

HYAC NOTES:

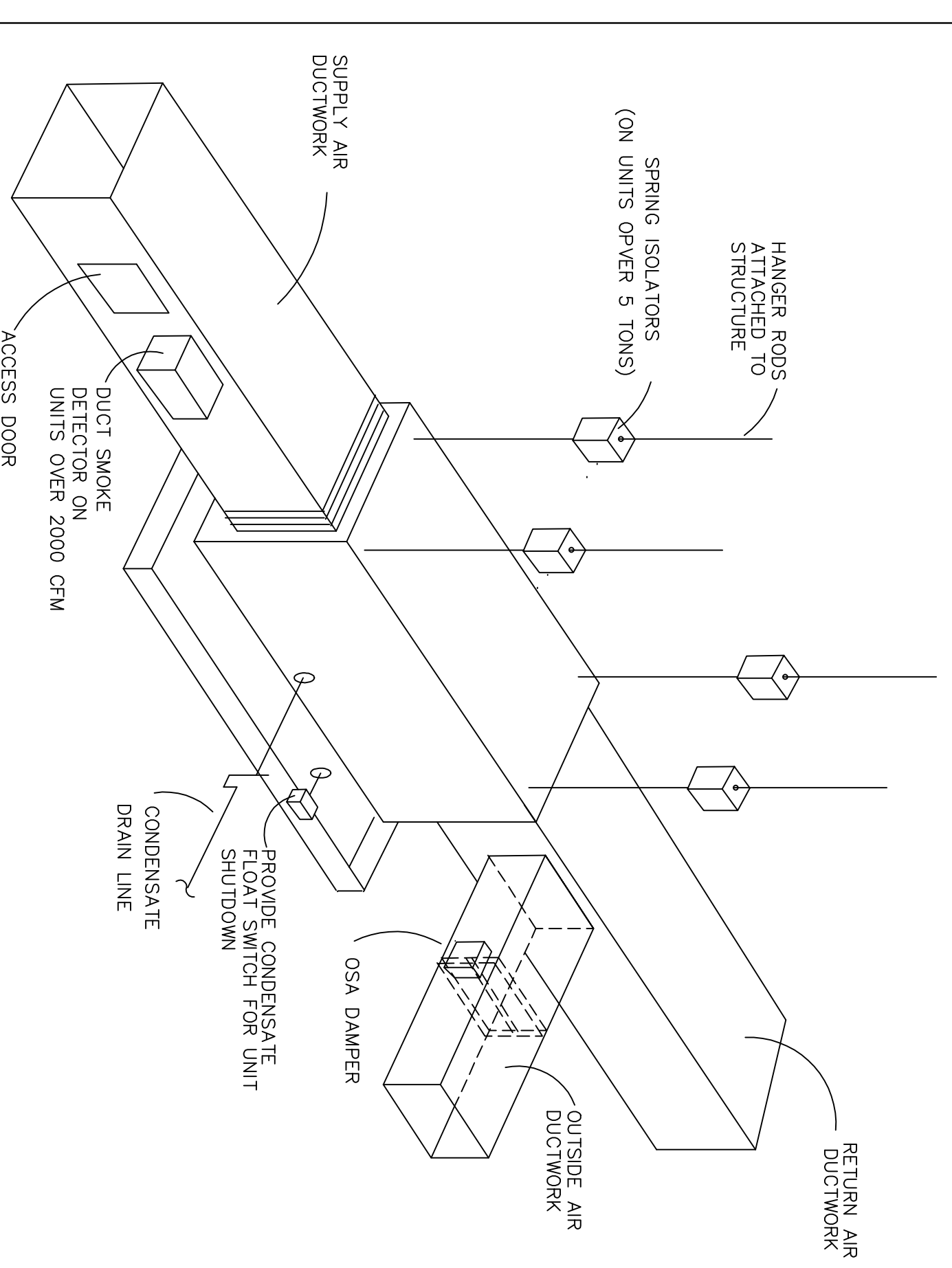
1. ALL MECHANICAL SYSTEMS ARE TO BE INSTALLED IN ACCORDANCE WITH ALL APPLICABLE BUILDING CODES, NFPA STANDARDS, PLANS AND SPECIFICATIONS.
2. THE HVAC CONTRACTOR SHALL VISIT SITE PRIOR TO SUBMITTING BID TO DETERMINE THE CHARACTERISTICS OF THE BUILDING STRUCTURE AND OTHER WORK. THE CONTRACTOR SHALL SUBMIT ANY DECREASES OR CONFLICTS TO THE ARCHITECT IN WRITING PRIOR TO SUBMITTING BID.
3. THE CONTRACTOR SHALL PROVIDE ALL LABOR MATERIALS EQUIPMENT CONTROL SYSTEMS, PERMITS AND SERVICES FOR A COMPLETE AND OPERATIONAL SYSTEM.
4. ALL DUCTWORK SHALL BE FABRICATED AND INSTALLED IN ACCORDANCE WITH THE LATEST EDITION OF SMACNA AND LOCAL CODES.
5. HVAC CONTRACTOR SHALL WARRANT ALL RELATED MATERIALS AND LABOR FOR A PERIOD OF ONE YEAR FROM DATE OF CERTIFICATE OF OCCUPANCY.
6. ALL CUTTING, PATCHING, PAINTING, SEALING, AND STRUCTURAL STEEL SHALL BE BY THE GENERAL CONTRACTOR
7. PROVIDE MANUAL BALANCING DAMPERS AT MAIN TRUNKLINE FOR EACH BRANCH AND FLEX DUCT.
8. ALL SUPPLY AND RETURN DUCTS TO BE R-6 ON TOP FLOORS OF MULTI-STORE BUILDINGS AND SINGLE STORY BUILDINGS. SUPPLY AND RETURN DUCTS TO BE R-4.2 ON LOWER FLOORS OF MULTI-STORE BUILDINGS. ALL OUTSIDE AIR AND EXHAUST DUCTS SHALL BE SHEET METAL. INSULATE OUTSIDE AIR DUCTS WITH DUCT WRAP EQUAL IN R-VALUE TO SUPPLY AND RETURN DUCTS.
9. ALL DUCT SIZES ARE CLEAR INSIDE DIMENSIONS.
10. THE OUTSIDE AIR AND EXHAUST DUCTS INTO EXISTING LOCATIONS PROVIDED BY OTHERS, IF OUTSIDE AIR AND EXHAUST DUCTS ARE NOT EXISTING, PROVIDE NEW INTAKES AND EXHAUST OUTLETS AS REQUIRED. MAINTAIN ALL CODE REQUIRED CLEARANCES. COORDINATE TYPE AND LOCATION OF OUTSIDE AIR INTAKES AND EXHAUST OUTLETS WITH BUILDINGS OWNER IF VENTS ARE TO BE LOCATED ON ROOF. USE OWNER APPROVED ROOFING CONTRACTOR
11. FLEXIBLE DUCT SHALL BE INSTALLED FULLY EXTENDED. THE TOTAL EXTENDED LENGTH OF DUCT MATERIAL SHALL NOT EXCEED 5% OF THE MINIMUM REQUIRED LENGTH FOR THAT RUN. BENDS SHALL MAINTAIN A CENTER LINE RADIUS OF NOT LESS THAN ONE DUCT DIAMETER. HORIZONTAL DUCT SHALL BE SUPPORTED AT INTERVALS NOT GREATER THAN 5 FEET. DUCT 9/16" BETWEEN SUPPORTS SHALL NOT BE ONE HALF FOOT OF INTERMEDIATE FITTINGS AND BENDS. CEILING JOIST AND RIDGID DUCT OR EQUIPMENT MAY BE CONSIDERED TO BE SUPPORTS. HANGERS, SADDLES AND OTHER SUPPORTS SHALL MEET THE DUCT MANUFACTURERS RECOMMENDATIONS AND SHALL BE OF SUFFICIENT WIDTH TO PREVENT RESTRICTION OF THE INTERNAL DUCT DIAMETER. IN NO CASE SHALL THE MATERIAL SUPPORTING THE FLEXIBLE DUCT BE LESS THAN 1/2" IN WIDTH.
12. THESE DRAWINGS ARE GENERAL IN NATURE AND NOT INTENDED TO SHOW EVERY OFFSET, BEND OR FITTING WHICH MAY BE REQUIRED. CONTRACTOR TO PROVIDE ALL NECESSARY FITTINGS REQUIRED TO COMPLETE INSTALLATION AT NO EXTRA COST TO OWNER
13. PROTECT ALL FIRE RATED WALL WITH FIRE STOPPING AND/OR FIRE DAMPERS AS REQUIRED BY CODE.
14. ALL REFRIGERANT AND CONDENSATE PIPING TO HAVE INSULATION EQUAL TO "AERVELOX" WITH FIRE-SMOKE RATING OF 25-50 OR LESS.
15. SMOKE DETECTORS AND WIRING BY FIRE ALARM CONTRACTOR ON BUILDINGS WITH ALARM SYSTEM.
16. ALL REFRIGERANT PIPING TO BE AGR COPPER WITH SILVER SOLDERED JOINTS. VERIFY EXISTING PIPE CHASE LOCATIONS AND ROUTE PIPING THROUGH THOSE LOCATIONS TO OUTSIDE EQUIPMENT LOCATION.
17. PIPE CONDENSATE TO NEAREST DRAIN/DISPOSAL POINT. FIELD VERIFY CONDENSATE RISER LOCATIONS. PROVIDE CONDENSATE PUMP IF PROPER SLOPE OF DRAIN LINES CAN NOT BE ACHIEVED.
18. PROVIDE TEST AND BALANCE. SUBMIT REPORT TO GENERAL CONTRACTOR AT PROJECT CLOSEOUT.

OUTSIDE AIR CALCULATION SCHEDULE

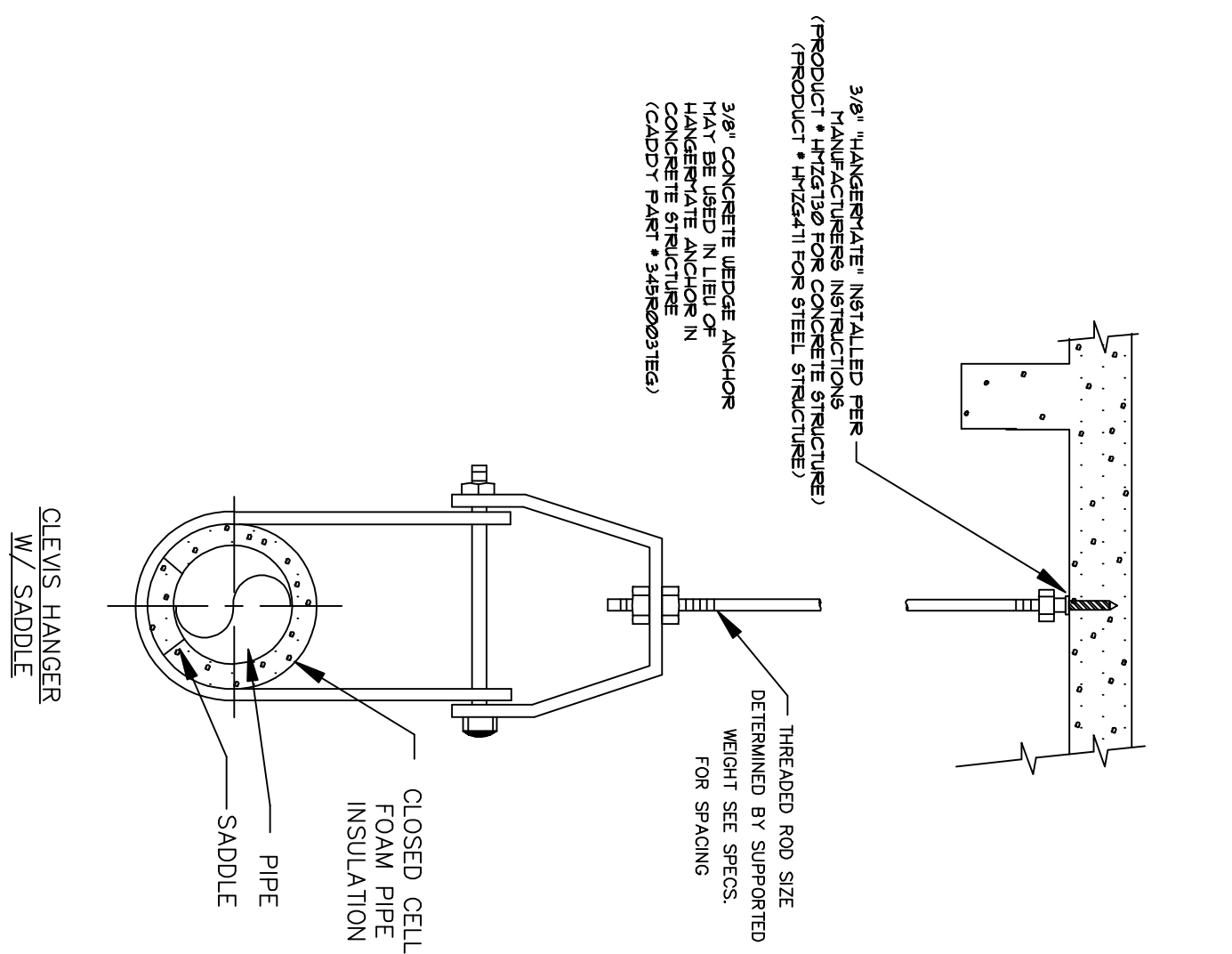
SYSTEM #	AREA SERVED	SQUARE FEET	# OF PEOPLE	CFM REQUIRED	CFM PROVIDED
AHU-2	OFFICE	775	8	110	110

OUTSIDE AIR QUANTITIES BASED ON ASHRAE 62.1 2004 TABLE 6-1

AIR HANDLING UNIT DETAIL



PIPE HANGER DETAIL



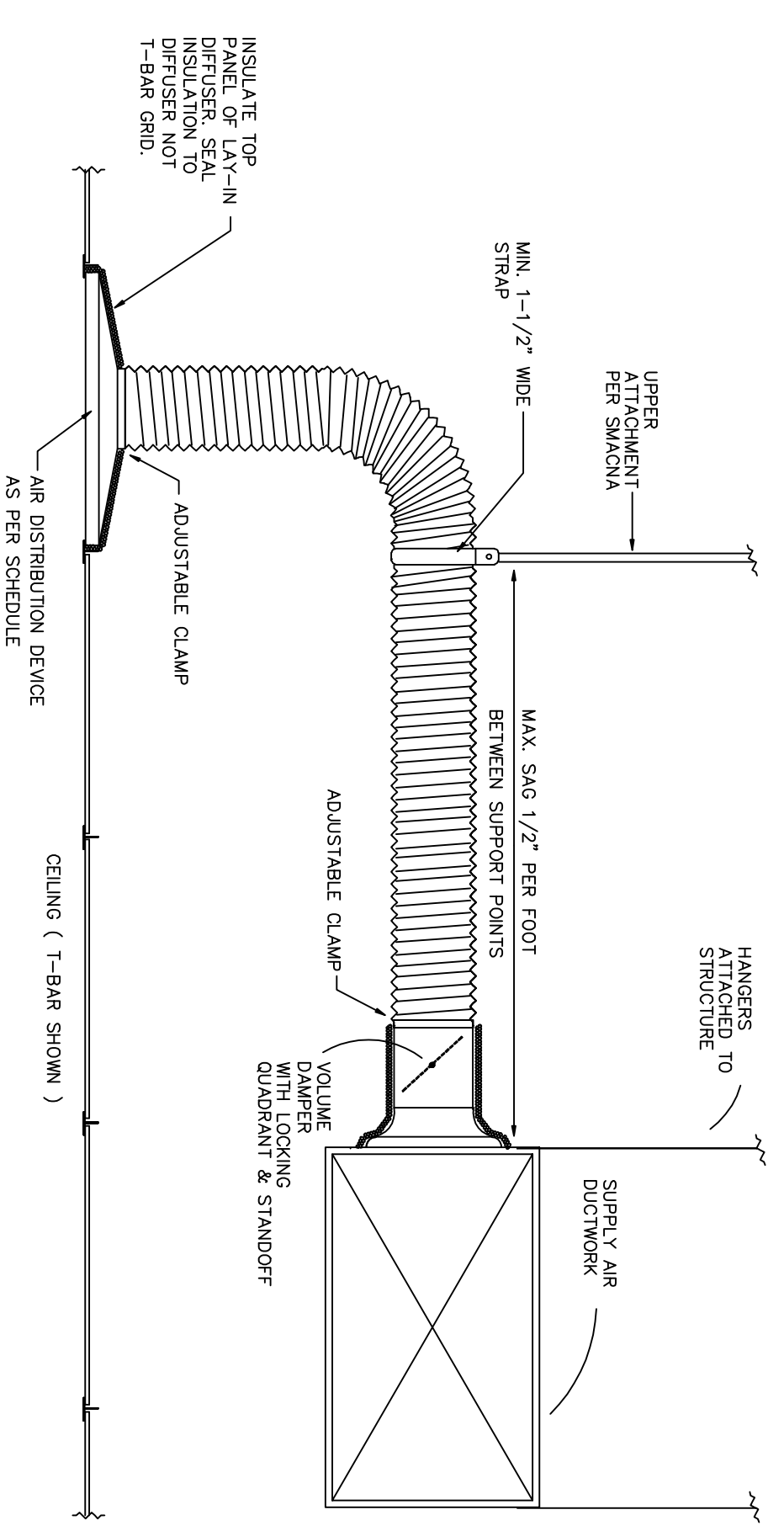
AIR DISTRIBUTION SCHEDULE

PLAN MARK	TYPE	MODEL NO.	SIZE	POINT TYPE	NECK SIZE	NOTES
S-1	TITUS	TD-C-4A	18x18	LAY-IN	SEE PLAN	1345
S-2	TITUS	TD-C-4A	12x12	LAY-IN	SEE PLAN	12345
S-3	TITUS	TD-C-4A	6x6	SURFACE	SEE PLAN	1345
R-1	TITUS	350FL	24x12	LAY-IN	SEE PLAN	1234

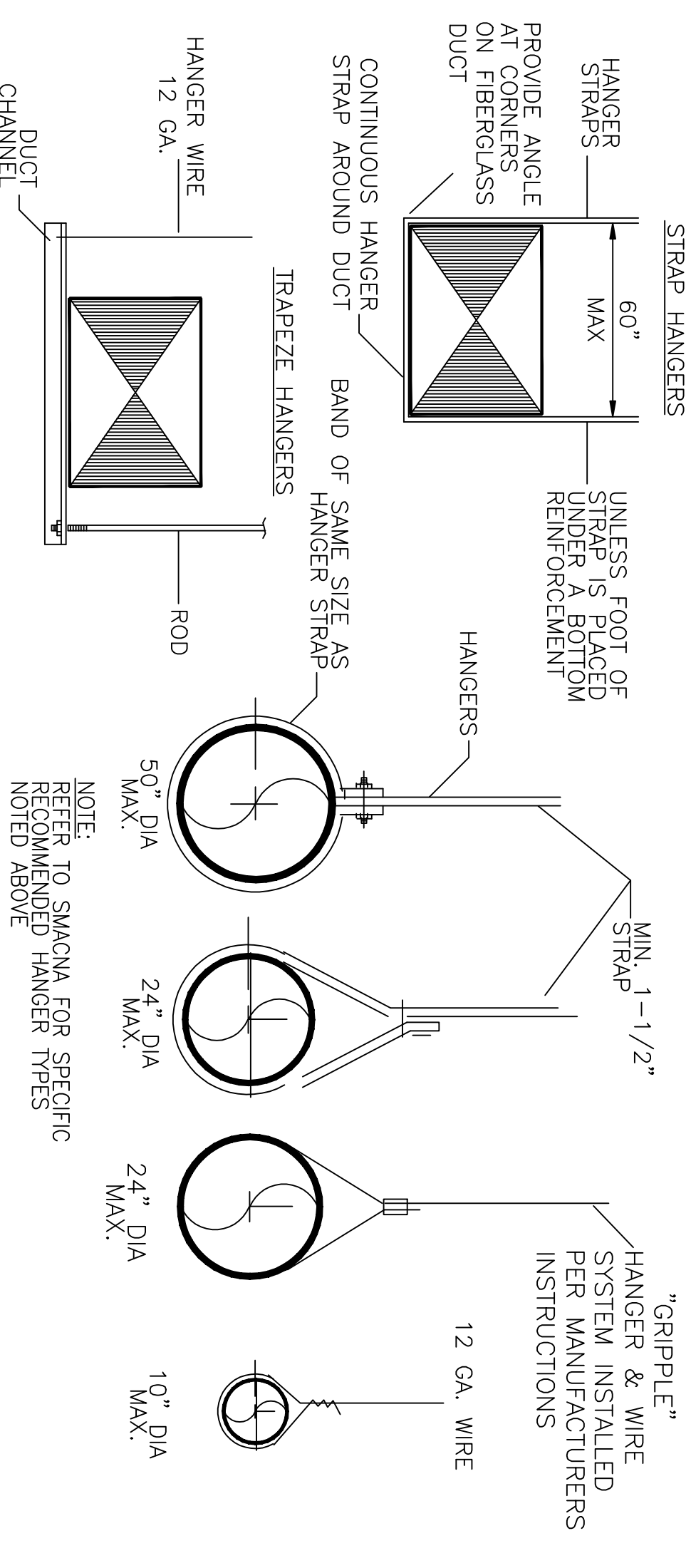
ACCESSORIES/NOTES

- 1) WHITE FINISH
- 2) OPPOSED BLADE DAMPER
- 3) PROVIDE INSULATED BLANKET/CAN
- 4) DESIGN BASIS: TITUS OR APPROVED EQUAL
- 5) PROVIDE TRANSITION FITTING AS REQUIRED
- 6) REFER TO PLAN FOR THROUGH PATTERN OF GRILLE
- 7) PROVIDE INSULATED PLENUM

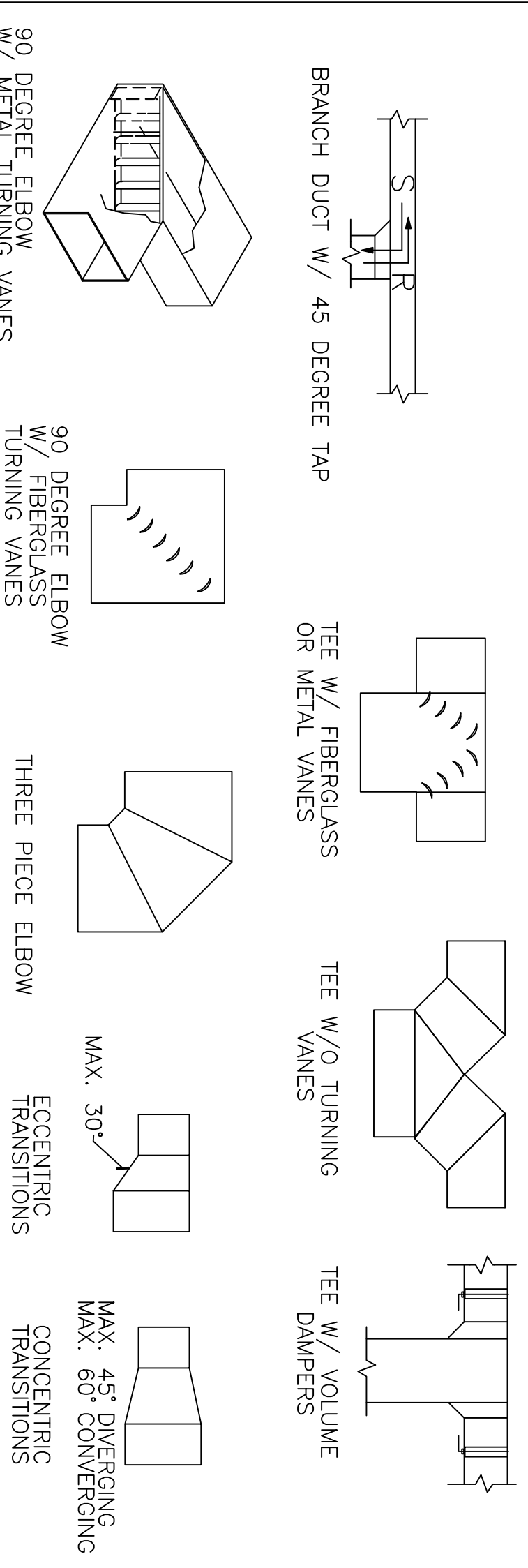
FLEXIBLE DUCT DETAIL



TYPICAL DUCT HANGER SUPPORT DETAIL



DUCT FITTING DETAILS



AIR-CONDITIONING SYSTEM
 HAS BEEN DESIGNED BY
 AN INSTALLING AIR-CONDITIONING
 CONTRACTOR. CERTIFIED UNDER
 CHAPTER 489.

HVAC DESIGN BY:
Altman Brothers, LLC

Air Conditioning Contractors CAC203561
 Design/Build/Service
 P.O. Box 624
 Palm Beach Gardens, Florida

BRIAN ALTMAN, CAC203561
 QUALIFIER FOR ALTMAN BROTHERS, LLC

DATE

THE FOLLOWING CODES WERE USED IN

EXISTING BUILDING PLUMBING
 FIELD DATA MECHANICAL AND TEST PROTOCOLS
 FOR HIGH VOLTAGE FIRE HAZARD ZONES
 2005 NATIONAL ELECTRICAL CODE
 NFPA 70
 2001 FLORIDA FIRE PREVENTION CODE
 (INCLUDING NFPA 1 AND 101 2003 EDITIONS)

PROJECT NAME/LOCATION:

PRIME GROUP INSURANCE

3600 AVENUE OF THE QUADRANTS
 PALM BEACH GARDENS, FL

I (ME) HAVE REVIEWED THESE DRAWINGS, UNDERSTAND THE WORK OUTLINED THEREIN, AND HEREBY APPROVE SAME FOR CONSTRUCTION.

BY:

DATE:

THESE DRAWINGS ARE BASED ON EXISTING DRAWINGS WHEN AVAILABLE. FIELD INSPECTION OF AS BUILT CONDITIONS AND OTHER INFORMATION FROM THE BUILDING OWNER, MANUFACTURERS, ARCHITECTS, ENGINEERS, INSURANCE INVESTIGATOR, GARDNER WHARF DISTRIBUTION INVESTIGATION OUTLINE AND EXISTING SURFACES TO REVEAL STRUCTURE, PIPING, DUCTWORK ARE TO CONSTRUCTION AND SUBCONTRACTORS ARE TO CONSTRUCTION. INSPECTION SHALL BE DONE CONCOMITANT ARE NOT AS ANTICIPATED OR AS SHOWN ON THESE DRAWINGS. THE CONTRACTOR AND/OR SUBCONTRACTORS WILL NOTIFY THE OWNER IMMEDIATELY UPON DISCOVERY OF THE DIFFERENCE AND THE CONTRACTOR SHALL BE RESPONSIBLE FOR CORRECTING THE DISCREPANCY.

JOB #: PRIME GROUP INS

DATE: 6-16-2011

SCALE: VARIES

DRAWN BY: JMB/BA

ISSUED: REVISIONS:

SHEET NO.:

OF 2