley, TX 78676

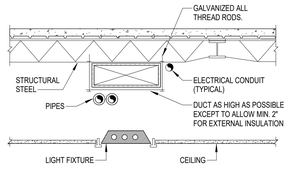
PROJECT No: **MA 25016**
DATE: **20-OCT-2026**

ISSUE

100% DD	06-JAN-2026
50% CD	23-FEB-2026
75% CD	06-APR-2026
98% CD	04-MAY-2026
IFP	01-JUN-2026
IFB	20-OCT-2026

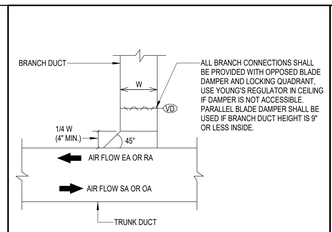
MECHANICAL SCHEDULES

M-501



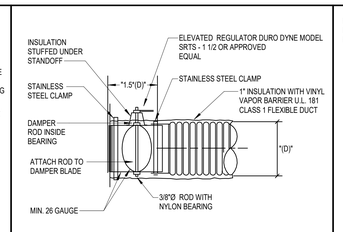
NOTES:
1. PIPES (INCLUDING SPRINKLER PIPING) AND ELECTRICAL CONDUIT CAN BE ROUTED BETWEEN JOISTS OR THROUGH JOIST WEB SPACE AS REQUIRED. DUCT SHALL BE LOCATED AS HIGH AS POSSIBLE.
2. U.L. DESIGN ASSEMBLY NUMBERS ARE SHOWN ON ARCHITECTURAL PLANS WHEN REQUIRED.
3. INSTALLATION OF ALL SERVICES MUST BE COORDINATED BY THE CONTRACTOR.

1 TYP. MEP INSTALLATION DETAIL
NOT TO SCALE



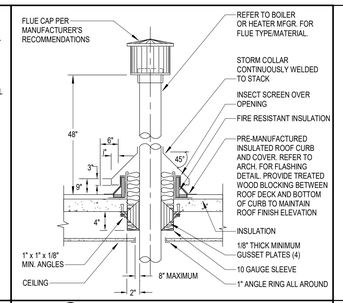
NOTES:
THIS CONNECTION SHALL BE TYPICAL FOR ALL RECTANGULAR BRANCH DUCT CONNECTIONS TO RECTANGULAR TRUNK DUCTS, INCLUDING SUPPLY, RETURN, OUTSIDE AIR AND EXHAUST DUCTS.

2 RECTANGULAR BRANCH DUCT TAP
NOT TO SCALE

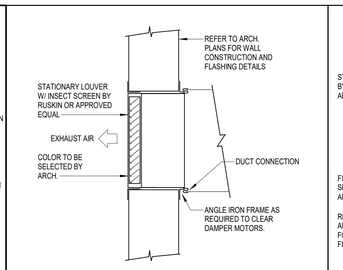


NOTES:
1. ALL FLEXIBLE DUCT OFFSETS AND BENDS SHALL MAINTAIN A RADIUS OF 1.5x(D) MIN. 3'-0" AND MAX. 6'-0".
2. TYPICAL OF ROUND DUCT CONNECTIONS TO RECTANGULAR DUCTS.

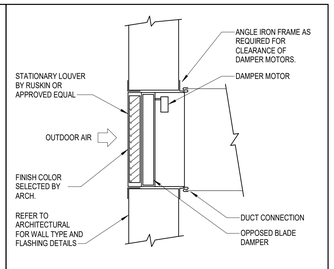
3 SPIN-IN DETAIL
NOT TO SCALE



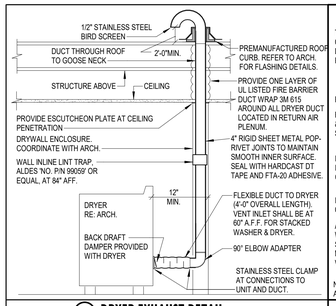
4 STEEL FLUE THRU ROOF DETAIL
NOT TO SCALE



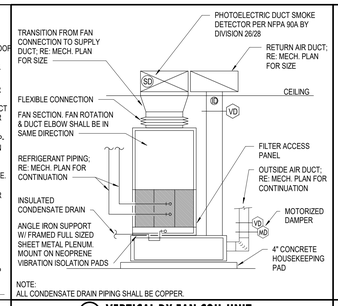
5 EXHAUST LOUVER MOUNTING
NOT TO SCALE



6 INTAKE LOUVER MOUNTING
NOT TO SCALE

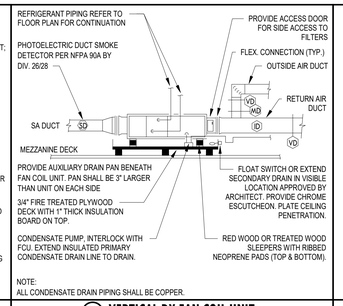


7 DRYER EXHAUST DETAIL
NOT TO SCALE



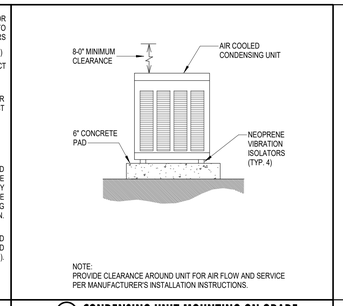
NOTE:
ALL CONDENSATE DRAIN PIPING SHALL BE COPPER.

8 VERTICAL DX FAN COIL UNIT
NOT TO SCALE



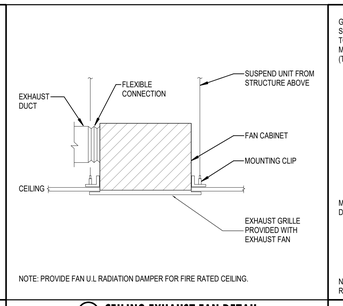
NOTE:
ALL CONDENSATE DRAIN PIPING SHALL BE COPPER.

9 VERTICAL DX FAN COIL UNIT
NOT TO SCALE



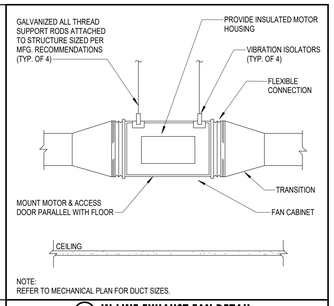
NOTE:
PROVIDE CLEARANCE AROUND UNIT FOR AIR FLOW AND SERVICE PER MANUFACTURER'S INSTALLATION INSTRUCTIONS.

10 CONDENSING UNIT MOUNTING ON GRADE
NOT TO SCALE



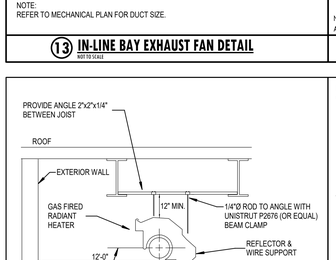
NOTE: PROVIDE FAN U.L RADIATION DAMPER FOR FIRE RATED CEILING.

11 CEILING EXHAUST FAN DETAIL
NOT TO SCALE



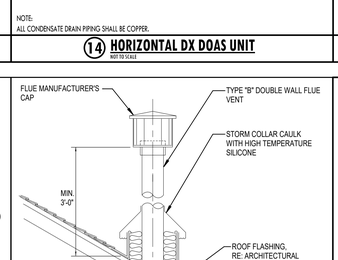
NOTE:
REFER TO MECHANICAL PLAN FOR DUCT SIZES.

12 IN-LINE EXHAUST FAN DETAIL
NOT TO SCALE



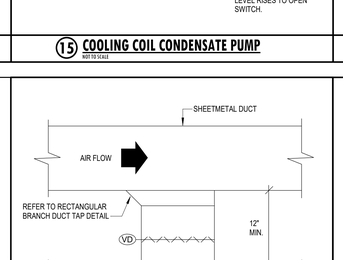
NOTE:
REFER TO MECHANICAL PLAN FOR DUCT SIZE.

13 IN-LINE BAY EXHAUST FAN DETAIL
NOT TO SCALE

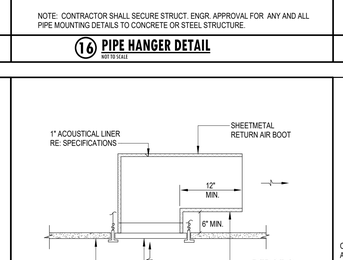


NOTE:
ALL CONDENSATE DRAIN PIPING SHALL BE COPPER.

14 HORIZONTAL DX DOAS UNIT
NOT TO SCALE

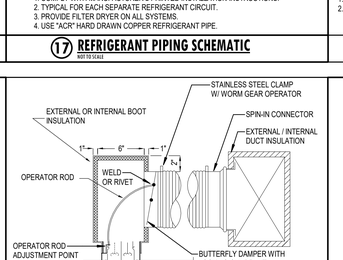


15 COOLING COIL CONDENSATE PUMP
NOT TO SCALE



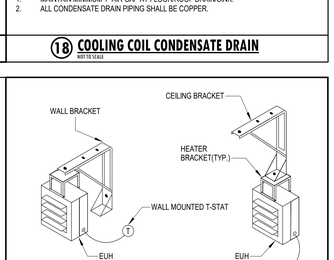
NOTE: CONTRACTOR SHALL SECURE STRUCT. ENGR. APPROVAL FOR ANY AND ALL PIPE MOUNTING DETAILS TO CONCRETE OR STEEL STRUCTURE.

16 PIPE HANGER DETAIL
NOT TO SCALE



NOTE:
1. COMPLY WITH MANUFACTURER'S PRINTED INSTALLATION INSTRUCTIONS.
2. TYPICAL FOR EACH SEPARATE REFRIGERANT CIRCUIT.
3. PROVIDE FILTER DRYER ON ALL SYSTEMS.
4. USE "ACR" HARD DRAWN COPPER REFRIGERANT PIPE.

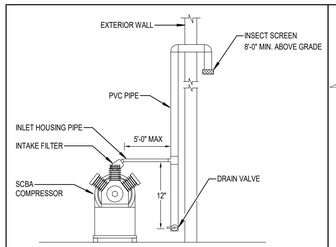
17 REFRIGERANT PIPING SCHEMATIC
NOT TO SCALE



H = FAN INLET PRESSURE (IN. W.C.) + 1 INCH

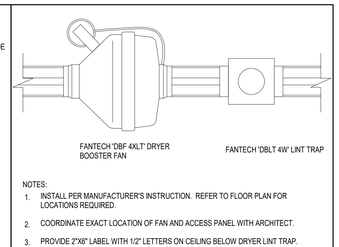
NOTE:
1. MAINTAIN MINIMUM 1" AIR GAP AT FLOOR/ROOF DRAIN/SINK.
2. ALL CONDENSATE DRAIN PIPING SHALL BE COPPER.

18 COOLING COIL CONDENSATE DRAIN
NOT TO SCALE



NOTES:
1. INSTALL IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.
2. DO NOT ROUTE CONDUIT OR WIRING ABOVE HEATER.

19 GAS RADIANT HEATER MOUNTING
NOT TO SCALE



20 FLUE (SLOPED ROOF) DETAIL
NOT TO SCALE

21 SIDEWALL SUPPLY REGISTER DETAIL
NOT TO SCALE

NOTE: TYPICAL FOR ALL RETURN AIR GRILLES

22 RETURN AIR BOOT AT GRILLE
NOT TO SCALE

NOTE:
AT OPERATOR ADJUSTMENT POINT, LEAVE 1" SECTION OF PATTERN DEFLECTOR OUT FOR ACCESS. CUT FRAME TO ACCOMMODATE SUPPORT FOR OPERATOR.

23 SLOT DIFFUSER CONNECTION
NOT TO SCALE

CONTRACTOR SHALL PROVIDE:
- WALL-MOUNTED THERMOSTAT
- LOW VOLTAGE CONTROL TRANSFORMER
- UNIVERSAL WALL AND CEILING-MOUNTED BRACKET
- AUTOMATIC RESET THERMAL CUT-OUT
- ADJUSTABLE DISCHARGE
- REMOTE SUMMER FAN SWITCH

24 ELECTRIC UNIT HEATER DETAIL
NOT TO SCALE

NOTE:
PVC PIPE SHALL BE 3'-0" TO 5'-0" FROM THE COMPRESSOR INTAKE, PROVIDE WITH STUB REDUCER THE SAME SIZE AS THE COMPRESSOR INLET HOUSING PIPE. CONFIRM PVC AND HOUSING PIPE SIZES WITH SCBA COMPRESSOR PURCHASED BY OWNER/CONTRACTOR. INSTALL ACCORDING TO SCBA MANUFACTURER'S RECOMMENDATIONS.

25 SCBA COMPRESSOR AIR INTAKE
NOT TO SCALE

NOTES:
1. INSTALL PER MANUFACTURER'S INSTRUCTION. REFER TO FLOOR PLAN FOR LOCATIONS REQUIRED.
2. COORDINATE EXACT LOCATION OF FAN AND ACCESS PANEL WITH ARCHITECT.
3. PROVIDE 2"X6" LABEL WITH 1/2" LETTERS ON CEILING BELOW DRYER LINT TRAP.
4. PROVIDE WITH INTEGRATED PRESSURE SENSING SWITCH.
5. PROVIDE WITH MANUFACTURER'S MOUNTING BRACKET.

26 DRYER EXHAUST BOOSTER FAN
NOT TO SCALE

PROFESSIONAL SEAL

STATE OF TEXAS
M. JACQUELINE CHANG
124987
LICENSED
PROFESSIONAL ENGINEER
2026-10-20

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Structural
Matrix Structural

MEP
Emerald MEP

Technology
Imagine IT

Alerting
WestNET

STATION #42

Hays County ESD #4

Wimberley, TX 78676

PROJECT No: MA 25016
DATE: 20-OCT-2026

ISSUE

100% DD	06-JAN-2026
50% CD	23-FEB-2026
75% CD	06-APR-2026
98% CD	04-MAY-2026
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MECHANICAL DETAILS

M-601

EMERALD MEP
TX FIRM No. F-24826
PROJECT No. 25018

HOOD INFORMATION – JOB#8395473

HOOD NO	TAG	MODEL	MANUFACTURER	LENGTH	EXHAUST PLENUM RISER(S) HEIGHT	DIA	CFM	VEL	SP	HOOD CONSTRUCTION	FILTER(S) TYPE	QTY	HEIGHT	LENGTH	EFFICIENCY @ 7 MICRONS	LIGHT(S) QTY	TYPE	WIRE GUARD	FIRE SYSTEM PIPING	HOOD HANGING WEIGHT	SWITCHES LOCATION	QUANTITY	FANS CONTROLLED TYPE	Φ	HP	VOLT	FLA	GAS VALVES AND STRAINERS TYPE	SIZE	VOLTAGE	GAS VALVE SIZING MIN. - MAX' INLET PRESSURE	FLOW AT 1 IN.W.C. DROP NATURAL GAS	FLOW AT 1 IN.W.C. DROP PROPANE	PART NUMBERS GAS VALVE	STRAINER	GAS VALVE/STRAINER KIT
1	KEH-1	2424 WRH-60	CAPTIVEAIRE	5' 0"	4"	10"	500	917	-0.208"	430 SS 100%	CAPTRATE SOLO FILTER	3	16"	16"	85%	4	RECESSED ROUND	NO	YES	261 LBS	FACE MOUNT RIGHT SIDE OF HOOD	1 LIGHT 1 FAN	EXHAUST	1	0.167	115	1.9	ELECTRICAL	3/4"	120 VAC	0 - 5 PSI (0-138 IN.W.C.)	593,200 BTU/HR	384,919 BTU/HR	8214235	4417K64	(SC)EGV/A3/4

HOOD FIRE SYSTEM PARTS LIST KEY

FIRE SYSTEM NO.	TAG	KEY NUMBER - PART DESCRIPTION	QTY BY FACTORY
1	KEH-1	0 - 0 - A0029078 BLUE COLOR - JUNCTION BOX FOR RESIDENTIAL CORE PROTECTION MANUAL PULL STATION. 1.5" DEEP BACK BOX.	1
		0 - 0 - CBI-102 CHROME PLATED PIPE FITTING 3/8" NPT 45 DEGREE ELBOW.	4
		0 - 0 - CORE RESIDENTIAL MANIFOLD RESIDENTIAL CORE MANIFOLD- USED ON 1/2" RESIDENTIAL CORE MANIFOLD.	1
		16 - 16 - OL-M NOZZLE - CORE PROTECTION APPLIANCE COVERAGE NOZZLE (INCLUDES METAL BLOW OFF CAP, LANYARD, USED WITH CHROME-PLATED PIPE).	3
		26 - 26 - QSA-3/8 QUIK SEAL - 3/8" (UL).	3
		34 - 34 - A0019852 24VDC OR 120VAC SINGLE ACTION MANUAL ACTUATION DEVICE (PUSH/PULL STATION) WITH PROTECTIVE COVER, ONE (1) NORMALLY OPEN CONTACT.	1

FOR QUESTIONS, CALL THE
San Antonio & South TX
REGION 48
PHONE: (210) 647 - 7244
EMAIL: reg48@captiveaire.com

§ DUCTWORK INSTALLATION
DUCTWORK IS REQUIRED TO CARRY SMOKE AND EXHAUST AWAY FROM THE APPLIANCES AND SPACE. DUCT SHOULD BE CONSTRUCTED OF SHEET METAL (26 GAUGE MINIMUM) THAT IS GALVANIZED STEEL, STAINLESS STEEL, ALUMINUM OR COPPER. DUCTS MUST HAVE A SMOOTH INNER WALL, BE AIR TIGHT, AND EQUIPPED WITH BACKDRAFT DAMPER. KEEP TRANSITIONS AND TURNS IN DUCT MINIMAL TO PREVENT SYSTEM EFFECT. THIS WILL DRASTICALLY INCREASE THE STATIC PRESSURE AND REDUCE AIRFLOW. DUCTWORK MUST BE INDEPENDENT FROM OTHER EXHAUST DUCTS. VERIFY LOCAL CODE AND JURISDICTION REQUIREMENTS FOR WHAT TYPE OF DUCTWORK MUST BE INSTALLED. HOOD COMES WITH FACTORY INSTALLED 10" ROUND, 4" TALL FLANGED RISER. DUCTWORK IS TO BE PROVIDED BY OTHERS IN THE FIELD.

DUCTWORK MUST BE INSTALLED BY QUALIFIED INSTALLATION TECHNICIAN. ALWAYS FOLLOW MANUFACTURER'S INSTALLATION INSTRUCTIONS AND RECOMMENDATIONS. IF INSTRUCTIONS ARE NOT PROVIDED, FOLLOW SMACNA GUIDES AND RECOMMENDATIONS FOR DUCTWORK CONSTRUCTION.

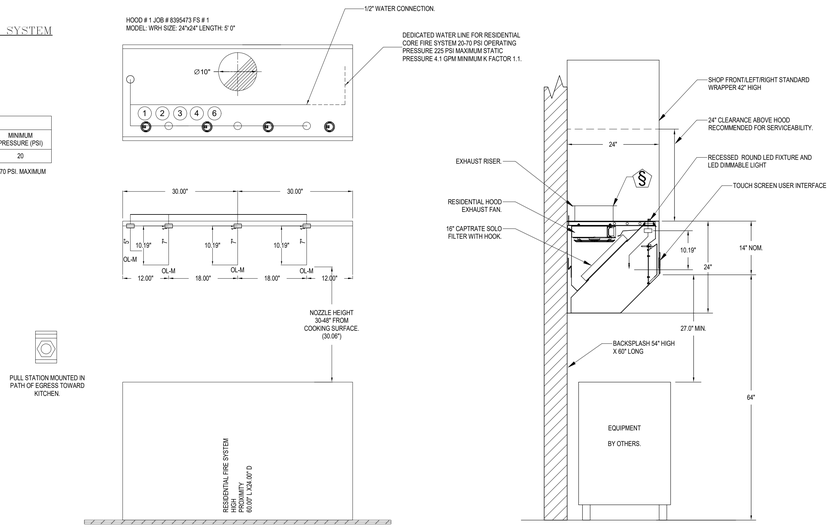
NOTES:
-FACTORY PIPING EXTENDED A MAXIMUM OF 6" ABOVE THE TOP OF THE HOOD.
-APPLIANCE DIMENSIONS LISTED REPRESENT THE COOKING SURFACE SIZE, NOT THE OVERALL APPLIANCE SIZE.
- THIS PRE-ENGINEERED FIRE SYSTEM COMPLIES WITH UL300A REQUIREMENTS.
- OL-M NOZZLE PART NUMBER REPLACES 3070-3/8HH-10-SS

LEGEND – CORE RESIDENTIAL FIRE SYSTEM

1. SOLENOID.
2. BACK FLOW PREVENTER.
3. PRESSURE AND TEMPERATURE GAGE.
4. STRAINER.
6. SUPERVISED BALL VALVE.

TOTAL SYSTEM INLET REQUIREMENTS		
	MINIMUM FLOW RATE (GPM)	MINIMUM PRESSURE (PSI)
TOTAL RESIDENTIAL CORE INLET REQUIREMENTS	4.1	20

* OPERATING PRESSURE RANGE AT RESIDENTIAL CORE PANEL GAUGE IS 20 TO 70 PSI. MAXIMUM STATIC PRESSURE IS 225 PSI.



1 CaptiveAire UL507 HOOD DETAIL
NOT TO SCALE

EMERALD MEP
TX FIRM No. F-24826
PROJECT No. 25018

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MECHANICAL DETAILS

M-602

ABBREVIATIONS

A

A	AMPERES
ABV	ABOVE
A/C	AIR CONDITIONING
AC	ALTERNATING CURRENT, AIR COMPRESSOR, ABOVE COUNTER
ACC	AIR COOLED CHILLER
ACCU	AIR COOLED CONDENSING UNIT
AD	ACCESS DOOR
ADA	AMERICANS WITH DISABILITIES ACT
AF	AMPERE FUSE, AMPERE FRAME
AFC	ABOVE FINISHED CEILING
AFF	ABOVE FINISHED FLOOR
AHU	AIR HANDLING UNIT
AIC	AMPERE INTERRUPT CAPACITY
AL	ALUMINUM
AMP	AMPLIFIER
ANN	ANNUNCIATOR
AP	ACCESS PANEL, ALARM PANEL
ARCH	ARCHITECT, ARCHITECTURAL
AT	AMPERE TRIP RATING
ATS	AUTOMATIC TRANSFER SWITCH
AVG.	AVERAGE
AUX.	AUXILIARY
AWG.	AMERICAN WIRE GAUGE

B

BAS	BUILDING AUTOMATION SYSTEM
BC	BELOW COUNTER
BKR	BREAKER
BLDG.	BUILDING

C

C	CONDUIT, CELSIUS
CWP	CONDENSER WATER PUMP
CH	CHILLER
CHP	CHILLED WATER PUMP
CIRC	CIRCULATING
CKT	CIRCUIT
CLG.	CEILING
CMU	CONCRETE MASONRY UNIT
COL.	COLUMN
CONC	CONCRETE
CONT.	CONTINUOUS,CONTINUATION
CP.	CIRCULATING PUMP
CR	CARD READER, CORD REEL
CT	CURRENT TRANSFORMER, COOLING TOWER
CTR	CENTER
CU	COPPER

D

DC	DIRECT CURRENT
DDC	DIRECT DIGITAL CONTROL
DTL	DETAIL
DIM	DIMENSION
DISC	DISCONNECT
DP	DISTRIBUTION PANEL
DR	DROPPED RECEPTACLE
DS	DAYLIGHT SENSOR
DW	DISHWASHER
DWG	DRAWING

E

(E)	EXISTING
EA	EACH
EC	ELECTRICAL CONTRACTOR
E.C.	EMPTY CONDUIT
EDF	ELECTRIC DRINKING FOUNTAIN
EF	EXHAUST FAN
ELEC.	ELECTRICAL
ELEV.	ELEVATOR
EMCS	ENERGY MANAGEMENT AND CONTROLS SYSTEM
EMERG	EMERGENCY
EMS	ENERGY MANAGEMENT SYSTEM
EPO	EMERGENCY POWER OFF
EQUIP	EQUIPMENT
(ER)	EXISTING TO REMAIN
ELH	ELECTRIC UNIT HEATER
EWH	ELECTRIC WATER HEATER
EXH	EXHAUST

F

F	FAHRENHEIT, FAN, FIRE
FA	FIRE ALARM
FACP	FIRE ALARM CONTROL PANEL
FCU	FAN COIL UNIT
FF	FURNITURE FEED
FIXT	FIXTURE
FLA	FULL LOAD AMPS
FLEX	FLEXIBLE
FLR	FLOOR
FP	FIRE PUMP, FAN POWERED
FPTB	FAN POWERED TERMINAL BOX
FS	FUSED SWITCH, FLOW SWITCH
FSD	MOTORIZED FIRE SMOKE DAMPER
FT	FOOT, FEET
FTL	FEED-THRU LUGS

G

GC	GENERAL CONTRACTOR
GEN	GENERATOR
GFCI	GROUND FAULT CIRCUIT INTERRUPTER
GND	GROUND
GTD	GENERATOR TRANSFER DEVICE
GUH	GAS UNIT HEATER

H

HD	ELECTRIC HAND DRYER
HORIZ	HORIZONTAL
HP	HORSEPOWER
HTR	HEATER
HVAC	HEATING, VENTILATING, AND AIR CONDITIONING
HWB	HOT WATER BOILER
HWC	HOT WATER CIRCULATOR
HWP	HEATING WATER PUMP

I

IG	ISOLATED GROUND
IN	INCH
INT	INTERNAL, INTERIOR

J

JB	JUNCTION BOX
JP	JOCKEY PUMP

K

KEC	KITCHEN EQUIPMENT CONTRACTOR
kVA	KILOVOLT- AMPS
kW	KILOWATT
kWH	KILOWATT-HOUR

L

LED	LIGHT EMITTING DIODE
LRA	LOCKED ROTOR AMPS
LTG	LIGHTING
LV	LOW VOLTAGE TRANSFORMER

M

M	METER
MAX.	MAXIMUM
MC	METAL CLAD CABLE
MCA	MINIMUM CIRCUIT AMPS
MCB	MAIN CIRCUIT BREAKER
MCC	MOTOR CONTROL CENTER
MD	MOTORIZED DAMPER
MDP	MAIN DISTRIBUTION PANEL
MECH.	MECHANICAL
MFR	MANUFACTURER
MIN.	MINIMUM.
MLO	MAIN LUGS ONLY
MOCP	MAXIMUM OVER-CURRENT PROTECTION
MSB	MAIN SWITCHBOARD
MTD	MOUNTED

N

N3R	NEMA 3R ENCLOSURE
N4X	NEMA 4X ENCLOSURE
NEC	NATIONAL ELECTRICAL CODE
NEMA	NATIONAL ELECTRICAL MANUFACTURER'S ASSOCIATION
NF	NON-FUSED
NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
NFS	NON-FUSED SWITCH
NIC	NOT IN CONTRACT
NL	NIGHT LIGHT
NO.	NUMBER
NTS	NOT TO SCALE

O

OAF	OUTSIDE AIR FAN
OAHU	OUTSIDE AIR HANDLING UNIT
OC	ON CENTER
OHE	OVERHEAD ELECTRICAL

P

P	POLE, PUMP
PB	PUSHBUTTON
PC	PHOTOCELL
PH	PHASE
PLBG	PLUMBING
PNL	PANEL
POS	POINT OF SALE
PP	POWER POLE
PS	PHOTOSENSOR
PVC	POLYVINYL CHLORIDE
PWR	POWER

Q

QTY	QUANTITY

R

R	EXISTING TO BE REMOVED
RC	RECONNECT EXISTING DEVICE TO CIRCUIT INDICATED
RCP	REFLECTED CEILING PLAN
RCPT	RECEPTACLE
RE	REFERENCE, REFER
REC	RECEPTACLE
REF	REFRIGERATOR
REL	EXISTING TO BE RELOCATED
REL/EX	NEW LOCATION OF RELOCATED EQUIPMENT
REQD	REQUIRED
REV	REVISION, REVISE
RLA	RUNNING LOAD AMPS
RTU	ROOFTOP UNIT

S

SAF	SUPPLY AIR FAN
SCHED	SCHEDULE
SEC	SECONDARY
SECT	SECTION
SF	SQUARE FEET
SHT	SHEET
SIM	SIMILAR
SPEC	SPECIFICATION
SPD	SURGE PROTECTION DEVICE
SQ.	SQUARE
SRF	SMOKE REMOVAL FAN
ST	SHUNT TRIP
STD	STANDARD
STL	STEEL
SURF	SURFACE
SWBD	SWITCHBOARD

T

TEL	TELEPHONE
TL	TWIST-LOCK
TP	TAMPER PROOF DEVICE
TV	TELEVISION
TYP	TYPICAL

U

UG	UNDERGROUND
UH	UNIT HEATER
UL	UNDERWRITERS LABORATORIES, INC.
UNO	UNLESS NOTED OTHERWISE
UPS	UNINTERRUPTABLE POWER SYSTEM

V

V	VOLT
VA	VOLT-AMPERE
VAV	VARIABLE AIR VOLUME
VC	VOLUME CONTROL
VFD	VARIABLE FREQUENCY DRIVE

W

W	WATT, WIRE, WIDTH
WG	WIREGUARD
W/	WITH
W/O	WITHOUT
WP	WEATHERPROOF

X

XFMR	TRANSFORMER

Z

Z	ZONE

MOTORS AND CONTROLS

- MOTOR RATED SWITCH WITH THERMAL OVERLOADS
- SINGLE OR THREE PHASE MOTOR NUMBER INDICATES HORSE POWER
- DISCONNECT (SAFETY) SWITCH "200/3/150" DENOTES AMPERES/POLE/FUSE, "NF" DENOTES NON-FUSED "N3R" DENOTES NEMA 3R
- MOTOR STARTER FURNISHED BY DIVISION 23 AND INSTALLED BY DIVISION 26.
- COMBINATION DISCONNECT (SAFETY) SWITCH AND MOTOR STARTER, "30/3/15/HO" DENOTES AMPERES/POLES/FUSE/ STARTER SIZE, "NF" DENOTES NON-FUSED. FURNISHED BY DIVISION 23 AND INSTALLED BY DIVISION 26.
- VFD — VARIABLE FREQUENCY DRIVE PROVIDED BY DIVISION 23 AND INSTALLED BY DIVISION 26.
- EPO — EMERGENCY POWER OFF BUTTON.

RECEPTACLES AND OUTLETS

ALL RECEPTACLES SHALL BE MOUNTED 18" ABOVE FINISHED FLOOR TO CENTER OF DEVICE UNLESS NOTED OTHERWISE.

- SIMPLEX WALL RECEPTACLE, NEMA 5-20R, 20A, 125V.
- DUPLEX WALL RECEPTACLE, NEMA 5-20R, 20A, 125V.
  - "GFCI" DENOTES GROUND FAULT INTERRUPTER,
  - "WP" DENOTES WEATHERPROOF,
  - "IG" DENOTES ISOLATED GROUND,
  - "TP" DENOTES SAFETY TYPE, (TAMPER PROOF)
  - "DR" DENOTES DROPPED RECEPTACLE,
  - "USB" DENOTES RECEPTACLE WITH UNIVERSAL SERIAL BUS,
  - "AC" DENOTES ABOVE COUNTER MOUNTING, SEE
  - "UC" DENOTES UNDER COUNTER MOUNTING, SEE
  - "H" DENOTES HORIZONTALLY ORIENTED RECEPTACLE, SEE ARCHITECTURAL PLANS FOR EXACT MOUNTING HEIGHT.
- FOURPLEX (DOUBLE DUPLEX) WALL RECEPTACLE. NEMA 5-20R, 20A, 125V.
- SPECIAL RECEPTACLE, NEMA CONFIGURATION AS NOTED.
- JUNCTION BOX
  - "MD" DENOTES MOTOR DAMPER,
  - "CR" DENOTES CORD REEL,
  - "D" DENOTES DROP CORD RECEPTACLE,
- DUPLEX RECEPTACLE WITH HOMERUN
- DIRECT CONNECTION TO EQUIPMENT
- PULL BOX (OVER 4" SQUARE)
- TWO-GANG FLOOR OUTLET
- THREE-GANG FLOOR OUTLET
- TWO-GANG CEILING OUTLET
- FLUSH ELECTRICAL FLOOR OUTLET. "P" DENOTES POKE-THRU. "D" INDICATES DUPLEX RECEPTACLE. "R" INDICATES RED RECEPTACLE ON EMERGENCY POWER. REFER TO FLOOR BOX SCHEDULE. FIRE RATED POKE-THROUGH SCHEDULE AND KEYED NOTES.

LIGHTING

LETTER(S) DENOTE TYPE- SEE LIGHTING FIXTURE SCHEDULE FOR ADDITIONAL INFORMATION.

- 2' X 4' LIGHTING FIXTURE.
- 2' X 2' LIGHTING FIXTURE.
- 1' X 4' LIGHTING FIXTURE.
- STRIP LIGHTING FIXTURES.
- ROUND DOWNLIGHT FIXTURE.
- SQUARE DOWNLIGHT FIXTURE.
- WALL MOUNTED LIGHTING FIXTURE.
- CEILING MOUNTED EXIT SIGN; ARROWS AS INDICATED. SHADED AREA DENOTES FACE.
- WALL MOUNTED EXIT SIGN; ARROWS AS INDICATED. SHADED AREA DENOTES FACE.
- EMERGENCY WALL MOUNTED LIGHTING FIXTURE. BATTERY OPERATED UNLESS NOTED OTHERWISE.
- SITE LIGHTING FIXTURE.
- POST-TOP FIXTURE/ACORN FIXTURE BRACKET ARM INDICATES WALL MOUNT WITH ARM
- EMERGENCY LIGHT FIXTURE WITH BATTERY PACK. PROVIDE WITH UNSWITCHED HOT FOR LOSS OF VOLTAGE AND CHARGING (SAME CIRCUIT AS NORMAL POWER LIGHTING). FIXTURES SHALL BE WIRED IN A MANNER AS TO ALLOW SWITCHING OF FIXTURES WITHOUT DISCHARGING THE EMERGENCY BATTERY. BATTERY PACK IS TO ONLY OPERATE IN THE EVENT OF A POWER OUTAGE.
- EM CIRCUIT — LIGHT FIXTURE ON EMERGENCY BRANCH CIRCUIT, CIRCUIT NUMBER ADJACENT TO FIXTURE INDICATES EMERGENCY CIRCUIT CONNECTED TO FIXTURE. PROVIDE UNSWITCHED HOT, NEUTRAL AND GROUND FOR ALL EMERGENCY LIGHTING ORIGINATING FROM THE EMERGENCY CIRCUIT SHOWN.
- NL — EMERGENCY "NIGHT LIGHT" LIGHT FIXTURE. LIGHT FIXTURE IS UNSWITCHED AND INTENDED FOR 24 HOUR OPERATION. FEED VIA UNSWITCHED HOT.

RACEWAYS AND WIRING

- CAP AND STAKE
- CONDUIT CONCEALED IN WALL OR CEILING
- CONDUIT UNDERSLAB OR UNDERGROUND
- EM — EMERGENCY CONDUIT
- OHE — OVERHEAD ELECTRIC PRIMARY UTILITY POWER LINE
- CONDUIT TURNED UP
- CONDUIT TURNED DOWN
- 1LA-2,4 — HOMERUN TO PANEL WITH CIRCUIT NUMBER(S) AS INDICATED.
- PARTIAL CIRCUIT HOMERUN TO PANEL. (ON)1LA-6
- XX — "OHE" DENOTES OVERHEAD ELECTRICAL LINE. "UGE" DENOTES UNDERGROUND ELECTRICAL LINE.

ELECTRICAL EQUIPMENT

- DISTRIBUTION PANEL
- MSB — SWITCHBOARD, MAIN DISTRIBUTION PANEL OR MOTOR CONTROL CENTER
- PANELBOARD (FLUSH/SURFACE MOUNT)
- FLOOR MOUNTED DRY-TYPE TRANSFORMER
- SUSPENDED OR WALL MOUNTED TRANSFORMER
- ATS — AUTOMATIC TRANSFER SWITCH

COMMUNICATIONS

ALL OUTLET BOXES SHALL BE MOUNTED 18" ABOVE FINISHED FLOOR TO CENTER OF DEVICE UNLESS NOTED OTHERWISE.

- TV — TV ROUGH-IN 3-GANG RECESSED TV BOX, CONTAINING 1 DUPLEX RECEPTACLE, 1 GANG FOR AV, 1 GANG FOR DELTA.
- INDICATES THE LOCATION OF A NEW TECHNOLOGY WALL OUTLET, PROVIDE DUAL GANG BACK BOX. REFERENCE TECHNOLOGY SHEET FOR CONTENT.
- CB — SCHOOL INTERCOMMUNICATION SYSTEM CALL-IN. PUSH BUTTON
- BELL, BUZZER OR CHIME AT 80+ A.F.F.
- VC — VOLUME CONTROL - WALL MOUNTED

ONE LINE AND RISER DIAGRAMS

- TRANSFORMER, TYPE AND RATINGS AS NOTED
- M — DIGITAL METER
- M — ELECTRICAL METER
- SPD — SURGE PROTECTION DEVICE

MISCELLANEOUS

- F — SHADED SYMBOLS INDICATE EXISTING DEVICES TO REMAIN, UNLESS OTHERWISE NOTED.
- INDICATES WALL-MOUNTED WHEN ATTACHED TO ANY SYMBOL
- EX.X — DRAWING NOTE REFERENCE
- LC — LIGHTING CONTACTOR
- TS — TIME SWITCH
- PC — PHOTOCELL
- TC — TIMECLOCK

FIRE ALARM

- W — WATER FLOW SWITCH
- SP — SUPERVISORY SWITCH
- S, # — SMOKE DETECTOR - "SB" INDICATES IN INTEGRAL SOUNDER BASE; "D" INDICATES DUCT TYPE; "R" INDICATES 120 VOLT RESIDENTIAL TYPE
- H — HEAT DETECTOR
- S — FIRE ALARM SPEAKER STROBE / CEILING MOUNTED
- S — FIRE ALARM SPEAKER STROBE / WALL MOUNTED
- S — FIRE ALARM SPEAKER / CEILING MOUNT.
- S — FIRE ALARM SPEAKER / WALL MOUNTED
- DH — MAGNETIC DOOR HOLDER
- F — FIRE ALARM PULL STATION +42" AFF
- AUDIO VISUAL FIRE ALARM HORN STROBE +80" AFF- 15/75cd U.N.O.
- VISUAL FIRE ALARM (STROBE) CEILING MOUNT - 15/75cd U.N.O.
- VISUAL FIRE ALARM (STROBE) WALL MOUNT +80" AFF- 15/75cd U.N.O.
- AUDIO FIRE ALARM HORN +80" AFF
- FACP — FIRE ALARM CONTROL PANEL
- ANN — REMOTE FIRE ALARM ANNUNCIATOR PANEL
- RPS — REMOTE POWER SUPPLY FOR AUDIO/VISUAL FIRE ALARM DEVICES.
- FSD — FIRE SMOKE DAMPER

SWITCHES & LIGHTING CONTROL DEVICES

ALL SWITCH TYPES AND SENSORS TYPES FOUND ON 'LIGHTING CONTROL DEVICE SCHEDULE' LOCATED ON ELECTRICAL SCHEDULES SHEETS

SWITCH ANNOTATION AS FOLLOWS:

- $, A,a,a — TYPE, PER SCHEDULE; NO TYPE INDICATES SINGLE POLE TOGGLE SWITCH
- SWITCH LEGS, PER PLAN, SHOWN HERE AS 3 (a,b,c)

OCCUPANCY SENSOR ANNOTATION, AS FOLLOWS:

- OCx — OCCUPANCY / VACANCE SENSOR 'x' INDICATES TYPE, PER SCHEDULE
- CEILING SENSOR
- WITH BRACKET INDICATES WALL / CORNER MOUNT

LIGHT SENSOR ANNOTATION, AS FOLLOWS:

- PC — DIGITAL PHOTOSENSOR
- DS — DAYLIGHT HARVESTING SENSOR

DRAWING/DETAIL REFERENCE KEY

RE: 1 /E3-2 — REFER TO DRAWING/DETAIL NUMBER; SHEET NUMBER; 1 / E3-2

EMERALD MEP
TX FIRM No. F-24826
PROJECT No. 25018

PROFESSIONAL SEAL

STATE OF TEXAS — M. JACQUELINE CHANG — 124987 — LICENSED PROFESSIONAL ENGINEER — 2026-10-20

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DESIGN TEAM

Architectural — Martinez Architects
Civil — Hill Country Civil
Landscape — Evergreen Landscape Group
Structural — Matrix Structural
MEP — Emerald MEP
Technology — Imagine IT
Alerting — WestNET

STATION #42

Hays County ESD #4

Wimberley, TX 78676

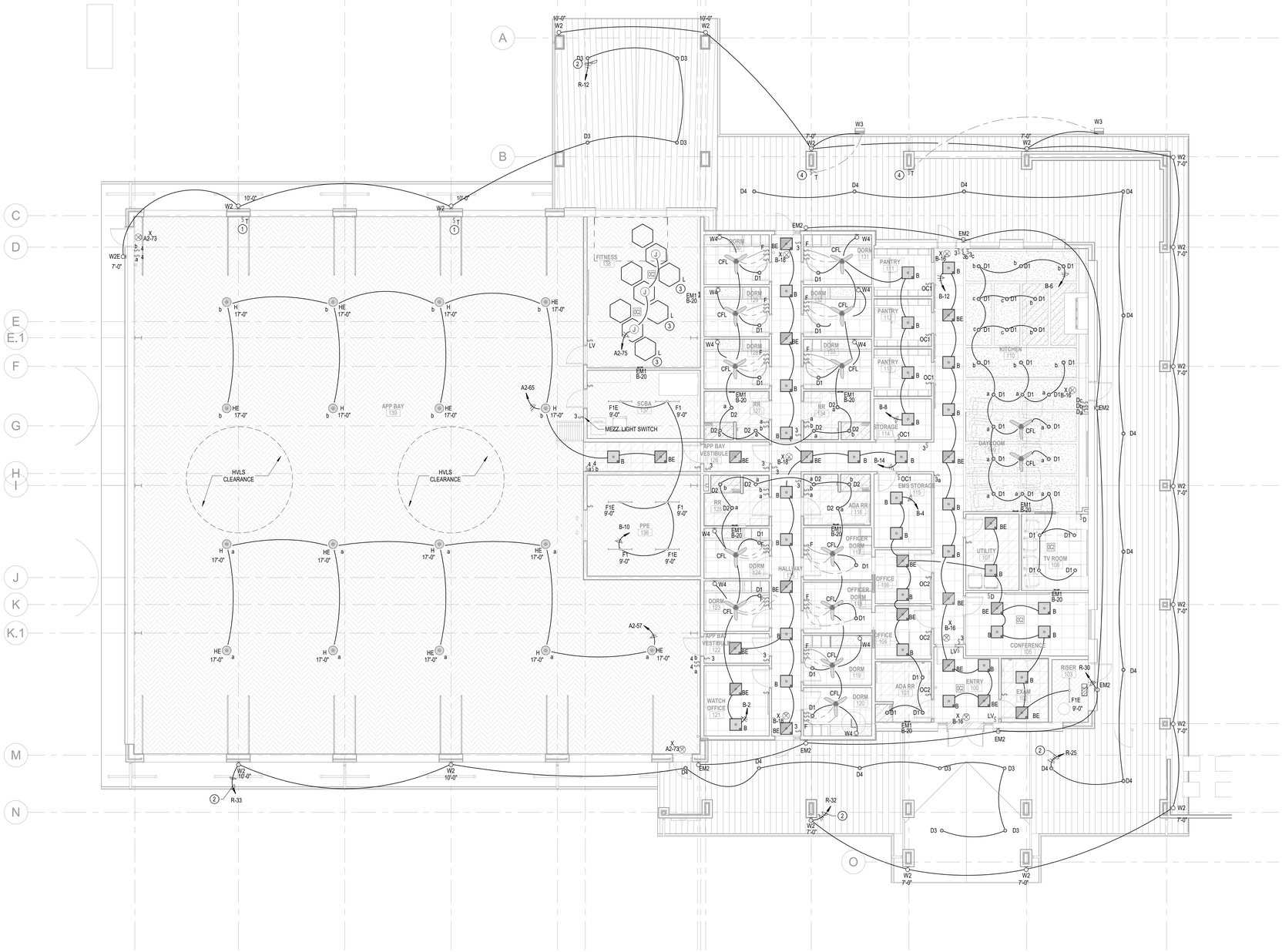
PROJECT No: MA 25016
DATE: 20-OCT-2026

ISSUE

100% DD	06-JAN-2026
50% CD	23-FEB-2026
75% CD	06-APR-2026
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ELECTRICAL SYMBOLS LEGEND

E-001



1 LIGHTING PLAN - LEVEL ONE

1/8" = 1'-0"

LIGHTING GENERAL NOTES APPLY TO ALL LIGHTING PLANS

LIGHTING GENERAL NOTES

A. LIGHTING CONTROL DEVICES SHALL BE PROVIDED IN ACCORDANCE WITH PERFORMANCE DESCRIPTION INDICATED IN THE LIGHTING CONTROL DEVICE SCHEDULE FOUND ON SCHEDULE SHEETS.

B. MULTIPLE SWITCHES SHOWN TOGETHER SHALL BE GANGED UNDER A COMMON COVER PLATE.

C. PROVIDE LABELING OF ALL CONTROL DEVICES, SWITCH PACKS, LIGHT FIXTURES, JUNCTION BOXES, ETC IN ACCORDANCE WITH ELECTRICAL SPECIFICATIONS.

D. LIGHTING FIXTURE LOCATIONS SHOWN TAKE PRECEDENT IN CEILING LOCATION TO ALL OTHER TRADES. THE ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR ENSURING OTHER TRADES DO NOT IMPACT SPACING AND/OR OVERLAYMENT OF OTHER DEVICES WHERE LIGHT FIXTURES MUST BE INSTALLED.

E. REFERENCE SYMBOLS LEGEND FOR LIGHT SWITCH DEVICE NOMENCLATURE AND SWITCH-LEG ASSOCIATIONS.

F. ALL 2X2, 2X4 FIXTURES INSTALLED IN SUSPENDED GRID CEILING SHALL BE PROVIDED WITH (2) SECONDARY SUPPORT WIRES ANCHORED DIRECTLY TO STRUCTURE.

G. A. PROVIDE ALL EMERGENCY LIGHT FIXTURES WITH UNSWITCHED HOT LEG AS DEFINED IN NEC 700.12.

H. ROUTE AN UNSWITCHED HOT LEG TO ALL LIGHT FIXTURES DESIGNATED AS EMERGENCY FIXTURES. HOT LEG SHALL ORIGINATE FROM CIRCUIT SERVING NORMAL LIGHTING FIXTURES IN THAT SPACE. UNSWITCHED HOT LEG SHALL CONNECT TO THE NORMAL POWER SENSING LUG ON THE EMERGENCY BATTERY PACK.

I. PROVIDE UN-SWITCHED CIRCUIT TO ALL EXIT SIGNS.

J. CONDUIT AND JUNCTION BOXES IN AREAS WITH EXPOSED STRUCTURE SHALL BE INSTALLED TIGHT TO STRUCTURE (OVERHEAD, WALLS, COLUMNS, ETC.).

LIGHTING KEYED NOTES

1. SPRING WOUND TIMER SWITCH FOR FLOOD LIGHTS SHOWN ON MEZZANINE PLAN.
2. EXTERIOR LIGHTING CIRCUIT SHALL BE ROUTED THROUGH CONTACTOR AND BE PHOTOCELL CONTROLLED.
3. CAMMAN HEXAGON SURFACE MOUNT LIGHT FIXTURE #INF-PS-SH-24-DC-LD400-L1400-40K-CLV-FINISH-MH-OPTIONS.
4. SPRING WOUND TIMER SWITCH FOR FIELD LIGHTS.

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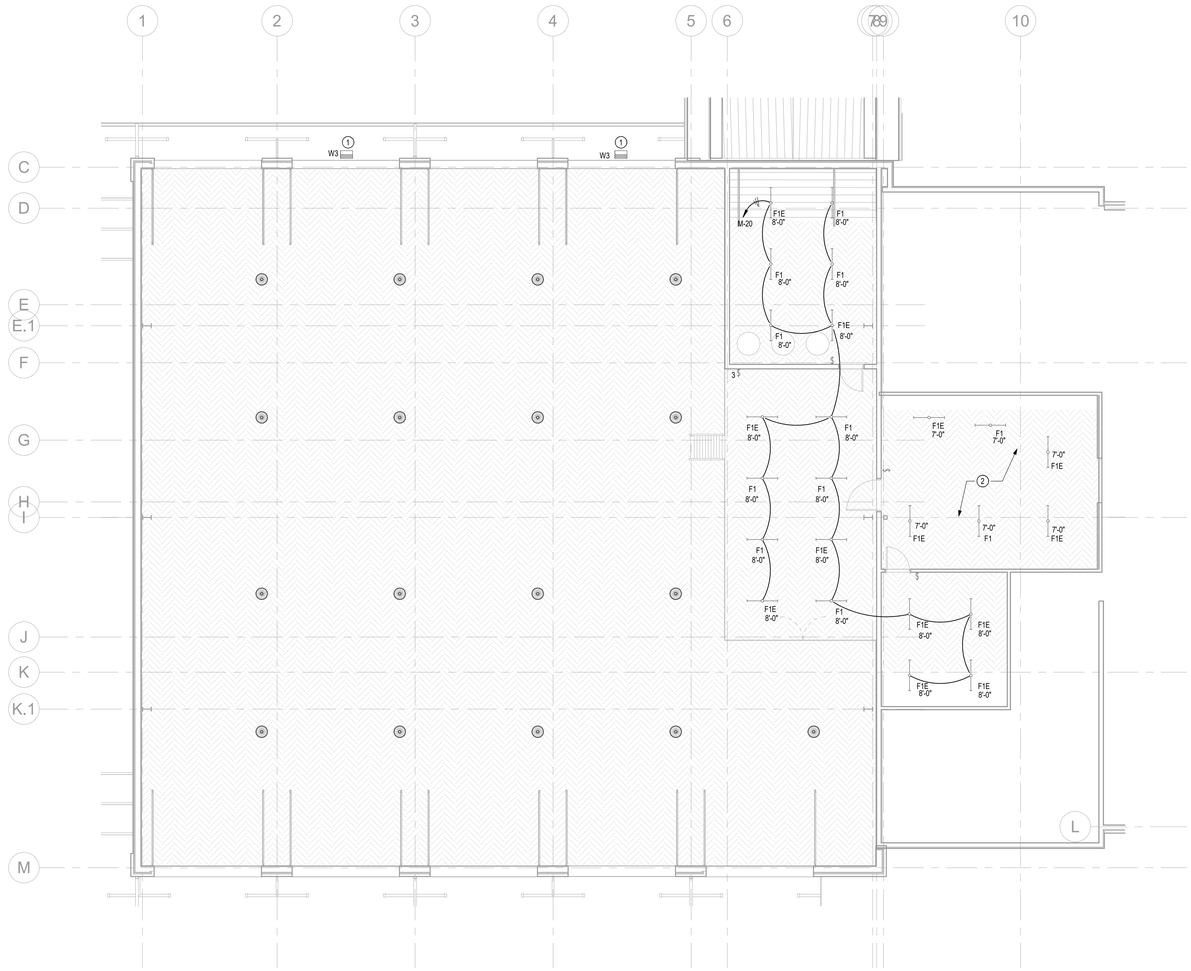
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LIGHTING PLAN - LEVEL ONE

E-101



LIGHTING GENERAL NOTES

A. REFER TO SHEET E-101 FOR LIGHTING GENERAL NOTES

LIGHTING KEYED NOTES

1. FLOOD LIGHT MOUNTED HIGH ON WALL. FIXTURE SHALL BE CONTROLLED BY SPRING WOUND TIMER SWITCH SHOWN ON LEVEL ONE LIGHTING PLAN.
2. COORDINATE FINAL LIGHT FIXTURE LOCATIONS WITH MECHANICAL EQUIPMENT AND DUCTWORK.

1 LIGHTING PLAN - MEZZANINE

1/8" = 1'-0"

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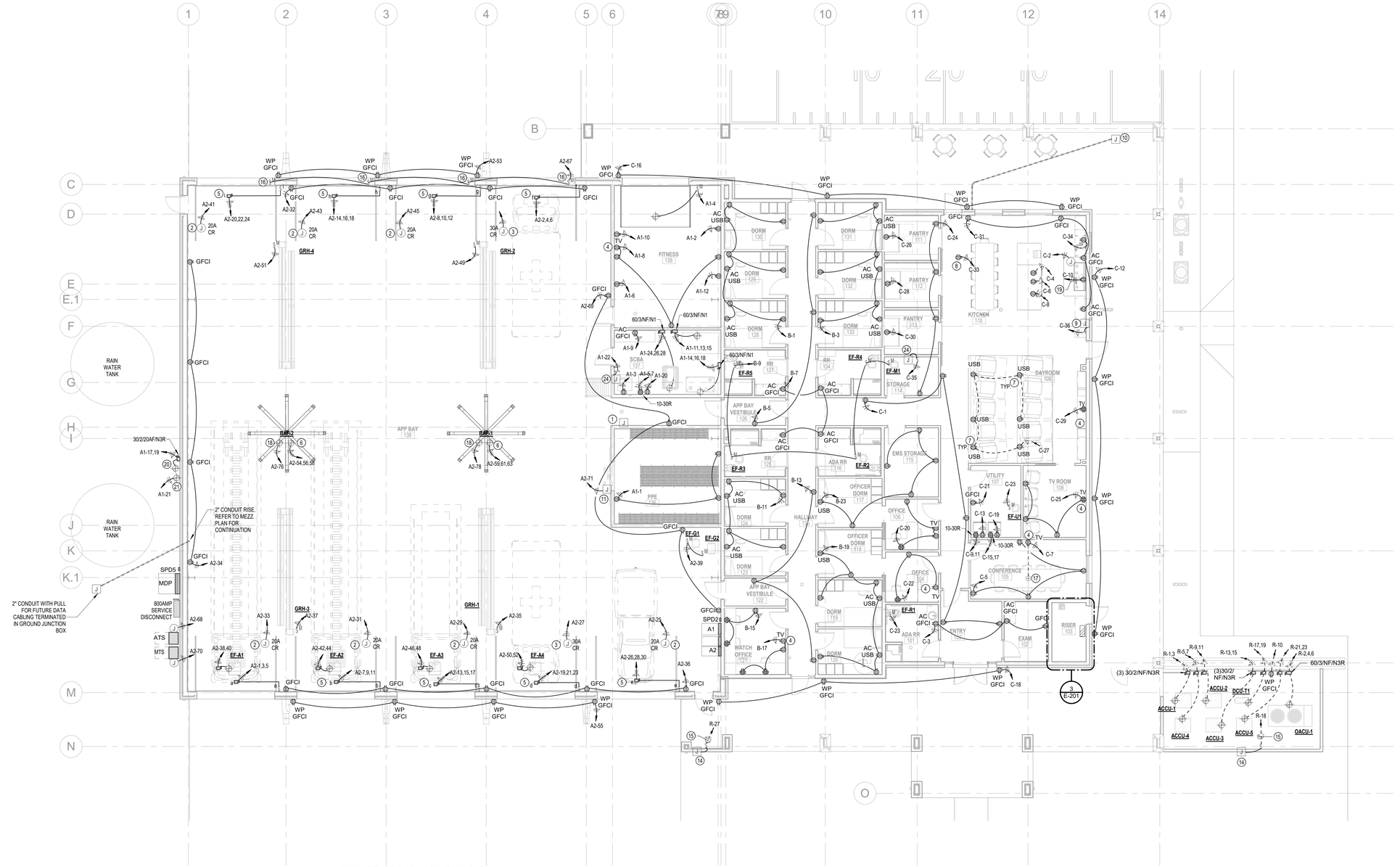
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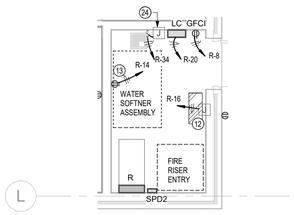
LIGHTING PLAN - MEZZANINE

E-102



1 POWER PLAN - LEVEL ONE

1/8" = 1'-0"



3 POWER PLAN - RISER ROOM

1/4" = 1'-0"

ELECTRICAL GENERAL NOTES APPLY TO ALL POWER PLANS

ELECTRICAL GENERAL NOTES

A. ELECTRICAL DEVICES SHOWN ARE NOT EXACT. ALL DEVICE LOCATIONS SHALL BE VERIFIED WITH ARCHITECTURAL MILLWORK, CASEWORK, AND GENERAL ELEVATION VIEWS.

B. ELECTRICAL CONTRACTOR SHALL PROVIDE CONDUIT, OUTLET BOXES, JUNCTION BOXES FOR ALL TECHNOLOGY, LOW VOLTAGE, ACCESS CONTROL SECURITY, SURVEILLANCE, AND OTHER DIVISION 27/28 SCOPE. REFER TO DIVISION 27/28 DRAWINGS AND SPECIFICATIONS FOR ALL WORK REQUIRED. OMISSION OF THIS SCOPE FROM DIV 26 SCOPE OF WORK IS PROHIBITED.

C. HVAC AND PLUMBING EQUIPMENT LOCATIONS ARE NOT EXACT, AND THE EXACT POINT OF CONNECTION TO EQUIPMENT MAY VARY. COORDINATE EXACT ROUGH-IN REQUIREMENTS IN FIELD AND WITH FINAL SUBMITTALS FOR ALL DIV. 21/22/23 EQUIPMENT.

D. PROVIDE LABELING OF ALL DEVICES, CONDUIT, PANELS, AND JUNCTION BOXES IN ACCORDANCE WITH ELECTRICAL SPECIFICATIONS.

E. MINIMIZE ROOF PENETRATIONS. WHERE ABLE, ROUTE ALL CONDUIT FOR ROOF MOUNTED EQUIPMENT THROUGH ROOF CURB. CONTRACTOR WILL BE RESPONSIBLE FOR COORDINATING NECESSARY WATER PROOFING AROUND ROOF PENETRATIONS WITH ROOFING INSTALLER.

F. ALL RECEPTACLES LOCATED IN RESTROOMS, JANITOR CLOSETS, MECHANICAL ROOMS, SERVING ELECTRIC DRINKING FOUNTAINS, OR LOCATED WITHIN 6' OF A SINK, LOCATED ABOVE A WET COUNTERTOP OR IN A KITCHEN OR COFFEE BAR SHALL BE GFCI. FEED-THRU GFCI/GFI IS PROHIBITED, ALL GFCI/GFI DEVICES SHALL BE PROVIDED WITH INDIVIDUAL TEST/RESET FEATURES.

G. MULTI-WIRE HOME RUNS SHALL NOT BE ALLOWED. PROVIDE DEDICATED NEUTRALS FOR ALL CIRCUITS. SHARING CONDUIT IS PERMISSIBLE WHERE TOTAL CONDUCTOR AMPACITY DERATING HAS BEEN PERFORMED BY ELECTRICAL CONTRACTOR. THE NEUTRAL IS CONSIDERED CURRENT-CARRYING.

H. ALL RECEPTACLES SHALL BE TAMPER RESISTANT TYPE. CONTRACTOR MAY PROVIDE NON-TAMPER-RESISTANT RECEPTACLES WHERE NOT REQUIRED PER CURRENT NEC ARTICLE 406.

I. LABEL ALL CIRCUITS AT ALL JUNCTION BOXES AND OUTLETS (AS DEFINED BY NEC) WITH TYPE-WRITTEN LABEL IDENTIFYING CIRCUIT ON THE BACK OF DEVICE COVER PLATES OR ON COVER OF JUNCTION BOX. IF A BOX HAS MULTIPLE CIRCUITS WITHIN, LABEL ALL CIRCUITS.

J. CONDUIT AND JUNCTION BOXES IN AREAS WITH EXPOSED STRUCTURE SHALL BE INSTALLED TIGHT TO STRUCTURE (OVERHEAD, WALLS, COLUMNS, ETC.).

ELECTRICAL KEYED NOTES

1. BAY DOOR CONTROL SWITCH BANK LOCATION. COORDINATE EXACT LOCATION WITH ARCHITECT AND DOOR INSTALLER PRIOR TO ROUGH-IN.
2. PROVIDE RETRACTABLE POWER CORD REEL WITH 120V, 20A RECEPTACLE AND 30FT CABLE FURNISHED WITH PIVOT BASE. PROVIDE DUPLEX RECEPTACLE AT COR REEL BASE. FIELD COORDINATE EXACT LOCATION CABLE LENGTH, AND ADDITIONAL REQUIREMENTS WITH ARCHITECT / OWNER PRIOR TO ROUGH-IN. PROVIDE WITH QUICK RELEASE PLUG. REFER TO ELECTRICAL DETAIL.
3. PROVIDE RETRACTABLE POWER CORD REEL WITH 120V, 30A RECEPTACLE AND 30FT CABLE FURNISHED WITH PIVOT BASE. PROVIDE DUPLEX RECEPTACLE AT COR REEL BASE. FIELD COORDINATE EXACT LOCATION CABLE LENGTH, AND ADDITIONAL REQUIREMENTS WITH ARCHITECT / OWNER PRIOR TO ROUGH-IN. PROVIDE WITH QUICK RELEASE PLUG. REFER TO ELECTRICAL DETAIL.
4. PROVIDE RECEPTACLE FOR TV. COORDINATE EXACT MOUNTING HEIGHT AND LOCATION WITH ARCHITECT.
5. PROVIDE ELECTRICAL CONNECTION FOR APPARATUS BAY DOOR CONTROLLER. FIELD COORDINATE EXACT LOCATION, CONTROL WIRING QUANTITIES AND ADDITIONAL REQUIREMENTS WITH DOOR INSTALLER PRIOR TO ROUGH-IN. ROUTE (1) 3/4" CONDUIT WITH CONTROL WIRE TO ASSOCIATED OPEN/CLOSE SWITCH.
6. ELECTRICAL CONNECTION FOR HVLS FAN . COORDINATE INSTALLATION WITH DIVISION 23. PROVIDE CONDUIT FOR LOW VOLTAGE CABLING TO FAN CONTROL SWITCH. CONTROL SWITCH SHALL BE PROVIDED WITH EQUIPMENT.
7. COMBINATION 20AMP / USB-C DUPLEX RECEPTACLE PER SPECIFICATIONS. COORDINATE ROUGH-IN HEIGHT WITH MILLWORK INSTALLER.
8. DEDICATED RECEPTACLE FOR ALERTING SYSTEM ACD. REFER TO WESTNET DRAWINGS FOR FURTHER INFORMATION. COORDINATE EXACT LOCATION AND MOUNTING HEIGHT WITH ALERTING SYSTEM INSTALLER PRIOR TO ROUGH-IN..
9. PROVIDE 120V ELECTRICAL CONNECTION AND DISCONNECT FOR ELECTRIC TRAP PRIMER. COORDINATE ALL ELECTRICAL WIRING AND FINAL LOCATION WITH DIVISION 22 INSTALLER. .
10. STUB UP EMPTY CONDUIT IN JUNCTION BOX FOR FUTURE USE. PROVIDE WITH PULLSTRING. COORDINATE ROUTING OF UNDERGROUND CONDUIT TO PANEL 'B' LOCATION.
11. PROVIDE 120V ELECTRICAL CONNECTION FOR GAS DETECTION DEVICE. COORDINATE MOUNTING HEIGHT AND ROUGH-IN LOCATION WITH DIVISION 23.
12. PROVIDE 120V ELECTRICAL CONNECTION FOR NITROGEN GAS GENERATOR. COORDINATE MOUNTING HEIGHT AND ROUGH-IN LOCATION WITH DIVISION.
13. PROVIDE 120V ELECTRICAL CONNECTION FOR WATER SOFTENER ASSEMBLY. COORDINATE MOUNTING HEIGHT AND ROUGH-IN LOCATION WITH DIVISION 22.
14. PROVIDE 120V ELECTRICAL CONNECTION FOR BUILDING SIGNAGE. COORDINATE ROUGH-IN AND DISCONNECT LOCATION WITH SIGNAGE INSTALLER.
15. ROUTE CIRCUIT THROUGH LIGHTING CONTACTOR AND BE PHOTOCELL CONTROLLED.
16. PROVIDE 120V ELECTRICAL CONNECTION FOR MOTORIZED DAMPER. COORDINATE ALL WIRING WITH DIVISION 23.
17. RECESSED ACTIVATED 2-GANG FLOORBOX PER SPECIFICATIONS. PROVIDE (1) 3/4" CONDUIT FOR POWER AND (1) SPARE 1-1/4" CONDUIT FOR DATA. CONDUITS SHALL BE ROUTED TO NEAREST WALL. FINAL ROUTING SHALL BE FIELD COORDINATED.
18. PROVIDE 120V ELECTRICAL CONNECTION FOR HVLS FAN. PROVIDE CONTROL WIRE TO LIGHT WALL CONTROLLER. LOCATION OF WALL CONTROLLER SHALL BE FIELD COORDINATED.
19. PROVIDE NORMALLY CLOSED RELAY FOR GAS RANGE CIRCUIT SHUT OFF. RELAY SHALL BE TIED INTO ALERTING SYSTEM APPLIANCE CONTROL DEVICE (ACD) AND SHALL DISCONNECT CIRCUIT WHEN ACD SHUT OFF IS ACTIVATED. COORDINATE ALL CONNECTIONS BETWEEN ACD AND APPLIANCE WITH ALERTING SYSTEM INSTALLER.
20. PROVIDE ELECTRICAL CONNECTION FOR RAIN TANK PUMP CONTROLLER. FIELD COORDINATE PUMP LOCATION AND FINAL ELECTRICAL REQUIREMENTS WITH RAIN TANK PROVIDER PRIOR TO ROUGH-IN.
21. PROVIDE 120V ELECTRICAL CONNECTION FOR PUMP ENCLOSURE HEATER. COORDINATE FINAL ELECTRICAL REQUIREMENTS WITH RAIN TANK PROVIDER PRIOR TO ROUGH-IN.

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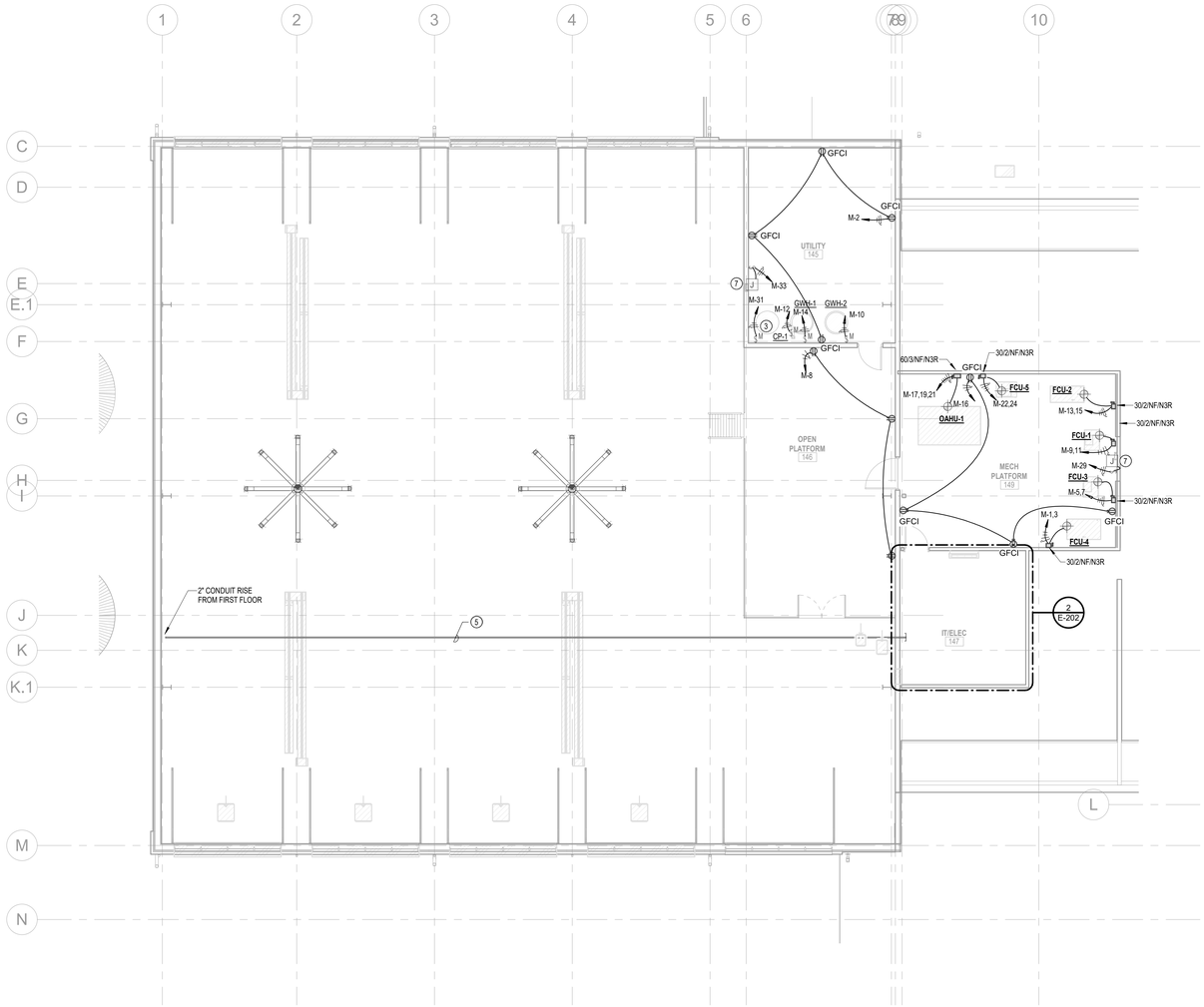
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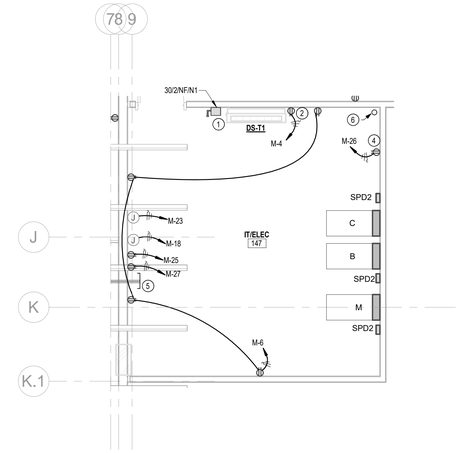
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POWER PLAN - LEVEL ONE

E-201



1 **POWER PLAN - MEZZANINE**
1/8" = 1'-0"



2 **POWER PLAN - ENLARGED IT AND ELEC. ROOM**
1/4" = 1'-0"

ELECTRICAL GENERAL NOTES

A. REFER TO SHEET E-201 FOR ELECTRICAL GENERAL NOTES

ELECTRICAL KEYED NOTES

1. DUCTELESS UNIT SHALL RECEIVE POWER FROM ASSOCIATED OUTDOOR CONDENSER. COORDINATE CONTROL AND ELECTRICAL WIRING CONNECTIONS BETWEEN THE TWO UNITS WITH DIVISION 23 INSTALLER.
2. PROVIDE RECEPTACLE HIGH ON WALL FOR DUCTLESS UNIT CONDENSER PUMP. COORDINATE ROUGH-IN LOCATION WITH DIVISION 23 INSTALLER.
3. 120V ELECTRICAL CONNECTION FOR OWNER PROVIDED AIR COMPRESSOR. COORDINATE FINAL LOCATION WITH OWNER PRIOR TO ROUGH-IN.
4. DEDICATED RECEPTACLE FOR ALERTING SYSTEM POWER MODULE AND UPS. REFER TO WESTNET DRAWINGS FOR FURTHER INFORMATION. COORDINATE FINAL LOCATION AND MOUNTING HEIGHT WITH ALERTING SYSTEM INSTALLER PRIOR TO ROUGH-IN.
5. 2" EMPTY CONDUIT WITH PULL STRING TO IT/ELEC. ROOM FOR FUTURE DATA CABLING. CAP CONDUIT AT WALL ONCE INSIDE ROOM. ROUTING SHALL BE COORDINATED WITH SUSPENDED EQUIPMENT LOCATED IN APPARATUS BAY. COORDINATE EXACT STUB-OUT LOCATION IN IT/ELEC. ROOM WITH ARCHITECT / OWNER.
6. 2" EMPTY CONDUIT WITH PULL STRING UP TO ROOF FOR FUTURE ANTENNA. CONDUIT SHALL BE CAPPED ABOVE ROOF. COORDINATE EXACT PENETRATION LOCATION WITH ARCHITECT / OWNER.
7. PROVIDE 120V ELECTRICAL CONNECTION AND DISCONNECT FOR ELECTRIC TRAP PRIMER. COORDINATE ALL ELECTRICAL WIRING AND FINAL LOCATION WITH DIVISION 22 INSTALLER.

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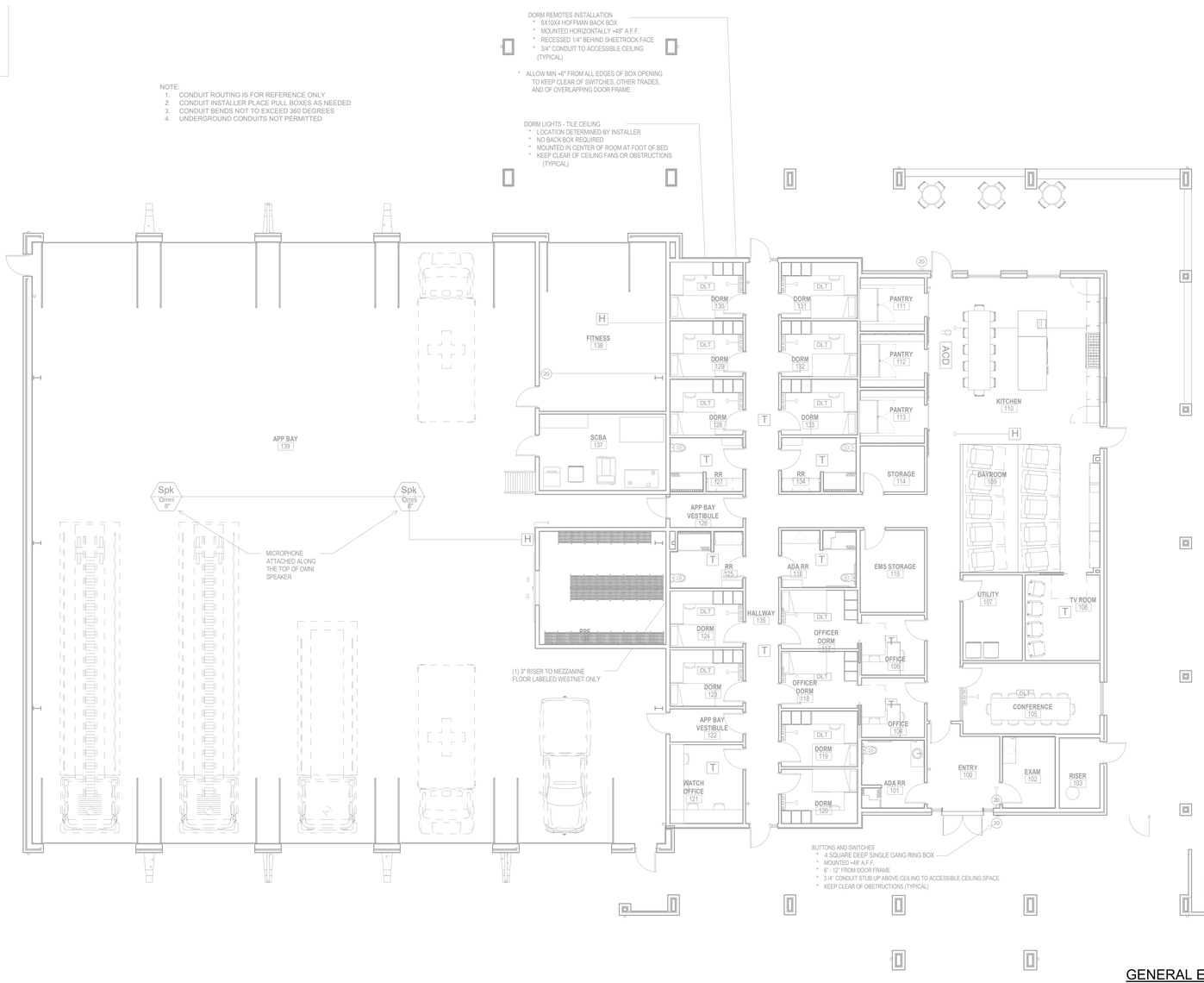
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POWER PLAN - MEZZANINE

E-202



ALERT SYSTEM - 1ST FLOOR CONDUIT LAYOUT PLAN

SCALE: N.T.S.

STATION ALERTING

SYMBOL LEGEND

MCU	MASTER CONTROL UNIT
DLSP	DATA LINE SURGE PROTECTOR
TIM	TELEPHONE INTERFACE MODULE
CR	CONTROL REMOTE
RIU	RADIO ISOLATION UNIT
AUX	AUXILLIARY MODULE
PM UPS	POWER MODULE WITH UPS-BLACK (DEDICATED 120V CIRCUIT REQUIRED, INDIVIDUAL BREAKER RECOMMENDED)
BK BX ASLF	CUSTOM BACKBOX PROVIDED BY WESTNET
BK BX DR	DORM REMOTE BACKBOX PROVIDED WESTNET
DLT	DORM LITE ACOUSTIC CEILING MOUNT KIT
H	8x10x4 HOFFMAN BACKBOX
T	ACOUSTIC CEILING KIT
J	JBOX
4S	4" SQUARE BOX
—	LOCATION OF DEVICE WALL MOUNTED

GENERAL NOTES

1. DEVICES ARE TYPICAL AND FOR REFERENCE ONLY.
2. ALL BACK BOXES & CONDUITS ARE TO BE FLUSH MOUNTED UNLESS OTHERWISE SPECIFIED FOR NEW CONSTRUCTION.
3. DEVICES LOCATED IN ACOUSTICAL CEILINGS DO NOT REQUIRE BACKBOXES
4. DEVICES LOCATED IN ACOUSTICAL CEILINGS REQUIRE ACOUSTICAL WESTNET MOUNTING KIT (SSATKIT-A)
5. DEVICES ONLY LOCATED IN SHEETROCK OR EXPOSED CEILINGS REQUIRE HOFFMAN BRAND 8X10X4 BACKBOX.
6. DEVICES ONLY LOCATED IN SHEETROCK OR EXPOSED CEILINGS REQUIRE APPROPRIATE WESTNET MOUNTING KIT (SURFACE MOUNT OR FLUSH MOUNT) FOR NEW CONSTRUCTION.
7. LOCATIONS OF DEVICES DETERMINED AT INSTALLATION BY INSTALLER FOR NEW CONSTRUCTION.
8. SEE ARCHITECTURAL SPECIFICATION FOR ALL ROUGH-IN AND INSTALLATION DETAILS FOR NEW CONSTRUCTION.
9. INSTALLER TO VERIFY WALL AND CEILING TYPE TO DETERMINE NEED FOR FLUSH OR SURFACE MOUNT INSTALLATION OF EQUIPMENT SPECIFIED FOR NEW CONSTRUCTION.
10. ALL WIRING AND DEVICES TO BE INSTALLED BY WESTNET.
11. ALL PENETRATION TO EXTERIOR DEVICES MUST BE WEATHERPROOF AND FIRE CAULKED FOR CONSTRUCTION BY OTHERS.
12. DEVICES LOCATED IN BATHROOM/SHOWER AREAS MUST BE VISIBLE FROM SHOWERS. INSTALLER TO FIELD VERIFY DEVICE LOCATION. (TYPICAL)
13. ALL DEVICES MUST BE KEPT CLEAR OF OBSTRUCTIONS & CEILING FAN BLADES.
14. IN ACOUSTICAL CEILING (T-BAR), WIRE CABLING IS FREE WIRE (NOT IN CONDUIT).
15. IN GYPSUM BOARD CEILING (SHEET ROCK / HARD LID), WIRE CABLING IN IN 3/4" CONDUIT UNLESS CONDUIT SIZE OTHERWISE NOTED.
16. IN EXPOSED AREAS ONLY 8X10X4 HOFFMAN BACK BOX MOUNTED AT +10'-0" A.F.F. MAX. WITH OPEN FACE DOWN IN CENTER OF ROOM WITH 3/4" CONDUIT TO ACCESSIBLE CEILING SPACE. KEEP CLEAR OF OBSTRUCTIONS.
17. A 5 OHM EARTH GROUND MUST BE CONNECTED TO THE RADIO ISOLATION UNIT IN THE COMMUNICATION RACK.
18. THE RADIO RECEIVING THE DISPATCH INFORMATION SHALL BE LOCATED WITHIN 6'-0" FT. OF THE RADIO ISOLATION UNIT.
19. INSTALLER TO PROVIDE ONE ADDITIONAL UNCONNECTED BLUE CAT5 CABLE WITH RJ45 CONNECTORS ON BOTH ENDS BETWEEN THE MCU LOCATION AND EACH ALERTING END POINT FOR NETWORK CONNECTIVITY.
20. ALL BUTTONS AND SWITCHES
* 4 SQUARE DEEP SINGLE GANG RING BOX
* MOUNTED +48" A.F.F.
* 6" - 12" FROM DOOR FRAME
* 3 /4" CONDUIT STUB UP ABOVE CEILING TO ACCESSIBLE CEILING SPACE.
* KEEP CLEAR OF OBSTRUCTIONS (TYPICAL)
*3/4" CONDUIT TO MCU LOCATION

GENERAL ELECTRICAL NOTES

A. ELECTRICAL CONTRACTOR SHALL PROVIDE CONDUIT, OUTLET BOXES, JUNCTION BOXES FOR ALL ALERTING SYSTEM SCOPE OF WORK. REFER TO WESTNET ALERTING SYSTEM DRAWINGS AND SPECIFICATIONS FOR ALL WORK REQUIRED. OMISSION OF THIS SCOPE FROM DIV 26 SCOPE OF WORK IS PROHIBITED.

B. ALERTING SYSTEM CONDUIT PLAN (SHEET AS3.1) PROVIDED FOR REFERENCE AND INITIAL COORDINATION. DEVICES SHOWN ARE NOT EXACT. ALL DEVICE LOCATIONS SHALL BE VERIFIED WITH FINAL ALERTING SYSTEM DOCUMENTS. ARCHITECTURAL MILLWORK, CASEWORK, AND GENERAL ELEVATION VIEWS.

C. LABEL ALL CIRCUITS AT ALL JUNCTION BOXES AND OUTLETS (AS DEFINED BY NEC) WITH TYPE-WRITTEN LABEL IDENTIFYING CIRCUIT ON THE BACK OF THE DEVICE COVER PLATES OR ON COVER OF JUNCTION BOX. IF A BOX HAS MULTIPLE CIRCUITS WITHIN, LABEL ALL CIRCUITS.

D. PROVIDE FIRE CAULK & SEAL FOR ALL FIRE-RATED PENETRATIONS.

E. PROVIDE 1-1/2" (MINIMUM UNLESS INDICATED OTHERWISE) EMPTY CONDUIT FOR SPECIALTY SYSTEMS WITH PULLSTRING BACK TO I.T. ROOM. COORDINATE LOCATION OF SPECIALTY DEVICES WITH ARCHITECT PRIOR TO INSTALLATION.

F. CONDUIT AND JUNCTION BOXES IN AREAS WITH EXPOSED STRUCTURE SHALL BE INSTALLED TIGHT TO STRUCTURE (OVERHEAD, WALLS, COLUMNS, ETC.), UNLESS INDICATED OTHERWISE ON STATION ALERTING PLANS, .

WESTNET IN SYSTEM LAYOUT REVIEW

PROJECT: HAYS FIRE STATION # 42

DEPARTMENT: WIMBERLEY, TX

DATE SUBMITTED:

☐ Approved subject to notations and corrections as indicated.

____ Re-submit corrected Layout for our approval.

____ Re-submittal of Layout not required.

☐ Rejected/Re-submit Layout

Remarks: _____

DATE RETURNED:

REVIEWED BY: _____

DEPT TITLE:

This serves to Certify that this Layout submittal(s) have been reviewed for accuracy and compliance with the general conformance of the design and layout(only) with the Department Contact and/or Contract Documents.

ONLY AFTER APPROVAL OF LAYOUT WILL SUBMITTAL INFORMATION AND QUOTES BE AVAILABLE.

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Civil
Hill Country Civil

Landscape
Evergreen Landscape Group

Structural
Matrix Structural

MEP
Emerald MEP

Technology
Imagine IT

Alerting
WestNET

STATION #42

Hays County ESD #4

Wimberley, TX 78676

PROJECT No: **MA 25016**
DATE: **20-OCT-2026**

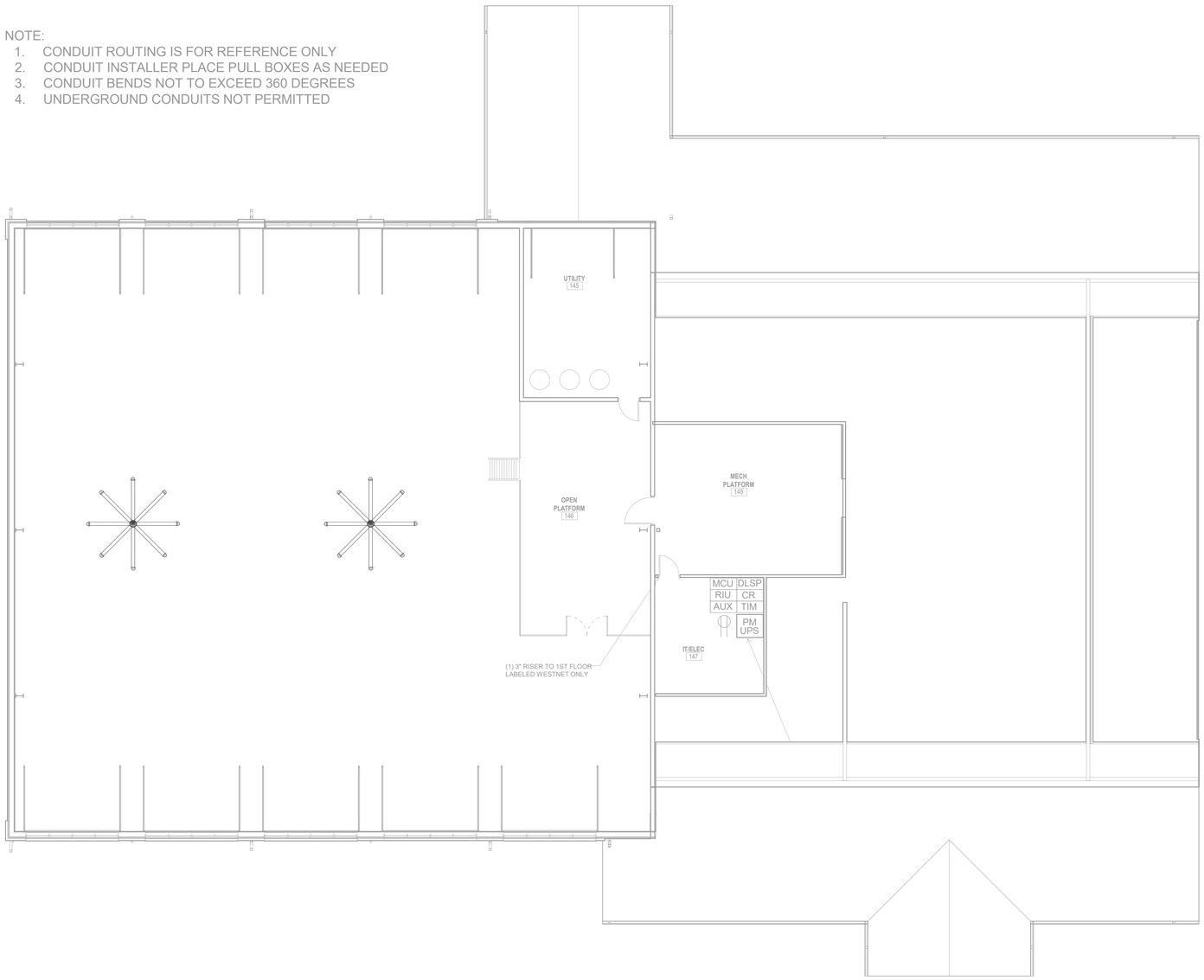
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IFP	01-JUN-2026
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ALERTING SYSTEM PLAN - LEVEL ONE

E-301

NOTE:
1. CONDUIT ROUTING IS FOR REFERENCE ONLY
2. CONDUIT INSTALLER PLACE PULL BOXES AS NEEDED
3. CONDUIT BENDS NOT TO EXCEED 360 DEGREES
4. UNDERGROUND CONDUITS NOT PERMITTED



ALERT SYSTEM - MEZZANINE CONDUIT LAYOUT PLAN

SCALE: N.T.S.

STATION ALERTING

SYMBOL LEGEND

MCU	MASTER CONTROL UNIT
DLSP	DATA LINE SURGE PROTECTOR
TIM	TELEPHONE INTERFACE MODULE
CR	CONTROL REMOTE
RIU	RADIO ISOLATION UNIT
AUX	AUXILLIARY MODULE
PM UPS	POWER MODULE WITH UPS-BLACK (DEDICATED 120V CIRCUIT REQUIRED. INDIVIDUAL BREAKER RECOMMENDED)
BK BX ASLF	CUSTOM BACKBOX PROVIDED BY WESTNET
BK BX DR	DORM REMOTE BACKBOX PROVIDED WESTNET
DLT	DORM LITE ACOUSTIC CEILING MOUNT KIT
H	8x10x4 HOFFMAN BACKBOX
C	ACOUSTIC CEILING KIT
J	JBOX
S	4" SQUARE BOX
—	LOCATION OF DEVICE WALL MOUNTED

GENERAL NOTES

1	DEVICES ARE TYPICAL AND FOR REFERENCE ONLY.
2	ALL BACK BOXES & CONDUITS ARE TO BE FLUSH MOUNTED UNLESS OTHERWISE SPECIFIED FOR NEW CONSTRUCTION.
3	DEVICES LOCATED IN ACOUSTICAL CEILINGS DO NOT REQUIRE BACKBOXES
4	DEVICES LOCATED IN ACOUSTICAL CEILINGS REQUIRE ACOUSTICAL WESTNET MOUNTING KIT (SSATKIT-A)
5	DEVICES ONLY LOCATED IN SHEETROCK OR EXPOSED CEILINGS REQUIRE HOFFMAN BRAND 8X10X4 BACKBOX
6	DEVICES ONLY LOCATED IN SHEETROCK OR EXPOSED CEILINGS REQUIRE APPROPRIATE WESTNET MOUNTING KIT (SURFACE MOUNT OR FLUSH MOUNT) FOR NEW CONSTRUCTION.
7	LOCATIONS OF DEVICES DETERMINED AT INSTALLATION BY INSTALLER FOR NEW CONSTRUCTION.
8	SEE ARCHITECTURAL SPECIFICATION FOR ALL ROUGH-IN AND INSTALLATION DETAILS FOR NEW CONSTRUCTION.
9	INSTALLER TO VERIFY WALL AND CEILING TYPE TO DETERMINE NEED FOR FLUSH OR SURFACE MOUNT INSTALLATION OF EQUIPMENT SPECIFIED FOR NEW CONSTRUCTION.
10	ALL WIRING AND DEVICES TO BE INSTALLED BY WESTNET.
11	ALL PENETRATION TO EXTERIOR DEVICES MUST BE WEATHERPROOF AND FIRE CAULKED FOR CONSTRUCTION BY OTHERS.
12	DEVICES LOCATED IN BATHROOM/SHOWER AREAS MUST BE VISIBLE FROM SHOWERS. INSTALLER TO FIELD VERIFY DEVICE LOCATION. (TYPICAL)
13	ALL DEVICES MUST BE KEPT CLEAR OF OBSTRUCTIONS & CEILING FAN BLADES.
14	IN ACOUSTICAL CEILING (T-BAR), WIRE CABLING IS FREE WIRE (NOT IN CONDUIT).
15	IN GYPSUM BOARD CEILING (SHEET ROCK / HARD LID), WIRE CABLING IN IN 3/4" CONDUIT UNLESS CONDUIT SIZE OTHERWISE NOTED.
16	IN EXPOSED AREAS ONLY 8X10X4 HOFFMAN BACK BOX MOUNTED AT +10'-0" A.F.F. MAX. WITH OPEN FACE DOWN IN CENTER OF ROOM WITH 3/4" CONDUIT TO ACCESSIBLE CEILING SPACE, KEEP CLEAR OF OBSTRUCTIONS.
17	A 5 OHM EARTH GROUND MUST BE CONNECTED TO THE RADIO ISOLATION UNIT IN THE COMMUNICATION RACK.
18	THE RADIO RECEIVING THE DISPATCH INFORMATION SHALL BE LOCATED WITHIN 6'-0" FT. OF THE RADIO ISOLATION UNIT.
19	INSTALLER TO PROVIDE ONE ADDITIONAL UNCONNECTED BLUE CAT5 CABLE WITH RJ45 CONNECTORS ON BOTH ENDS BETWEEN THE MCU LOCATION AND EACH ALERTING END POINT FOR NETWORK CONNECTIVITY.
20	All BUTTONS AND SWITCHES * 4 SQUARE DEEP SINGLE GANG RING BOX * MOUNTED +48" A.F.F. * 6" - 12" FROM DOOR FRAME * 3 /4" CONDUIT STUB UP ABOVE CEILING TO ACCESSIBLE CEILING SPACE. * KEEP CLEAR OF OBSTRUCTIONS (TYPICAL) *3/4" CONDUIT TO MCU LOCATION

WESTNET IN SYSTEM LAYOUT REVIEW

PROJECT: HAYS FIRE STATION # 42

DEPARTMENT: WIMBERLEY, TX

DATE SUBMITTED:

- ☐ Approved subject to notations and corrections as indicated.
- ___ Re-submit corrected Layout for our approval.
- ___ Re-submittal of Layout not required.
- ☐ Rejected/Re-submit Layout

Remarks: _____

DATE RETURNED:

REVIEWED BY: _____

DEPT TITLE:

This serves to Certify that this Layout submittal(s) have been reviewed for accuracy and compliance with the general conformance of the design and layout(only) with the Department Contact and/or Contract Documents.

ONLY AFTER APPROVAL OF LAYOUT WILL SUBMITTAL INFORMATION AND QUOTES BE AVAILABLE.

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EMERALD MEP
TX FIRM No. F-24826
PROJECT No. 25018

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M. JACQUELINE CHANG
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2026-10-20

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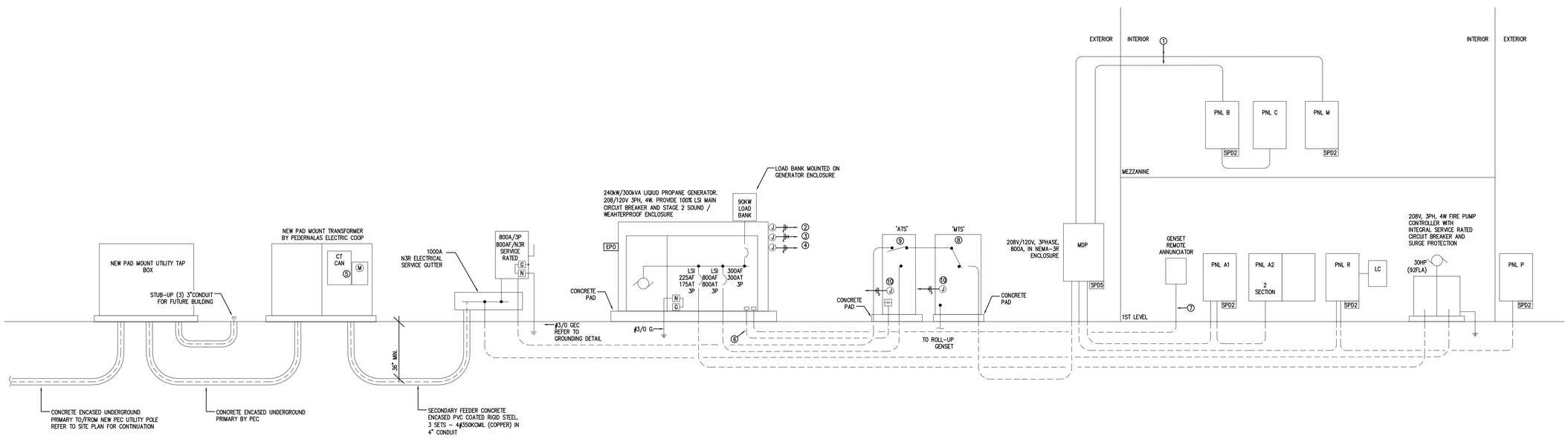
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ALERTING SYSTEM PLAN - MEZZANINE

E-302



ELECTRICAL ONE-LINE DIAGRAM

NOTE TO SCALE

FEEDER SCHEDULE

COPPER CONDUCTORS				ALUMINUM CONDUCTORS		
AMPERAGE	SETS	CONDUCTOR SIZE	CONDUIT (INCHES)	SETS	CONDUCTOR SIZE	CONDUIT (INCHES)
30A	1	4#10, 1#10 G.	3/4"C	N/A	N/A	N/A
40A	1	4#8, 1#10 G.	1"C	N/A	N/A	N/A
50A	1	4#8, 1#10 G.	1"C	N/A	N/A	N/A
60A	1	4#6, 1#10 G.	1"C	N/A	N/A	N/A
70A	1	4#4, 1#8 G.	1 1/4"C	N/A	N/A	N/A
80A	1	4#4, 1#8 G.	1 1/4"C	N/A	N/A	N/A
90A	1	4#3, 1#8 G.	1 1/4"C	N/A	N/A	N/A
100A	1	4#3, 1#8 G.	1 1/4"C	1	4#1, 1#6 G.	1 1/2"C
125A	1	4#1, 1#6 G.	1 1/2"C	1	4#2/0, 1#4 G.	2"C
150A	1	4#1/0, 1#6 G.	1 1/2"C	1	4#3/0, 1#4 G.	2"C
175A	1	4#2/0, 1#6 G.	2"C	1	4#4/0, 1#4 G.	2 1/2"C
200A	1	4#3/0, 1#6 G.	2"C	1	4#250KCMIL, 1#4 G.	2 1/2"C
225A	1	4#4/0, 1#4 G.	2 1/2"C	1	4#300KCMIL, 1#2 G.	3"C
250A	1	4#250KCMIL, 1#4 G.	2 1/2"C	1	4#350KCMIL, 1#2 G.	3"C
300A	1	4#350KCMIL, 1#4 G.	3"C	1	4#500KCMIL, 1#2 G.	4"C
350A	1	4#500KCMIL, 1#3 G.	3 1/2"C	2	4#4/0, 1#1 G.	2 1/2"C
400A	1	4#600KCMIL, 1#3 G.	4"C	2	4#250KCMIL, 1#1 G.	2 1/2"C
450A	2	4#4/0, 1#2 G.	2 1/2"C	2	4#300KCMIL, 1#1/0 G.	3"C
500A	2	4#250KCMIL, 1#2G.	2 1/2"C	2	4#350KCMIL, 1#1/0 G.	3"C
600A	2	4#350KCMIL, 1#1G.	3"C	2	4#500KCMIL, 1#2/0 G.	4"C
700A	2	4#500KCMIL, 1#1/0G.	4"C	3	4#350KCMIL, 1#3/0 G.	3"C
800A	3	4#350KCMIL, 1#1/0G.	4"C	3	4#400KCMIL, 1#3/0 G.	3 1/2"C
1000A	3	4#500KCMIL, 1#1/2G.	4"C	4	4#350KCMIL, 1#4 G.	3"C

FEEDER SCHEDULE NOTES:

1. ALUMINUM CONDUCTORS SHALL BE COMPRESSION TYPE CONDUCTORS AND SHALL USE PENETROX WITH COMPRESSION TERMINATION FITTINGS.
2. ELECTRICAL CONTRACTOR SHALL PROVIDE THE NUMBER OF LUGS AND PROPER LUG SIZES TO ACCEPT CONDUCTOR SIZES SHOWN.
3. GROUND NOT REQUIRED FOR SERVICE LATERAL.

SURGE PROTECTION DEVICE (SPD) SCHEDULE

MARK	MANUFACTURER	MODEL #	VOLTAGE	PER MODE/PHASE RATING	PHASE	BREAKER SIZE	STT TIER GUIDE CABLE SIZE
SPD2	SOUTHERN TIER TECHNOLOGIES	T45120Y100AWAJ2S	208/120V	100/200kA	3	30A/3P	5 #10, 3/4" C.
SPD5	SOUTHERN TIER TECHNOLOGIES	T45120Y125ALAM1C	208/120V	125/250kA	3	60A/3P	5 #6, 1 1/2" C.

*ALL T45 SERIES SPD ENCLOSURES INSTALLED IN FOOD SERVICE AREAS (IE. KITCHENS, SNACK BARS, FOOD LABS, CULINARY ARTS ROOMS AND LIFE SKILLS ROOMS) SHALL BE RECESSED IN THE WALL. PROVIDE RECESSED WALL KIT #RKSS.

Load Analysis - Wimberley FS #42

208Y / 120V, 3-PHASE, 4-WIRE — Date: 10/20/2026

DESCRIPTION						NEC	KVA
LIGHTING:							
INTERIOR =	16,981	S.F.	X	1.30	W/S.F	220.12	22.1
EXTERIOR =	3,829	VA					4.8
POWER:							
RECEPTACLES =	16,981	S.F.	X	3 VA/SF	50943 VA	220.44	
First	10,000 V.A.		X	100%	10000 VA		10.0
Remaining	40943 V.A.		X	50%	20472 VA		20.5
			QTY:				
OVERHEAD DOORS (1.5HP)=	1,335	VA	9				12.0
MISCELLANEOUS=	32,880	VA					32.9
KITCHEN =	4,200	VA				220.56	2.7
WASHER EXTRACTOR (9HP) =	6,317	VA					6.3
DRYING CABINET =	7,229	VA					7.2
SCBA (10HP)	13,124	VA					13.1
HVAC:							
COOLING =	53,329	VA					53.3
HEATING =	17,309	VA					0.0
FANS =	16,440	VA					16.4
PLUMBING:							
WATER HEATER =	509	VA					0.5
DRINKING FOUNTAIN =	509	VA					0.5
CIRCULATING PUMP =	509	VA					0.5
PUMPS:							
FIRE PUMP =	30	HP	92 F.L.A.				33.2
JOCKEY PUMP =	5	HP	17.5 F.L.A.				12.6
25% OF LARGEST MOTOR =	8,300	VA					8.3
FUTURE BUILDING =	57,760	VA					57.8
						TOTAL =	314.7
						FIRE PUMP:	33.2
						SERVICE CUTTER:	281.5
						TOTAL AMPS:	873.7
SQUARE FOOTAGE 16,981						SERVICE SIZE:	1000.0
						SPARE AMPACITY:	126.3

ONE-LINE DIAGRAM GENERAL NOTES:

A. MANUFACTURER OF ELECTRICAL GEAR SHALL PROVIDE A COORDINATION STUDY FOR THE ENTIRE ELECTRICAL SYSTEM IN ORDER TO SET BREAKERS. REFER TO SPECIFICATIONS. MANUFACTURER SHALL ALSO PROVIDE A FAULT CIRCUIT STUDY FOR THE ENTIRE ELECTRICAL SYSTEM IN ORDER TO SELECT INTERRUPTING RATINGS OF ALL CIRCUIT BREAKERS, DISTRIBUTION PANELBOARDS, PANELBOARDS, ETC. A FULLY RATED SYSTEM SHALL BE USED. CONTRACTOR SHALL SUBMIT STUDIES FOR REVIEW BEFORE SUBMITTING ELECTRICAL DISTRIBUTION EQUIPMENT FOR REVIEW. REFER TO SPECIFICATION SECTION 26 05 73.

B. ALL CONDUCTORS SHALL BE COPPER UNLESS OTHERWISE SCHEDULED.

C. CONTRACTOR SHALL INSTALL FEEDERS BASED ON THE OVERCURRENT DEVICE RATING UNLESS OTHERWISE NOTED. CONTRACTOR SHALL REFER TO THE FEEDER SCHEDULE TO OBTAIN AND INSTALL THE FEEDERS REQUIRED.

D. SERVICE EQUIPMENT SHALL BE LEGIBLY MARKED IN THE FIELD WITH THE MAXIMUM AVAILABLE FAULT CURRENT AT THE TIME OF INSTALLATION AND CALCULATION. THE LABEL SHALL BE 2" X 3" IN SIZE AND SHALL BE BLUE LETTERING ON A CONTRASTING BACKGROUND. THIS LABEL SHALL ALSO INCLUDE THE DATE OF THE CALCULATION.

E. PRIOR TO INSTALLATION OF UNDERGROUND FEEDERS, THE ELECTRICAL CONTRACTOR SHALL SUBMIT AN UNDERGROUND ROUTING PLAN TO THE ENGINEER OF RECORD., INDICATING THE EXACT ROUTING PATH FOR ALL UNDERGROUND CONDUIT. INDICATE STUB-UP LOCATIONS, SIZE AND QUANTITY OF CONDUIT. ALL ELECTRICAL PANELS AND EQUIPMENT SHALL BE SHOWN ON THIS PLAN FOR REFERENCE OF CONDUIT TERMINATION.

F. CONTRACTOR SHALL PROVIDE ALL EQUIPMENT AND CONDUIT AS REQUIRED BY CENTERPOINT ENERGY FOR METERING PURPOSES.

ONE-LINE DIAGRAM KEYED NOTES:

1. CONDUIT SHALL BE ROUTED AS HIGH AS POSSIBLE ACROSS APPARATUS BAY TO PANEL LOCATION. COORDINATE ROUTING WITH OTHER TRADES.
2. 120V JUNCTION BOX CONNECTION TO GENERATOR'S ALTERNATOR STRIP HEATER. FIELD COORDINATE EXACT LOCATION AND ADDITIONAL MANUFACTURER'S REQUIREMENTS WITH GENERATOR INSTALLER PRIOR TO ROUGH-IN.
3. 208V/1P JUNCTION BOX CONNECTION TO GENERATOR'S COOLANT HEATER. FIELD COORDINATE EXACT LOCATION AND ADDITIONAL MANUFACTURER'S REQUIREMENTS WITH GENERATOR INSTALLER PRIOR TO ROUGH-IN.
4. 120V JUNCTION BOX CONNECTION FOR GENERATOR BATTERY CHARGER. FIELD COORDINATE EXACT LOCATION AND ADDITIONAL MANUFACTURER'S REQUIREMENTS WITH GENERATOR INSTALLER PRIOR TO ROUGH-IN.
5. CONTRACTOR SHALL PROVIDE METER AND CT ENCLOSURE. UTILITY EQUIPMENT SHALL BE MOUNTED TO UTILITY POLE PER PEC STANDARDS.
6. PROVIDE 1" EMPTY CONDUIT WITH PULL STRING TO 'ATS' FOR GENERATOR CONTROLS.
7. PROVIDE 1" EMPTY CONDUIT WITH PULL STRING TO GENERATOR ANNUNCIATOR. REFER TO POWER PLANS FOR LOCATION.
8. 1000AMP, 4P, 4W MANUAL TRANSFER SWITCH 'MTS' WITH 65,000 AIC RATING. PROVIDE WITH NEMA 3R ENCLOSURE. 'MTS' SHALL BE PROVIDED WITH INTEGRAL QUICK CONNECTIONS.
9. 1000AMP, 4P, 4W AUTOMATIC TRANSFER SWITCH 'ATS' WITH 65,000 AIC RATING. PROVIDE WITH NEMA 3R ENCLOSURE.
10. 120V JUNCTION BOX CONNECTION TO TRANSFER SWITCH ANTI-CONDENSATE STRIP HEATER. FIELD COORDINATE EXACT LOCATION AND ADDITIONAL MANUFACTURER'S REQUIREMENTS WITH GENERATOR INSTALLER PRIOR TO ROUGH-IN. REFER TO MEP SITE PLAN FOR ASSIGNED CIRCUIT.

EMERALD MEP
TX FIRM No. F-24826
PROJECT No. 25018

PROFESSIONAL SEAL

STATE OF TEXAS
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ELECTRICAL ONE-LINE DIAGRAM

E-401

STANDARD SEQUENCE OF OPERATIONS	AUTO ON	MANUAL ON (VACANCY)	AUTO OFF (20MIN MAX)	PARTIAL OFF AT NORMAL HOURS	AUTO OFF AFTER HOURS (30MIN MAX)	TIME ON	TIME OFF	ASTRONOMIC OR PHOTOCELL ON/OFF	AUTO STEP CONTROL WITH OFF	AUTO CONTINUOUS DIM WITH OFF	MANUAL BI-LEVEL REDUCTION CONTROL	MANUAL CONTINUOUS DIM CONTROL	MANUAL ON/OFF SWITCH	MANUAL DIMMER SWITCH	DISPLAY, ACCENT, TASK CONTROL	
ROOM TYPE	**OCCUPANCY SENSOR**					**TIME SWITCH**			**LT REDUCT**		**MANUAL CONTROL**					**SEQUENCE OF OPERATION**
Entry	100%	•	20 MIN						•		•					Auto On 100%. Occupancy sensor Auto Off; Manual control.
Small Offices	50%		20 MIN						•		•					Auto On 50%; Occupancy sensor Auto Off; Manual control and ≥50% light reduction with two on/off controls.
Conference Room	50%	•	20 MIN						•		•		•			Auto On 50%; Occupancy sensor Auto Off; Manual control and ≥50% light reduction with two on/off controls; use dimmer switch.
Pantry	50%		20 MIN						•		•					Auto On 50%; Occupancy sensor Auto Off; Manual control and ≥50% light reduction with two on/off controls.
ADA Restroom	100%		20 MIN								•					Auto On 100%. Occupancy sensor Auto Off; Manual control.
TV Room	50%	•	20 MIN						•		•		•			Auto On 50%; Occupancy sensor Auto Off; Manual control and ≥50% light reduction with two on/off controls; use dimmer switch.
Storage Room	50%		20 MIN						•		•					Auto On 50%; Occupancy sensor Auto Off; Manual control and ≥50% light reduction with two on/off controls.
Fitness Room	50%	•	20 MIN						•		•					Auto On 50%; Occupancy sensor Auto Off; Manual control and ≥50% light reduction with two on/off controls.
Building Façade / Landscape / Flag Pole						DAWN	DUSK	•								Dusk Auto On with astro time switch or photocell; Evening Time Auto Off no later than one hour after business close. Morning Time Auto On no earlier than one hour before business open; Dawn Auto Off.
Parking / Site Lighting						6AM	12AM	•								Dusk Auto On with astro time switch or photocell; Reduce at least 30% from midnight or up to one hour after business close. Auto On to full at 6:00AM or up to one hour before business open. Dawn Auto Off.

•= Designation for code compliant default control design.

LIGHTING CONTROLS DEVICE SCHEDULE

TYPE	DESCRIPTION	COMMENTS
S S^3 S^4	LINE VOLTAGE SWITCH.	'3' INDICATES THREE WAY SWITCHING. '4' INDICATES FOUR WAY SWITCHING.
S^{MC}	LINE VOLTAGE MOMENTARY CONTACT SWITCH.	
S^{T}	LINE VOTAGE SPRING WOUND TIMER SWITCH.	RATED FOR 120/277VAC. USER PROGRAMMABLE FOR 0MIN-4HR TIME-OUT SETTINGS.
S^{OC1}	LINE VOLTAGE WALL MOUNT DUAL TECHNOLOGY OCCUPANCY SENSOR	SENSOR SHALL BE SET TO VACANCY MODE
S^{OC2}	LINE VOLTAGE WALL MOUNT DUAL TECHNOLOGY OCCUPANCY SENSOR	SENSOR SHALL BE SET TO OCCUPANCY MODE
S^{LV}	LOW VOLTAGE MANUAL CONTROL.	CONNECT TO POWER PACK OR ROOM CONTROLLER IF OCCUPANCY SENSORS ARE INDICATED ON PLAN. PROVIDE MULTI-BUTTON SWITCH AS REQUIRED PER SWITCH LEGS SHOWN ON PLANS.
S^{D}	LOW VOLTAGE SWITCH WITH 0-10V DIMMER	PROVIDE MULTI-BUTTON SWITCH AS REQUIRED PER SWITCH LEGS SHOWN ON PLANS. PROVIDE POWER PACKS OR ROOM CONTROLLERS AS REQUIRED.
OC1	CEILING MOUNTED DUAL TECH OCCUPANCY SENSOR.	SET TO VACANCY MODE. PROVIDE POWER PACKS AS NEEDED.
OC2	CEILING MOUNTED DUAL TECH OCCUPANCY SENSOR.	SET TO OCCUPANCY MODE. PROVIDE POWER PACKS AS REQUIRED.

NOTES:
1. GREENGATE IS THE BASIS OF DESIGN.
2. THE LIGHTING CONTROLS SCHEDULED ARE THE BASIS OF DESIGN. IT IS NOT INTENDED TO LIMIT COMPETITION FROM EQUAL MANUFACTURERS. ALL BIDDERS SHALL SUBMIT THEIR PROPOSED LIGHTING CONTROLS IN SUBMITTAL FORM A MINIMUM OF 10 BUSINESS DAYS PRIOR TO BID DATE FOR REVIEW. APPROVED LIGHTING CONTROL SYSTEMS WILL BE ISSUED IN AN ADDENDUM.

LIGHTING FIXTURE SCHEDULE

TYPE	MANUFACTURE	MODEL	MOUNTING	NO. OF LAMPS	LAMPS	VOLTAGE	WATTAGE	DESCRIPTION
B	METALUX	22CBRK-XX-UNV-L840-DC1-WPS-U	RECESSED	1	4K LED	120 V	27 VA	2X4 LED TROFFER PANEL FIXTURE
BE	METALUX	22CBRK-XX-UNV-L840-DC1-WPS-U-EL14W	RECESSED	1	4K LED	120 V	27 VA	SAME AS 'B1' EXCEPT WITH BATTERY BACK UP
CFL	HUNTER	ANISTEN 44IN FINISH (52490)	CEILING	1	LED	120 V	28 VA	CEILING FAN WITH LIGHT KIT
D1	HALO	HSICAT /518XX TRIM	RECESSED	1	4K LED	120 V	17 VA	6" CAN HOUSING. FIXTURE SHALL UTILIZE E26 SOCKET ADAPTOR. PROVIDE WITH 4000K LED BULB
D2	HALO	HSICAT / 5145WH SHOWER TRIM / XX	RECESSED	1	4K LED	120 V	17 VA	6" CAN HOUSING. FIXTURE SHALL UTILIZE E26 SOCKET ADAPTOR. PROVIDE WITH 4000K LED BULB
D3	HALO	HSICAT / 5165XX TRIM / XX	RECESSED	1	27K LED	120 V	17 VA	6" CAN HOUSING. PROVIDE WITH SLOPE ADAPTOR. FIXTURE SHALL UTILIZE E26 SOCKET ADAPTOR. PROVIDE WITH 2700K LED BULB
D4	HALO	HSICAT / 5054SNS TRIM	RECESSED	1	27K LED	120 V	17 VA	6" CAN HOUSING. FIXTURE SHALL UTILIZE E26 SOCKET ADAPTOR. PROVIDE WITH 2700OK LED BULB
EM1	SURE-LITES	APZSQLED30	WALL	1	LED	120 V	2 VA	EMERGENCY LIGHT, TWO SQUARE LED HEADS
EM2	SURE-LITES	AEL2-31-FINISH-SD	WALL	1	LED	120 V	2 VA	NORMALLY OFF. EMERGENCY ONLY LIGHT FIXTURE
F1	METALUX	4SNX-57SL-FDL-UNV-L940+CD-1-U / AYC-CHAINSET-BLK-U	SURFACE	1	4K LED	120 V	40 VA	4FT LED STRIP FIXTURE. PROVIDE WITH SUSPENSION KIT
F1E	METALUX	4SNX-57SL-FDL-UNV-L940+CD-1-14ELW-U / AYC-CHAINSET-BLK-U	SURFACE	1	4K LED	120 V	40 VA	SAME AS 'F1' EXCEPT WITH BATTERY BACK UP
F2E	METALUX	4SNX-57SL-FDL-UNV-L940+CD-1-BLK-U-EL14W	SURFACE	1	4K LED	120 V	40 VA	4FT LED STRIP FIXTURE WITH BATTERY BACK UP
H	METALUX	EZBY-1830C3-MV-BLK-LOW-4000K	SUSPENDED	1	4K LED	120 V	152 VA	ROUND HIGH BAY FIXTURE
HE	METALUX	EZBY-1830C3-MV-BLK-LOW-4000K / EBP-RM40R	SUSPENDED	1	4K LED	120 V	152 VA	SAME AS 'H' EXCEPT WITH BATTERY BACK UP
S1	MCGRAW-EDISON	GALN-SB4B-727-U-T4FT-BLACK-HSS	POLE	1	27K LED	208 V	147 VA	SINGLE FIXTURE HEAD POLE LIGHT WITH HOUSE SIDE SHIELD. PROVIDE WITH KW INDUSTRIES ROUND STRAIGHT POLE #RSP20-4-7-BLACK-DM10-BC
S2	MCGRAW-EDISON	GALN-SB4B-727-U-T2-BLACK-HSS	POLE	1	27K LED	208 V	147 VA	SINGLE FIXTURE HEAD POLE LIGHT WITH HOUSE SIDE SHIELD. PROVIDE WITH KW INDUSTRIES ROUND STRAIGHT POLE #RSP20-4-7-BLACK-DM10-BC
S3	MCGRAW-EDISON	GALN-SB4B-727-U-T2-BLACK-HSS	POLE	1	27K LED	208 V	294 VA	TWIN FIXTURE HEAD POLE LIGHT WITH HOUSE SIDE SHIELD. PROVIDE WITH KW INDUSTRIES ROUND STRAIGHT POLE #RSP20-4-7-BLACK-DM10-BC
W1E	MCGRAW-EDISON	GKO-PB2A-827-U-T3-BK-CBP-BPC120V-PBHSS	WALL	1	27K LED	120 V	48 VA	WALL PACK FIXTURE WITH BATTERY BACK UP, HOUSE SIDE SHIELD, AND PHOTOSENSOR ACCESSORY
W2	FC LIGHTING	FCC400-14-WM-UNV-927-10L-BKE-25-LD-CV	WALL	1	27K LED	120 V	12 VA	DECORATIVE WALL SCONCE
W2E	FC LIGHTING	FCC400-14-WM-UNV-927-10L-BKE-25-LD-CV	WALL	1	27K LED	120 V	12 VA	SAME AS 'W2' EXCEPT WITH REMOTE BATTERY PACK
W3	LUMARK	NHR550-S-BK/ NHR50-SK-BK	WALL	1	LED	120 V	24 VA	WALL MOUNT LED FLOOD LIGHT WITH SLIPFITTER KIT
W4	VIN LIGHTING	KAVLO WALL LIGHT # WA22702	WALL	1	4K LED	120 V	40 VA	DORM READING LIGHT WITH INTEGRAL ON/OFF SWITCH AND USB-C OUTLET
X	EVENLITE	SOVII-AC-G-1C-BK-RC-UC-OPTIONS	**CEILING**	1	LED	120 V	5 VA	CLEAR LED EXIT SIGN WITH RED LETTERING. EXIT SIGNS IN APPARATUS BAY SHALL BE WALL MOUNTED

LIGHTING SCHEDULES NOTE:
1. FOR ALL LIGHTING INQUIRES CONTACT MICHELLE CRUZ AT PETERSON, SCHARCK AND ASSOCIATES (PSA) - MCRUZ@PSALIGHTING.COM
2. REFER TO LIGHTING PLAN E201 FOR FIXTURE 'H' MODEL NUMBER.

EMERALD MEP
TX FIRM No. F-24826
PROJECT No. 25018

PROFESSIONAL SEAL

STATE OF TEXAS
M. JACQUELINE CHANG
124987
LICENSED
PROFESSIONAL ENGINEER
2026-10-20

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Civil
Hill Country Civil

Landscape
Evergreen Landscape Group

Structural
Matrix Structural

MEP
Emerald MEP

Technology
Imagine IT

Alerting
WestNET

STATION #42
Hays County ESD #4
Wimberley, TX 78676

PROJECT No: **MA 25016**
DATE: **20-OCT-2026**

ISSUE

100% DD	06-JAN-2026
50% CD	23-FEB-2026
75% CD	06-APR-2026
98% CD	04-MAY-2026
IFP	01-JUN-2026
IFB	20-OCT-2026

LIGHTING SCHEDULES

E-501

Panelboard MDP

22000 AIC Rating — X New — Existing

120/208 Wye Volt, 3 Phase, 4 Wire — 1 Section — Type 3R -Nema Rating — Mains Type: MCB — 800 A MCB — 800 A BUS (Copper) — ISO. GRND. BUS — X Single — Double — Feed - Thru — Mounting — X Surface — Flush

NOTE	LOAD (VA)	TYPE	DESCRIPTION	WIRE	CB	CKT	CKT	CB	WIRE	DESCRIPTION	TYPE	LOAD (VA)	NOTE
	87219 VA	Spare ; L; R; SP;...	A1	600	400 A	1 3 5	2 4 6	200 A	3/0	B	Other; Spare ; L;...	34590 VA	
	17340 VA	Spare ; L; R; SP;...	M	1/0	150 A	7 9 11	8 10 12	225 A	4/0	R	Other; Spare ; L; R; SP;...	67576 VA	
	0 VA	--	Spare	12	20 A	13	14	--	12	Space	--	0 VA	
	0 VA	--	Spare	12	20 A	15	16	--	12	Space	--	0 VA	
	0 VA	--	Spare	12	20 A	17	18	--	12	Space	--	0 VA	
	0 VA	--	Spare	12	20 A	19	20	--	12	Space	--	0 VA	
	0 VA	--	Spare	12	20 A	21	22	--	12	Space	--	0 VA	
	0 VA	--	Spare	12	20 A	23	24	--	12	Space	--	0 VA	
	57760 VA	SP	FUTURE BUILDING	3/0	200 A	25 27 29	26 28 30	60 A	6	SPD5	SP	0 VA	

N.E.C. (2020)	Load Type	Conn.	Fct.	Diversity	N.E.C.(2020)	Load Type	Conn.	Fct.	Diversity
220.44	(R)Receptacle	43880 VA	61.39%	26940 VA	210.20(a)	(L)Lighting	8152 VA	125.00%	10190 VA
220.56	(K)Kitchen	5700 VA	65.00%	3705 VA		(EL)Ext. Ltg.	3063 VA	125.00%	3829 VA
220.60	(C)Cooling	53329 VA	100.00%	53329 VA	620.14	(E)Elevators			
220.60	(H)Heating	17300 VA	100.00%	0 VA		(WH)Wat. Htr.			
220.60	(F)Fans	16440 VA	100.00%	16440 VA	220.5	(MT)Lrg. Motor			
	(M)Misc.	74121 VA	100.00%	74121 VA		(SP)Sub Pnl.	57760 VA	100.00%	57760 VA
Total Connected Load:		279745 VA	VA =	776 A	Location of Panel: EXTERIOR				
Total Load (Diversified):		246314 VA	VA =	684 A					

Panelboard A1

10000 AIC Rating — X New — Existing

120/208 Wye Volt, 3 Phase, 4 Wire — 1 Section — Type 3R -Nema Rating — Mains Type: MCB — 400 A MCB — 400 A BUS (Copper) — ISO. GRND. BUS — X Single — Double — Feed - Thru — Mounting — X Surface — Flush

NOTE	LOAD (VA)	TYPE	DESCRIPTION	WIRE	CB	CKT	CKT	CB	WIRE	DESCRIPTION	TYPE	LOAD (VA)	NOTE
	540 VA	R	R - PIPE	12	20 A	1	2	20 A	12	R - EXERCISE MACHINE	R	180 VA	
1	180 VA	R	R - ICE MACHINE	12	20 A	3	4	20 A	12	FITNESS ROLL UP DOOR	M	1680 VA	
	2000 VA	R	R - DRYER	10	30 A	5	6	20 A	12	R - EXERCISE MACHINE	R	180 VA	
						7	8	20 A	12	R - FITNESS	R	720 VA	
	180 VA	R	R - SCBA	12	20 A	9	10	20 A	12	R - EXERCISE MACHINE	R	180 VA	
	11624 VA	M	SCBA	6	60 A	11	12	20 A	12	R - EXERCISE MACHINE	R	180 VA	
						13	14						
	3415 VA	M	PUMP CONTROLLER	12	20 A	15	16	35 A	8	DRYING CABINET	M	9000 VA	
						17	18						
	900 VA	H	PUMP HEATER	12	20 A	19	20	20 A	12	R - WASHER	R	180 VA	1
	0 VA	--	Spare	12	20 A	21	22	20 A	12	ELEC. TRAP PRIMER	M	180 VA	
	0 VA	--	Spare	12	20 A	23	24						
	0 VA	--	Spare	12	20 A	25	26	35 A	8	EXTRACTOR	M	6317 VA	
	0 VA	--	Spare	12	20 A	27	28						
	0 VA	--	Spare	12	20 A	29	30	--	12	Space	--	0 VA	
	0 VA	--	Spare	12	20 A	31	32	--	12	Space	--	0 VA	
	0 VA	--	Spare	12	20 A	33	34	--	12	Space	--	0 VA	
	0 VA	--	Spare	12	20 A	35	36	--	12	Space	--	0 VA	
	49583 VA	Spare ; L; R; F; M	A2	4/0	225 A	37 39 41	38 40 42	30 A	10	SPD2	SP	0 VA	

N.E.C. (2020)	Load Type	Conn.	Fct.	Diversity	N.E.C.(2020)	Load Type	Conn.	Fct.	Diversity
220.44	(R)Receptacle	14140 VA	85.36%	12070 VA	210.20(a)	(L)Lighting	4132 VA	125.00%	5165 VA
220.56	(K)Kitchen					(EL)Ext. Ltg.			
220.60	(C)Cooling			0 VA	620.14	(E)Elevators			
220.60	(H)Heating	900 VA	100.00%	900 VA		(WH)Wat. Htr.			
220.60	(F)Fans	16356 VA	100.00%	16356 VA	220.5	(MT)Lrg. Motor			
	(M)Misc.	51691 VA	100.00%	51691 VA		(SP)Sub Pnl.	0 VA	Not Computed	0 VA
Total Connected Load:		87219 VA	VA =	242 A	Location of Panel: APP BAY 139				
Total Load (Diversified):		86182 VA	VA =	239 A					

Panelboard A2

10000 AIC Rating — X New — Existing

120/208 Wye Volt, 3 Phase, 4 Wire — 2 Section — Type 3R -Nema Rating — Mains Type: MCB — 225 A MCB — 225 A BUS (Copper) — ISO. GRND. BUS — Single — X Double — Feed - Thru — Mounting — X Surface — Flush

Note	Load...	Type	Description	Wire	CB	CKT	CKT	CB	Wire	Description	Type	Load...	N...
	1335 VA	M	OVERHEAD DOOR	12	15 A	1 3 5	2 4 6	15 A	12	OVERHEAD DOOR	M	1335 VA	
	1335 VA	M	OVERHEAD DOOR	12	15 A	7 9 11	8 10 12	15 A	12	OVERHEAD DOOR	M	1335 VA	
	1335 VA	M	OVERHEAD DOOR	12	15 A	13 15 17	14 16 18	15 A	12	OVERHEAD DOOR	M	1335 VA	
	1335 VA	M	OVERHEAD DOOR	12	15 A	19 21 23	20 22 24	15 A	12	OVERHEAD DOOR	M	1335 VA	
	500 VA	R	20A CORD REEL	10	20 A	25	26						
	900 VA	R	30A CORD REEL	10	30 A	27	28	15 A	12	OVERHEAD DOOR	M	1335 VA	
	500 VA	R	20A CORD REEL	10	20 A	29	30						
	500 VA	R	20A CORD REEL	10	20 A	31	32	20 A	12	R - APPARATUS BAY	R	720 VA	
	500 VA	R	20A CORD REEL	10	20 A	33	34	20 A	12	R - APPARATUS BAY	R	720 VA	
	225 VA	M	GRH-1	12	15 A	35	36	20 A	12	R - APPARATUS BAY	R	900 VA	
	225 VA	M	GRH-3	12	15 A	37	38	25 A	12	EF-A1	F	2496 VA	
	1392 VA	F	EF-G1, G2	12	15 A	39	40						
	500 VA	R	20A CORD REEL	10	20 A	41	42	25 A	12	EF-A2	F	2496 VA	
	500 VA	R	20A CORD REEL	10	20 A	43	44						
	500 VA	R	20A CORD REEL	10	20 A	45	46	25 A	12	EF-A3	F	2496 VA	
	900 VA	R	30A CORD REEL	10	30 A	47	48						
	225 VA	M	GRH-2	12	15 A	49	50	25 A	12	EF-A4	F	2496 VA	
	225 VA	M	GRH-4	12	15 A	51	52						
	540 VA	R	R - EXTERIOR	12	20 A	53	54	20 A	12	BAF-2	F	2490 VA	
	720 VA	R	R - EXTERIOR	12	20 A	55	56						
	1368 VA	L	L - APPARATUS BAY	12	20 A	57	58						
	2490 VA	F	BAF-1	12	20 A	59	60	20 A	12	GEN. STRIP HEATER	M	1000 VA	
						61	62	20 A	12	GEN. BATT. CHARGER	M	1000 VA	
						63	64	20 A	12	GEN. COOLANT HEATER	M	2000 VA	
	1270 VA	L	L - APPARATUS BAY	12	20 A	65	66						
	200 VA	M	MOTORIZED DAMPERS	12	20 A	67	68	20 A	12	ATS HEATER	M	1000 VA	
	720 VA	R	R - APPARATUS BAY	12	20 A	69	70	20 A	12	MTS HEATER	M	1000 VA	
	360 VA	M	GAS DETECTION DEVICE	12	20 A	71	72	20 A	12	L - FIELD POLE LIGHT	L	294 VA	
	10 VA	L	L - EXIT SIGNS	12	20 A	73	74						
	750 VA	L	L - FITNESS ROOM	12	20 A	75	76	20 A	12	BAF-2 LIGHT	L	220 VA	
	0 VA	--	Spare	12	20 A	77	78	20 A	12	BAF-1 LIGHT	L	220 VA	
	0 VA	--	Spare	12	20 A	79	80	--		Space	--	0 VA	
	0 VA	--	Spare	12	20 A	81	82	--		Space	--	0 VA	
	0 VA	--	Spare	12	20 A	83	84	--		Space	--	0 VA	

N.E.C. (2020)	Load Type	Conn.	Fct.	Diversity	N.E.C.(2020)	Load Type	Conn.	Fct.	Diversity
220.44	(R)Receptacle	9620 VA	100.00%	9620 VA	210.20(a)	(L)Lighting	4132 VA	125.00%	5165 VA
220.56	(K)Kitchen					(EL)Ext. Ltg.			
220.60	(C)Cooling			0 VA	620.14	(E)Elevators			
220.60	(H)Heating			0 VA		(WH)Wat. Htr.			
220.60	(F)Fans	16356 VA	100.00%	16356 VA	220.5	(MT)Lrg. Motor			
	(M)Misc.	19475 VA	100.00%	19475 VA		(SP)Sub Pnl.			
Total Connected Load:		49583 VA	VA =	138 A	Location of Panel: APP BAY 139				
Total Load (Diversified):		50616 VA	VA =	140 A					

Panelboard B

10000 AIC Rating — X New — Existing

120/208 Wye Volt, 3 Phase, 4 Wire — 1 Section — Type 1 -Nema Rating — Mains Type: MCB — 200 A MCB — 225 A BUS (Copper) — ISO. GRND. BUS — X Single — Double — Feed - Thru — Mounting — X Surface — Flush

NOTE	LOAD (VA)	TYPE	DESCRIPTION	WIRE	CB	CKT	CKT	CB	WIRE	DESCRIPTION	TYPE	LOAD (VA)	NOTE
	1620 VA	R	R - DORMS	12	20 A	1	2	20 A	12	L - DORMS / OFFICES	Oth...	426 VA	
	1620 VA	R	R - DORMS	12	20 A	3	4	20 A	12	L - OFFICES / STORAGE	L	469 VA	
	540 VA	R	R - HALLWAY	12	20 A	5	6	20 A	12	L - DAYROOM / KITCHEN	L	498 VA	
	720 VA	R	R - RR	12	20 A	7	8	20 A	12	L - DORMS / PANTRY	L	489 VA	
	60 VA	F	EF-R#, EF M1	12	15 A	9	10	20 A	12	L - PPE / SCBA / FITNESS	L	240 VA	
	1080 VA	R	R - DORMS	12	20 A	11	12	20 A	12	L - ENTRY / HALLWAY	L	324 VA	
	540 VA	R	R - HALLWAY	12	20 A	13	14	20 A	12	L - HALLWAY	L	405 VA	
	900 VA	R	R - WATCH OFFICE	12	20 A	15	16	20 A	12	L - EXIT SIGNS	L	20 VA	
	1080 VA	R	R - WATCH OFFICE	12	20 A	17	18	20 A	12	L - EXIT SIGNS	L	15 VA	
	1440 VA	R	R - DORMS	12	20 A	19	20	--	12	Space	--	0 VA	
2	500 VA	M	FACP	12	20 A	21	22	--	12	Space	--	0 VA	
	1080 VA	R	R - STORAGE / DORM	12	20 A	23	24	--	12	Space	--	0 VA	
	0 VA	--	Spare	12	20 A	25	26	--	12	Space	--	0 VA	
	0 VA	--	Spare	12	20 A	27	28	--	12	Space	--	0 VA	
	0 VA	--	Spare	12	20 A	29	30	--	12	Space	--	0 VA	
	0 VA	--	Spare	12	20 A	31	32	--	12	Space	--	0 VA	
	0 VA	--	Spare	12	20 A	33	34	--	12	Space	--	0 VA	
	0 VA	--	Spare	12	20 A	35	36	--	12	Space	--	0 VA	
	20524 VA	Spare ; R; SP; ...	C	3	100 A	37 39 41	38 40 42	30 A	10	SPD2	SP	0 VA	

N.E.C. (2020)	Load Type	Conn.	Fct.	Diversity	N.E.C.(2020)	Load Type	Conn.	Fct.	Diversity
220.44	(R)Receptacle	25060 VA	69.95%	17530 VA	210.20(a)	(L)Lighting	2886 VA	125.00%	3608 VA
220.56	(K)Kitchen	5700 VA	65.00%	3705 VA		(EL)Ext. Ltg.			
220.60	(C)Cooling			0 VA	620.14	(E)Elevators			
220.60	(H)Heating			0 VA		(WH)Wat. Htr.			
220.60	(F)Fans	84 VA	100.00%	84 VA	220.5	(MT)Lrg. Motor			
	(M)Misc.	860 VA	100.00%	860 VA		(SP)Sub Pnl.	0 VA	Not Computed	0 VA
Total Connected Load:		34590 VA	VA =	96 A	Location of Panel: IT/ELEC 147				
Total Load (Diversified):		25787 VA	VA =	72 A					

Panelboard C

10000 AIC Rating — X New — Existing

120/208 Wye Volt, 3 Phase, 4 Wire — 1 Section — Type 1 -Nema Rating — Mains Type: MCB — 100 A MCB — 225 A BUS (Copper) — ISO. GRND. BUS — X Single — Double — Feed - Thru — Mounting — X Surface — Flush

NOTE	LOAD (VA)	TYPE	DESCRIPTION	WIRE	CB	CKT	CKT	CB	WIRE	DESCRIPTION	TYPE	LOAD (VA)	NOTE
	900 VA	R	R - ENTRY / HALLWAY	12	20 A	1	2	20 A	12	RANGE HOOD	K	900 VA	
	540 VA	R	R - EXAM /RR	12	20 A	3	4	20 A	12	R - ICE MACHINE	K	600 VA	1
	720 VA	R	R - CONFERENCE	12	20 A	5	6	20 A	12	R - DISH WASHER	K	900 VA	1
	540 VA	R	R - CONFERENCE	12	20 A	7	8	20 A	12	R - DISH WASHER	K	900 VA	1
	2000 VA	R	R - DRYER	10	30 A	9	10	20 A	12	R - RANGE	K	180 VA	
						11	12	20 A	12	R - EXTERIOR	R	720 VA	
1	180 VA	R	R - WASHER	12	20 A	13	14	20 A	12	PATIO (FUTURE)	M	0 VA	
	2000 VA	R	R - DRYER	10	30 A	15	16	20 A	12	R - EXTERIOR	R	720 VA	
						17	18	20 A	12	R - EXTERIOR	R	540 VA	
1	180 VA	R	R - WASHER	12	20 A	19	20	20 A	12	R - OFFICE	R	900 VA	
	180 VA	R	R - UTILITY	12	20 A	21	22	20 A	12	R - OFFICE	R	720 VA	
	24 VA	F	EF-R1, EF-U1	12	15 A	23	24	20 A	12	R - PANTRY / STORAGE	R	720 VA	
	900 VA	R	R - TV ROOM	12	20 A	25	26	20 A	12	R - FRIDGE	R	180 VA	1
	1080 VA	R	R - DAYROOM	12	20 A	27	28	20 A	12	R - FRIDGE	R	180 VA	1
	360 VA	R	R - DAYROOM TV	12	20 A	29	30	20 A	12	R - FRIDGE	R	180 VA	1
	720 VA	K	R - KITCHEN	12	20 A	31	32						
	600 VA	K	ALERTING SYSTEM ACD	12	20 A	33	34	20 A	12	GARBAGE DISPOSAL	K	900 VA	
	180 VA	M	ELEC. TRAP PRIMER	12	20 A	35	36	20 A	12	ELEC. TRAP PRIMER	M	180 VA	
	0 VA	--	Spare	12	20 A	37	38						
	0 VA	--	Spare	12	20 A	39	40	30 A	10	SPD2	SP	0 VA	
	0 VA	--	Spare	12	20 A	41	42						

N.E.C. (2020)	Load Type	Conn.	Fct.	Diversity	N.E.C.(2020)	Load Type	Conn.	Fct.	Diversity
220.44	(R)Receptacle	14440 VA	84.63%	12220 VA	210.20(a)	(L)Lighting			
220.56	(K)Kitchen	5700 VA	65.00%	3705 VA		(EL)Ext. Ltg.			
220.60	(C)Cooling			0 VA	620.14	(E)Elevators			
220.60	(H)Heating			0 VA		(WH)Wat. Htr.			
220.60	(F)Fans	24 VA	100.00%	24 VA	220.5	(MT)Lrg. Motor			
	(M)Misc.	360 VA	100.00%	360 VA		(SP)Sub Pnl.	0 VA	Not Computed	0 VA
Total Connected Load:		20524 VA	VA =	57 A	Location of Panel: IT/ELEC 147				
Total Load (Diversified):		16309 VA	VA =	45 A					

Panelboard P

10000 AIC Rating — X New — Existing

120/208 Wye Volt, 3 Phase, 4 Wire — 1 Section — Type 1 -Nema Rating — Mains Type: MCB — 100 A MCB — 225 A BUS (Copper) — ISO. GRND. BUS — X Single — Double — Feed - Thru — Mounting — X Surface — Flush

NOTE	LOAD (VA)	TYPE	DESCRIPTION	WIRE	CB	CKT	CKT	CB	WIRE	DESCRIPTION	TYPE	LOAD (VA)	NOTE
	160 VA	L	L - PUMP HOUSE	12	20 A	1	2						
	48 VA	EL	L - PUMP HOUSE EXTERIOR	12	20 A	3	4	35 A	8	JOCKEY PUMP	M	6317 VA	
	720 VA	R	R- PUMP HOUSE	12	20 A	5	6						
	5000 VA	H	EUH-P1	10	30 A	7	8	20 A	12	HEAT TRACE	H	900 VA	
						9	10						
	180 VA	M	PUMP ALARM	12	20 A	11	12	50 A	8	LIFT STATION PUMP	M	9133 VA	
	500 VA	EL	L - TANK SIGNAGE	12	20 A	13	14						
	0 VA	--	Spare	12	20 A	15	16	20 A	12	Spare	--	0 VA	
	0 VA	--	Spare	12	20 A	17	18	20 A	12	Spare	--	0 VA	
	0 VA	--	Spare	12	20 A	19	20	20 A	12	Spare	--	0 VA	
	0 VA	--	Spare	12	--	21	22	--	12	Space	--	0 VA	
	0 VA	--	Spare	12	--	23	24	--	12	Space	--	0 VA	
	0 VA	--	Spare	12	--	25	26						
	0 VA	--	Spare	12	--	27	28	30 A	10	SPD2	SP	0 VA	
	0 VA	--	Spare	12	--	29	30						

N.E.C. (2020)	Load Type	Conn.	Fct.	Diversity	N.E.C.(2020)	Load Type	Conn.	Fct.	Diversity
220.44	(R)Receptacle	720 VA	100.00%	720 VA	210.20(a)	(L)Lighting	160 VA	125.00%	200 VA
220.56	(K)Kitchen					(EL)Ext. Ltg.	548 VA	125.00%	685 VA
220.60	(C)Cooling			0 VA	620.14	(E)Elevators			
220.60	(H)Heating	5900 VA	100.00%	5900 VA		(WH)Wat. Htr.			
220.60	(F)Fans				220.5	(MT)Lrg. Motor			
	(M)Misc.	15630 VA	100.00%	15630 VA		(SP)Sub Pnl.	0 VA	Not Computed	0 VA
Total Connected Load:		22958 VA	VA =	64 A	Location of Panel: PUMPHOUSE 152				
Total Load (Diversified):		23135 VA	VA =	64 A					

Panelboard M

10000 AIC Rating — X New — Existing

120/208 Wye Volt, 3 Phase, 4 Wire — 1 Section — Type 1 -Nema Rating — Mains Type: MCB — 150 A MCB — 225 A BUS (Copper) — ISO. GRND. BUS — X Single — Double — Feed - Thru — Mounting — X Surface — Flush

NOTE	LOAD (VA)	TYPE	DESCRIPTION	WIRE	CB	CKT	CKT	CB	WIRE	DESCRIPTION	TYPE	LOAD (VA)	NOTE
	1872 VA	C	FCU-4	12	15 A	1	2	20 A	12	R - UTILITY	R	720 VA	
						3	4	20 A	12	CONDENSATE PUMP	R	180 VA	
	1872 VA	C	FCU-3	12	15 A	5	6	20 A	12	R - IT/ELEC.	R	720 VA	
						7	8	20 A	12	R - OPEN PLATFORM	R	540 VA	
	1872 VA	C	FCU-1	12	15 A	9	10	15 A	12	GWH-2	M	225 VA	
						11	12	15 A	12	CP-1	M	225 VA	
	1872 VA	C	FCU-2	12	15 A	13	14	15 A	12	GWH-1	M	225 VA	
						15	16	20 A	12	R - MEZZ. PLATFORM	R	720 VA	
	10500 VA	H	OAHU-1	8	40 A	17	18	20 A	12	SECURITY PANEL	M	600 VA	
						19	20	20 A	12	L - MEZZANINE	L	960 VA	
						21	22	20 A	12	FCU-5	C	1872 VA	
	600 VA	M	ACCESS CONTROL PANEL	12	20 A	23	24						
	180 VA	R	R - IT RACK	12	20 A	25	26	20 A	12	ALERTING SYSTEM UPS	R	180 VA	
	180 VA	R	R - IT RACK	12	20 A	27	28	--	12	Space	--	0 VA	
	180 VA	M	ELEC. TRAP PRIMER	12	20 A	29	30	--	12	Space	--	0 VA	
	225 VA	M	AIR COMPRESSOR	12	20 A	31	32	--	12	Space	--	0 VA	
	180 VA	M	ELEC. TRAP PRIMER	12	20 A	33	34	--	12	Space	--	0 VA	
	0 VA	--	Spare	12	20 A	35	36	--	12	Space	--	0 VA	
	0 VA	--	Spare	12	20 A	37	38						
	0 VA	--	Spare	12	20 A	39	40	30 A	10	SPD2	SP	0 VA	
	0 VA	--	Spare	12	20 A	41	42						

N.E.C. (2020)	Load Type	Conn.	Fct.	Diversity	N.E.C.(2020)	Load Type	Conn.	Fct.	Diversity
220.44	(R)Receptacle	3420 VA	100.00%	3420 VA	210.20(a)	(L)Lighting	960 VA	125.00%	1200 VA
220.56	(K)Kitchen					(EL)Ext. Ltg.			
220.60	(C)Cooling	9360 VA	100.00%	0 VA	620.14	(E)Elevators			
220.60	(H)Heating	10500 VA	100.00%	10500 VA		(WH)Wat. Htr.			
220.60	(F)Fans				220.5	(MT)Lrg. Motor			
	(M)Misc.	2460 VA	100.00%	2460 VA		(SP)Sub Pnl.	0 VA	Not Computed	0 VA
Total Connected Load:		26700 VA	VA =	74 A	Location of Panel: IT/ELEC 147				
Total Load (Diversified):		17580 VA	VA =	49 A					

Panelboard R

10000 AIC Rating — X New — Existing

120/208 Wye Volt, 3 Phase, 4 Wire — 1 Section — Type 3R -Nema Rating — Mains Type: MCB — 225 A MCB — 225 A BUS (Copper) — ISO. GRND. BUS — X Single — Double — Feed - Thru — Mounting — X Surface — Flush

NOTE	LOAD (VA)	TYPE	DESCRIPTION	WIRE	CB	CKT	CKT	CB	WIRE	DESCRIPTION	TYPE	LOAD (VA)	NOTE
						1	2						
	6094 VA	C	ACCU-1	8	50 A	3	4	50 A	8	OACU-1	C	14079 VA	
						5	6						
	3994 VA	C	ACCU-4	10	30 A	7	8	20 A	12	R - RISER	R	180 VA	
						9	10	20 A	12	R - MECH. YARD	R	180 VA	
	3994 VA	C	ACCU-2	10	30 A	11	12	20 A	12	L - EXT CANOPY	EL	104 VA	
						13	14	20 A	12	R - WATER SOFTNER	R	180 VA	
	6032 VA	C	ACCU-3	8	50 A	15	16	20 A	12	NITRO. GEN.	M	600 VA	
						17	18	20 A	12	L - BLDG. SIGNAGE	EL	500 VA	
	3744 VA	C	DCU-T1 / DSCU-3	10	30 A	19	20	30 A	10	CONTACTOR	M	900 VA	
	6032 VA	C	ACCU-5	8	50 A	21	22	20 A	12	L - SITE LIGHTING	EL	441 VA	
						23	24						
	170 VA	EL	L - EXT. CANOPY	12	20 A	25	26	20 A	12	VEHICLE GATE	M	1800 VA	
	500 VA	EL	L - BLDG. SIGNAGE	12	20 A	27	28						
	441 VA	EL	L - SITE LIGHTING	12	20 A	29	30	20 A	12	L - EMERGENCY	L	14 VA	
						31	32	20 A	12	L - EXT. WALL	EL	216 VA	
	143 VA	EL	L - EXTERIOR	12	20 A	33	34	20 A	12	ELEC. TRAP PRIMER	M	180 VA	
	0 VA	--	Spare	12	20 A	35	36	--	12	Space	--	0 VA	
	22958 VA	Spare ; L; R; SP;...	P	3	100 A	37 39 41	38 40 42	30 A	10	SPD2	SP	0 VA	

N.E.C. (2020)	Load Type	Conn.	Fct.	Diversity	N.E.C.(2020)	Load Type	Conn.	Fct.	Diversity
220.44	(R)Receptacle	1260 VA	100.00%	1260 VA	210.20(a)	(L)Lighting	174 VA	125.00%	218 VA
220.56	(K)Kitchen					(EL)Ext. Ltg.	3063 VA	125.00%	3829 VA
220.60	(C)Cooling	43969 VA	100.00%	43969 VA	620.14	(E)Elevators			
220.60	(H)Heating	5900 VA	100.00%	0 VA		(WH)Wat. Htr.			
220.60	(F)Fans				220.5	(MT)Lrg. Motor			
	(M)Misc.	19110 VA	100.00%	19110 VA		(SP)Sub Pnl.	0 VA	Not Computed	0 VA
Total Connected Load:		73476 VA	VA =	204 A	Location of Panel: RISER 103				
Total Load (Diversified):		68385 VA	VA =	190 A					

PANEL SCHEDULE NOTES

1. PROVIDE CIRCUIT BREAKER WITH GFCI PROTECTION.
2. PROVIDE CIRCUIT BREAKER WITH LOCKING HANDLE DEVICE.

EMERALD MEP
TX FIRM No. F-24826
PROJECT No. 25018

PROFESSIONAL SEAL

STATE OF TEXAS — M. JACQUELINE CHANG — 124987 — LICENSED PROFESSIONAL ENGINEER — 2026-10-20

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DESIGN TEAM

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Alerting — WestNET

STATION #42

Hays County ESD #4
Wimberley, TX 78676

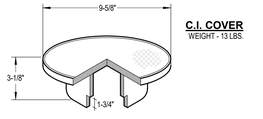
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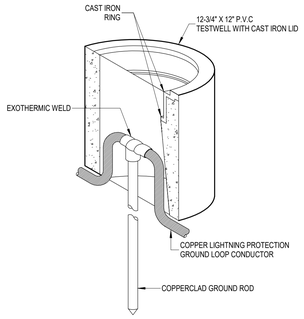
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ELECTRICAL PANEL SCHEDULES

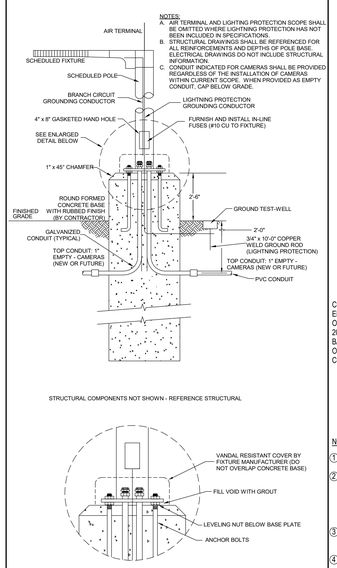
E-502



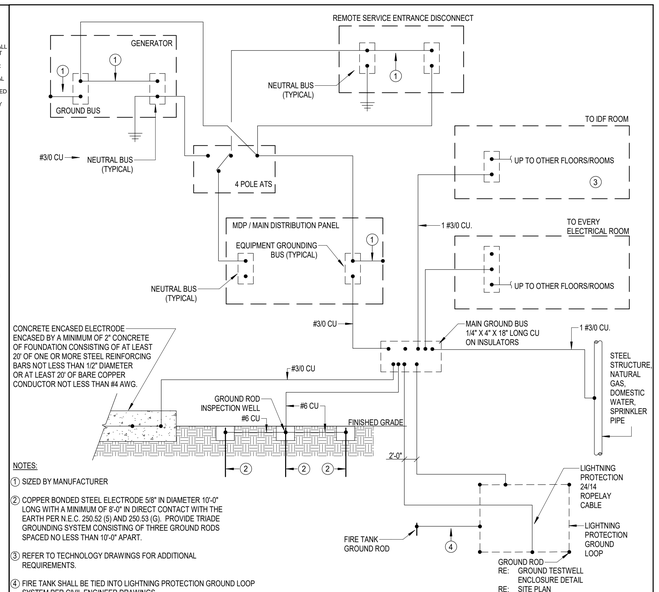
C.I. COVER
WEIGHT - 13 LBS.



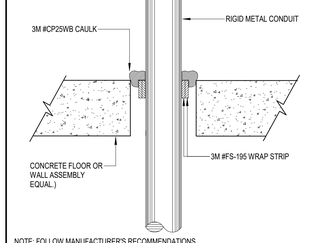
3 GROUND TESTWELL ENCLOSURE
NOT TO SCALE



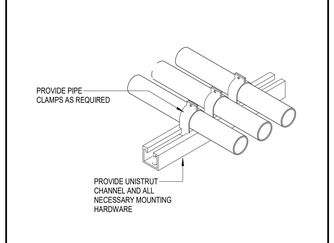
2 CONCRETE POLE BASE DETAIL
NOT TO SCALE



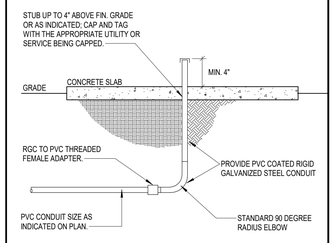
1 GROUNDING ELECTRODE SYSTEM DETAIL
NOT TO SCALE



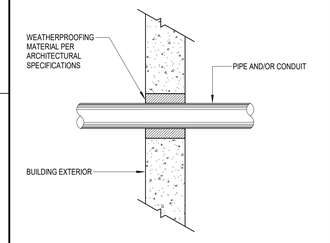
7 2, 3 AND 4 HR. PENETRATIONS FOR CONCRETE
NOT TO SCALE



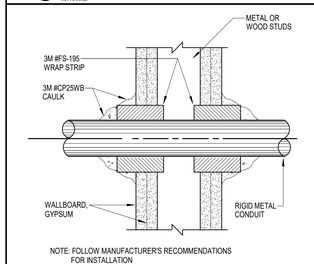
6 UNISTRUT CONDUIT DETAIL
NOT TO SCALE



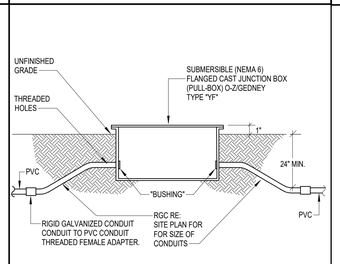
5 CONDUIT STUB-UP DETAIL
NOT TO SCALE



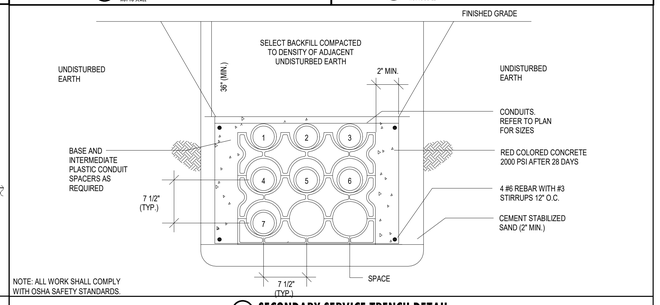
4 PIPE AND/OR CONDUIT PENETRATION
NOT TO SCALE



10 2 HR. GYPSUM WALLBOARD PIPE PENETRATION
NOT TO SCALE



9 PULL BOX DETAIL
NOT TO SCALE



8 SECONDARY SERVICE TRENCH DETAIL
NOT TO SCALE

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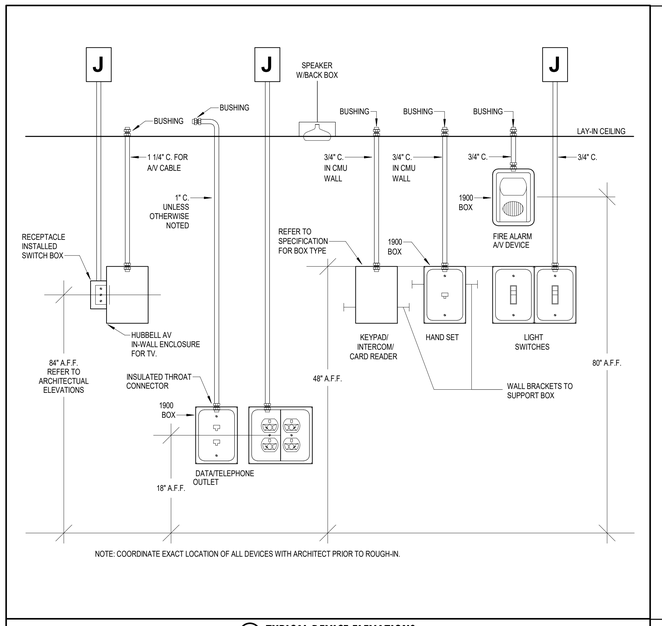
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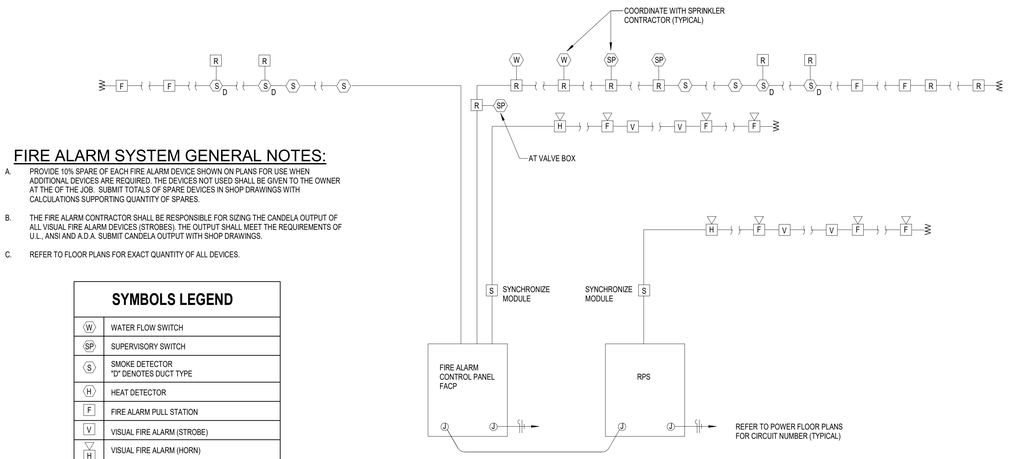
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TX FIRM No. F-24826
PROJECT No. 25018

ELECTRICAL DETAILS

E-601



2 TYPICAL DEVICE ELEVATIONS
NOT TO SCALE



FIRE ALARM SYSTEM GENERAL NOTES:

A. PROVIDE 10% SPARE OF EACH FIRE ALARM DEVICE SHOWN ON PLANS FOR USE WHEN ADDITIONAL DEVICES ARE REQUIRED. THE DEVICES NOT USED SHALL BE GIVEN TO THE OWNER AT THE OF THE JOB. SUBMIT TOTALS OF SPARE DEVICES IN SHOP DRAWINGS WITH CALCULATIONS SUPPORTING QUANTITY OF SPARES.

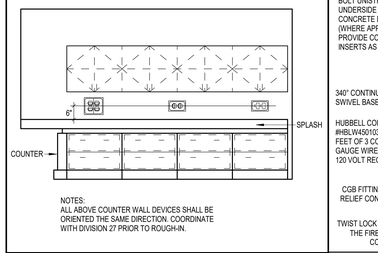
B. THE FIRE ALARM CONTRACTOR SHALL BE RESPONSIBLE FOR SIZING THE CANDELA OUTPUT OF ALL VISUAL FIRE ALARM DEVICES (STROBES). THE OUTPUT SHALL MEET THE REQUIREMENTS OF U.L., ANSI AND A.D.A. SUBMIT CANDELA OUTPUT WITH SHOP DRAWINGS.

C. REFER TO FLOOR PLANS FOR EXACT QUANTITY OF ALL DEVICES.

SYMBOLS LEGEND

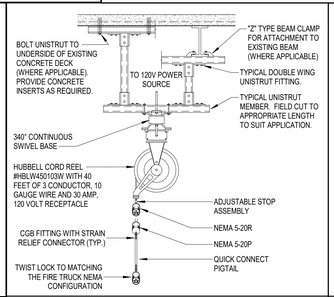
W	WATER FLOW SWITCH
SP	SUPERVISORY SWITCH
S	SMOKE DETECTOR "D" DENOTES DUCT TYPE
H	HEAT DETECTOR
F	FIRE ALARM PULL STATION
V	VISUAL FIRE ALARM (STROBE)
H	VISUAL FIRE ALARM (HORN)
H	VISUAL FIRE ALARM (COMBINATION HORN STROBE)
R	FIRE ALARM RELAY

1 FIRE ALARM RISER DIAGRAM
NOT TO SCALE

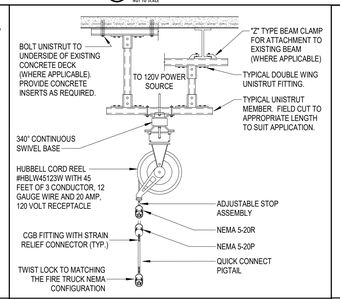


NOTES:
ALL ABOVE COUNTER WALL DEVICES SHALL BE ORIENTED THE SAME DIRECTION. COORDINATE WITH DIVISION 27 PRIOR TO ROUGH-IN.

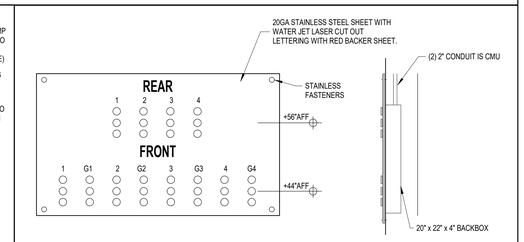
6 TYPICAL COUNTERTOP DEVICE ELEVATION
NOT TO SCALE



5 30AMP RETRACTABLE CORD REEL
NOT TO SCALE

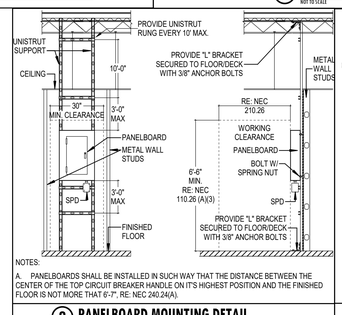


4 20AMP RETRACTABLE CORD REEL
NOT TO SCALE



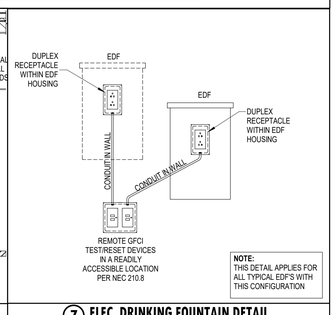
NOTE: COORDINATE FINAL MOUNTING HEIGHT WITH ARCHITECT PRIOR TO ROUGH-IN.

3 APPARATUS BAY DOOR CONTROLLER DETAIL
NOT TO SCALE



NOTES:
A PANELBOARDS SHALL BE INSTALLED IN SUCH WAY THAT THE DISTANCE BETWEEN THE CENTER OF THE TOP CIRCUIT BREAKER HANDLE ON IT'S HIGHEST POSITION AND THE FINISHED FLOOR IS NOT MORE THAT 6'-7", RE: NEC 240.24(A).

8 PANELBOARD MOUNTING DETAIL
NOT TO SCALE



7 ELEC. DRINKING FOUNTAIN DETAIL
NOT TO SCALE

EMERALD MEP
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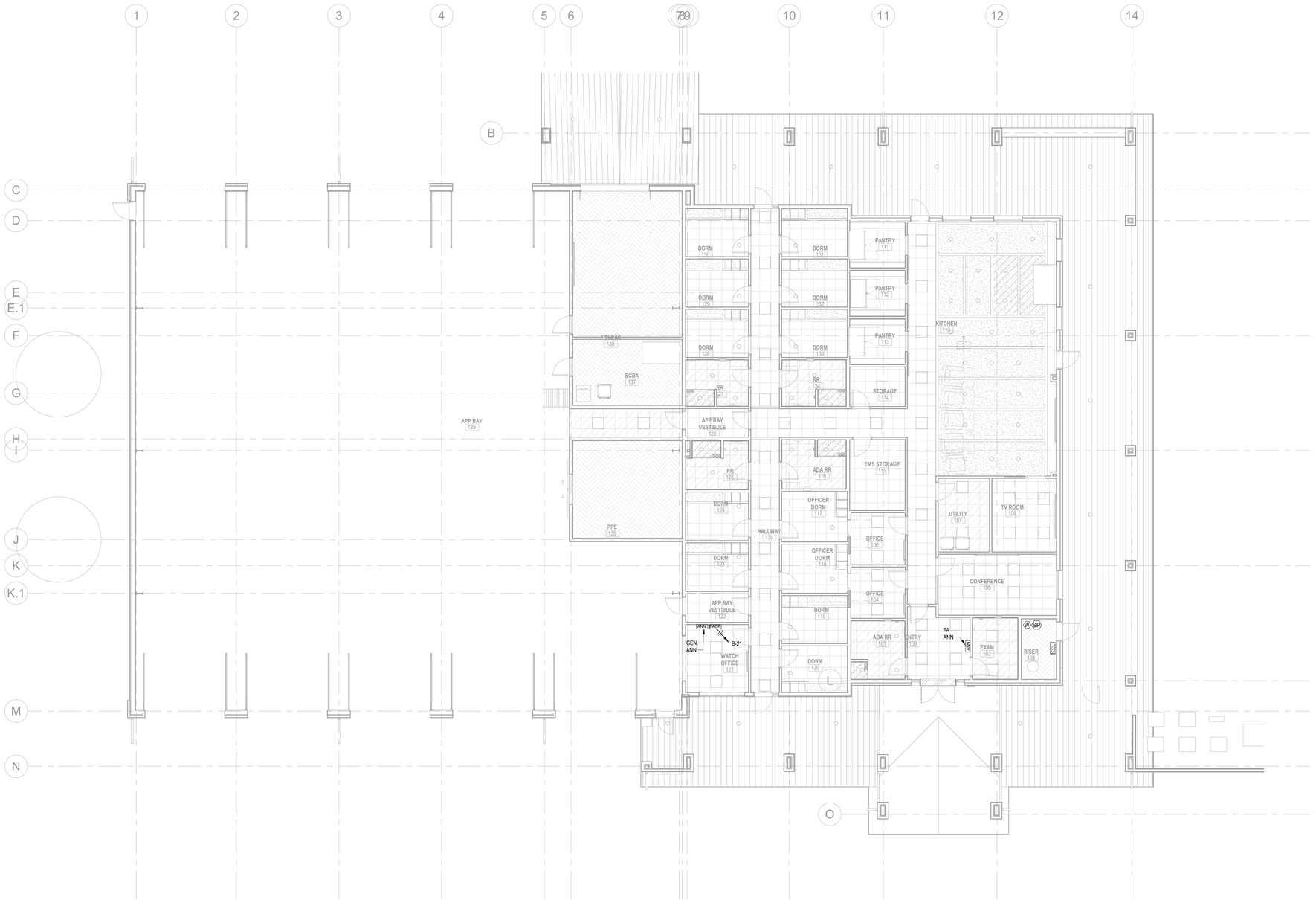
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ELECTRICAL DETAILS

E-602



1 FIRE ALARM PLAN - LEVEL ONE

1/8" = 1'-0"

FIRE ALARM GENERAL NOTES

A. COMPLETE FIRE ALARM SYSTEM SHALL BE PROVIDED AS DELEGATED DESIGN IN ACCORDANCE WITH THE PERFORMANCE SPECIFICATION.

B. CONTRACTOR SHALL PROVIDE ADDITIONAL DEVICES AS REQUIRED BY FIRE ALARM SHOP DRAWINGS TO MEET CODE-MINIMUM DEVICE COVERAGE.

C. ALL CEILING MOUNTED DEVICES SHALL BE CENTERED IN THE CEILING TILE.

D. ALL FIRE ALARM VISUAL AND AUDIO/VISUAL DEVICES SHALL BE CONFIGURED TO PROVIDE CANDELA RATINGS IN ACCORDANCE WITH ADA & NFPA COVERAGES.

E. ALL VISUAL FIRE ALARM DEVICES SHALL BE 75 CD UNLESS NOTED OTHERWISE.

F. ALL WIRING FOR DEVICES IN EXPOSED STRUCTURE AREAS SHALL BE ROUTED WITHIN CONDUIT. NO WIRING SHALL BE ROUTED EXPOSED.

G. ELECTRICAL CONTRACTOR SHALL PROVIDE CONDUIT PATHWAYS FOR FIRE ALARM PLENUM CONDUCTORS WHERE REQUIRED TO TRANSIT HARD CEILING AREAS. CONDUIT RACEWAYS SHALL ALLOW ACCESS TO CONDUIT AT EACH END IN ACCESSIBLE LOCATIONS ABOVE CEILINGS.

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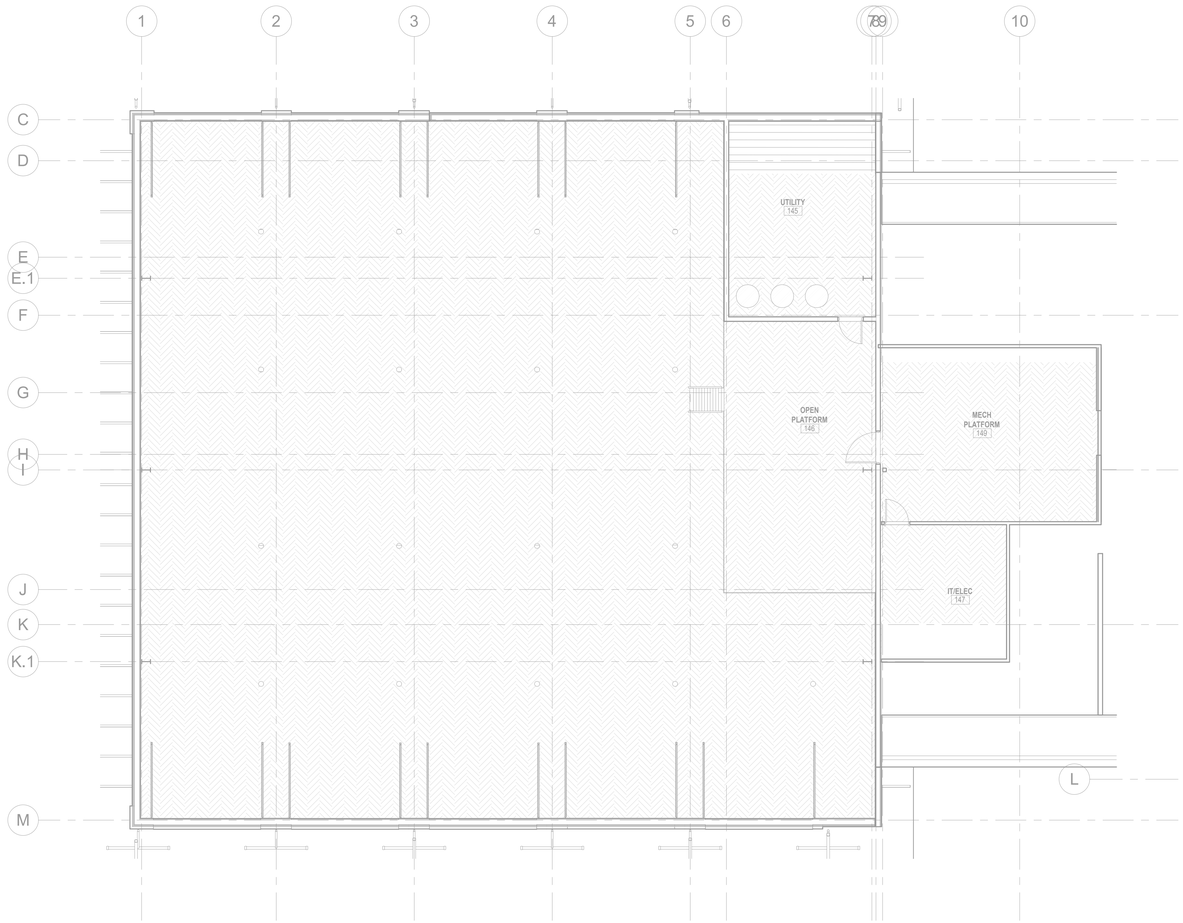
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FIRE ALARM PLAN - LEVEL ONE

EF-201



1 FIRE ALARM PLAN - MEZZANINE

1/8" = 1'-0"

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FIRE ALARM PLAN - MEZZANINE

EF-202

ABBREVIATIONS

(NOT ALL ITEMS INDICATED APPLY TO THIS PROJECT)

A

A	AIR (COMPRESSED)
ABV	ABOVE
AC	ABOVE CEILING
AD	ACCESS DOOR, AREA DRAIN
ADJ	ADJUSTABLE
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AHU	AIR HANDLING UNIT
AL	ALUMINUM
AP	ACCESS PANEL
ARCH	ARCHITECT, ARCHITECTURAL
AS	AIR SEPARATOR
ASME	AMERICAN SOCIETY OF MECHANICAL ENGINEERS
ASTM	AMERICAN SOCIETY OF TESTING AND MATERIALS
AV	ACID VENT
AVG	AVERAGE
AW	ACID WASTE
AWS	AMERICAN WELDING SOCIETY
AUX	AUXILIARY

B

B	BOILER
BC	BELOW COUNTER
B/C	BACK OF CURB
BF	BELOW FLOOR
BFV	BUTTERFLY VALVE
BH	BOX HYDRANT
BLDG	BUILDING
BM	BENCHMARK
BOF	BOTTOM OF FOOTING
BOS	BOTTOM OF STRUCTURE
BT	BATH TUB
BTU	BRITISH THERMAL UNIT
BV	BALL VALVE
BWV	BACK WATER VALVE

C

C	CELSIUS
CAB	CABINET
CB	CATCH BASIN
CD	CONDENSATE DRAIN LINE
CFM	CUBIC FEET PER MINUTE
CFS	CUBIC FEET PER SECOND
CP	CIRCULATING PUMP
CI	CAST IRON
CIRC	CIRCULATING
CL	CENTERLINE
CLG	CEILING
CLR	CLEAR
CMU	CONCRETE MASONRY UNIT
CPI	CAST IRON PIPE INSTITUTE
CPVC	CHLORINATED POLYVINYL CHLORIDE
CO	CLEAN OUT
COL	COLUMN
COMB	COMBINATION
COMP	COMPRESSOR
CONC	CONCRETE, CONCENTRIC
CONN	CONNECTION
CONT	CONTINOUS,CONTINUATION
CONTR	CONTROLLER, CONTRACTOR
CTR	CENTER
CU	COPPER
CW	COLD WATER

D

D	DEPTH, DRAIN, DRYER
DESIG	DESIGNATION
DTL	DETAIL
DF	DRINKING FOUNTAIN
DIA	DIAMETER
DIM	DIMENSION
DISC	DISCONNECT
DN	DOWN
DS	DOWNSPOUT, DOUBLE SUCTON
DW	DISHWASHER
DWG	DRAWING
DWH	DOMESTIC WATER HEATER
DWP	DOMESTIC WATER PUMP

E

EA	EACH
ECC	ECCENTRIC
EDF	ELECTRIC DRINKING FOUNTAIN
EFF	EFFICIENCY
EJ	EXPANSION JOINT
EL	ELEVATION
ELEC	ELECTRICAL
ELEV	ELEVATOR
EMERG	EMERGENCY
ENCL	ENCLOSURE
ENG	ENGINEER
EQ	EQUAL
EQUIP	EQUIPTMENT
ET	EXPANSION TANK
ETR	EXISTING TO REMAIN
EX	EXISTING
EXT	EXTERNAL

F

F	FARENHEIT, FIRE
FBO	FURNISHED BY OTHERS
FCO	FLOOR CLEAN OUT
FCS	FLOOR CONTROL STATON
FD	FLOOR DRAIN
FDSC	FIRE DEPARTMENT SIAMESE CONNECTION
FDV	FIRE DEPARTMENT VALVE
FH	FIRE HYDRANT
FHC	FIRE HOSE CABINET
FHR	FIRE HOSE RACK
FHV	FIRE HOSE VALVE
FIXT	FIXTURE
FLEX	FLEXIBLE
FL	FLOW LINES
FLR	FLOOR
FP	FIRE PUMP
FRZR	FREEZER
FS	FLOW SWITCH, FIRE SPRINKLER
FS	FLOOR SINK
FT	FOOT, FEET
FUT	FUTURE

G

G	GAS
GA	GAUGE
GAL	GALLON
GALV	GALVANIZED
GC	GENERAL CONTRACTOR
GCO	GRADE CLEANOUT
GLV	GLOBE VALVE
GND	GROUND
GPD	GALLONS PER DAY
GPH	GALLONS PER HOUR
GPM	GALLONS PER MINUTE
GV	GATE VALVE

H

HB	HOSE BIBB
HD	HEAD, HUB DRAIN
HORIZ	HORIZONTAL
HP	HORSEPOWER
HKP	HOUSEKEEPING PAD
HSC	HORIZONTAL SPLIT CASE
HT	HEIGHT
HTG	HEATING
HTR	HEATER
HW	HOT WATER
HWR	HOT WATER RETURN
HWS	HOT WATER SUPPLY
HZ	HERTZ

I

ID	INSIDE DIAMETER
IE	INVERT ELEVATION
IN	INCH
INSUL	INSULATION
INT	INTERNAL, INTERIOR
IW	INDIRECT WASTE

J

JP	JOCKEY PUMP

K

KEC	KITCHEN EQUIPTMENT CONTRACTOR
KO	KNOCKOUT
KVA	KILOVOLT- AMPS
KW	KILOWATT

L

L	LENGTH, LAVATORY
LAV	LAVATORY
LF	LINEAR FEET
LT	LINT
LP	LOW PRESSURE
LRA	LOCKED ROTOR AMPS
LVL	LEVEL
LWCO	LOW WATER CUT OFF

M

MAX	MAXIMUM
MBTUH	THOUSAND OF BTU'S
MECH	MECHANICAL
MFR	MANUFACTURER
MH	MANHOLE
MI	MALLEABLE IRON
MIN	MINIMUM
MP	MEDIUM PRESSURE
MS	MOP SINK
MTD	MOUNTED
MU	MAKE-UP

N

N.C.	NORMALLY CLOSED
NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
NIC	NOT IN CONTRACT
N.O.	NORMALLY OPEN
NO.	NUMBER
NTS	NOT TO SCALE

O

OC	ON CENTER
OD	OUTSIDE DIAMETER, OVERFLOW DRAIN
OFCU	OUTSIDE AIR FAN COIL UNIT
OPG	OPENING
OS&Y	OPEN STEM AND YOLK
O	MEDICAL OXYGEN

P

P	PUMP, PLUMBING EQUIPTMENT
PD	PRESSURE DROP, PLANTER DRAIN
PH	PHASE, POST HYDRANT
PIV	POST INDICATOR VALVE
PLBG	PLUMBING
PPM	PART PER MILLION
PRS	PRESSURE REDUCING STATION
PRV	PRESSURE REDUCING VALVE
PSF	POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH
PSIG	POUNDS PER SQUARE INCH GAUGE
PT	PLUMBING TRIM
PV	PLUG VALVE
PVC	POLYVINYL CHLORIDE

Q

QTY	QUANTITY

R

RCP	REFLECTED CEILING PLAN, REINFORCED CONCRETE PIPE
RD	ROOF DRAIN
RE	REFERENCE,REFER
RECIRC	RECIRCULATE
RED	REDUCER
REFR	REFRIGERATOR
REINF	REINNGFORCING
REQD	REQUIRED
REV	REVISION, REVISE
RM	ROOM
RPM	REVOLUTIONS PER MINUTE
RV	RELIEF VALVE

S

SCHED	SCHEDULED
SD	STORM DRAIN
SE	SEWAGE EJECTOR
SEC	SECONDARY
SECT	SECTION
SF	SQUARE FEET
SFCS	SPRINKLER FLOOR CONTROL STATION
SH	SHOWER
SHT	SHEET
SIM	SIMILAR
SK	SINK
SP	SUMP PUMP, STATIC PRESSURE
SPEC	SPECIFICATION
SPR	SPRINKLER
SQ	SQUARE
SS	SERVICE SINK
SSD	SUBSURFACE DRAIN
SSFU	SANITARY SEWER FIXTURE UNITS
STD	STANDARD
STL	STEEL
STR	STRAINER
SURF	SURFACE
SUSP	SUSPEND
SV	SANITARY VENT
SW	SOFT WATER
SOV	SHUT-OFF VALVE

T

TD	TRENCH DRAIN
TDH	TOTAL DYNAMIC HEAD
TH BLK	THRUST BLOCK
TP	TRAP PRIMER
TPD	TRAP PRIMER DEVICE
TYP	TYPICAL

U

U	URINAL
UG	UNDERGROUND
UL	UNDERWRITERS LABORATORIES, INC.
U/F	UNDERFLOOR
U/S	UNDERSLAB

V

V	VOLT, VENT
VB	VALVE BOX, VACUUM BREAKER
VEL	VELOCITY
VERT	VERTICAL
VIB	VALVE IN BOX
VOV	VALVE ON VERTICAL
VTR	VENT THRU ROOF

W

W	WATT, WASTE, WIDTH, WASHER
W/	WITH
W/O	WITHOUT
WC	WATER CLOSET
WCO	WALL CLEANOUT
WH	WALL HYDRANT
WM	WATER METER
WP	WEATHERPROOF
WPD	WATER PRESSURE DROP
WT	WATERTIGHT, WEIGHT

Y

Y	YARD HYDRANT

PIPING TYPES

	SANITARY DRAIN BELOW FLOOR
	EXISTING SOIL OR WASTE PIPING B.G.
	SANITARY DRAIN ABOVE FLOOR
	EXISTING SOIL OR WASTE PIPING A.G.
X X X X X	PIPE DEMO
	SANITARY VENT
	EXISTING VENT PIPING
GW	GREASE WASTE(ABOVE CEILING)
GW	GREASE WASTE(BELOW FLOOR)
SD	STORM DRAIN(ABOVE CEILING)
SD	STORM DRAIN(BELOW FLOOR)
OD	OVERFLOW DRAIN(ABOVE CEILING)
OD	OVERFLOW DRAIN(BELOW FLOOR)
AW	ACID WASTE(ABOVE CEILING)
AW	EXISTING ACID WASTE PIPING A.G.
AW	ACID WASTE(BELOW FLOOR)
AW	EXISTING ACID WASTE PIPING B.G.
AV	ACID VENT(ABOVE CEILING OR BELOW FLOOR)
AV	EXISTING ACID VENT PIPING AV
CW	COLD WATER CW
	EXISTING DOMESTIC COLD WATER
HW	HOT WATER HW
	EXISTING DOMESTIC HOT WATER
	HOT WATER RECIRCULATION
HWR	EXISTING DOMESTIC HOT WATER RETURN
G	NATURAL GAS
T	TEMPERED WATER
CA	COMPRESSED AIR
A	MEDICAL AIR
O	MEDICAL OXYGEN
V	MEDICAL VACUUM
F	FIRE STANDPIPE, FIRE LINE
FS	WET AUTOMATIC FIRE SPRINKLER
TP	TRAP PRIMER
D	DRAIN LINE
SW	SOFT WATER
LT	LINT WASTE

PIPING FITTINGS

	CAP ON END OF PIPE
	ELBOW UP
	ELBOW DOWN
	VALVE IN DROP
	VALVE IN RISE
	DIRECTION OF FLOW
	DIRECTION OF SLOPE DOWN
	CONCENTRIC REDUCER
	ECCENTRIC REDUCER
	TEE OUTLET UP
	TEE OUTLET DOWN
	UNION
	FLANGE
	PIPE ANCHOR
	EXPANSION JOINT
	STRAINER WITH BLOWDOWN VALVE
	GATE VALVE, HVAC BALANCING/STOP VALVE
	GLOBE VALVE
	BALL VALVE
	BALANCING VALVE WITH DIFFERENTIAL PRESSURE TAPS
	OS&Y VALVE
	CHECK VALVE
	BUTTERFLY VALVE
	TWO-WAY MODULATING CONTROL VALVE
	THREE-WAY MODULATING CONTROL VALVE
	SOLENOID VALVE
	PRESSURE REDUCING VALVE
	GAS REGULATOR
	GAS COCK
SPRK	SPRINKLER FLOOR CONTROL STATION
	MANUAL AIR VENT
	AUTOMATIC AIR VENT
	T&P RELIEF VALVE
	LINE CLEANOUT/ WALL CLEANOUT
	FLOOR CLEANOUT
	GRADE CLEANOUT
	PRESSURE GAUGE WITH GAUGE COCK
	THERMOMETER
	WATER METER
	FLEXIBLE CONNECTION
	PRESSURE AND TEMPERATURE TAP
	FLOW VENTURI
	VACUUM BREAKER
	VACUUM RELIEF VALVE
	BACKFLOW PREVENTOR
	CIRCULATING PUMP
M	WATER SUB-METER

GENERAL PLUMBING NOTES

1. UNLESS NOTED OTHERWISE, GRAVITY DRAINAGE PIPING 3" AND SMALLER SHALL BE PROVIDED AT NO LESS THAN 1/4" PER FOOT UNIFORM SLOPE AND GRAVITY DRAINAGE PIPING 4" AND LARGER SHALL BE PROVIDED AT NO LESS 1/8" PER FOOT UNIFORM SLOPE.
2. WHERE THE PREVAILING CODE ALLOWS FOR A SHALLOWER SLOPE FOR GRAVITY DRAINAGE PIPING THAN INDICATED ABOVE, THIS SHALL BE ALLOWED IF REQUIRED PER PROJECT CONDITIONS.
3. WHERE THE PREVAILING CODE REQUIRES A STEEPER SLOPE FOR GRAVITY DRAINAGE PIPING THAN INDICATED ABOVE (SUCH AS FOR GREASE WASTE PIPING) THEN SUCH REQUIREMENT(S) SHALL CONTROL.
4. UNLESS NOTED OTHERWISE, GRAVITY STORM DRAINAGE AND SECONDARY (OVERFLOW) PIPING SHALL BE PROVIDED AT NO LESS THAN 1/8" PER FOOT UNIFORM SLOPE.
5. FUEL GAS PIPING SHALL BE PROVIDED IN ACCORDANCE WITH THE PREVAILING GAS CODE OR NFPA 54, WHICHEVER REQUIREMENTS ARE MORE STRINGENT.
6. THE INSTALLATION OF THE BUILDING PLUMBING SYSTEMS SHALL BE COORDINATED ACCORDINGLY WITH THE WORK OF ALL OTHER TRADES.

FIRE PROTECTION GENERAL NOTES

1. THE BUILDING SHALL BE FULLY FIRE SPRINKLERED. THE SCOPE OF WORK INCLUDES THE INSTALLATION OF SPRINKLER HEADS, PIPE, FITTINGS, HANGERS, AND ACCESSORIES.
2. FIRE SPRINKLER SYSTEM SHALL PROVIDE COMPLETE AUTOMATIC PROTECTION AND COVERAGE REQUIRED BY THE LOCAL, STATE, JURISDICTIONAL, GOVERNMENTAL AGENCIES AND NFPA 13 (PREVAILING EDITION). THE WORK SHALL INCLUDE, BUT NOT BE LIMITED TO, THE FOLLOWING: VALVE SUPERVISORY SWITCHES, FLOW SWITCHES AND COORDINATION WITH THE FIRE ALARM SYSTEM.
3. FIRE SPRINKLER SYSTEM SHALL BE DESIGNED AND INSTALLED BY A STATE LICENSED FIRE PROTECTION CONTRACTOR IN ACCORDANCE WITH ALL LOCAL, STATE, JURISDICTIONAL, GOVERNMENTAL AGENCIES AND NFPA 13 (PREVAILING EDITION). SPRINKLER SYSTEM MUST ALSO BE APPROVED BY OWNER AND OWNER'S FIRE INSURANCE UNDERWRITER.
4. FIRE SPRINKLER CONTRACTOR SHALL COORDINATE SPRINKLER HEAD LOCATIONS WITH CEILING TILES AND ARCHITECTURAL FINISHES. ALL SPRINKLER HEADS SHALL BE INSTALLED IN CENTER OF CEILING TILES REGARDLESS OF ANY NECESSITY TO INSTALL ADDITIONAL HEADS TO ACCOMPLISH UNIFORM APPEARANCES OF THE COMPLETED INSTALLATION BY THIS REQUIREMENT. CONTRACTOR SHALL MAKE ADJUSTMENTS AS NECESSARY DURING SHOP DRAWING PROCESS TO MEET ARCHITECTURAL REVIEW REQUIREMENTS WHILE STILL ENSURING COMPLETE AND COMPLIANT COVERAGE.
5. COMPLETE SHOP DRAWINGS AND CALCULATIONS SHALL BE SUBMITTED BY THE CONTRACTOR FOR OWNER, OWNER'S FIRE INSURANCE UNDERWRITER, AND FIRE MARSHAL APPROVAL.
6. SPRINKLER SYSTEM SHALL CONTAIN NO VALVES DOWNSTREAM OF CONTROL STATION.
7. CONTRACTOR TO DESIGN SPRINKLER SYSTEM AS REQUIRED TO ACCOMMODATE FIXTURES, PARTITIONS, SOFFITS, FURR DOWNS, CEILING HEIGHTS, OBSTRUCTIONS, ETC.
8. THE SPRINKLER SYSTEM SHALL BE FULLY CHARGED AND OPERATIONAL WHEN THE CONTRACTOR IS OFF THE SITE.
9. REFER TO OWNER'S CRITERIA/CONSTRUCTION REQUIREMENTS FOR ADDITIONAL INFORMATION.
10. REFER TO ARCHITECTURAL CODE ANALYSIS FOR ANY SPECIAL REQUIREMENTS.
11. UPON COMPLETION OF THE WORK, THE CONTRACTOR SHALL MAKE AND PAY FOR ALL TESTS AS MAY BE REQUIRED BY THE AUTHORITIES HAVING JURISDICTION AND SHALL CORRECT ANY DEFECTS INDICATED BY TESTS TO THE SATISFACTION OF THE AUTHORITIES.
12. ENSURE TO LOCATE INSPECTOR'S TEST CONNECTION AT THE END OF THE MOST REMOTE BRANCH LINE FOR EACH SYSTEM.
13. PROVIDE AND ADJUST ALL TAPER SWITCHES AND WATER FLOW SWITCHES.

EMERALD MEP

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Matrix Structural

MEP
Emerald MEP

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Imagine IT

Alerting
WestNET

STATION #42

Hays County ESD #4

Wimberley, TX 78676

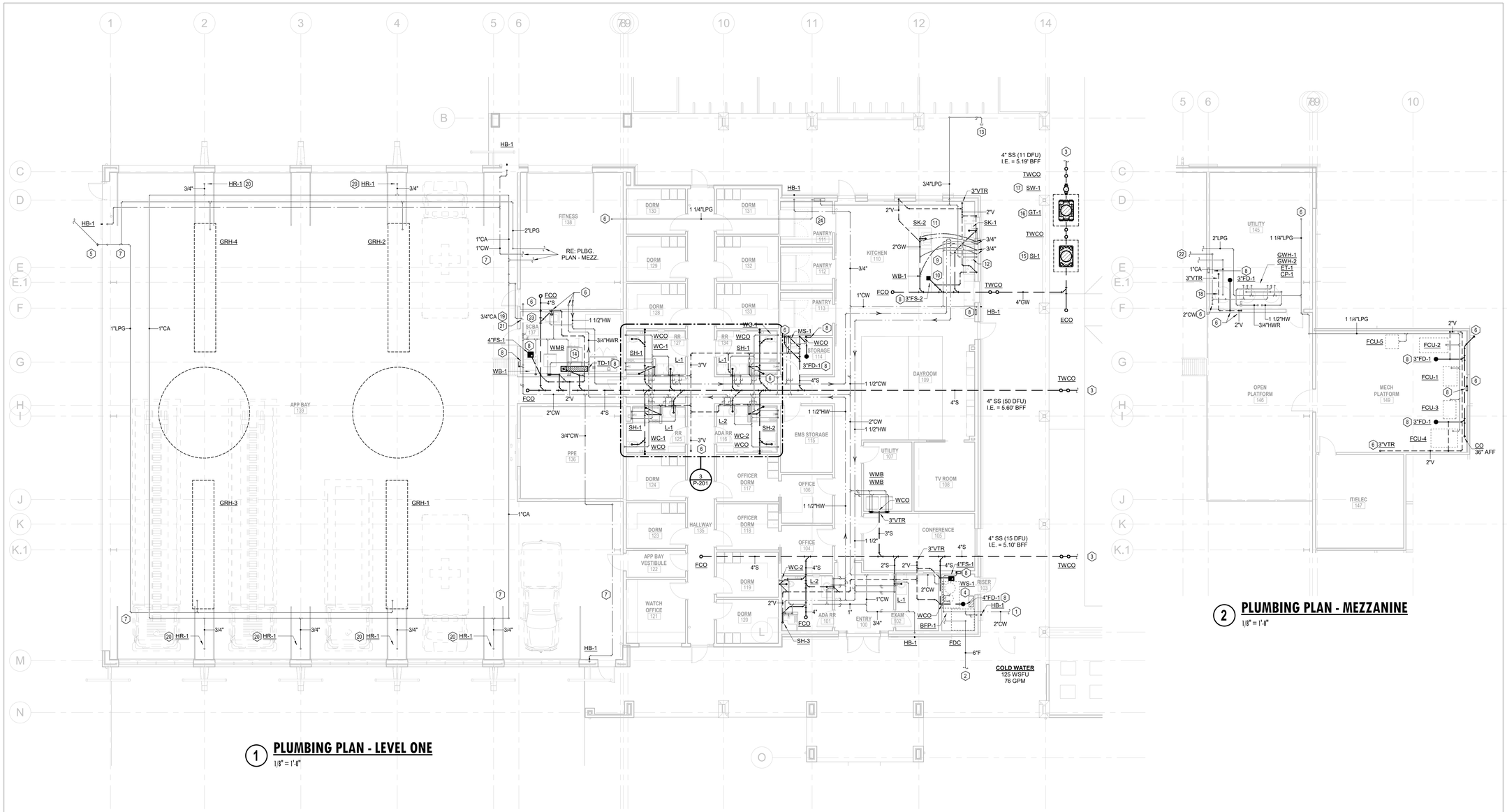
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PLUMBING SYMBOLS LEGEND

P-001

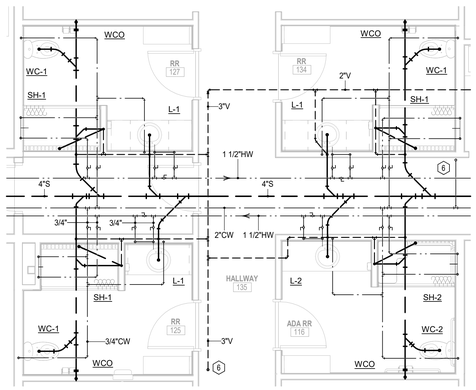


1 PLUMBING PLAN - LEVEL ONE

1/8" = 1'-0"

2 PLUMBING PLAN - MEZZANINE

1/8" = 1'-0"



3 ENLARGED RESTROOM PLAN

1/4" = 1'-0"

PLUMBING KEYED NOTES:

1. DOMESTIC WATER SERVICE, SIZE AND PEAK FLOW RATE AS NOTED. REFER TO CIVIL SITE UTILITY PLANS FOR CONTINUATION.
2. FIRE PROTECTION WATER SERVICE, SIZE AS NOTED. REFER TO CIVIL SITE UTILITY PLANS AND FIRE SPRINKLER CONTRACTOR FOR CONTINUATION.
3. SANITARY BUILDING DRAIN, SIZE AS NOTED. REFER TO CIVIL SITE UTILITY PLANS FOR CONTINUATION.
4. WALL MOUNTED NITROGEN SUPERVISORY GAS GENERATOR FOR DRY PIPE SYSTEM. COORDINATE FINAL ELECTRICAL REQUIREMENTS WITH ELECTRICAL CONTRACTOR.
5. LP GAS SERVICE TO BUILDING. SIZE AS NOTED. REFER TO PLUMBING RISERS.
6. PLUMBING PIPE (DWV, WATER, AIR, OR GAS) CONTINUES TO / FROM LEVEL ABOVE / BELOW. SIZE AND TYPE AS NOTED. COORDINATE EXACT ROUTING WITH THE WORK OF OTHER TRADES. REFER TO PLUMBING SYMBOLS LEGEND.
7. ROUTE PIPING AS HIGH AS POSSIBLE. SECURE TO BUILDING. COORDINATE ROUTING WITH STRUCTURE AND THE WORK OF OTHER TRADES.
8. SUPPLY TRAP PRIMER CONNECTION TO DRAIN. REFER TO PLUMBING SCHEDULES AND COORDINATE EXACT LOCATION WITH THE WORK OF THE TRADES.
9. DISHWASHER(S): PROVIDE HOT WATER SUPPLY AND STOP, AIR GAP FITTING, AND WASTE CONNECTION. REFER TO PLUMBING DETAILS.
10. UNDERCOUNTER ICE MAKER.
11. ISLAND FIXTURE INSTALLATIONS. PROVIDE SINK(S) WITH ISLAND FIXTURE VENTING. REFER TO PLUMBING DETAIL. ROUTE CW AND HW BELOW FLOOR FOR SERVICE TO ISLAND FIXTURES. SIZE AS NOTED. REFER TO PLUMBING PIPE MATERIAL SCHEDULE AND PROJECT SPECIFICATIONS.
12. OVEN / RANGE. REFER TO PLUMBING RISER.
13. OUTDOOR GRILL. ROUTE GAS TO OUTDOOR GAS GRILL. COORDINATE EXACT ROUTING WITH THE WORK OF OTHER TRADES. REFER TO PLUMBING RISERS AND PLUMBING DETAILS.
14. WASHER-EXTRACTOR. PROVIDE 1" CW AND HW SUPPLY LINES, HOSE FAUCETS, WATER HAMMER ARRESTORS, CONNECTIONS, DUAL CHECK VALVES, AND ALL RELATED COMPONENTS NECESSARY FOR A COMPLETE INSTALLATION ACCORDING TO MANUFACTURER'S RECOMMENDATIONS.
15. SOLIDS INTERCEPTOR (SI-1) BY SCHIER, MODEL SI-50 FURNISHED FOR BELOW-GRADE INSTALLATION WITH ADJUSTABLE COVER ADAPTER, AND TRAFFIC RATED 24" CAST IRON COVER (T24-GI). INSTALL RISER AND ANY ACCESSORIES REQUIRED FOR A COMPLETE INSTALLATION. PROVIDE SOLIDS INTERCEPTOR IN ACCORDANCE WITH MANUFACTURER'S INSTALLATION RECOMMENDATIONS AND LOCAL REQUIREMENTS. REFER TO PLUMBING DETAILS.
16. GREASE INTERCEPTOR (GT-1) BY SCHIER, MODEL GB-75 FURNISHED FOR BELOW-GRADE INSTALLATION WITH ADJUSTABLE COVER ADAPTER, AND TRAFFIC RATED 24" CAST IRON COVER (T24-GI). INSTALL RISER AND ANY ACCESSORIES REQUIRED FOR A COMPLETE INSTALLATION. PROVIDE GREASE INTERCEPTOR IN ACCORDANCE WITH MANUFACTURER'S INSTALLATION RECOMMENDATIONS AND LOCAL REQUIREMENTS. REFER TO PLUMBING DETAILS.
17. SAMPLE WELL (SW-1) BY SCHIER, MODEL SV10 FURNISHED FOR BELOW-GRADE INSTALLATION. INSTALL RISER AND ANY ACCESSORIES REQUIRED FOR A COMPLETE INSTALLATION. PROVIDE SAMPLE WELL IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS AND LOCAL REQUIREMENTS. REFER TO PLUMBING DETAILS.
18. AIR COMPRESSOR SYSTEM. OWNER FURNISHED AND INSTALLED.
19. AIR OUTLET / DROP. ROUTE COMPRESSED AIR PIPING FOR AIR OUTLET / DROP. SIZE AS NOTED. COORDINATE EXACT ROUTING WITH THE WORK OF OTHER TRADES AND EXACT LOCATION WITH OWNER AND ARCHITECT. SECURE PIPE TO WALL. PROVIDE VALVE AND QUICK CONNECT. REFER TO PLUMBING SCHEDULES AND PLUMBING DETAILS.
20. AIR HOSE REEL. AIR PIPING TO HR-1. SIZE AS NOTED. COORDINATE WITH ARCHITECT/OWNER FOR EXACT LOCATION. REFER TO PLUMBING DETAILS.
21. AIR OUTLET / DROP TO BE ABOVE COUNTER.
22. REFER TO PLUMBING PLAN - LEVEL ONE.
23. PROVIDE 3/4" CW AND HW SUPPLY AND STOPS, AND 2" DRAIN CONNECTION STUB OUT AT WALL. CAP AND SECURE FOR FUTURE USE. COORDINATE WITH ARCH AND OWNER FOR EXACT LOCATION.
24. PROVIDE ASCO REDHAT GAS SHUT-OFF VALVES AS RECOMMENDED BY WESTNET STATION ALERTING SYSTEMS. PROVIDE WITH NEMA 1 ENCLOSURE, SIZED FOR INSTALLATION OF BOTH VALVES AND ASSOCIATED FITTINGS AND APPURTENANCES. COORDINATE POWER REQUIREMENTS AND CONTROL INTEGRATION WITH ELECTRICAL CONTRACTOR AND STATION ALERTING INSTALLER.

PLUMBING GENERAL NOTES:

A. PLUMBING PIPING SHALL BE INSTALLED TIGHT TO STRUCTURE (OVERHEAD, WALLS, COLUMNS, ETC.) IN AREAS WITH EXPOSED STRUCTURE.

B. REFER TO MEP SITE PLAN FOR UTILITY CONNECTIONS.

C. COORDINATE ROUTING OF ALL PIPING WITH STRUCTURAL ELEMENTS INCLUDING THE FOUNDATION, FOOTINGS, AND GRADE BEAMS PRIOR TO INSTALLATION.

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MEP
Emerald MEP

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Imagine IT

Alerting
WestNET

STATION #42

Hays County ESD #4

Wimberley, TX 78676

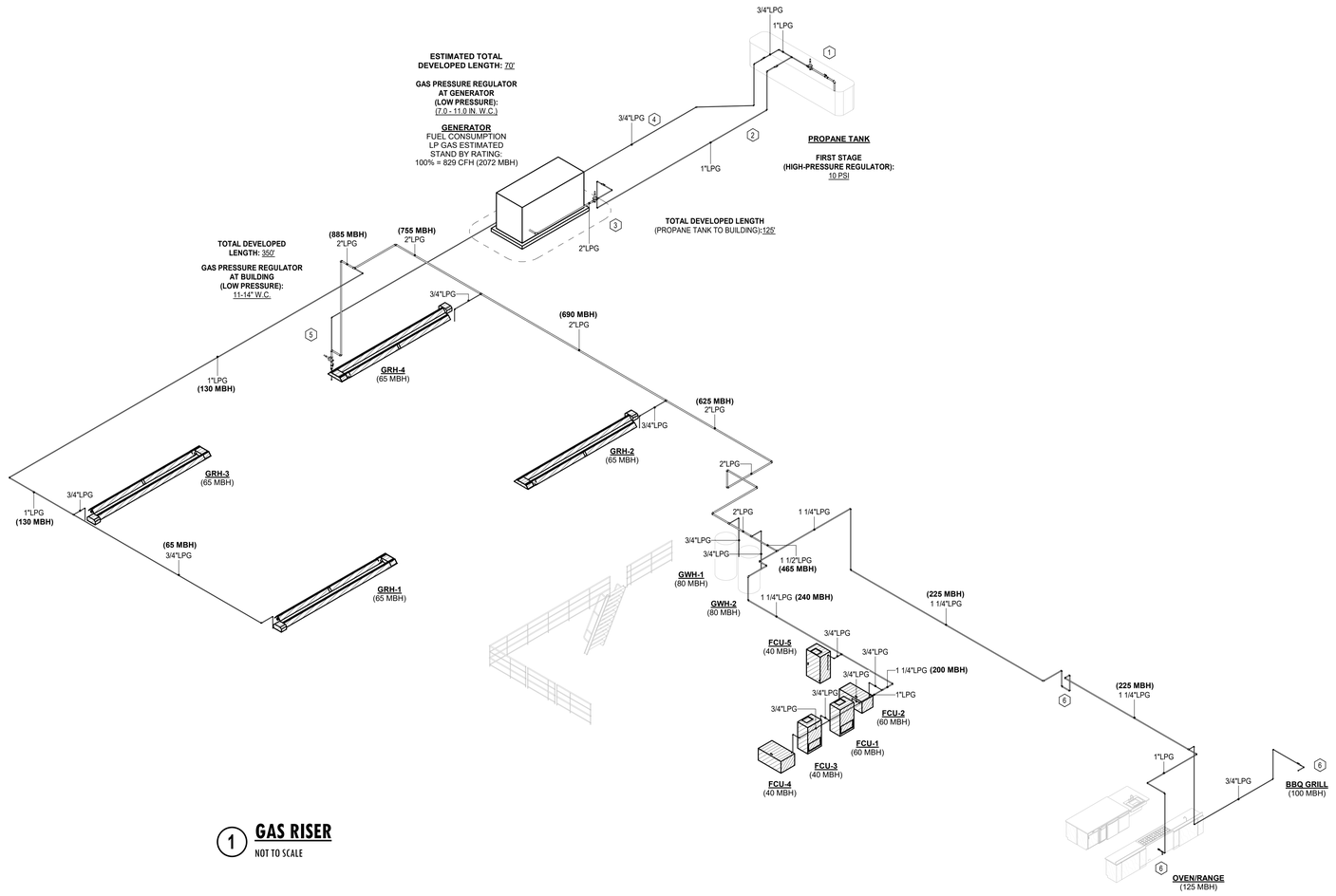
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PLUMBING PLANS

P-201



1 GAS RISER

NOT TO SCALE

PROPANE GAS LOAD BREAKDOWN

ITEM	BTU/H	MBH @ 1000 BTU/H	CFH @ 2500 BTU/FT.3
RANGE / OVEN	125,000	125	50
BBQ GRILL	100,000	100	40
GAS WATER HEATER (GWH-1)	80,000	80	32
GAS WATER HEATER (GWH-2)	80,000	80	32
GAS RADIANT HEATER (GRH-1)	65,000	65	26
GAS RADIANT HEATER (GRH-2)	65,000	65	26
GAS RADIANT HEATER (GRH-3)	65,000	65	26
GAS RADIANT HEATER (GRH-4)	65,000	65	26
FAN COIL UNIT (FCU-1)	60,000	60	24
FAN COIL UNIT (FCU-2)	60,000	60	24
FAN COIL UNIT (FCU-3)	40,000	40	16
FAN COIL UNIT (FCU-4)	40,000	40	16
FAN COIL UNIT (FCU-5)	40,000	40	16
GENERATOR	2,072,000	2,072	829
ESTIMATED TOTAL DEMAND	**2,957,000**	**2,957**	**1,183**

PLUMBING GAS RISER NOTES:

A. ISOMETRIC DIAGRAMS ARE FOR SIZING PURPOSES ONLY AND SHALL NOT BE USED FOR MATERIAL TAKE-OFFS, OR BE CONSTRUED TO INDICATE ACTUAL SITE INSTALLATION. CONTRACTOR SHALL COORDINATE EXACT LOCATIONS OF PIPING, DEVICES, AND EQUIPMENT WITH BUILDING ELEMENTS AND THE WORK OF OTHER TRADES.

B. CONTRACTOR TO PROVIDE GAS PRESSURE REGULATORS, PLUG VALVES, UNIONS, STRAINERS, AND DRIP LEGS (SEDIMENT TRAP) PRIOR TO MECHANICAL EQUIPMENT TIE-INS. CONTRACTOR TO SET GAS PRESSURE REGULATORS PER MANUFACTURERS' RECOMMENDATIONS.

C. PROVIDE ASCO REDHAT GAS SHUT-OFF VALVES AS RECOMMENDED BY WESTNET STATION ALERTING SYSTEMS. PROVIDE WITH NEMA 1 ENCLOSURE, SIZED FOR INSTALLATION OF BOTH VALVES AND ASSOCIATED FITTINGS AND APPURTENANCES. COORDINATE POWER REQUIREMENTS AND CONTROL INTEGRATION WITH ELECTRICAL CONTRACTOR AND STATION ALERTING INSTALLER.

⑥ PLUMBING KEYED NOTES:

1. OWNER TO PROVIDE 1000 GALLON PROPANE TANK WITH SATELLITE BASED CAPACITY MONITOR TO MAINTAIN 800 GALLONS OF AVAILABLE FUEL IN ORDER TO SERVE EMERGENCY EVENT ACTIVATING GENERATOR. CONTRACTOR SHALL COORDINATE WITH OWNER'S TANK PROVIDER FOR TANK FOUNDATION, LOCATION OF STUB UP, AND SETUP AS NEEDED. CONTRACTOR SHALL PROVIDE SHUT-OFF VALVES, GAS PRESSURE REGULATORS, AND ALL FINAL CONNECTIONS NECESSARY FOR A COMPLETE INSTALLATION.
2. LP GAS ROUTED BELOW GRADE TO SERVE EMERGENCY GENERATOR. CONTRACTOR TO COORDINATE EXACT ROUTING WITH THE WORK OF OTHER TRADES. PROVIDE SHUT-OFF VALVE.
3. LP GAS UP FROM BELOW GRADE TO SERVE EMERGENCY GENERATOR. PROVIDE SHUT-OFF VALVE AND GAS PRESSURE REGULATOR SET TO MANUFACTURER'S INSTALLATION REQUIREMENTS. ALLOW FOR A MINIMUM OF 10' FROM THE LOW PRESSURE REGULATOR TO THE GENERATOR.
4. LP GAS ROUTED BELOW GRADE TO SERVE BUILDING. CONTRACTOR TO COORDINATE EXACT ROUTING WITH THE WORK OF OTHER TRADES. PROVIDE SHUT-OFF VALVE.
5. LP GAS RISE UP ABOVE GRADE/PAVING OUTSIDE BUILDING. PROVIDE SHUT-OFF VALVE AND GAS PRESSURE REGULATOR SET TO PROVIDE 11-14" W.C. GAS PRESSURE. SLEEVE PENETRATION THROUGH EXTERIOR WALL WATER TIGHT. RISE UP TO CEILING SPACE TIGHT AND SECURED TO STRUCTURE. SIZE AS NOTED. CONTRACTOR TO COORDINATE EXACT ROUTING WITH THE WORK OF OTHER TRADES.
6. ASCO REDHAT GAS SHUT-OFF VALVES AS RECOMMENDED BY WESTNET STATION ALERTING SYSTEMS WITH NEMA 1 ENCLOSURE.

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Architectural
Martinez Architects

Civil
Hill Country Civil

Landscape
Evergreen Landscape Group

Structural
Matrix Structural

MEP
Emerald MEP

Technology
Imagine IT

Alerting
WestNET

STATION #42

Hays County ESD #4
Wimberley, TX 78676

PROJECT No: **MA 25016**
DATE: **20-OCT-2026**

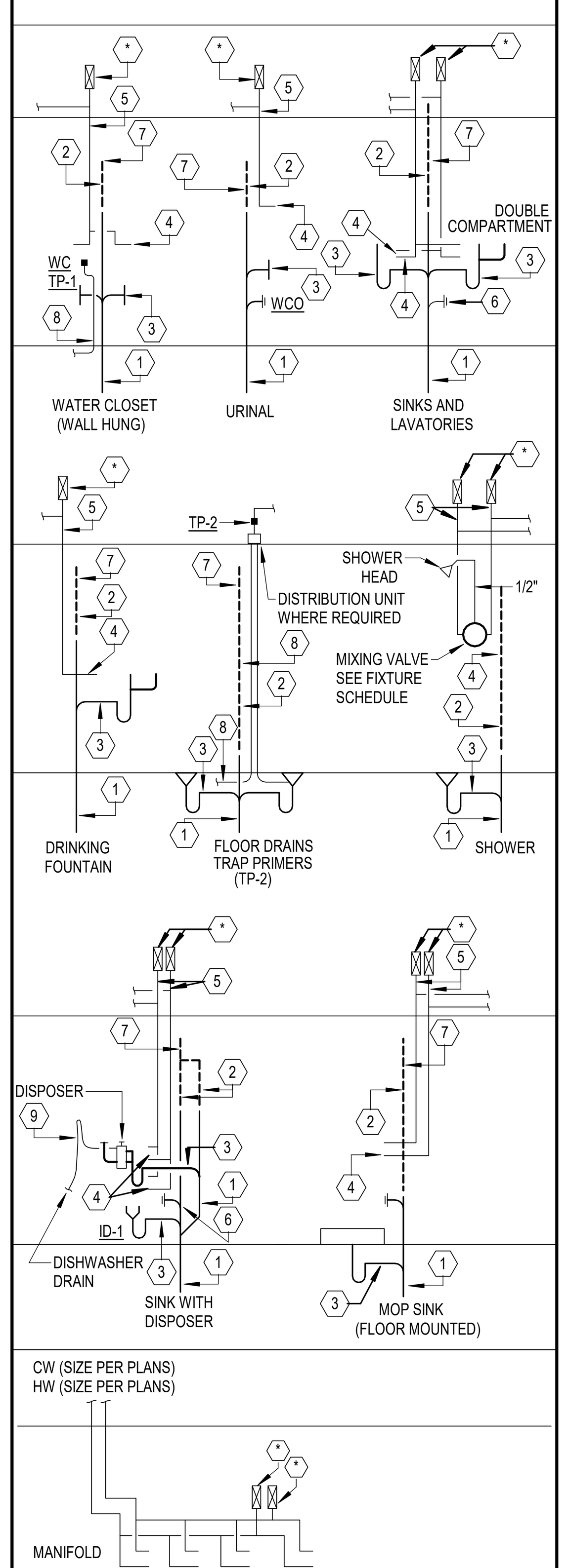
ISSUE

100% DD	06-JAN-2026
50% CD	23-FEB-2026
75% CD	06-APR-2026
98% CD	04-MAY-2026
IFP	01-JUN-2026
IFB	20-OCT-2026

PLUMBING RISERS

P-401

TYPICAL PLUMBING RISER DETAILS



KEYED NOTES - TYPICAL RISER DIAGRAM DETAILS:
(NOT ALL RISERS USED IN EVERY PROJECT.)

1. REFER TO PLUMBING FIXTURE SCHEDULE FOR SOIL OR WASTE ROUGH-IN PIPE SIZE. MINIMUM SOIL OR WASTE DRAIN LINE SIZE (EXCEPT AS NOTED) FOR THIS FIXTURE.
2. REFER TO PLUMBING FIXTURE SCHEDULE FOR SANITARY VENT ROUGH-IN PIPE SIZE. MINIMUM SANITARY VENT BRANCH SIZE (EXCEPT AS NOTED) FOR THIS FIXTURE.
3. REFER TO PLUMBING FIXTURE SCHEDULE FOR FIXTURE DRAIN ROUGH-IN PIPE SIZE. MINIMUM FIXTURE DRAIN AND TRAP SIZE (EXCEPT AS NOTED) FOR THIS FIXTURE.
4. REFER TO PLUMBING FIXTURE SCHEDULE FOR WATER PIPING ROUGH-IN PIPE SIZE. MINIMUM WATER SUPPLY BRANCH SIZE (EXCEPT AS NOTED) FOR THIS FIXTURE.
5. / * WATER HAMMER ARRESTOR INLET; REFER TO ARRESTOR SCHEDULE FOR SIZE. LOCATION SHOWN HERE FOR INDIVIDUAL FIXTURE WILL VARY WHERE INCLUDED AS PART OF PLUMBING CHASE BATTERY OF PIPING. REFER TO RISER DIAGRAMS FOR MANIFOLD LOCATIONS. ARRANGE ALL WATER LINES TO GRAVITY DRAIN.
6. WALL CLEANOUTS SHALL BE PROVIDED AT ALL END OF BATTERY OR END OF BRANCH LINE FIXTURES AND WHERE REQUIRED BY PLUMBING CODE OFFICIALS TO ASSURE COMPLETE ACCESS TO ALL PORTIONS OF DRAIN.
7. SANITARY VENT PIPES SHALL CONTINUE TO CEILING OR HEADER TOGETHER AT MINIMUM 42" ABOVE FINISHED FLOOR.
8. TRAP PRIMER LINE; SEE PLUMBING DETAILS SHEET. EXTEND AND CONNECT TO FLOOR DRAIN TRAP AS SHOWN.
9. AIR GAP FITTING; PROVIDE WHERE REQUIRED BY CODE.

WATER HAMMER ARRESTOR SCHEDULE

* P.D.I. SYMBOL	FIXTURE UNITS	SIZE
A	1-11	1/2" NPT
B	12-32	3/4" NPT
C	33-60	1" NPT
D	61-113	1 1/4" NPT
E	114-154	1 1/2" NPT
F	155-330	2" NPT

PIPING RISER DIAGRAMS/TYPICAL RISER DETAILS ILLUSTRATE WATER HAMMER ARRESTORS FOR FIXTURE WATER PIPE OPENINGS. ALL ARRESTORS SHALL BE SIZED AS INDICATED ON DRAWINGS OR IN ACCORDANCE WITH THIS SCHEDULE, WHICHEVER PLACES THE MOST STRINGENT REQUIREMENT.

PROVIDE ARRESTORS IN ACCORDANCE WITH THE REQUIREMENTS OF PLUMBING DRAINAGE INSTITUTE (PDI) STANDARD PDI-WH-201. THE USE OF AIR CHAMBERS SHALL NOT BE ACCEPTABLE.

WATER HAMMER ARRESTORS SHALL HAVE LIFETIME WARRANTY AND SHALL BE CERTIFIED BY THE MANUFACTURER AS SUITABLE FOR INSTALLATION WITHOUT A REQUIREMENT FOR ACCESS PANELS. NONETHELESS, ACCESS PANELS SHALL BE PROVIDED IF AND AS REQUIRED BY THE LOCAL AUTHORITY HAVING JURISDICTION (AHJ).

PLUMBING GENERAL NOTES

1. ALL WORK, METHODS AND INSTALLATIONS INVOLVED IN THE PLUMBING DESIGN SHALL BE IN ACCORDANCE WITH THE PREVAILING BUILDING CODES AND INSPECTION REGULATIONS AND ALL OTHER OFFICIALS HAVING JURISDICTION.
2. PRIOR TO CONSTRUCTION, THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING A COPY OF THE OWNER'S MOST RECENT STANDARDS AND REQUIREMENTS FOR CONSTRUCTION. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH SUCH REQUIREMENTS, UNLESS THE PREVAILING CODE OR THESE DOCUMENTS INDICATE A HIGHER STANDARD, WHICH SHALL GOVERN.
3. COORDINATE ROUTING OF PIPING IN CEILING SPACES WITH MECHANICAL AND ELECTRICAL EQUIPMENT, DUCTWORK AND CONDUIT. NOTIFY THE ARCHITECT/ENGINEER OF ANY CONFLICTS PRIOR TO INSTALLING AN ALTERNATE PIPING PLAN.
4. DO NOT ROUGH-IN FOR FIXTURES FROM THESE DRAWINGS. REFER TO LATEST ARCHITECTURAL DRAWINGS FOR DIMENSIONED LOCATIONS.
5. ALL PLUMBING FIXTURE AND DEVICE LOCATIONS AND MOUNTING HEIGHTS SHALL BE COORDINATED IN ADVANCE WITH CASEWORK, MILLWORK, ETC.
6. COORDINATE FIXTURE AND EQUIPMENT LOCATIONS AND CONNECTION REQUIREMENTS WITH LATEST ARCHITECTURAL DRAWINGS, SPECIFICATIONS, AND MANUFACTURER RECOMMENDATIONS PRIOR TO ANY ROUGH-INS.
7. PROVIDE CLEANOUTS, POINT OF USE WATER HEATERS, WATER FILTERS, ETC. IN ACCESSIBLE, BUT NOT IMMEDIATELY VISIBLE LOCATIONS. REFER TO AND COORDINATE WITH ARCHITECTURAL DRAWINGS FOR DIMENSIONS AND DETAILS OF SINK SKIRTS, ADA PANELS, AND MILLWORK.
8. ALL PIPING SHALL BE ROUTED CONCEALED FROM PUBLIC VIEW.
9. ENSURE THAT PIPING ROUTED IN CEILING SPACE IS AT AN ELEVATION ABOVE THE TOP OF WINDOW FRAME HEADS. ENSURE THAT PIPING ROUTED LOW INSIDE WALLS IS BELOW THE ELEVATION OF WINDOW SILLS. PROVIDE OFFSETS IN PIPING AS REQUIRED.
10. ALL VALVES, EQUIPMENT, AND OPERABLE APPURTENANCES SHALL BE LOCATED FREE FROM OBSTRUCTIONS FOR FULL OPERABILITY AND MAINTENANCE ACCESS.
11. ALL PIPING PROVIDED WITHIN RETURN AIR CEILING SPACES SHALL BE PLENUM RATED.
12. INSTALLATIONS WHICH DO NOT ADHERE TO THE REQUIREMENTS INDICATED WITHIN THE CONTRACT DOCUMENTS OR WHICH ARE INCORRECT DUE TO LACK OF FIELD COORDINATION, ETC. SHALL BE CORRECTED SOLELY AT THE CONTRACTOR'S EXPENSE, WITH NO EXCEPTIONS.
13. PROVIDE BALL VALVE SHUT-OFFS ON ALL DOMESTIC WATER BRANCH LINES WITHIN 24"OF THE CORRESPONDING MAIN, WHETHER INDICATED ON PLAN DRAWINGS OR NOT.
14. ALL DOMESTIC WATER AND SANITARY VENT LINES SERVING FIXTURE GROUPS SHALL HAVE A FULL SIZE HEADER THAT RUNS THE LENGTH OF THE CHASE/WALL SPACE FOR CONNECTION TO ALL FIXTURES. REFER TO PLANS FOR HEADER SIZES, WHICH MAY BE INDICATED BY THE VERTICAL DROP DOWN OR RISE UP FROM THE CHASE. REFER TO PLUMBING FIXTURE SCHEDULE FOR INDIVIDUAL FIXTURE ROUGH-IN CONNECTION SIZES TO HEADER.
15. VENT HEADERS WITHIN WALLS AND CHASES FOR MULTIPLE FIXTURES SHALL BE PROVIDED AT NO LESS THAN 42" ABOVE FINISHED FLOOR.
16. FOR EACH FIXTURE INTENDED TO DRAIN INDIRECTLY, PROVIDE THE CODE REQUIRED INDIRECT WASTE PIPE (AND TRAP OR TRAP AND VENT, AS NECESSARY) TO ROUTE THE DRAIN LINE TO THE NEAREST APPROVED INDIRECT WASTE RECEPTOR WITHOUT POSING A TRIP HAZARD. IN FINISHED AREAS ALL SUCH DRAIN LINES SHALL BE CHROME PLATED CAST BRASS.
17. PROVIDE AN ACCESSIBLE WALL CLEANOUT AT THE BASE OF EACH SANITARY RISER, WHETHER INDICATED ON PLAN DRAWINGS OR NOT.
18. FOR FLOOR MOUNTED WATER HEATERS AND SIMILAR EQUIPMENT, PROVIDE A RECTANGULAR SHAPED 4" THICK CONCRETE HOUSEKEEPING PAD EXTENDING TO BEYOND THE LIMITS OF THE EQUIPMENT FOOTPRINT.
19. COORDINATE ROUTING OF PIPING BELOW SLAB ON GRADE WITH COLUMN FOOTINGS, GRADE BEAMS, UNDERGROUND PLUMBING AND ELECTRICAL UTILITIES, AND ANY OTHER SUB-SURFACE BUILDING ELEMENTS. MAKE ADJUSTMENTS AS REQUIRED.
20. COORDINATE IN FIELD TO ENSURE NO LESS THAN 6 INCHES OF EARTHEN COVER FROM TOPS OF PIPES TO BOTTOMS OF GRADE BEAMS, FOUNDATION WALLS, OR SIMILAR ELEMENTS. IN LOCATIONS WHERE SUCH MINIMUM COVER CANNOT BE PROVIDED DUE TO LIMITATIONS OF AVAILABLE PIPE INVERTS, PROVIDE CAST IRON SLEEVES THROUGH THE FOUNDATION ELEMENTS. SLEEVES SHALL BE NO SMALLER THAN TWO PIPE SIZES GREATER THAN THE PIPE PASSING THROUGH THE GRADE BEAM/FOUNDATION WALL. COORDINATE WITH AND ADHERE TO ALL RELATED REQUIREMENTS INDICATED BY THE STRUCTURAL ENGINEER.
21. PROVIDE ISOLATION VALVES FOR ALL BRANCHES OFF DOMESTIC WATER MAINS. ALL PLUMBING SYSTEM VALVES SHALL BE INSTALLED IN ACCESSIBLE CEILING SPACES.
22. WHERE CEILING IS NOT ACCESSIBLE, OR SPACE IS CONFLICTING, VALVES SHALL BE INSTALLED IN PARTITIONS OR PIPE CHASES. PROVIDE APPROVED PAINTED STEEL HINGED ACCESS PANELS IN LOCATIONS PRE-APPROVED BY THE ARCHITECT. PROVIDE MARKINGS ON CEILING TILES ON LOCATIONS OF ISOLATION VALVES.
23. COORDINATE IN FIELD TO ENSURE THAT ALL INDIRECT WASTE RECEPTORS ARE PROPERLY POSITIONED WITH REGARD TO THE FIXTURES AND/OR EQUIPMENT THEY ARE INTENDED TO SERVE. MAKE ADJUSTMENTS AS REQUIRED. INSTALLATIONS WHERE SUPPORT FEET/CASTERS FOR APPLIANCES, EQUIPMENT, COUNTERTOPS, ETC., REST UPON DRAIN STRAINERS, GRATES, OR RIMS SHALL BE CONSIDERED UNACCEPTABLE. SUCH INSTALLATIONS SHALL BE CORRECTED SOLELY AT THE CONTRACTOR'S EXPENSE.
24. COORDINATE IN FIELD TO ENSURE THAT ALL DRAINS TO BE LOCATED IN AREAS OF SLOPED OR DEPRESSED SLABS ARE PROPERLY POSITIONED FOR THE INTENDED DRAINAGE. MAKE ADJUSTMENTS AS REQUIRED.
25. NORMALLY CLOSED (NC) VALVE(S) SHOULD BE FIELD INSTALLED AS CLOSE AS POSSIBLE TO NORMAL PATH OF HOT WATER TRAVEL AS SHOWN ON PLAN. THE REMAINING LEG OF BY-PASS PIPING WILL BE IN DIRECT COMMUNICATION WITH THE CIRCULATING WATER.
26. NORMALLY OPEN (NO) VALVE(S) ON HOT WATER LINES SHALL BE INSTALLED AS SHOWN ON THE PLAN.
27. ALL DOMESTIC WATER LINES ROUTED BELOW SLAB SHALL BE SOFT TYPE K COPPER WATER TUBE CONTINUOUS WITH NO JOINTS BELOW SLAB PER SPECIFICATION SECTION 22 10 00. PROVIDE CORROSION PROTECTION PER SPECIFICATIONS FOR ALL BURIED TUBE AND EXTEND PROTECTION UP TO 6 INCHES ABOVE FINISHED SLAB IN A PVC SLEEVE.

PLUMBING FIXTURES GENERAL NOTES

1. MOUNTING HEIGHT ELEVATION OF ALL WALL HUNG OR COUNTER MOUNTED FIXTURES SHALL BE COORDINATED WITH ARCHITECTURAL DRAWINGS PRIOR TO INSTALLATION OF ROUGH-IN WORK.
2. FOR ALL FIXTURES AND EQUIPMENT WITH ASSOCIATED TRIM OR COMPONENT ACCESSORIES PROVIDED UNDER SEPARATE DIVISIONS AND REQUIRING PLUMBING CONNECTIONS; THIS CONTRACTOR SHALL FIELD COORDINATE EXACT REQUIREMENTS OF, MAKE PROVISIONS FOR, AND SUPPLY ALL MATERIALS AND LABOR FOR MAKING FINAL CONNECTIONS.
3. CONTRACTOR SHALL REFER TO SHOP DRAWINGS OF EQUIPMENT TO BE SUPPLIED FOR FINAL COORDINATION OF ALL ROUGH-IN OPENINGS BEFORE BEGINNING WORK.
4. ALL FIXTURE AND EQUIPMENT STUB-OUTS SHALL BE PROVIDED WITH A STOP VALVE. ALL FIXTURE STOPS SHALL BE SOLID BRASS, LOOSE KEY OPERATED, CHROME PLATED (WHERE EXPOSED), AND FITTED TIGHT TO CHROME PLATED BRASS WALL ESCUTCHEON PLATES. SUPPLY RISERS SHALL BE STAINLESS STEEL FLEXIBLE CONNECTORS.
5. ALL P-TRAPS WITHIN THE BUILDING, ABOVE GRADE AND EXPOSED TO INSPECTION SHALL BE CHROME PLATED ADJUSTABLE, CAST BRASS WITH CLEANOUT PLUG. PROVIDE CAST BRASS SLIP NUTS AND WASHERS, 17 GAGE SEAMLESS TUBULAR BRASS DRAIN TO WALL AND WALL FLANGE. PROVIDE MCGUIRE NO. 8872C, 1-1/4" P-TRAP FOR ALL LAVATORIES AND SIMILAR FIXTURES PROVIDE MCGUIRE NO. 8912C, 1-1/2" P-TRAP FOR ALL SINKS AND SIMILAR FIXTURES.
6. PROVIDE DEEP SEAL P-TRAP FOR ALL DRAINS OF INFREQUENT USE OR REQUIRING TRAP PRIMER.
7. ALL ROUGH IN OPENINGS SHALL BE FITTED WITH CHROME PLATED, WROUGHT BRASS DEEP BELL OR BOX ESCUTCHEON PLATES FITTED TIGHT TO THE PIPE AND FLUSH TO THE WALL. STEEL ESCUTCHEON PLATES ARE NOT ACCEPTED.
8. ALL EXPOSED BRASS SHALL BE CHROME PLATED.
9. ALL HANDICAPPED ACCESSIBLE FIXTURES INDICATED WITH SHALL BE PROVIDED OF APPROVED TYPES AND WITH REQUIRED CONTROLS AND INSTALLED TO HEIGHTS AND CLEARANCES, AS PRESCRIBED BY AMERICANS WITH DISABILITIES ACT (ADA). FIXTURES SHALL COMPLY WITH ALL FEDERAL, STATE, AND LOCAL ACCESSIBILITY CODE REQUIREMENTS. REFER TO ARCHITECTURAL DRAWINGS FOR DIMENSIONED MOUNTING HEIGHTS AND SPECIFIED CLEARANCE REQUIREMENTS. PROVIDE FIXTURES WITH DEPTHS AT MAXIMUM PERMITTED AND AVAILABLE FOR INTENDED FIXTURE USE.
10. ALL WHEELCHAIR LAVATORY AND SINK PIPING WHERE EXPOSED SHALL BE INSULATED. PROVIDE OFFSET DRAIN FITTINGS WHERE REQUIRED TO PROVIDE MINIMUM CLEARANCES.
11. ALL SINKS FOR HANDICAPPED USE SHALL BE STAMPED WITH DRAIN OUTLET AT REAR OF BOWL.
12. PLUMBING FIXTURES SHALL BE OF WATER CONSERVATION TYPE IN ACCORDANCE WITH PLUMBING CODE REQUIREMENTS FOR WATER SAVING PERFORMANCE.
13. ORIENT ADA WATER CLOSET FLUSH VALVE WITH OPERATOR ON WIDE SIDE OF ENCLOSURE.
14. SEAL ALL SPACES BETWEEN PLUMBING FIXTURES AND MOUNTING SURFACES WITH WHITE LATEX CAULK WIPED SMOOTH AND FLUSH WITH FIXTURE.
15. FLOOR DRAINS SHALL BE INSTALLED AT LOW POINTS OF UNIFORMLY SLOPED FLOOR. CONTRACTOR SHALL FIELD COORDINATE WITH STRUCTURAL TO INSURE FLOORS ARE SLOPED UNIFORMLY ACROSS ENTIRE TOILET ROOMS OR OVER AS WIDE AN AREA AS PRACTICAL FOR OPEN AREA FLOOR DRAINS. CONVEX FLOOR SLOPE IN THE IMMEDIATE VICINITY OF THE FLOOR DRAIN IS NOT ACCEPTABLE.

WATER SOFTENER SCHEDULE

ITEM	WS-1	
EXCHANGE CAPACITY EACH TANK GRAINS REQUIRED	120,000	
NUMBER OF TANKS	(1) RESIN, (1) BRINE	
CUBIC FEET RESIN EACH TANK	4	
SERVICE RATE (GPM)	47	
BACKWASH RATE (GPM)	7	
PIPE CONNECTION SIZE	2"	
SOFT WATER OUTPUT PER GENERATION EACH TANK (GALLONS)	12,000	
BRINE TANK CAPACITY SALT (LBS)	400	
MAX. SALT PER REGENERATION (LBS)	60	
MAX. SPACE AVAILABLE EXCLUDES SERVICE ACCESS (L x W x H)	60"x36"x65"	
TANK DIMENSIONS (DIA. x HEIGHT)	SOFTENER	BRINE
	18"x65"	24"x50"
MAKE/MODEL	WATERTECH SERVICES MODEL WTS-F120 2	
REMARKS: ELECTRICAL REQUIREMENTS - 120 VAC FOR CONTROLLER (5 AMPS)		

PLUMBING PIPE MATERIAL SCHEDULE

PIPING SYSTEM	PIPING MATERIAL
SANITARY SOIL, WASTE AND VENT PIPING, **BURIED WITHIN 5 FT OF BUILDING**	PVC PIPE: ASTM D1785 / ASTM D2665 SCHEDULE 40 SOLID WALL; INSTALLED PER ASTM D2321.
SANITARY SOIL, WASTE AND VENT PIPING, **UNBURIED WITHIN BUILDING**	CAST IRON PIPE: CISPI 301 OR ASTM A888, HUBLESS.
DOMESTIC HOT& COLD WATER PIPING, **BURIED WITHIN 5 FT OF BUILDING**	COPPER TUBING: ASTM B88, TYPE K, SOFT ANNEALED
DOMESTIC HOT& COLD WATER PIPING, **UNBURIED WITHIN BUILDING**	ASTM F876 AND F877 LISTED CROSS-LINKED POLYETHYLENE (PEX) TUBING WITH ACCOMPANYING ASTM F1960 COLD EXPANSION ENGINEERED POLYMER FITTINGS WITH REINFORCING RINGS. TUBING SHALL BE ASTM F2023 TESTED AND NO LESS THAN 5106 LISTED FOR UV RESISTANCE AND FOR CHLORINE RESISTANCE FOR CONTINUOUS USAGE UP TO 140°F. SYSTEM SHALL BE LISTED FOR INSTALLATION IN RETURN AIR PLENUMS AS TESTED IN ACCORDANCE WITH ASTM E84. ALL HOT AND HOT WATER RETURN PIPING SHALL BE INSULATED AND ALL COLD WATER PIPING SUBJECT TO FREEZING SHALL BE INSULATED. PROVIDE THE MANUFACTURER'S SUPPORTS AND MINIMUM 1/2" 25/50 RATED PIPE INSULATION AS NECESSARY ON ALL OTHER COLD WATER PIPING IN ACCORDANCE WITH THE MANUFACTURER'S REQUIREMENTS TO ACHIEVE PLENUM COMPLIANCE. BASIS OF DESIGN: UPONOR PEX-A SYSTEM. ACCEPTABLE ALTERNATE MANUFACTURER: VIEGA PUREFLOW 5306 PEX WITH ACCOMPANYING POLYMER OR LEAD-FREE BRONZE PRESS CONNECT FITTINGS. NO MIXING OF SYSTEM MANUFACTURERS SHALL BE ALLOWED. PEX MUST BE RUN CONTINUOUS, POINT TO POINT, AND ANY JOINTS MUST BE ACCESSIBLE.
DOMESTIC HOT& COLD WATER PIPING, **UNBURIED WITHIN BUILDING APPARATUS BAYS**	COPPER TUBING: ASTM B88, TYPE L, HARD DRAWN. ALL PIPING SHALL BE INSULATED AND PROVIDED WITH A METAL JACKET PER THE SPECIFICATIONS.
PROPANE GAS **BURIED** PIPING WITH 5 POUND WORKING PRESSURE OR LESS	YELLOW POLYETHYLENE WITH SOCKET HEAT FUSION JOINTS AND FITTINGS PER ASTM D2513. PIPE SIZES 1-1/2" AND 2" SHALL BE SDR 11, (PE 2406) AND PIPE SIZES 3" AND 4" SHALL BE SDR 11.5 (PE 2406).
PROPANE GAS **UNBURIED WITHIN BUILDING** 2" AND LARGER- WELDED CONSTRUCTION 2" AND SMALLER- SCREWED FITTINGS	ALL GAS PIPING ABOVE GROUND SHALL BE ASTM A53/A53M SCHEDULE 40 BLACK STEEL AS MANUFACTURED BY NATIONAL TUBE, REPUBLIC, YOUNGSTOWN, OR APPROVED EQUAL DOMESTIC MANUFACTURER.
FIRE SPRINKLER **BURIED WITHIN 5 FT OF BUILDING**	DUCTILE IRON
FIRE SPRINKLER 2" AND SMALLER **(WET PIPE SPRINKLER)** **UNBURIED WITHIN BUILDING**	ASTM A135/A135M / ASTM A53/A53M SCHEDULE 10 BLACK STEEL PIPE WITH ROLL-GROOVED ENDS, JOINED WITH MECHANICAL COUPLINGS AND WITH MANUFACTURED CARBON STEEL GROOVED FITTINGS WITH MATCHING MECHANICAL COUPLINGS FOR PIPE 2-1/2" AND LARGER.
FIRE SPRINKLER 2-1/2" AND LARGER **(WET PIPE SPRINKLER)** **UNBURIED WITHIN BUILDING**	ASTM A135/A135M / ASTM A53/A53M SCHEDULE 10 BLACK STEEL PIPE WITH ROLL-GROOVED ENDS, JOINED WITH MECHANICAL COUPLINGS AND WITH MANUFACTURED CARBON STEEL GROOVED FITTINGS WITH MATCHING MECHANICAL COUPLINGS FOR PIPE 2-1/2" AND LARGER.

NOTES: REFER TO PROJECT SPECIFICATIONS FOR FURTHER CLARIFICATION AND COMPLETE PIPING DESCRIPTION.

PLUMBING FIXTURE SUPPLIES AND TRIM

FIXTURE	MANUFACTURER	STRAINER	P-TRAP	SIZE	ANGLE STOP AND SUPPLY RISER
LAVATORY	McGUIRE	HD155A	8902	1-1/4"	LFBV2165, 1/2" I.P.S. X 3/8" O.D.
SINK	McGUIRE	151CNSS316	8903	1-1/2"	LFBV2165, 1/2" I.P.S. X 3/8" O.D.
DRINKING FOUNTAIN	McGUIRE	HD155A	8903	1-1/2"	LFBV2165, 1/2" I.P.S. X 3/8" O.D.

NOTES:

1. STRAINERS SHALL BE HEAVY CAST BRASS CHROME PLATED WITH MATCHING GRID TYPE STRAINER, WITH OR WITHOUT OVERFLOW AS REQUIRED. 17 GAUGE SEAMLESS BRASS TAILPIECE OF LENGTH DETERMINED BY INSTALLATION REQUIREMENTS. PROVIDE COMPLETE WITH WASHERS AND BRASS LOCKNUT.
2. P-TRAPS SHALL BE 17 GAUGE SEAMLESS CHROME-PLATED BRASS, ADJUSTABLE TYPE. PROVIDE COMPLETE WITH CLEANOUT PLUG, CHROME-PLATED BRASS SLIP NUTS, WALL BEND, AND WROUGHT BRASS ESCUTCHEON OF DEPTH DETERMINED BY INSTALLATION REQUIREMENTS.
3. ANGLE STOPS SHALL BE LEAD-FREE COMMERCIAL PATTERN CHROME-PLATED BRASS, QUARTER-TURN BALL TYPE WITH LOOSE KEY HANDLES. PROVIDE COMPLETE WITH CHROME-PLATED COPPER SUPPLY RISERS AND WROUGHT BRASS ESCUTCHEON OF DEPTH DETERMINED BY INSTALLATION REQUIREMENTS.
4. PIPE TRIM INSULATION SHALL BE COMPLIANT, WHITE MOLDED VINYL, FADE/DISCOLORATION-RESISTANT, BACTERIA/FUNGAL-RESISTANT INSULATION.
5. PROVIDE ZURN OR EQUAL FLOOR MOUNTED CARRIER.

PLUMBING EQUIPMENT SCHEDULE

PLAN MARK	WASTE	VENT	DRAIN	CW	HW	DESCRIPTION
GWH-1 GWH-2 GAS WATER HEATER (TANK TYPE, PROPANE)	---	---	3/4"	1-1/2"	1-1/2"	TWO COMMERCIAL LIGHT-DUTY ATMOSPHERIC VENT WITH RETURN CIRCULATION LOW NOX GAS WATER HEATERS BY BRADFORD WHITE, PROPANE (LP) MODEL LG2100H803X, 100 GALLON TANK(S), 80,000 BTUH INPUT, 78 GPH RECOVERY CAPACITY AT 100°F TEMP RISE PER TANK. EQUIP WITH ASME RATED TEMPERATURE PRESSURE AND RELIEF VALVES, 4" CONCRETE PAD, AND VENTING. COORDINATE VENTING WITH MECHANICAL. INSTALL PER MANUFACTURERS INSTRUCTIONS. REFER TO PLUMBING DETAILS.
CP-1 CIRCULATION PUMP	---	---	---	---	3/4"	GRUNDFOS ALPHA HWR 15-55 SU/T IN-LINE CIRCULATOR PUMP, 8 US GPM @ 11.01FT OF HEAD. STAINLESS STEEL PUMP HOUSING WITH COMPOSITE IMPELLER. BUILT-IN TEMPERATURE SENSOR AND TIMER CONTROLS. COORDINATE WITH ELECTRICAL CONTRACTOR FOR FINAL CONNECTION. **ELECTRICAL REQUIREMENTS: 115V/1PH**
ET-1 EXPANSION TANK	---	---	---	3/4"	---	AMTROL THERM-X-TROL MODEL ST-12, ASME THERMAL EXPANSION ABSORBERS, MAXIMUM WORKING PRESSURE 150 PSIG, TOTAL VOLUME 3.2 GALLONS.
TMV-1 THERMOSTATIC MIXING VALVE	---	---	---	3/8"	3/8"	POWERS SERIES LFE480 ASSE 1070, POINT OF USE MIXING VALVE WITH INLET CHECK STOPS TO LIMIT HOT WATER TEMPERATURE AT 105°F.
BFP-1 BACKFLOW PREVENTER DOMESTIC LINE AT WATER SOFTENER	---	---	---	2"	---	WATTS LF909-0SY-S LEAD FREE REDUCED PRESSURE DOUBLE CHECK ASSEMBLY WITH INTERMEDIATE ATMOSPHERIC VENT. PROVIDE AIR GAP AND FULL SIZE INDIRECT DRAIN PIPED TO FLOOR DRAIN. INSTALL WITH SHUT-OFF VALVE AND FULL SIZE STRAINER ON INLET RISER AND SHUT-OFF VALVE ON OUTLET RISER.
TP-1 TRAP PRIMER (ELECTRONIC)	---	---	---	1/2"	---	PRECISION PLUMBING PRODUCTS MINI-PRIME ELECTRONIC TRAP PRIMING MANIFOLD SERIES WITH DISTRIBUTION UNIT (AS NEEDED) FOR UP TO 4 FLOOR DRAINS. COORDINATE WITH ELECTRICAL CONTRACTOR FOR FINAL CONNECTION.
TP-2 TRAP PRIMER (AUTOMATIC)	---	---	---	1/2"	---	PRECISION PLUMBING PRODUCTS MODEL PR-500 PRIME-RITE SERIES AUTOMATIC PRESSURE DROP ACTIVATED TRAP PRIMER VALVE WITH DISTRIBUTION UNIT FOR UP TO 2 FLOOR DRAINS. VALVE REQUIRES A 3 PSI (21 KPA) PRESSURE DROP. INSTALL ACCORDING TO MANUFACTURER INSTALLATION REQUIREMENTS.
GD-1 FOOD WASTE DISPOSER	---	---	1-1/2"	---	---	INSINKERATOR MODEL BADGER 5, SUPPLIED WITH POWER CHORD. COORDINATE WITH ELECTRICAL CONTRACTOR FOR FINAL CONNECTION. **ELECTRICAL" 1/2 HP 120V/1 PH**
SI-1 SOLIDS INTERCEPTOR	SEE PLANS	---	---	---	---	SCHIER MODEL SI-50 WITH ADJUSTABLE COVER ADAPTER, AND TRAFFIC RATED 24" CAST IRON COVER (T24-GI). REFER TO PLUMBING PLAN AND PLUMBING DETAIL.
GT-1 GREASE INTERCEPTOR	SEE PLANS	---	---	---	---	SCHIER MODEL GB-75 WITH ADJUSTABLE COVER ADAPTER, AND TRAFFIC RATED 24" CAST IRON COVER (T24-GI). REFER TO PLUMBING PLAN AND PLUMBING DETAIL.
SW-1 SAMPLE WELL	SEE PLANS	---	---	---	---	SCHIER MODEL SV10. REFER TO PLUMBING PLAN AND PLUMBING DETAIL.

PLUMBING FIXTURE SCHEDULE

FIXTURE TAG	FIXTURE TYPE	MINIMUM ROUGH-IN SIZES: WASTE	VENT	DRAIN	CW	HW	MANUFACTURE	MODEL	DESCRIPTION
WC-1	WATER CLOSET FLOOR MOUNTED TANK TYPE (STANDARD HEIGHT)	4"	2"	4"	1/2"	---	BOWL: GERBER SEAT: GERBER	GWS31812 AVALANCHE GC550126	1.28 GALLON PER FLUSH, 12" ROUGH-IN, TWO-PIECE WHITE VITREOUS CHINA, 15-9/16" HIGH ELONGATED CLOSET BOWL, FILL VALVE, FLAPPER, AND TANK LEVER WITH ARM. ELONGATED TOP MOUNT SOFT-CLOSE QUICK-RELEASE SEAT WITH COVER, NON-SLIP BUMPERS, AND METAL ANCHOR POSTS.
WC-2	WATER CLOSET FLOOR MOUNTED TANK TYPE (ADA COMPLIANT)	4"	2"	4"	1/2"	---	BOWL: GERBER SEAT: GERBER	GWS21818 AVALANCHE GC550126	1.28 GALLON PER FLUSH, 12" ROUGH-IN, TWO-PIECE WHITE VITREOUS CHINA, 17-1/8" HIGH ELONGATED CLOSET BOWL, FILL VALVE, FLAPPER, AND TANK LEVER WITH ARM. ELONGATED TOP MOUNT SOFT-CLOSE QUICK-RELEASE SEAT WITH COVER, NON-SLIP BUMPERS, AND METAL ANCHOR POSTS.
L-1	LAVATORY UNDERMOUNTED (STANDARD HEIGHT)	2"	2"	1-1/4"	1/2"	1/2"	BOWL: KOHLER FAUCET: DELTA	K-2881 VERTICYL 554HAR-BL-DST	1.2 GPM FLOW, 19-1/4" OVAL UNDERMOUNT SINK WITH OVERFLOW DRAIN, MADE FROM VITREOUS CHINA. SINGLE HANDLE SINGLE HOLE DECK MOUNTED BATHROOM FAUCET IN MATTE BLACK WITH RIGID SPOUT. INSTALL WITH FIXED GRID DRAIN STRAINER, CHROME PLATED CAST BRASS P-TRAP, STOPS AND SUPPLIES, INSULATION KIT, AND THERMOSTATIC MIXING VALVE (TMV-1).
L-2	LAVATORY UNDERMOUNTED (ADA COMPLIANT)	2"	2"	1-1/4"	1/2"	1/2"	BOWL: KOHLER FAUCET: DELTA	K-2881 VERTICYL 554HAR-BL-DST	1.2 GPM FLOW, 19-1/4" OVAL UNDERMOUNT SINK WITH OVERFLOW DRAIN, MADE FROM VITREOUS CHINA. SINGLE HANDLE SINGLE HOLE DECK MOUNTED BATHROOM FAUCET IN MATTE BLACK WITH RIGID SPOUT. INSTALL WITH FIXED GRID DRAIN STRAINER, CHROME PLATED CAST BRASS P-TRAP, STOPS AND SUPPLIES, INSULATION KIT, AND THERMOSTATIC MIXING VALVE (TMV-1).
SH-1	SHOWER W/ LINEAR DRAIN (STANDARD)	2"	2"	2"	1/2"	1/2"	SHOWER: JOB BUILT CONTROLS: PEERLESS DRAIN: ZURN	--- PTT188782-BL PRECEPT ZS880	1.5 GPM FLOW RATE, SHOWER VALVE AND TRIM KIT WITH ADJUSTABLE SPRAY SHOWER HEAD AND PRESSURE BALANCING MIXING VALVE (ASSE 1016) WITH INTEGRAL SERVICE STOPS. STAINLESS STEEL LINEAR SHOWER DRAIN WITH VERTICALLY ADJUSTABLE ANCHORING SUPPORT LEGS, ANTI-PONDING V-SHAPED CHANNEL WITH 2" NO-HUB CENTER OUTLET, INTEGRAL MEMBRANE FLANGE, AND SECURED LINEAR (LS) SLOTTED GRATE. COORDINATE SIZE AND EXACT PLACEMENT WITH OWNER AND ARCHITECT.
SH-2	SHOWER W/ LINEAR DRAIN (ADA COMPLIANT)	2"	2"	2"	1/2"	1/2"	SHOWER: JOB BUILT CONTROLS: PEERLESS DRAIN: ZURN	--- PTT24247-BL PRECEPT ZS880	1.5 GPM FLOW RATE, SHOWER VALVE AND TRIM KIT WITH DIVERTER VALVE, SHOWER HEAD WITH ADJUSTABLE SPRAY, HAND HELD SHOWER WAND WITH 72" STAINLESS STEEL HOSE AND GRAB BAR, AND PRESSURE BALANCING MIXING VALVE (ASSE 1016) WITH INTEGRAL SERVICE STOPS. STAINLESS STEEL LINEAR SHOWER DRAIN WITH VERTICALLY ADJUSTABLE ANCHORING SUPPORT LEGS, ANTI-PONDING V-SHAPED CHANNEL WITH 2" NO-HUB CENTER OUTLET, INTEGRAL MEMBRANE FLANGE, AND SECURED LINEAR (LS) SLOTTED GRATE. COORDINATE SIZE AND EXACT PLACEMENT WITH OWNER AND ARCHITECT.
SH-3	SHOWER W/ LINEAR DRAIN (ADA COMPLIANT)	2"	2"	2"	1/2"	1/2"	SHOWER: JOB BUILT CONTROLS: PEERLESS DRAIN: ZURN	--- PTT24247-BL PRECEPT ZS880	1.5 GPM FLOW RATE, SHOWER VALVE AND TRIM KIT WITH DIVERTER VALVE, SHOWER HEAD WITH ADJUSTABLE SPRAY, HAND HELD SHOWER WAND WITH 72" STAINLESS STEEL HOSE AND GRAB BAR, AND PRESSURE BALANCING MIXING VALVE (ASSE 1016) WITH INTEGRAL SERVICE STOPS. STAINLESS STEEL LINEAR SHOWER DRAIN WITH VERTICALLY ADJUSTABLE ANCHORING SUPPORT LEGS, ANTI-PONDING V-SHAPED CHANNEL WITH 2" NO-HUB CENTER OUTLET, INTEGRAL MEMBRANE FLANGE, AND SECURED LINEAR (LS) SLOTTED GRATE. COORDINATE SIZE AND EXACT PLACEMENT WITH OWNER AND ARCHITECT.
SK-1	SINK SINGLE BOWL (STANDARD HEIGHT)	2"	2"	1-1/2"	1/2"	1/2"	FAUCET: DELTA BOWL: ELKAY	9184-BL-DST RENALDI ECTSRS33229TBG	1.8 GPM FLOW, STAINLESS STEEL 33" X 22" X 9" SINGLE BOWL DUAL MOUNT SINK KIT WITH REAR CENTER DRAIN PLACEMENT. SINGLE HANDLE PULL-DOWN KITCHEN FAUCET IN MATTE BLACK, WITH HIGH-ARC 360° SWIVELING SPOUT, RETRACTABLE HOSE, AND MAGNETIC DOCK. INSTALL WITH DRAIN STRAINER BASKET AND TAILPIECE, CHROME PLATED CAST BRASS P-TRAP, STOPS AND SUPPLIES, INSULATION KIT, THERMOSTATIC MIXING VALVE (TMV-1), AND GARBAGE DISPOSAL (GD-1).
SK-2	SINK SINGLE BOWL (ADA COMPLIANT)	2"	2"	1-1/2"	1/2"	1/2"	FAUCET: DELTA BOWL: ELKAY	9184-BL-DST RENALDI ECTSRSAD332260	1.5 GPM, STAINLESS STEEL 33" X 22" X 6" SINGLE BOWL DUAL MOUNT SINK KIT WITH REAR CENTER DRAIN PLACEMENT. SINGLE HANDLE PULL-DOWN KITCHEN FAUCET IN MATTE BLACK, WITH HIGH-ARC 360° SWIVELING SPOUT, RETRACTABLE HOSE, AND MAGNETIC DOCK. INSTALL WITH LK35 DRAIN STRAINER BASKET AND TAILPIECE, CHROME PLATED CAST BRASS P-TRAP, STOPS AND SUPPLIES, INSULATION KIT, AND THERMOSTATIC MIXING VALVE (TMV-1).
MS-1	MOP SINK	3"	2"	3"	3/4"	3/4"	BASIN: STERN-WILLIAMS FAUCET: STERN-WILLIAMS	SB-300 T-15-VB	2.5 GPM FLOW RATE, 36" X 24" X 12" RECTANGULAR TERRAZZO MOP BASIN WITH STAINLESS STEEL CAPS, CAST INTEGRAL STAINLESS DRAIN BODY, AND SS STRAINER. WALL MOUNT 2-HOLE FAUCET IN POLISHED CHROME FINISH WITH INTEGRAL STOPS, VACUUM BREAKER, LEVER HANDLES, AND BUCKET HOOK. INSTALL WITH BACK PANELS (BP), HOSE AND WALL BRACKET (T-35), AND MOP HANGER (T-40). COORDINATE OTHER OPTIONAL COMPONENTS WITH OWNER AND ARCHITECT.
WB-1	WALL BOX	---	---	---	1/2"	---	BOX: PRECISION PLUMBING PRODUCTS (PPP)	MM-500MIMB	WHITE POWDER COATED METAL ICE MAKER BOX CONSTRUCTED OF 20 GAUGE STEEL WITH WATER HAMMER ARRESTOR, QUARTER TURN BALL VALVE, MOUNTING BRACKETS, AND FACEPLATE. INSTALL BOX 54" AFF BEHIND FREE STANDING REFRIGERATOR / ICE MAKER AND 18" AFF FOR UNDER COUNTER REFRIGERATOR / ICE MAKER. LEAVE 48" OF 1/4" O.D. TYPE 'D' SOFT COPPER FOR EQUIPMENT CONNECTION. PROVIDE AQUA-PURE SST1HA STAINLESS STEEL WATER FILTRATION SYSTEM AND ZURN NO. 700XL CHECK VALVE BRACKETED TO WALL.
WMB	WASHING MACHINE WATER SUPPLY AND DRAIN BOX	2"	2"	2"	3/4"	3/4"	BOX: PRECISION PLUMBING PRODUCTS (PPP)	MM-500MLB	WHITE POWDER COATED METAL LAUNDRY BOX CONSTRUCTED OF 20 GAUGE STEEL WITH WATER HAMMER ARRESTORS, QUARTER TURN BALL VALVES, MOUNTING BRACKETS, 2" RUBBER DRAIN PIPE COUPLING, AND FACEPLATE. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT MOUNTING LOCATION.
HB-1	HOSE BIBB	---	---	---	3/4"	---	FAUCET: WOODFORD	MODEL 24	EXPOSED TYPE, MILD CLIMATE, WALL-MOUNTED FAUCET WITH 3/4" FPT INLET, 3/4" MALE HOSE THREAD OUTLET AND SELF-DRAINING ANTI-SIPHON, VACUUM BREAKER, CHROME PLATED FINISH WITH METAL WHEEL HANDLE.
FD-1	FLOOR DRAIN	SEE PLAN	2"	SEE PLAN	---	---	DRAIN: ZURN	ZN415B	CAST IRON BODY WITH BOTTOM OUTLET, COMBINATION INVERTIBLE MEMBRANE CLAMP AND ADJUSTABLE COLLAR WITH SEEPAGE SLOTS AND "TYPE B" POLISHED NICKEL BRONZE, LIGHT-DUTY HEEL-PROOF STRAINER, TRAP PRIMER CONNECTION, AND 4" DIAMETER FUNNEL GRATE WHERE APPLICABLE. .
FS-1	FLOOR SINK	SEE PLAN	2"	SEE PLAN	---	---	DRAIN: ZURN	ZN1901	12" SQUARE, 8" DEEP CAST IRON DRAIN WITH ENAMELED INTERIOR AND TOP, SEDIMENT BUCKET STRAINER AND SECURED HALF NICKEL BRONZE GRATE. PROVIDE TRAP PRIMER CONNECTION.
FS-2	FLOOR SINK	SEE PLAN	2"	SEE PLAN	---	---	DRAIN: MIFAB	FS1520	8" SQUARE, 6" DEEP CAST IRON DRAIN WITH PORCELAIN ENAMEL COATED INTERIOR, ALUMINUM DOME STRAINER, AND HALF NICKEL BRONZE GRATE. PROVIDE TRAP PRIMER CONNECTION.
TD-1	TRENCH DRAIN (LAUNDRY)	4"	2"	4"	---	---	DRAIN: ABT, INC.	TS12-12-208C-FG-F21G	LAUNDRY TRENCH DRAINAGE SYSTEM. REFER TO PLUMBING PLAN AND PLUMBING DETAIL. PROVIDE TRAP PRIMER CONNECTION.
WCO	WALL CLEANOUT	4"	---	---	---	---	CLEANOUT: SIOUX CHIEF	873	CAST IRON CLEANOUT FERRULE WITH BRASS PLUG AND ROUND 20 GAUGE STAINLESS STEEL COVER PLATE WITH CENTER SECURING SCREW.
FCO	FLOOR CLEANOUT	4"	---	---	---	---	CLEANOUT: SIOUX CHIEF	834-64DNRV	BOTTOM OUTLET DUCTILE IRON BODY, ADJUSTABLE 6-1/2" DIAMETER NICKEL BRONZE RING AND COVER WITH VANDAL-RESISTANT SCREWS.
ECO	EXTERIOR CLEANOUT TO GRADE	4"	---	---	---	---	CLEANOUT: SIOUX CHIEF	834-64DIRV	BOTTOM OUTLET DUCTILE IRON BODY, ADJUSTABLE 6-1/2" DIAMETER DUCTILE IRON RING AND COVER WITH VANDAL-RESISTANT SCREWS. IF LOCATED IN ASPHALT OR DIRT PROVIDE 18" X 18" X 12" CONCRETE PAD.

* - REFER TO DRAWINGS FOR SIZING.

NOTES:

1. FOR ALL SUPPLY STOPS AND TRIM REFER TO THE PLUMBING FIXTURE SUPPLIES AND TRIM SCHEDULE.
2. FOR MOUNTING HEIGHTS OF INDIVIDUAL FIXTURES, REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATION.
3. CONTRACTOR TO COORDINATE LOCATION OF DRAINS AND FLOOR SINKS WITH ARCHITECTURAL AND STRUCTURAL DRAWINGS.

FIRE PUMP SCHEDULE

ITEM	DESCRIPTION	TYPE	GPM	PSI	H.P. MIN.	VOLT/ PHASE	MAX. RPM	MANUFACTURER AND MODEL
FP-1	FIRE PUMP	IN-LINE VERTICAL SINGLE STAGE	500	60	20	208/3	3600	PATTERSON #5X3 VIP
JP-1	JOCKEY PUMP	VERTICAL MULTI-STAGE	5	70	0.5	208/3	3450	GRUNDFOS #CR1-19033646-T

NOTES:
1. FIRE PUMP CONTROLLER WITH ATS AND SOFTSTART: FIRETROL MODEL #FTA-1930
2. JOCKEY PUMP CONTROLLER: FIRETROL MODEL #FTA-550F
3. PROVIDE FIRE PUMP SYSTEM COMPLETE WITH PUMP, DRIVER, CONTROLLER AND ACCESSORIES.
4. FIRE PUMP SHALL DELIVER NOT LESS THAN 150% OF RATED FLOW AT A PRESSURE NOT LESS THAN 65% OF RATED PRESSURE. SHUT OFF PRESSURE SHALL NOT EXCEED 140% OF RATED PRESSURE.
5. EXPECTED SUCTION PRESSURE IS 20 PSIG.
6. PROVIDE 6"X5" EXCENTRIC TAPERED SUCTION REDUCER AND 3"X6" CONCENTRIC TAPERED DISCHARGE INCREASER.
7. PROVIDE 6" FIRE PUMP BYPASS COMPLETE WITH LISTED CHECK VALVE.
8. PROVIDE 4" HOSE VALVE TEST HEADER SUPPLY (UNLESS PIPE LENGTH EXCEEDS 15', VERIFY IN FIELD AND INCREASE PIPE SIZE IN ACCORDANCE WITH NFPA 20).
9. PROVIDE WALL-MOUNTED HOSE VALVE TEST HEADER WITH A MINIMUM OF (2) 2-1/2" HOSE VALVES, NST THREAD, COMPLETE WITH CAPS AND CHAINS.
10. PROVIDED SYSTEM PIPING TO A FIRE DEPARMENT CONNECTION COMPLETE WITH LISTED CHECK VALVE & APPROVED AUTOMATIC DRAIN VALVE, IN ACCORDANCE WITH NFPA AND LOCAL AHJ REQUIREMENTS.

COMPRESSED AIR EQUIPMENT SCHEDULE

EQUIPMENT	DESCRIPTION
HR-1 HOSE REEL	GRACO XD 30 SERIES SPRING RETRACTABLE HOSE REEL ASSEMBLY WITH ADJUSTABLE ARM, HOSE, BALL STOP KIT AND ROLLER GUIDE. PART NO. HSLC8#. HOSE LENGTH 75 FT, INLET SIZE 1/2"Ø. PROVIDE QUICK CONNECT AND HOSE INLET KIT. COORDINATE HOSE REEL COLOR AND ACCESSORIES WITH ARCHITECT, OWNER, AND OTHER DISCIPLINES. INSTALL AS PER MANUFACTURERS GUIDELINES AND REQUIREMENTS. REFER TO HOSE REEL DETAIL.
AIR DROP	REFER TO AIR OUTLET / DROP PLUMBING DETAIL AND PROJECT SPECIFICATIONS.

EMERALD MEP
TX FIRM No. F-24826
PROJECT No. 25018

PROFESSIONAL SEAL



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DESIGN TEAM

Architectural
Martinez Architects

Civil
Hill Country Civil

Landscape
Evergreen Landscape Group

Structural
Matrix Structural

MEP
Emerald MEP

Technology
Imagine IT

Alerting
WestNET

STATION #42
Hays County ESD #4
Wimberley, TX 78676

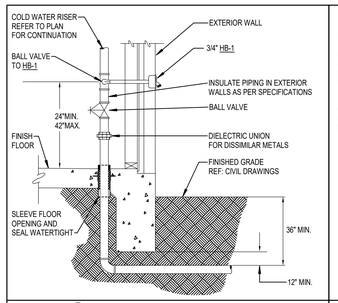
PROJECT No: MA 25016
DATE: 20-OCT-2026

ISSUE #

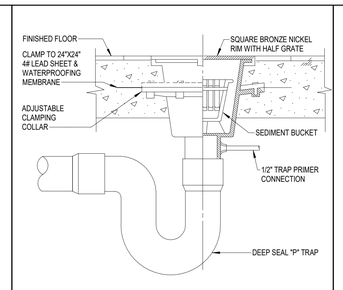
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50% CD	23-FEB-2026
75% CD	06-APR-2026
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IFP	01-JUN-2026
IFB	20-OCT-2026

PLUMBING SCHEDULES AND NOTES

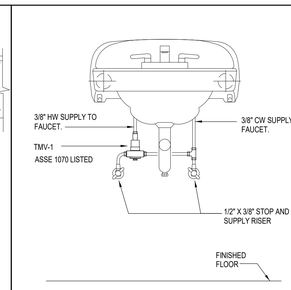
P-501



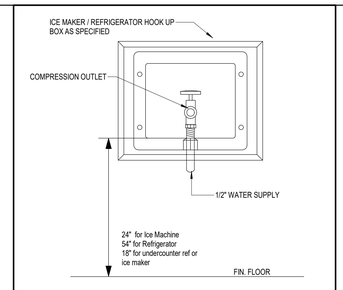
1 DOMESTIC WATER PIPE ENTRY DETAIL
NOT TO SCALE



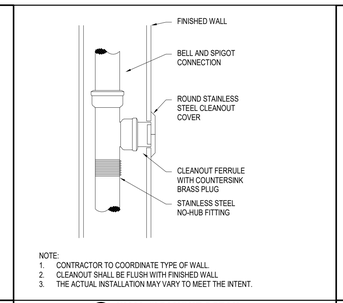
2 FLOOR SINK DRAIN DETAIL
NOT TO SCALE



3 TMV-1 INSTALLATION DETAIL
NOT TO SCALE

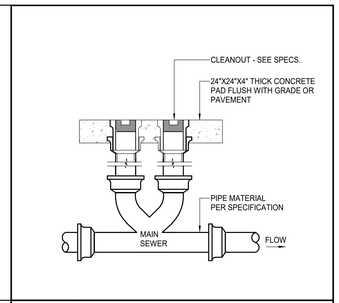


4 WALL BOX DETAIL (WB-1)
NOT TO SCALE

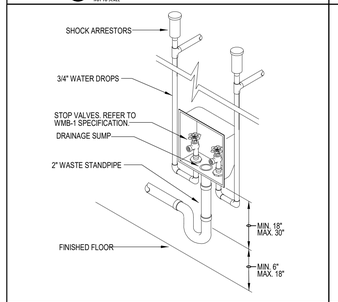


NOTE:
1. CONTRACTOR TO COORDINATE TYPE OF WALL.
2. CLEANOUT SHALL BE FLUSH WITH FINISHED WALL
3. THE ACTUAL INSTALLATION MAY VARY TO MEET THE INTENT.

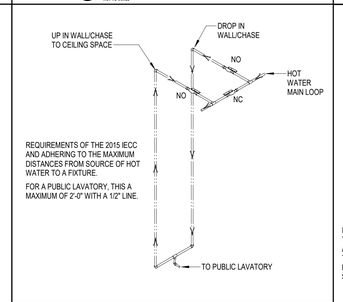
5 WALL CLEANOUT DETAIL
NOT TO SCALE



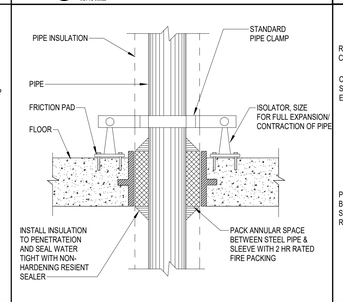
6 TWO-WAY EXTERIOR CLEANOUT (TWCO)
NOT TO SCALE



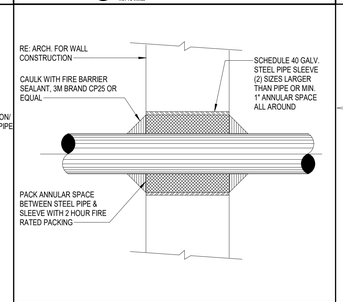
7 WASHING MACHINE BOX (WMB-1)
NOT TO SCALE



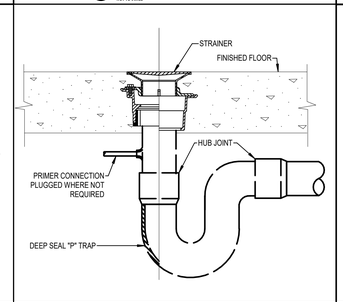
8 HOT WATER LOOP DETAIL W/BYPASS
NOT TO SCALE



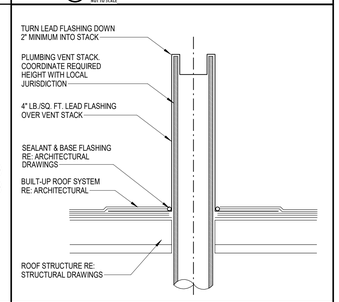
9 FIRE RATED FLOOR PENETRATION
NOT TO SCALE



10 FIRE WALL PIPE PENETRATION
NOT TO SCALE

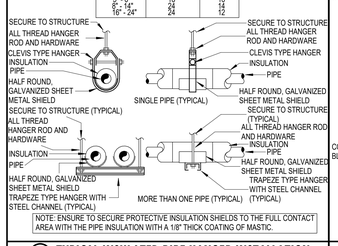


11 FLOOR DRAIN DETAIL
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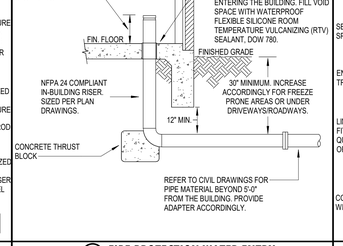
12 VENT THRU ROOF (VTR)
NOT TO SCALE

MINIMUM PIPE SHIELD DIMENSIONS AT INSULATED PIPE		
NOMINAL SIZE PIPE	SHIELD LENGTH MIN. (IN.)	GAUGE THICKNESS
1/4" - 3-1/2"	12	18
4"	16	18
5" - 6"	16	16
8" - 14"	24	14
16" - 24"	24	12

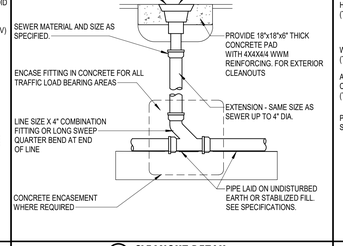


NOTE: ENSURE TO SECURE PROTECTIVE INSULATION SHIELDS TO THE FULL CONTACT AREA WITH THE PIPE INSULATION WITH A 1/8" THICK COATING OF MASTIC.

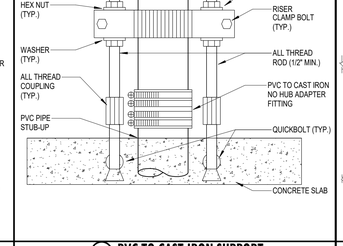
13 TYPICAL INSULATED PIPE HANGER INSTALLATION
NOT TO SCALE



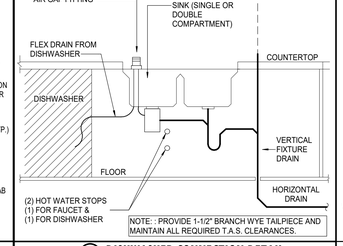
14 FIRE PROTECTION WATER ENTRY
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15 CLEANOUT DETAIL
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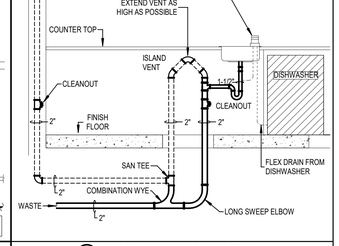


16 PVC TO CAST IRON SUPPORT
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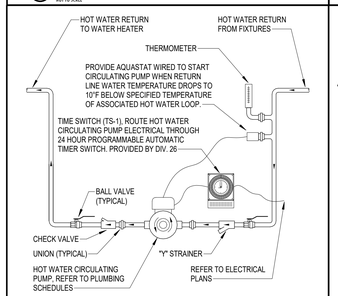


NOTE: : PROVIDE 1-1/2" BRANCH WYE TAILPIECE AND MAINTAIN ALL REQUIRED T.A.S. CLEARANCES.

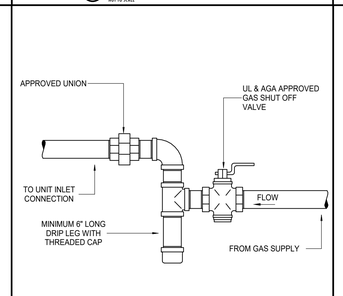
17 DISHWASHER CONNECTION DETAIL
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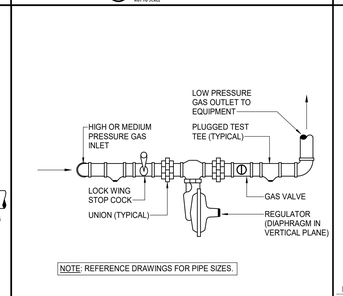
18 ISLAND SINK VENTING DETAIL
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20 HOT WATER CIRCULATING PUMP DETAIL
NOT TO SCALE

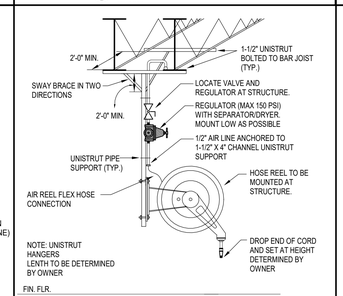


21 GAS CONNECTION TO EQUIPMENT
NOT TO SCALE

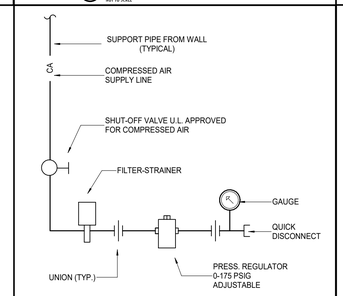


NOTE: REFERENCE DRAWINGS FOR PIPE SIZES.

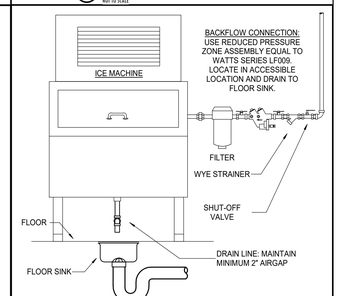
22 GAS PRESSURE REGULATOR PIPING
NOT TO SCALE



23 HOSE REEL DETAIL
NOT TO SCALE



24 AIR OUTLET / DROP DETAIL
NOT TO SCALE



19 ICE MACHINE CONNECTION
NOT TO SCALE

EMERALD MEP
TX FIRM No. F-24826
PROJECT No. 25018

PROFESSIONAL SEAL

STATE OF TEXAS
M. JACQUELINE CHANG
124987
LICENSED
PROFESSIONAL ENGINEER
2026-10-20

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Houston, Texas 77339
281.346.7371

DESIGN TEAM

Architectural
Martinez Architects

Civil
Hill Country Civil

Landscape
Evergreen Landscape Group

Structural
Matrix Structural

MEP
Emerald MEP

Technology
Imagine IT

Alerting
WestNET

STATION #42
Hays County ESD #4
Wimberley, TX 78676

PROJECT No: **MA 25016**
DATE: **20-OCT-2026**

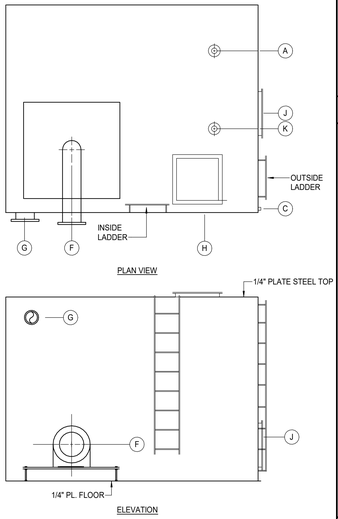
ISSUE

100% DD	06-JAN-2026
50% CD	23-FEB-2026
75% CD	06-APR-2026
98% CD	04-MAY-2026
IFP	01-JUN-2026
IFB	20-OCT-2026

PLUMBING DETAILS

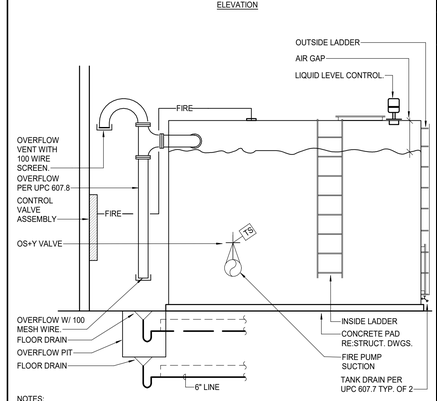
P-601

SCHEDULE OF OPENINGS					
MARK	REQ.	SIZE	TYPE	STD	DESCRIPTION
A	1	8"	FFSOF	150#	FIRE FILL LINE CONNECTION
B	1	3"	FFSOF	150#	MANUAL FILL
C	1	2"	H.CPLG	3000#	DRAIN
D	-	-"	-	-	
E	-	-"	-	-	
F	1	6"	FFSOF	150#	FIRE PUMP SUCTION
G	1	4"	FFSOF	150#	OVERFLOW-FIRE
H	1	30"x30"	FAB	-	MANWAY-TOP
J	1	30"x30"	FAB	-	MANWAY-SIDE
K	2	1.5"	FAB	PVC	ELECTRODE FLANGE



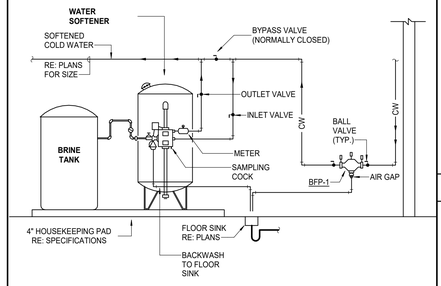
PLAN VIEW

ELEVATION



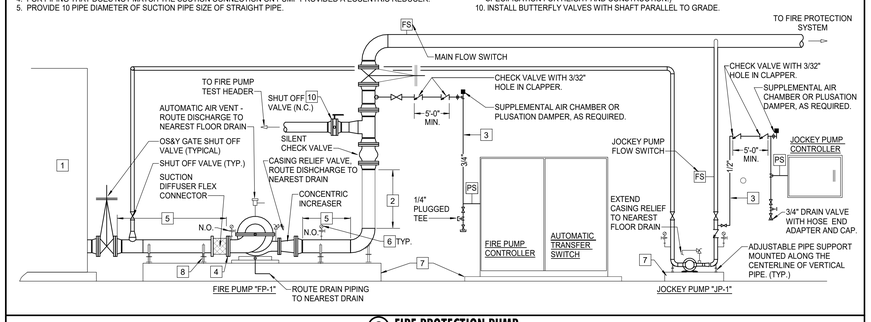
NOTES:
1. SURGE TANK LEVEL ALARM PANEL INSIDE PUMP HOUSE.
2. FILL VALVE CONTROL ASSEMBLY INSIDE PUMP HOUSE. REFER TO DETAIL IN THIS SHEET.
3. TANK SHALL BE EQUIPPED WITH TIGHT VERMIN-PROOF COVERS.
4. FINAL SIZES TO BE DETERMINED BY FIRE PROTECTION ENGINEER.

1 FIRE PROTECTION SURGE TANK
NOT TO SCALE

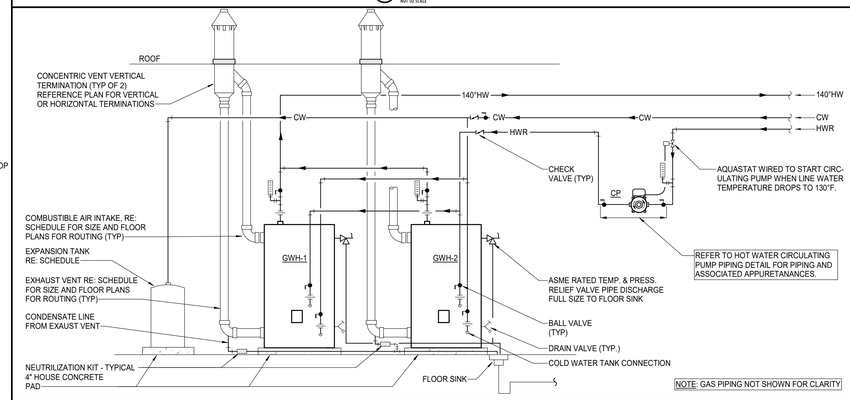


4 WATER SOFTENING SYSTEM (WS-1)
NOT TO SCALE

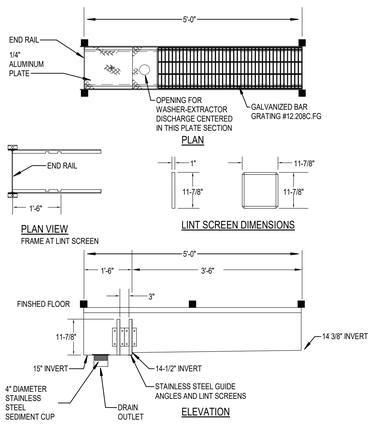
KEYED NOTES:
1. COMBINATION FIRE/DOMESTIC WATER BREAK TANK PROVIDED BY THE DIVISION 22 CONTRACTOR
2. MINIMUM FOUR (4) DIAMETERS.
3. SENSING PIPING AND FITTINGS FROM CONTROLLERS TO FIRE PROTECTION PIPING SHALL BE COPPER OR STAINLESS STEEL.
4. FOR PIPING THAT DOES NOT MATCH THE SUCTION CONNECTION ON PUMP PROVIDED A ECCENTRIC REDUCER.
5. PROVIDE 10 PIPE DIAMETER OF SUCTION PIPE SIZE OF STRAIGHT PIPE.
6. GUAGE AND GUAGE COCK.
7. CONCRETE PAD (RE: SPECIFICATION FOR CONSTRUCTION AND HEIGHT)
8. ADJUSTABLE PIPE SADDLE SUPPORT.
9. MOUNT JOCKEY PUMP ON RUBBER IN SHEAR ON ISOLATION PADS ON CONCRETE PAD (RE: SPECIFICATION FOR HEIGHT AND CONSTRUCTION.)
10. INSTALL BUTTERFLY VALVES WITH SHAFT PARALLEL TO GRADE.



2 FIRE PROTECTION PUMP
NOT TO SCALE



3 GAS WATER HEATER PIPING
NOT TO SCALE

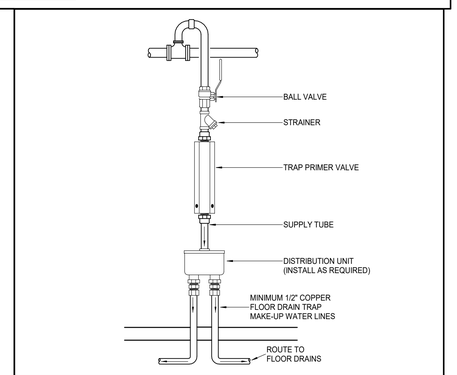


NOTE:

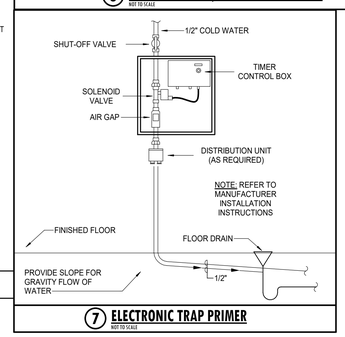
WASHING MACHINE TRENCH DRAIN / LINT TROUGH, 12" CAST IN PLACE WITH PRE-SLOPED EPS FORMERS, GALVANIZED FRAME AND BAR GRATES, STAINLESS STEEL ANGLE AND FILTER SCREENS. SYSTEM IS BASED ON AN OVERALL 5'-0" LONG TRENCH (MINIMUM). LENGTH MAY EXCEED THIS AND ADJUSTMENTS MUST BE MADE AS REQUIRED. REFER TO PLUMBING PLANS AND SCHEDULES AND MANUFACTURER PRODUCT DATA.

ABT, INC. (SYSTEM ID SERIES): TS12-12-208C-FG-F21G

5 COMM. WASHER TRENCH DRAIN (TD-1)
NOT TO SCALE



6 TRAP PRIMER W/ DISTRIBUTION UNIT
NOT TO SCALE

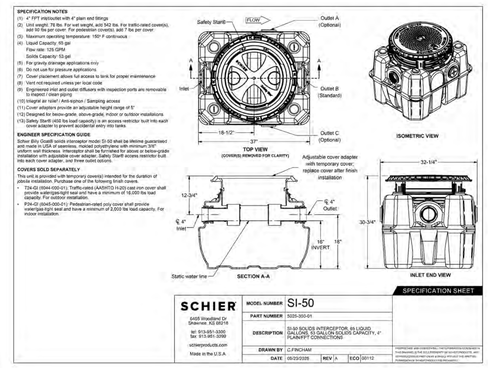


7 ELECTRONIC TRAP PRIMER
NOT TO SCALE

SPECIFICATION NOTES
(1) 4" FPT inlet/outlet with 4" plain end fittings
(2) Unit weight: 78 lbs. For wet weight, add 542 lbs. For traffic-rated cover(s), add 50 lbs per cover. For pedestrian cover(s), add 7 lbs per cover.
(3) Maximum operating temperature: 140° F continuous
(4) Liquid Capacity: 75 gal
Grease Capacity: 35 gal
Solids Capacity: 53 gal
(5) For gravity drainage applications only
(6) Do not use for pressure applications
(7) Cover placement allows full access to tank for proper maintenance
(8) Vent not required unless per local code
(9) Engineered inlet and outlet diffusers with inspection ports are removable to inspect / clean piping
(10) Integral air relief / Anti-siphon / Sampling access
(11) Cover adapters provide an adjustable height range of 5"
(12) Designed for below-grade, above-grade, indoor or outdoor installations
(13) Safety Sta(r)t (ATT) fire load capacity is an access restrictor built into each cover adapter to prevent accidental entry into tanks.

ENGINEER SPECIFICATION GUIDE
Schier (Poly Cast) solids interceptor model SI-50 shall be lifetime guaranteed and made of 4,000 psi reinforced concrete/polymer with minimum 3/8" uniform wall thickness. Interceptor shall be furnished for above or below-grade installation with adjustable cover adapter, Safety Sta(r)t access restrictor built into each cover adapter, and three nadell adjoints.

COVERS SOLD SEPARATELY
This unit is provided with temporary cover(s) intended for the duration of above installation. Purchase one of the following finish covers.
- T24-DI (1004-030-01): Traffic-rated (AASHTO H-20) cast iron cover shall provide watertight-tight seal and have a minimum of 16,000 lbs load capacity. For outdoor installation.
- P24-DI (1004-030-01): Pedestrian-rated poly cover shall provide watertight-tight seal and have a minimum of 2,500 lbs load capacity. For indoor installation.



SCHIER
6455 Woodland Dr
Shawnee, KS 66218
tel: 913-851-5500
fax: 913-851-3399
schierproducts.com
Made in the U.S.A.

SPECIFICATION SHEET

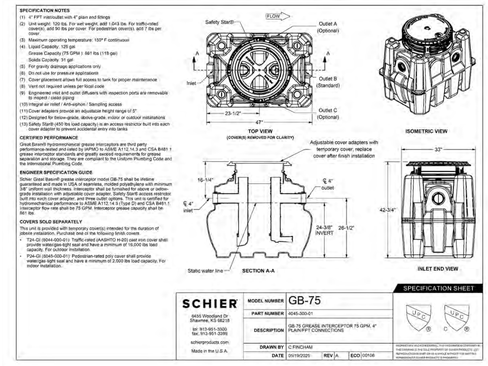
MODEL NUMBER	SI-50
PART NUMBER	5020-300-01
DESCRIPTION	SI-50 SOLIDS INTERCEPTOR, 26 LIQUID GALLONS, 75 GALLON SOLIDS CAPACITY, 4" PLAN/FPT CONNECTIONS
DRAWN BY	C.FINCHAM
DATE	09/23/2020
REV	A
ECO	00113

SPECIFICATION NOTES
(1) 4" FPT inlet/outlet with 4" plain end fittings
(2) Unit weight: 109 lbs. For wet weight, add 1,643 lbs. For traffic-rated cover(s), add 50 lbs per cover. For pedestrian cover(s), add 7 lbs per cover.
(3) Maximum operating temperature: 140° F continuous
(4) Liquid Capacity: 125 gal
Grease Capacity (75 GPM): 661 lbs (119 gal)
Solids Cocpacity: 91 gal
(5) For gravity drainage applications only
(6) Do not use for pressure applications
(7) Cover placement allows full access to tank for proper maintenance
(8) Vent not required unless per local code
(9) Engineered inlet and outlet diffusers with inspection ports are removable to inspect / clean piping
(10) Integral air relief / Anti-siphon / Sampling access
(11) Cover adapters provide an adjustable height range of 5"
(12) Designed for below-grade, above-grade, indoor or outdoor installations
(13) Safety Sta(r)t (ATT) fire load capacity is an access restrictor built into each cover adapter to prevent accidental entry into tanks.

CERTIFIED PERFORMANCE
Great Basin® hydromechanical grease interceptors are third party certified to conform to ASME A112.14.3 (Type 1) and CSA B481.1 (Type 2) unless otherwise stated. They are designed to meet requirements for primary separation and storage. They are compliant to the Uniform Plumbing Code and the International Plumbing Code.

ENGINEER SPECIFICATION GUIDE
Schier (Poly Cast) solids interceptor model GB-75 shall be lifetime guaranteed and made of 4,000 psi reinforced concrete/polymer with minimum 3/8" uniform wall thickness. Interceptor shall be furnished for above or below-grade installation with adjustable cover adapter, Safety Sta(r)t access restrictor built into each cover adapter, and three nadell adjoints. The unit is certified for hydromechanical performance to ASME A112.14.6 (Type 2) and CSA B481.1. Interceptor flow rate shall be 75 GPM. Interceptor grease capacity shall be 661 lbs.

COVERS SOLD SEPARATELY
This unit is provided with temporary cover(s) intended for the duration of above installation. Purchase one of the following finish covers.
- T24-DI (0044-000-01): Traffic-rated (AASHTO H-20) cast iron cover shall provide watertight-tight seal and have a minimum of 16,000 lbs load capacity. For outdoor installation.
- P24-DI (0045-000-01): Pedestrian-rated poly cover shall provide watertight-tight seal and have a minimum of 2,500 lbs load capacity. For indoor installation.



SCHIER
6455 Woodland Dr
Shawnee, KS 66218
tel: 913-851-5500
fax: 913-851-3399
schierproducts.com
Made in the U.S.A.

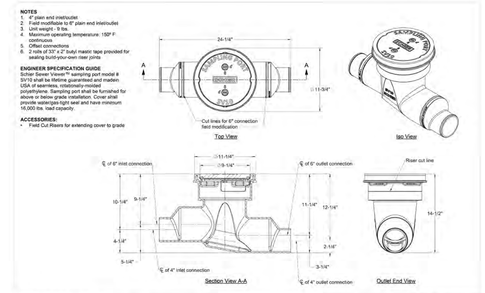
SPECIFICATION SHEET

MODEL NUMBER	GB-75
PART NUMBER	4045-300-01
DESCRIPTION	GB-75 GREASE INTERCEPTOR 75 GPM, 4" PLAN/FPT CONNECTIONS
DRAWN BY	C.FINCHAM
DATE	01/19/2021
REV	A
ECO	00106

NOTES
1. 4" plain end inlet/outlet
2. Field modifiable to 6" plain end inlet/outlet
3. Unit weight - 9 lbs.
4. Maximum operating temperature: 150° F continuous
5. Offset connections
6. 2 rolls of 33' x 2" butyl mastic tape provided for sealing build-your-own riser joints

ENGINEER SPECIFICATION GUIDE
Schier Sewer Viewer™ sampling port model # SV10 shall be lifetime guaranteed and madein USA of seamless, rotationally-molded polyethylene. Sampling port shall be furnished for above or below-grade installation. Shall also provide watertight seal and have minimum 16,000 lbs. load capacity.

ACCESSORIES:
- Fixed Cut Risers for extending cover to grade



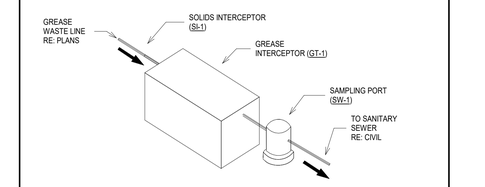
SPECIFICATION SHEET

MODEL NUMBER:	SV10
PART NUMBER:	8065-001-01
DESCRIPTION:	SV10 SEWER VIEWER SAMPLING PORT, 4" CONNECTIONS (FIELD MODIFIABLE TO 6"), POLYETHELENE COVER
DWG BY:	B.BROWN
DATE:	6/6/2022
REV:	-
ECO:	-

SCHIER
6455 Woodland Dr
Shawnee, KS 66218
Tel: 913-851-5500
Fax: 913-851-3399
schierproducts.com

GREASE INTERCEPTOR CALCULATION HYDROMECHANICAL INTERCEPTOR SIZING USING GRAVITY FLOW RATES				
FIXTURE	DIMENSIONS	QTY	CU IN	FLOW RATE
SINK (SK-1)	33" X 22" X 09"	1	6,534	11 GPM
SINK (SK-2)	33" X 22" X 06"	1	4,356	10 GPM
DISHWASHER	5 GALLON	2	2,310	5 GPM
ICE MACHINE	N/A	1	N/A	0.5 GPM
			TOTAL	27 GPM

FIXTURE FLOW RATE: (CU IN / 231) = GAL X 0.75 / 2 MIN = 2 MIN FLOW RATE



8 HYDROMECHANICAL GREASE INTERCEPTOR
NOT TO SCALE

EMERALD MEP
TX FIRM No. F-24826
PROJECT No. 25018

PROFESSIONAL SEAL

STATE OF TEXAS
M. JACQUELINE CHANG
124987
LICENSED
PROFESSIONAL ENGINEER
2026-10-20

LOGO/CONTACT

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Houston, Texas 77339
281.346.7371

DESIGN TEAM

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Hays County ESD #4
Wimberley, TX 78676

PROJECT No: **MA 25016**
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IFB	20-OCT-2026

PLUMBING DETAILS

P-602