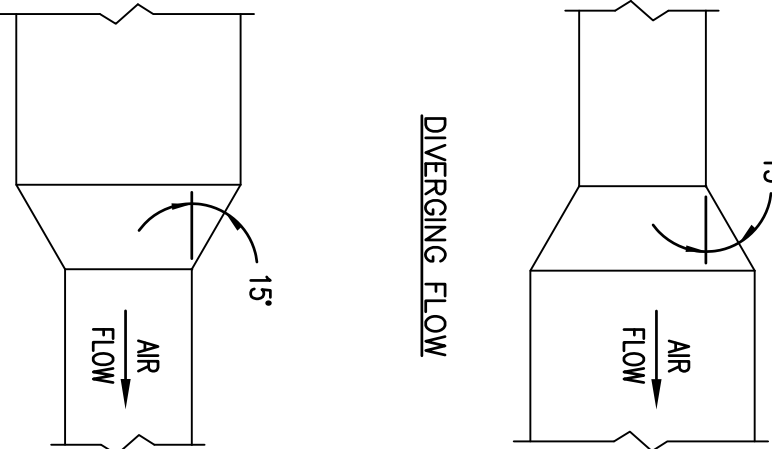


MECHANICAL GENERAL NOTES:

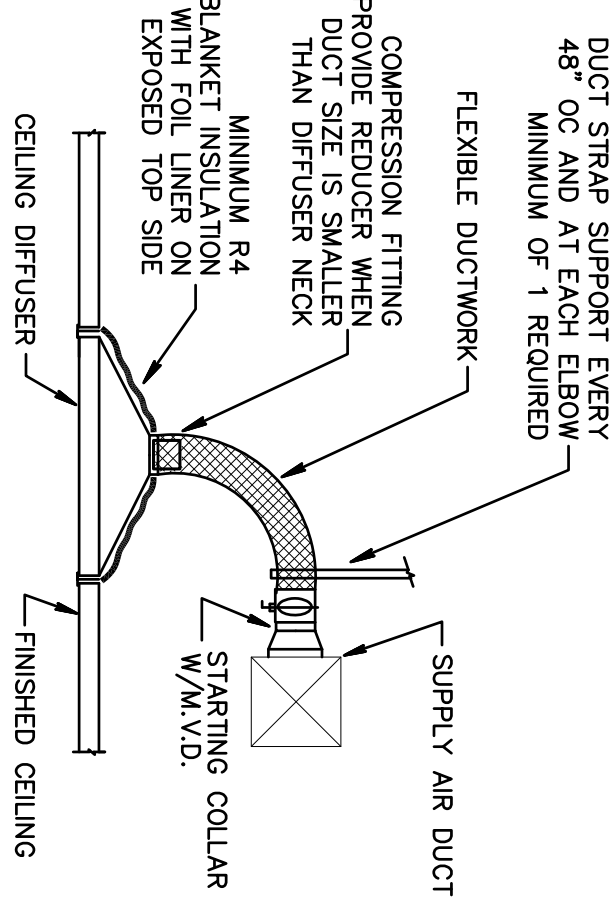
- THESE DRAWINGS ARE DIAGRAMMATIC. ALL OFFSETS, FITTINGS, TRANSITIONS AND ACCESSORIES SHALL BE SHOWN AND THE CONTRACTOR SHALL PROVIDE THE BID ITEMS REQUIRED TO PROVIDE COMPLETE AND OPERATIONAL SYSTEM. DO NOT SCALE DRAWINGS FOR INSTALLATION.
- ALL WORK SHALL BE PERFORMED IN A FIRST CLASS WORKMANLIKE MANNER BY LICENSED CONTRACTORS.
- THE CONTRACTOR SHALL OBTAIN AT HIS EXPENSE ALL NECESSARY FEES, PERMITS, AND TESTS.
- ALL WORK SHALL CONFORM TO ALL APPLICABLE LOCAL, STATE AND NATIONAL CODES. NO CONTRACTOR SHALL BID UNLESS FAMILIAR WITH THESE CODES.
- CORRECTION OF DEFECTS TO THIS WORK SHALL BE MADE PROMPTLY WITHOUT DELAY TO THE OWNER. REPAIRS SHALL BE MADE PROMPTLY AND TO THE OWNER. THIS CONTRACTOR SHALL BE MADE PROMPTLY WITHOUT CHARGE TO THE OWNER.
- ALL WORK OF THIS TRADE SHALL BE COORDINATED WITH ALL OTHER TRADES TO AVOID ANY INTERFERENCES THAT MAY DELAY PROGRESS OF CONSTRUCTION.
- THE CONTRACTOR SHALL INCLUDE THE WORK OF ALL REQUIRED SUB-CONTRACTORS, SUCH AS ELECTRICAL, INSULATING, TEST & BALANCE, ETC., AS REQUIRED FOR A COMPLETE AND OPERATIONAL SYSTEM.
- EQUIPMENTS SHALL BEAR A U.L. OR OTHER RECOGNIZED LABEL.
- THE CONTRACTOR SHALL INSTALL ALL EQUIPMENT AND ACCESSORIES TO BE READY ACCESSIBLE FOR SERVICING, TESTING, BALANCING, AND REPLACEMENT.
- THE CONTRACTOR SHALL PROVIDE A WRITTEN GUARANTEE AGAINST DEFECTS WITH FOUR ADDITIONAL YEARS OF WARRANTY ON COMPRESSORS.
- THE CONTRACTOR SHALL PROVIDE THREE COPIES OF SUBMITTAL DATA, SHOP DRAWINGS, AND AT COMPLETION OF THE PROJECT TWO SETS OF OPERATION AND MAINTENANCE MANUALS FOR ALL PROJECT ITEMS.
- PROVIDE ALL CONTROLS, STARTERS, CONTROL WIRING, DISCONNECTS, AND OTHER ELECTRICAL EQUIPMENT AS REQUIRED FOR A COMPLETE AND OPERATIONAL SYSTEM.
- THE HVAC CONTRACTOR IS RESPONSIBLE FOR MAINTAINING, ON SITE, A DETAILED AS-BUILT PLAN SHOWING ACTUAL INSTALLATIONS. THE CONTRACTOR IS TO PROVIDE A NEATLY DRAWN COMPREHENSIVE AS-BUILT SET OF PLANS AT COMPLETION WHICH ARE SUITABLE FOR SUBMISSION TO THE BUILDING DEPARTMENT AND TO THE OWNER.
- PRIOR TO ACCEPTANCE BY THE OWNER THE SYSTEMS SHALL BE TESTED AND BALANCED BY THE CONTRACTOR. PROVIDE A WRITTEN REPORT.
- SUPPLY AND INSTAL DUCT MOUNTED SMOKE DETECTORS AS REQUIRED.
- COORDINATE LOCATION OF CEILING DIFFUSERS, GRILLES AND REGISTERS IN THE FIELD WITH LIGHTS AND ARCHITECTURAL ELEMENTS.
- ALL GRILLES TO BE TITUS OR METALLARE UNLESS OTHERWISE NOTED. SIZES AS SHOWN ON PLANS. ALUMINIUM CONSTRUCTION.
- ALL DUCT WORK SHALL BE BUILT AND INSTALLED IN ACCORDANCE WITH SMACNA STANDARDS AND LOCAL BUILDING CODES.
- ALL DUCT SIZES ARE CLEAR INSIDE DIMENSIONS.
- ALL OUTSIDE AIR DUCTWORK SHALL BE SHEETMETAL WITH EXTERIOR R-6 INSULATION. PROVIDE BLANKET TYPE INSULATION IN CONCEALED SPACES, AND BOARD TYPE IN EXPOSED AREAS.
- ALL EXHAUST AIR DUCT SHALL BE GALVANIZED SHEET METAL CONSTRUCTED AND INSTALLED IN ACCORDANCE WITH ASHRAE AND SMACNA STANDARDS.
- FLEXIBLE DUCT, WHERE SHOWN, SHALL BE U.L. CLASS 1, R-6 INSULATION.
- LOW PRESSURE SUPPLY AND RETURN RECTANGULAR DUCTWORK IS RIGID DUCTBOARD, 1 IN. THICK, R-4.2 INSULATION.
- PROVIDE ELBOW TURNING VANES IN ALL RECTANGULAR DUCTS WHERE TURNS ARE GREATER THAN 45 DEGREES.
- PROVIDE BACKDRAFT DAMPERS FOR ALL EXHAUST FANS.
- VERIFY ALL THERMOSTAT LOCATIONS WITH THE LANDLORD.
- CONDENSATE DRAIN PIPING SHALL BE ABOVE GRADE COPPER DRAIN, WASTE AND VENT FITINGS. INSULATE ALL CONDENSATE PIPING W/3/4" MCMA MCLOCK PIPE INSULATION.

GENERAL DEMOLITION NOTES

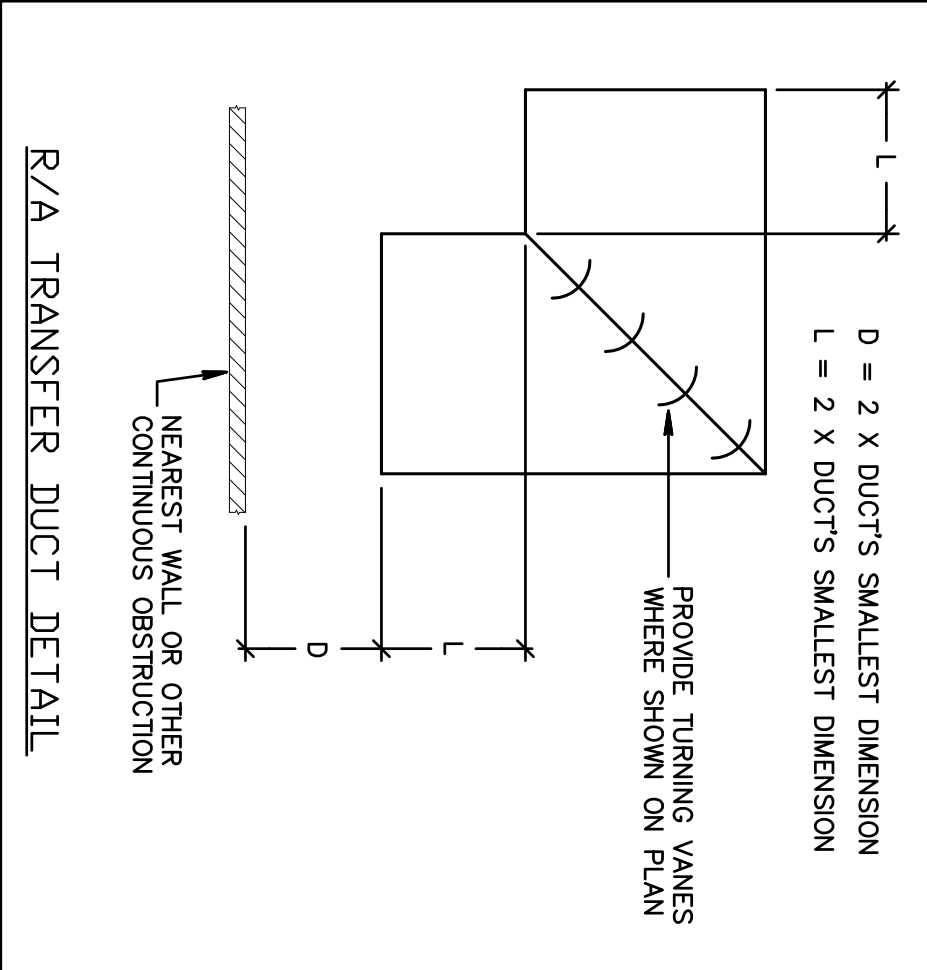
- UNLESS OTHERWISE NOTED, ALL EQUIPMENT AND DUCTWORK IN THE PROJECT AREA WHICH IS NOT INDICATED TO REMAIN, IS TO BE REMOVED. THE CONTRACTOR SHALL INVESTIGATE THE PROJECT AREA PRIOR TO BID TO DETERMINE ALL REQUIRED DEMOLITION.
- EXISTING CONDITIONS SHOWN ON THIS DRAWING ARE TAKEN FROM ORIGINAL DRAWINGS AND FIELD INVESTIGATION. ALL EXISTING CONDITIONS MUST BE VERIFIED PRIOR TO BID. FIELD CONDITIONS SHALL GOVERN.
- DEMOLITION WORK IS NOT SPECIFICALLY IDENTIFIED ON THESE PLANS, AND MAY BE DESCRIBED ON THE ARCHITECT'S PLANS. THE CONTRACTOR IS RESPONSIBLE FOR ALL REQUIRED DEMOLITION WHETHER SHOWN ON THE PLANS OR NOT.
- ALL MECHANICAL SYSTEMS SERVING OTHER SPACES OR FLOORS, THAT RUN THROUGH THE PROJECT AREA SHALL REMAIN ACTIVE DURING CONSTRUCTION, SO AS NOT TO CAUSE ANY DISRUPTION TO THESE OTHER SPACES.
- ALL ITEMS REMOVED UNDER THIS PROJECT SHALL BE DISPOSED OF OR TURNED OVER TO THE OWNER AT THE OWNER'S DISCRETION.
- PROPERLY REMOVE AND DISPOSE OF ALL HVAC DUCTWORK AND AIR DISTRIBUTION DEVICES WHICH ARE TO BE REMOVED. CONSULT WITH OWNER AND OBTAIN THE OWNER'S APPROVAL PRIOR TO DISPOSAL OF REMOVED MATERIAL.
- IT IS THE CONTRACTOR'S RESPONSIBILITY TO ENSURE THAT ALL PIPING AND DUCTS, NEW OR EXISTING, WITHIN THE PROJECT AREA, ARE PROPERLY SUPPORTED.
- ALL OCCUPIED SPACES ARE TO REMAIN OPERATIONAL DURING BUSINESS HOURS THROUGHOUT THE DEMOLITION AND CONSTRUCTION PERIOD. COORDINATE ALL WORK AS DESCRIBED IN THE ARCHITECT'S DOCUMENTS.



DUCT TRANSITIONS



CEILING DIFFUSER DETAIL



AIR DISTRIBUTION SCHEDULE

| MARK | MAKE | MODEL | SIZE | NECK | MATERIAL | BORDER TYPE | MOUNTING TYPE | DAMPER | THROW |
|------|-------|--------|-------|-------|----------|-------------|---------------|--------|-------|
| A | TITUS | PAS-AA | 24X24 | 6" | ALUMINUM | | LAV-IN | AG-100 | 4 WAY |
| A1 | TITUS | PAS-AA | 24X24 | 6" | ALUMINUM | | SURFACE | AG-100 | 1 WAY |
| B | TITUS | PAS-AA | 24X24 | 8" | ALUMINUM | | LAV-IN | AG-100 | 4 WAY |
| C | TITUS | PAS-AA | 24X24 | 10" | ALUMINUM | | LAV-IN | AG-100 | 4 WAY |
| RA | TITUS | PAR-AA | 24X24 | 22X22 | ALUMINUM | | LAV-IN | - | - |

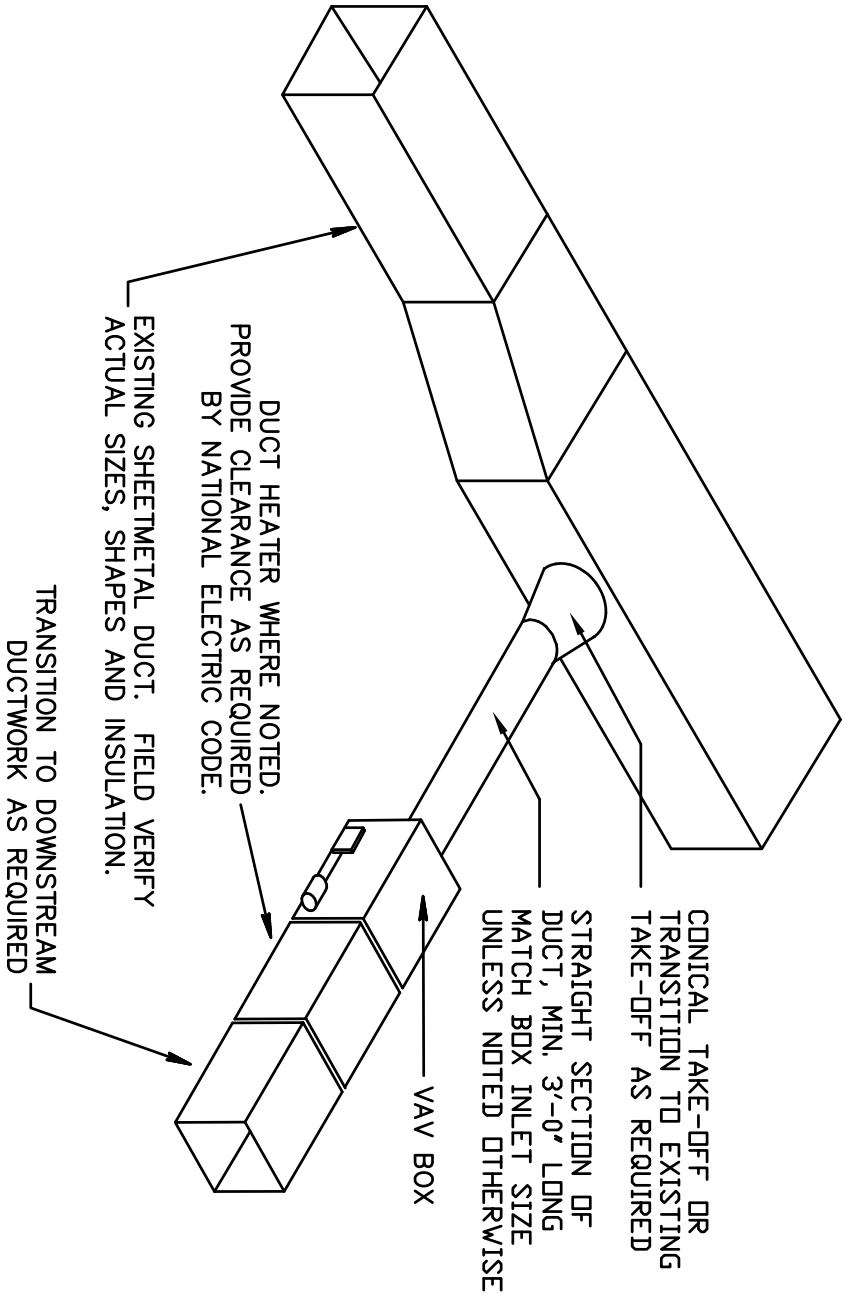
PROVIDE OFF-WHITE FINISH AND SUBMITTALS TO ARCHITECT FOR APPROVAL.
PROVIDE ROUND FLEXIBLE DUCT RUN-OUT SIZED TO MATCH S/A DIFFUSER NECK UNLESS NOTED OTHERWISE.
PROVIDE PLENUM BOX ABOVE SUPPLY AND RETURN AIR GRILLES AS REQUIRED FOR DUCT CONNECTIONS.
PROVIDE DAMPERS ONLY WHERE DAMPER IS NOT ACCESSIBLE AT DUCT TAKE-OFF ABOVE CEILING.

VAV SCHEDULE

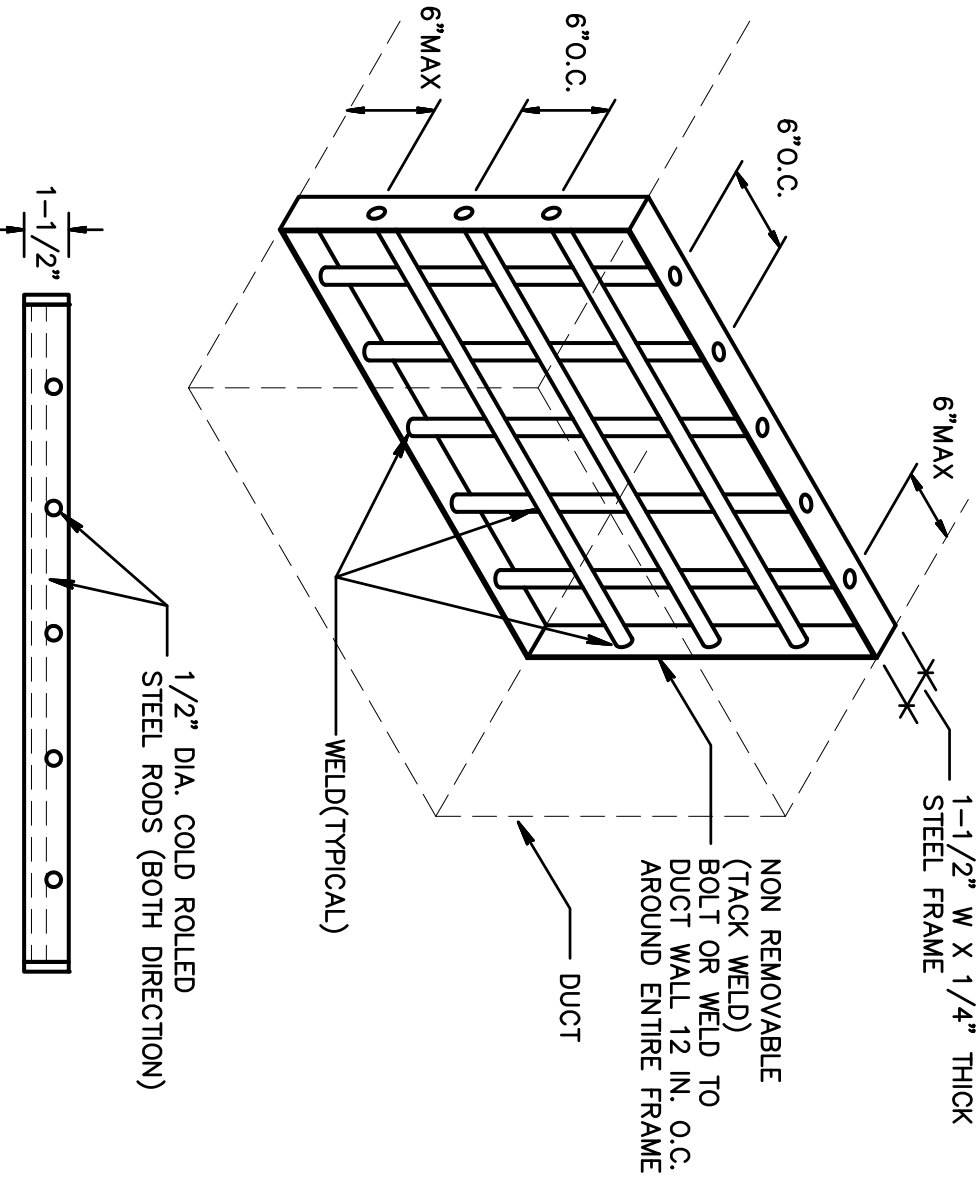
| MARK | MANUF. | MODEL NO. | INLET SIZE | GFM MAX | GFM MIN | KW | HEAT STEP | VOLT-PH-HZ | REMARKS |
|------|---------|-----------|------------|---------|---------|-----|-----------|------------|----------------|
| V1 | CARRIER | 35E | 8" | 500 | 200 | 2.0 | 1 | 277-1-60 | NOTES 1 THRU 6 |
| V2 | CARRIER | 35E | 10" | 1200 | 400 | 4.0 | 1 | 277-1-60 | NOTES 1 THRU 6 |
| V3 | CARRIER | 35E | 8" | 600 | 250 | - | - | 277-1-60 | NOTES 1 THRU 5 |
| | | | | | | | | | |

- PROVIDE ROOM TEMPERATURE SENSOR WITH EXTERNAL SET POINT ADJUSTMENT.
- PROVIDE FACTORY MOUNTED DDC CONTROLLER AND CONTROL POWER TRANSFORMER AS REQUIRED.
- WITH DUTILET CONFIGURATION AS REQUIRED, COORDINATED BY CONTRACTOR.
- TRANSITION FROM INLET & OUTLET SIZE TO DUCT SIZES AS SHOWN ON FLOOR PLANS. IF NOT OTHERWISE INDICATED, INLET DUCT SIZE IS TO MATCH BOX INLET.
- WITH OPTIONAL 1/2" THICK FOIL FACED INSULATION.
- FACTORY HEATER WITH COMPLETE CONTROLS, MERCURY CONTACTORS, INTERLOCKING DDDR SWITCH, U.L. LISTED AND LABELED.

SEE HVAC CONTROLS NOTE FOR ADDITIONAL INFORMATION

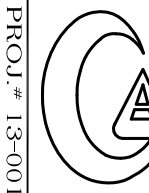


TYPICAL VAV BOX DETAIL



SECURITY BARRIER DETAIL

Gilman & Associates, Inc.
MECHANICAL & ELECTRICAL ENGINEERS
507 NORTH H LAKESIDE DRIVE
Lake Worth, FL 33460 C.A.*009078
(561) 582-0210 Fax (561) 582-8212
RONALD D. GILMAN P.E. *37933



PROJ. # 13-001

birse design inc.

5300 woodland lakes drive
palm beach gardens, fl 33418
phone 561-249-4001
fax 772-409-8684
AA26001615

Bd

COURT CASUAL

FOUNTAIN SQUARE
2600 N MILITARY TRAIL #205
BOCA RATON, FL

PROJECT NUMBER 260015

REVISIONS

| | |
|---|--|
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| 2 | |
| 3 | |
| 4 | |
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DRAWN BY DR

CD

2-4-13

M-2