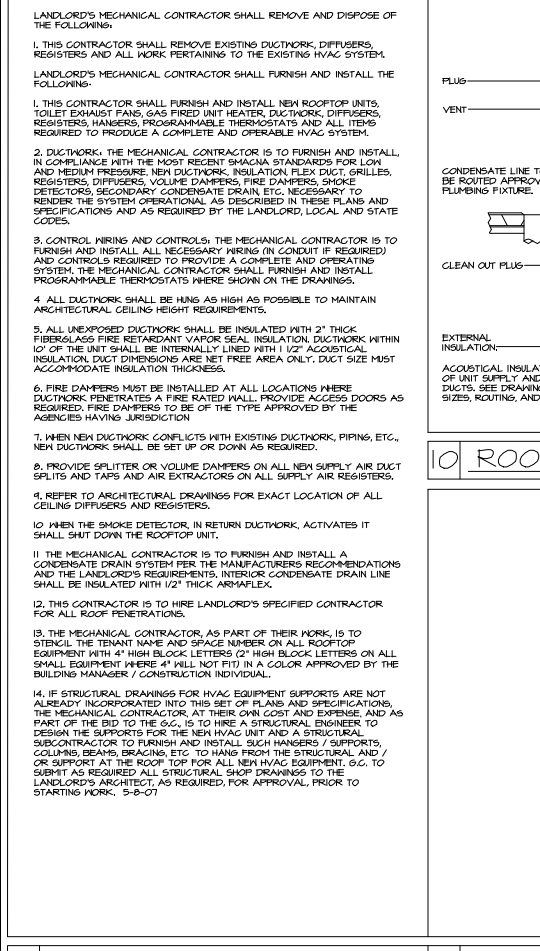
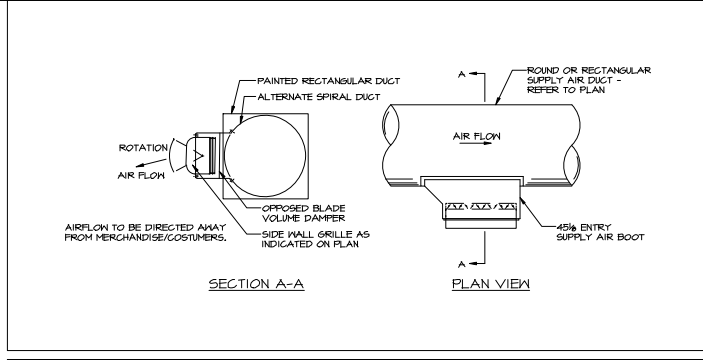


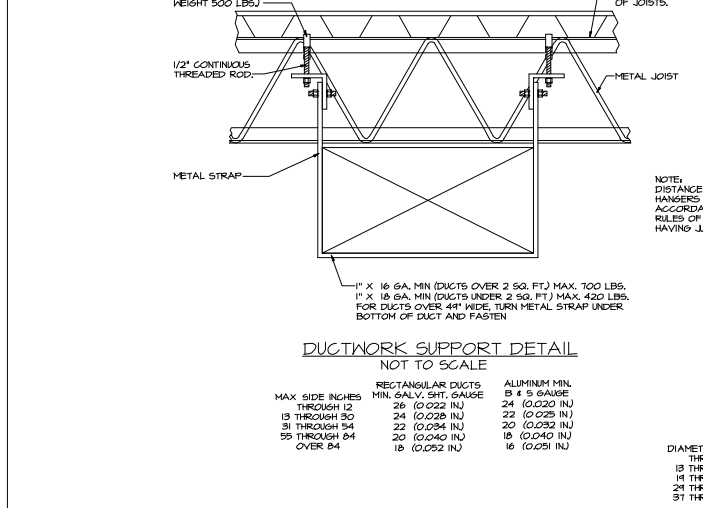
8 DUCT MOUNTED SUPPLY AIR GRILLE DETAIL



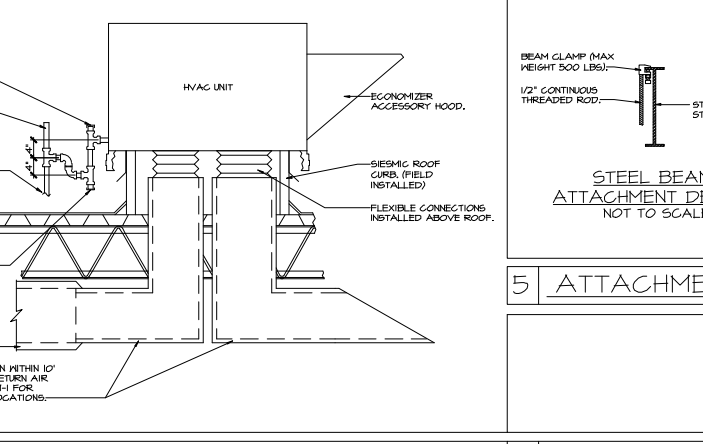
12 CONCENTRIC DIFFUSER DETAIL



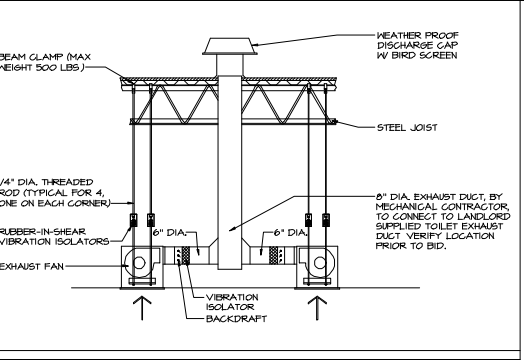
6 TOILET EXHAUST DETAIL



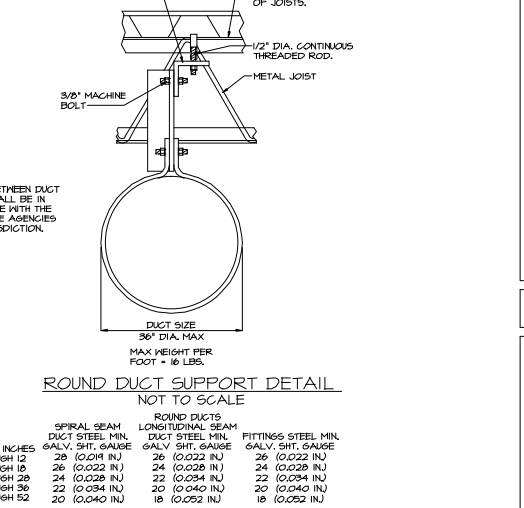
7 DUCT SUPPORT DETAIL



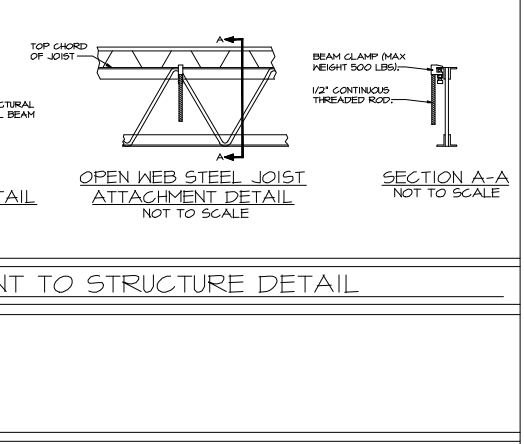
10 ROOFTOP UNIT DETAIL



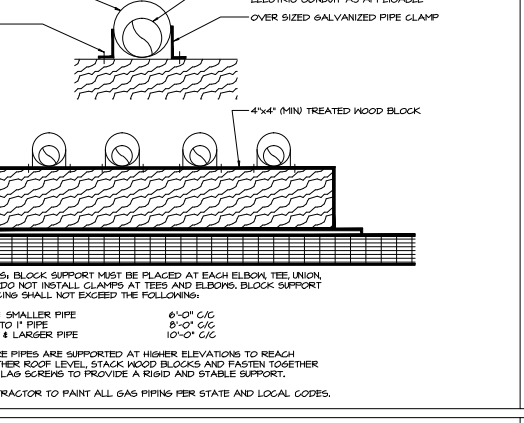
TOILET EXHAUST DETAIL



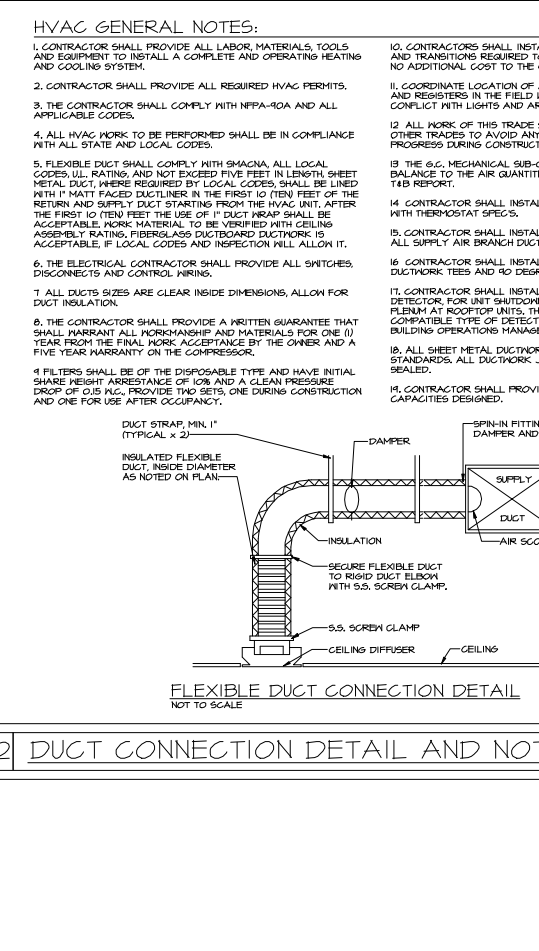
ROUND DUCT SUPPORT DETAIL



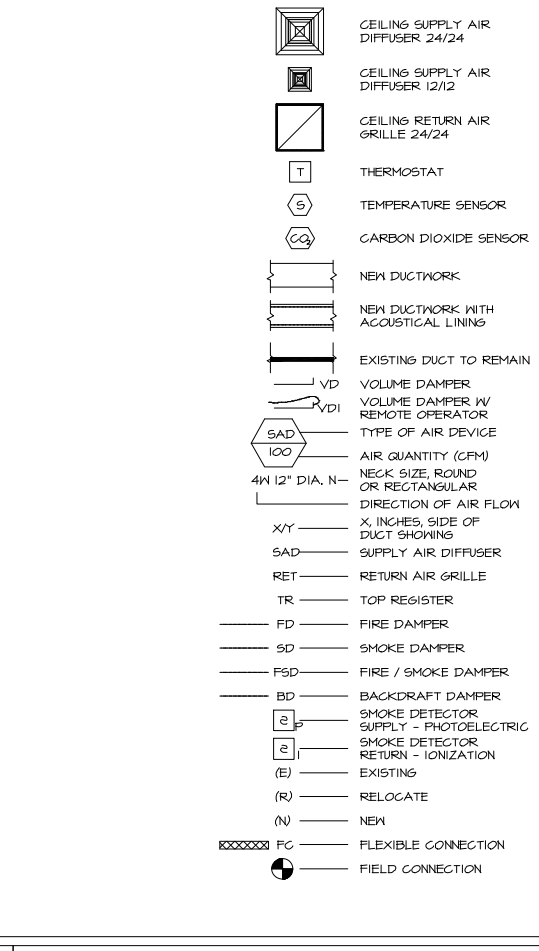
5 ATTACHMENT TO STRUCTURE DETAIL



4 NOT USED



FLEXIBLE DUCT CONNECTION DETAIL



11 MECHANICAL LEGEND

HVAC GENERAL NOTES:

- CONTRACTOR SHALL PROVIDE ALL LABOR, MATERIALS, TOOLS AND EQUIPMENT TO INSTALL A COMPLETE AND OPERATING HEATING AND COOLING SYSTEM.
- CONTRACTOR SHALL PROVIDE ALL REQUIRED HVAC PERMITS.
- CONTRACTOR SHALL COMPLY WITH NFPA-90A AND ALL APPLICABLE CODES.
- ALL HVAC WORK TO BE PERFORMED SHALL BE IN COMPLIANCE WITH ALL STATE AND LOCAL CODES.
- FLEXIBLE DUCT SHALL COMPLY WITH SMACNA, ALL LOCAL CODES, U.L. RATINGS, AND NOT EXCEED FIVE FEET IN LENGTH SHEET METAL DUCT, WHERE REQUIRED BY LOCAL CODES, SHALL BE LINED WITH 1" HAIR FACED DUCTLINES IN THE FIRST 10' (TEN) FEET OF THE RETURN AND SUPPLY DUCT STARTING FROM THE HVAC UNIT. AFTER THE FIRST 10' (TEN) FEET THE USE OF 1" DUCT WRAP SHALL BE ACCEPTABLE. WORK MATERIAL TO BE VERIFIED WITH CEILING ASSEMBLY RATING, FIBERGLASS DUCTBOARD DUCTWORK IS ACCEPTABLE IF LOCAL CODES AND INSPECTION WILL ALLOW IT.
- THE ELECTRICAL CONTRACTOR SHALL PROVIDE ALL SWITCHES, DISCONNECTS AND CONTROL WIRING.
- ALL DUCTS SIZES ARE CLEAR INSIDE DIMENSIONS, ALLOW FOR DUCT INSULATION.
- THE CONTRACTOR SHALL PROVIDE A WRITTEN GUARANTEE THAT SHALL WARRANT ALL WORKMANSHIP AND MATERIALS FOR ONE (1) YEAR FROM THE FINAL WORK ACCEPTANCE BY THE OWNER AND A FIVE YEAR WARRANTY ON THE COMPRESSOR.
- ALL FILTERS SHALL BE OF THE DISPOSABLE TYPE AND HAVE INITIAL SHARE HEIGHT ADJUSTMENT OF 100" AND A CLEAN PRESSURE DROP OF 0.5 IN. W.C. PROVIDE TWO SETS, ONE DURING CONSTRUCTION AND ONE FOR USE AFTER OCCUPANCY.
- CONTRACTORS SHALL INSTALL ALL NECESSARY OFFSETS, BENDS AND TRANSITIONS REQUIRED TO PROVIDE A COMPLETE SYSTEM AT NO ADDITIONAL COST TO THE OWNER.
- COORDINATE LOCATION OF ALL CEILING DIFFUSERS, GRILLES AND REGISTERS IN THE FIELD WITH THE ELECTRICIAN TO PREVENT CONFLICT WITH LIGHTS AND ARCHITECTURAL ELEMENTS.
- ALL WORK OF THIS TRADE SHALL BE COORDINATED WITH ALL OTHER TRADES TO AVOID ANY INTERFERENCES THAT MAY DELAY PROGRESS DURING CONSTRUCTION.
- THE M.E. MECHANICAL SUB-CONTRACTOR SHALL TEST AND BALANCE TO THE AIR QUANTITIES ON THE PLAN AND PROVIDE A TAB REPORT.
- CONTRACTOR SHALL INSTALL THERMOSTAT IN ACCORDANCE WITH THERMOSTAT SPEC'S.
- CONTRACTOR SHALL INSTALL MANUAL BALANCING DAMPERS AT ALL SUPPLY AIR BRANCH DUCTWORK RUN OUTS.
- CONTRACTOR SHALL INSTALL TURNING VANES AT ALL DUCTWORK TEES AND 45 DEGREE ELBOWS.
- CONTRACTOR SHALL INSTALL A DUCT-TYPE MOUNTED SMOKE DETECTOR FOR UNIT OUTDOOR IN THE RETURN AIR DUCTWORK. FLENUM AT ROOFTOP UNITS. THE CONTRACTOR SHALL VERIFY THE COMPATIBLE TYPE OF DETECTION DEVICE TO USE WITH THE BUILDING OPERATIONS MANAGER.
- ALL SHEET METAL DUCTWORK SHALL COMPLY WITH SMACNA STANDARDS. ALL DUCTWORK JOINTS SHALL BE TAPED AND SEALED.
- CONTRACTOR SHALL PROVIDE EQUIPMENT OF THE SCHEDULED CAPACITIES DESIGNED.

2 DUCT CONNECTION DETAIL AND NOTES

rooms design group
 2225 E. Southland Mall, Suite 300
 Arlington, Texas 76010
 817-433-4141
 1117-433-4141
 www.roomsdesign.com

CONSULTANTS

DR DANIEL A. REEVES, P.E.
 2225 E. Southland Mall, Suite 300
 Arlington, TX 76010
 (817) 791-4000
 914 (917) 791-4100
 Texas Professional Exp. 977408

SEAL

DANIEL A. REEVES
 LICENSED PROFESSIONAL ENGINEER
 ROOMS DESIGN GROUP
 F-4235

DATE ISSUE

DATE	REVISION	CITY/CUST. COMMENTS
10/13/17		

PROJECT NAME / LOCATION

fivobelow
 ARBOR PARK SHOPPING CENTER
 17700 SAN PEDRO AVE., SUITE 702A
 SAN ANTONIO, TX 78232

PROJECT INFORMATION

DATE: 09-07-17
 PROJECT NO. 170128
 DELIVERY TYPE: V-BOX
 DRAWN BY: JC
 CHECKED BY: DAR

SHEET TITLE / NUMBER

MECHANICAL DETAILS AND SCHEDULES

M2.0