

TESTING, ADJUSTING, AND BALANCING

- THE MECHANICAL CONTRACTOR SHALL BALANCE ALL MECHANICAL SYSTEMS TO THE PERFORMANCE SPECIFICATIONS INDICATED ON PLANS AND PROVIDE THE ENGINEER WITH THREE COPIES OF A COMPLETE TEST AND BALANCE REPORT. THE REPORT IS TO BE ISSUED A MINIMUM OF TWO WEEKS PRIOR TO PROJECT COMPLETION. THE TEST AND BALANCE REPORT WILL BE SUBJECT TO REVIEW AND APPROVAL BY THE ENGINEER. ANY ADDITIONAL TESTING, ADJUSTING AND BALANCING REQUIRED (AT ENGINEER'S REQUEST) AFTER REVIEW OF THE INITIAL REPORT SHALL BE PROVIDED AT NO ADDITIONAL COST. TEST AND BALANCE REPORT TO BE COMPLETED BY AN INDEPENDENT, CERTIFIED TEST AND BALANCE CONTRACTOR.
- CONDUCT TESTING AND BALANCING IN ACCORDANCE WITH TECHNICAL PORTIONS OF THE AABC "NATIONAL STANDARDS FOR TESTING AND BALANCING HVAC SYSTEMS", LATEST EDITION.
- INSTRUMENTS USED FOR BALANCING MUST HAVE BEEN CALIBRATED WITHIN A PERIOD OF SIX (6) MONTHS PRIOR TO BALANCING. SUBMIT SERIAL NUMBERS, AND DATES OF CALIBRATION OF ALL INSTRUMENTS TO BE USED PRIOR TO THE START OF WORK.
- SET HVAC SYSTEM AIRFLOW AND WATER FLOW RATES WITHIN THE FOLLOWING TOLERANCES:
 - SUPPLY, RETURN, AND EXHAUST FANS AND EQUIPMENT WITH FANS: MINUS 5 TO PLUS 10 PERCENT.
 - AIR OUTLETS AND INLETS: 0 TO MINUS 10 PERCENT.

DEMOLITION NOTE - SAFING

ALL EQUIPMENT AND UTILITY SERVICES REMOVED FROM THIS PROJECT SERVING AREAS OUTSIDE OF THE SCOPE OF WORK, SHALL BE VALUED, CAPPED, DRAINED, ETC. AND IN GENERAL MADE SAFE FOR BUILDING VACANCY.

EQUIVALENT MANUFACTURERS LISTING

LISTING OF MANUFACTURER'S NAME DOES NOT GUARANTEE APPROVAL. ALL EQUIPMENT MUST MEET OR EXCEED QUALITY AND CAPACITIES OF SPECIFIED EQUIPMENT. FINAL APPROVAL WILL BE BASED ON EQUIPMENT SUBMITTALS. ANY MANUFACTURER NOT LISTED BUT WISHING TO BID THIS PROJECT SHALL SUBMIT A WRITTEN REQUEST A MINIMUM OF 14 DAYS PRIOR TO BID DATE OR AS INDICATED IN THE SPECIFICATIONS. PRIOR APPROVAL IS REQUIRED FOR ALL MANUFACTURERS NOT LISTED. SEE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.

FANS: COOK, GREENHECK, PENN, TWIN CITY
 AIR DISTRIBUTION: CARNES, METAL-AIRE, NAILOR, PRICE, TITUS, ACUTHERM
 FIRE DAMPERS: NAILOR, RUSKIN, POTTOFF, PREFCO, SAFE-AIRE
 DUCTLESS SPLIT SYSTEMS: DAIKIN, MITSUBISHI, PANASONIC
 DDC CONTROLS: AUTOMATED LOGIC CORP, SCHNEIDER, ALERTON
 UNIT HEATERS: MCQUAY, TRANE, CARRIER, PRICE, INDECO

NOTE: ALL COST ASSOCIATED WITH SUBSTITUTED EQUIPMENT TO COMPLY WITH BASIS OF DESIGN, INCLUDING PROVIDING MAINTENANCE ACCESS, CLEARANCE, PIPING, SHEET METAL, ELECTRICAL, REPLACEMENT OF OTHER SYSTEM COMPONENTS, BUILDING ALTERATIONS, ETC., SHALL BE INCLUDED IN THE ORIGINAL BASE BID. NO ADDITIONAL COST ASSOCIATED WITH SUBSTITUTED EQUIPMENT WILL BE APPROVED DURING CONSTRUCTION AND ALL COST WILL BE THE RESPONSIBILITY OF THE MECHANICAL CONTRACTOR.

SAFETY NOTE

ALL WORKERS SHALL COMPLETE ALL REQUIRED SAFETY TRAINING REQUIRED BY WCU SPECIFIC TO THE FACILITY PRIOR TO STARTING ANY WORK. THIS WILL INCLUDE ALL ACCESS AND SECURITY BADGING REQUIREMENTS FOR SITE ACCESS.

WORK SCHEDULING NOTE

ALL WORK INVOLVING EXISTING EQUIPMENT SHUTDOWN, EXISTING SYSTEM CONNECTION, AND/OR MODIFICATION TO EXISTING EQUIPMENT SHALL BE COORDINATED WITH THE OWNER 1 WEEK PRIOR TO COMMENCING WORK.

NO SHUTDOWN OF ANY EXISTING SYSTEM WILL BE ALLOW WITH OUT WRITTEN AUTHORIZATION FROM THE OWNER.

OWNER TRAINING

ALL EQUIPMENT SHALL BE PROVIDED WITH OWNER TRAINING FROM FACTORY AUTHORIZED AND CERTIFIED TRAINING PERSONNEL. TRAINING SHALL BE PROVIDED WITHIN 5 DAYS OF OWNER ACCEPTANCE OF OPERATIONAL EQUIPMENT. DURATION AND FORMAT OF TRAINING SHALL BE COORDINATED WITH OWNER, BUT SHALL BE A MINIMUM OF 4 HRS OF ONSITE TRAINING WITH THE REQUIRED OWNER PERSONNEL. MECHANICAL CONTRACTOR SHALL DOCUMENT TRAINING WITH DATE/TIME, DURATION, AND OWNER SIGNATURE.

MECHANICAL DEMOLITION NOTES

- THE MECHANICAL CONTRACTOR SHALL VISIT SITE PRIOR TO BEGINNING WORK TO DETERMINE THE LEVEL OF DEMOLITION REQUIRED AND INCLUDE ALL NECESSARY PRICING IN THEIR BID.
- IT IS THE MECHANICAL CONTRACTORS RESPONSIBILITY TO FIELD VERIFY ALL EXISTING DUCTWORK AND PIPING. ANY DISCREPANCIES BETWEEN EXISTING CONDITIONS AND MECHANICAL PLANS SHOULD BE BROUGHT TO THE ATTENTION OF THE MECHANICAL ENGINEER.
- M.C. SHALL VERIFY ALL EXISTING PIPING SYSTEMS TO REMAIN ARE INSULATED WITH VAPOR BARRIER INTACT. IF ANY PORTION OF THE PIPING SYSTEM IS MISSING INSULATION OR DETERMINED DURING ANY PHASE OF THE PROJECT AS DEFECTIVE, THAT PORTION SHALL BE PROVIDED WITH NEW INSULATION. MINOR TEARS ON EXISTING PIPING MAY BE REPAIRED WITH TAPES, ADHESIVE, OR SEALANT. EXISTING PIPING SYSTEMS SHALL INCLUDE STEAM & STEAM CONDENSATE PIPING. THE MECHANICAL CONTRACTOR SHALL MAKE PROVISIONS IN THEIR BASE BID TO COVER ALL COSTS NECESSARY ACHIEVE A CONTINUOUS VAPOR BARRIER THROUGHOUT THESE EXISTING SYSTEMS.
- ALL EQUIPMENT DUCTWORK, PIPING, ETC. TO BE REMOVED SHALL BE REMOVED FROM THE CAMPUS AND DISPOSED OF IN AN APPROVED MANNER.

2012 NORTH CAROLINA ENERGY CONSERVATION CODE COMMERCIAL ENERGY EFFICIENCY - MECHANICAL SUMMARY

- 501.1 METHOD OF COMPLIANCE NO SPECIFIC COMCHECK PROVIDED
 2012 NCECC CHAPTER 5 24% IMPROVEMENT OVER ASHRAE 90.1-2007 ENERGY MODEL - EQUAL TO ASHRAE 90.1-2010
- 501.2 APPLICATION COMPLIANCE ENERGY MODEL - EQUAL TO ASHRAE 90.1-2010
 506.2.1 EFFICIENT MECH EQUIPMENT 506.2.4 HI EFFICIENCY DOMESTIC HW
 506.2.2 REDUCED LTG DENSITY 506.2.5 ONSITE RENEWABLE ENERGY
 506.2.3 ENERGY RECOVERY SYSTEMS 506.2.6 DAYLIGHTING CONTROLS

301.1 CLIMATE ZONE 4A

DESIGN CONDITIONS

EXTERIOR (ASHRAE 90.1-2010 TABLE D-1)

WINTER DRY BULB	14.7° F.
SUMMER DRY BULB	85.9° F.
SUMMER WET BULB	70.6° F.

INTERIOR (2012 NCECC SECTION 302.1)

WINTER DRY BULB	72° F.
SUMMER DRY BULB	75° F.

*PROVIDE 5° DEADBAND PER 503.2.4.2

- 503.2 HEATING & COOLING LOADS AND EQUIPMENT & SYSTEM SIZING
- BUILDING HEATING LOAD REFER TO SCHEDULES
 BUILDING COOLING LOAD REFER TO SCHEDULES
- INSTALLED HEATING CAPACITY REFER TO SCHEDULES
 INSTALLED COOLING CAPACITY REFER TO SCHEDULES

503.2.3 & 506.2.1 - REQUIRED & INCREASED HVAC EQUIPMENT PERFORMANCE

SYSTEM DESCRIPTION - DUCTLESS SPLIT SYSTEMS, FANS, AND ELECTRIC UNIT HEATERS

- MINIMUM HVAC EQUIPMENT EFFICIENCY COMPLIANCE - TABLE 503.2.3
 INCREASED HVAC EQUIPMENT EFFICIENCY COMPLIANCE - TABLE 506.2.1

EQUIP. TYPE	SIZE CATEGORY (BTU/H)	SUBCATEGORY	503.2.3 MINIMUM EFFICIENCY (EER)	506.2.1 INCREASED EFFICIENCY	DESIGN EFFIC.
TABLE 5.3.2.3(1) - UNITARY AIR CONDITIONERS AND CONDENSING UNITS					
AIR COND. AIR COOLED	< 65,000 (<= 5 TONS)	SPLIT SYSTEM & SINGLE PACKAGE	13.0 SEER	15.0 SEER	SEE SCHEDULE
AIR COND. AIR COOLED	>= 65,000 & < 135,000	SPLIT SYSTEM & SINGLE PACKAGE	11.2 EER (c)	12.0 EER	SEE SCHEDULE
AIR COND. AIR COOLED	>= 135,000 & < 240,000	SPLIT SYSTEM & SINGLE PACKAGE	11.0 EER (c)	12.0 EER	SEE SCHEDULE

b. IPLVs ARE ONLY APPLICABLE TO EQUIPMENT WITH CAPACITY MODULATION.
c. DUCT 0.2 FROM THE REQUIRED EERS AND IPLVs FOR UNITS WITH A HEATING SYSTEM OTHER THAN ELECTRIC RESISTANCE HEAT.

503.2.4 THRU 503.2.9

HVAC SYSTEMS ARE FULLY COMPLIANT WITH THE REQUIREMENTS FOR HVAC SYSTEM CONTROL, VENTILATION, ENERGY RECOVERY, DUCT AND PLENUM INSULATION AND SEALING, PIPING INSULATION, AND SYSTEM COMPLETION.

503.2.10 - AIR SYSTEM DESIGN AND CONTROL

- ALL FANS INSTALLED ON THE PROJECT ARE BELOW 5 HP AND ARE EXEMPT FROM THESE REQUIREMENTS.
 FANS ABOVE 5 HP MEET THE CFM LIMITATIONS SHOWN BELOW:

OPTION 1 - FAN SYSTEM MOTOR NAMEPLATE HP - TABLE 503.2.10.1(1)

SYSTEM/UNIT	ALLOWABLE MOTOR BRAKE HP	DESIGN MOTOR BRAKE HP	DESIGN CFM
AHU-1 SUPPLY	31.1	27.2	10,000
AHU-1 RETURN	8.3	7.2	3,000
AHU-2 SUPPLY	14.8	12.8	5,000
AHU-2 RETURN	4.1	3.3	1,500
AHU-3 SUPPLY	17.5	15.9	6,000
AHU-3 RETURN	5.2	4.7	2,000

503.3 - SIMPLE PIPING SYSTEMS AND EQUIPMENT (PRESCRIPTIVE)

- PROJECT CONSISTS OF ONLY DX SPLIT SYSTEMS FULLY COMPLIANT WITH THE SIMPLE PIPING REQUIREMENTS OF 503.3.

503.4 - COMPLEX HVAC SYSTEMS AND EQUIPMENT (PRESCRIPTIVE)

PROJECT CONSISTS OF HVAC SYSTEMS FULLY COMPLIANT WITH THE COMPLEX PRESCRIPTIVE REQUIREMENTS OF 503.4.

ELECTRICAL/MECHANICAL DEMARCATION

REFER TO DETAIL 9/MS01 FOR MECHANICAL CONTRACTOR'S RESPONSIBILITIES RELATIVE TO ELECTRICAL DISCONNECTS, STARTERS AND WIRING OF MECHANICAL EQUIPMENT. ALL DISCONNECTS, STARTERS AND WIRING (LOAD SIDE OF DISCONNECTS) SHALL BE FURNISHED AND INSTALLED BY M.C. UNLESS OTHERWISE NOTED IN DETAIL 9/MS01. COORDINATE ALL ELECTRICAL REQUIREMENTS WITH E.C. PRIOR TO ASSEMBLING SHOP DRAWING SUBMITTALS OR ORDERING EQUIPMENT.

MECHANICAL GENERAL NOTES

- DO NOT SCALE DRAWINGS. SEE ARCHITECTURAL DRAWINGS AND REFLECTED CEILING PLANS FOR EXACT LOCATION OF DOORS, WINDOWS, CEILING DIFFUSERS, ETC.
- ALL COST ASSOCIATED WITH SUBSTITUTED EQUIPMENT TO COMPLY WITH BASIS OF DESIGN, INCLUDING PROVIDING MAINTENANCE ACCESS, CLEARANCE, PIPING, SHEET METAL, ELECTRICAL, REPLACEMENT OF OTHER SYSTEM COMPONENTS, BUILDING ALTERATIONS, ETC., SHALL BE INCLUDED IN THE ORIGINAL BASE BID. NO ADDITIONAL COST ASSOCIATED WITH SUBSTITUTED EQUIPMENT WILL BE APPROVED DURING CONSTRUCTION AND ALL COST WILL BE THE RESPONSIBILITY OF THE MECHANICAL CONTRACTOR. THIS INCLUDES ANY MODIFICATIONS TO ANY ASSOCIATED MECHANICAL, PLUMBING, OR ELECTRICAL SYSTEMS REQUIRED BY THIS SPECIFIC MANUFACTURER'S INSTALLATION INSTRUCTIONS.
- ALL DUCTWORK SHALL BE GALVANIZED SHEET METAL CONSTRUCTED IN ACCORDANCE WITH THE LATEST SMACNA STANDARDS. ALL OUTSIDE AIR DUCTWORK SHALL BE WRAPPED WITH 2" THICK DUCT WRAP WITH VAPOR BARRIER, INSULATION (INCLUDING FLEXIBLE DUCT INSULATION) SHALL HAVE A MINIMUM INSTALLED R-VALUE OF 3.0. DUCT DIMENSIONS ON PLANS ARE FREE AREA SIZE. EXHAUST DUCT DOES NOT REQUIRE INSULATION.
- ALL DUCTWORK SHALL BE SEALED PER THE REQUIREMENTS OF THE NORTH CAROLINA MECHANICAL CODE. SEAL LOW PRESSURE SUPPLY, RETURN, OUTSIDE AIR, AND EXHAUST DUCTWORK FOR POSITIVE/NEGATIVE 2" PRESSURE CLASS, SMACNA SEAL CLASS A, SMACNA LEAKAGE CLASS 12.
- ALL PIPING, DUCTS, VENTS, ETC. EXTENDING THROUGH WALLS AND ROOF SHALL BE FLASHED AND GOUNTERFLASHED IN A WATERPROOF MANNER.
- THE MECHANICAL CONTRACTOR SHALL BALANCE ALL MECHANICAL SYSTEMS TO THE PERFORMANCE SPECIFICATIONS INDICATED ON PLANS AND PROVIDE THE ENGINEER WITH THREE COPIES OF A COMPLETE TEST AND BALANCE REPORT. THE REPORT IS TO BE ISSUED A MINIMUM OF TWO WEEKS PRIOR TO PROJECT COMPLETION. THE TEST AND BALANCE REPORT WILL BE SUBJECT TO REVIEW AND APPROVAL BY THE ENGINEER. ANY ADDITIONAL TESTING, ADJUSTING AND BALANCING REQUIRED (AT ENGINEER'S REQUEST) AFTER REVIEW OF THE INITIAL REPORT SHALL BE PROVIDED AT NO ADDITIONAL COST. TESTING AND BALANCING CONTRACTOR TO PROVIDE CONFORM FILTERS AS CLEAN AND FREE OF DEBRIS PRIOR TO BEGINNING WORK. THE MECHANICAL CONTRACTOR SHALL REPLACE ANY DIRTY FILTERS, AS NEEDED. TEST AND BALANCE REPORT TO BE COMPLETED BY AN INDEPENDENT, CERTIFIED TEST AND BALANCE CONTRACTOR.
- UPON PROJECT COMPLETION, THE MECHANICAL CONTRACTOR IS RESPONSIBLE FOR PROVIDING THE OWNER INSTALLATION INFORMATION INCLUDING RECORD SUBMITTALS (WITH ANY PERMITAL REVIEW COMMENTS ADDRESSED) AND O&M MANUALS FOR EACH PIECE OF EQUIPMENT INCLUDING ALL SELECTED OPTIONS, THE NAME AND ADDRESS OF AT LEAST ONE SERVICE AGENCY, FULL CONTROL SYSTEM O&M AND CALIBRATION INFORMATION INCLUDING WIRING DIAGRAMS, SCHEMATICS, FULL SEQUENCE OF OPERATION, AND PROGRAMMED SETPOINTS.
- PROVIDE A ONE YEAR WARRANTY FOR ALL WORK PERFORMED BEFORE THE DATE OF FINAL SCO INSPECTION/ACCEPTANCE.
- PROVIDE MANUFACTURER'S RECOMMENDED CLEARANCE AROUND ALL EQUIPMENT FOR MAINTENANCE AND FILTER REMOVAL.
- CONDENSATE DRAIN PIPING SHALL BE SCHEDULE TYPE 30 HARD DRAWN COPPER AND SHALL BE INSULATED PER THE SPECIFICATIONS. DRAINS FROM COOLING COILS SHALL BE TRAPPED. DRAIN SIZE SHALL BE EQUIPMENT DRAIN CONNECTION SIZE (3/4" MINIMUM) WITH A MINIMUM DEPTH OF 4" OR 1.5" IF THE UNIT FAN TSP, WHICH EVER IS GREATER.
- ALL REFRIGERANT PIPE SHALL BE GALVANIZED ACR COPPER TUBE SIZE, INSULATE, AND INSTALL REFRIGERANT PIPING PER MANUFACTURER'S RECOMMENDATIONS. REFRIGERANT PIPING INSULATION EXPOSED OUTDOORS SHALL BE COVERED WITH AN OILY ALUMINUM JACKET.
- ANY DEVICES DURING A THERMOSTAT CONTROL SHALL BE FURNISHED WITH A THERMOSTAT WHETHER INDICATED ON THE DRAWINGS OR NOT.
- INSTALL THE TOP OF ALL THERMOSTATS, SENSORS, AND SWITCHES AT 4'-0" (MAXIMUM) ABOVE FINISH FLOOR, COORDINATE EXACT THERMOSTAT LOCATION WITH OWNER PRIOR TO INSTALLATION. ANY DEVICE ON A PERIMETER WALL SHALL BE MOUNTED ON A FOAM-FILLED ELECTRICAL BOX WITH ALL GAPS BETWEEN BOX AND WALL SEALED TO PREVENT INFILTRATION.
- CONTROL PANELS SHALL LOCATE EXHAUST FANS, OUTLETS, AND GAS FLUES A MINIMUM OF 15'-0" FROM ANY OUTSIDE AIR INTAKE.
- PROVIDE NON-CORRODING DIELECTRIC UNIONS WHENEVER CONNECTING DISSIMILAR METALS.
- REINFORCEMENT CONCRETE PAD SIZES FOR MECHANICAL EQUIPMENT SHALL BE CONFIRMED WITH APPROVED SHOP DRAWING SUBMITTALS AND ASSOCIATED UNIT MANUFACTURER ANCHOR LOCATIONS PRIOR TO FABRICATION/INSTALLATION.
- DUCTWORK AND PIPING PASSING THROUGH/ABOVE ELECTRICAL ROOMS SHALL BE CLOSELY COORDINATED WITH THE ELECTRICAL CONTRACTOR. DUCTWORK OR PIPING SHALL NOT BE LOCATED ABOVE ELECTRICAL PANELS.
- EQUIPMENT OPERATED DURING CONSTRUCTION SHALL USE FILTERED MEDIA TO PREVENT CONSTRUCTION DEBRIS FROM ENTERING COILS, DUCTWORK SYSTEMS, AIR TERMINALS ETC. AT COMPLETION OF CONSTRUCTION, MECHANICAL CONTRACTOR SHALL CLEAN ALL SYSTEMS WITH ALL CONTROL DEVICES WIDE OPEN AND REMOVE ANY REMAINING DEBRIS PRIOR TO TEST AND BALANCING. MECHANICAL CONTRACTOR SHALL REPLACE ALL FILTRATION WITH NEW FILTERS AT COMPLETION OF CONSTRUCTION. ANY DUCTWORK, AIR TERMINALS, AND/OR OTHER EQUIPMENT UPSTREAM OF FILTRATION SHALL BE CLEANED THOROUGHLY OF CONSTRUCTION DEBRIS BEFORE HANDING OVER TO OWNER.
- MECHANICAL CONTRACTOR SHALL PROVIDE PRE-PRINTED COLOR-CODED PIPE LABELS WITH 1-1/2" HIGH LETTERING INDICATING SERVICE AND FLOW DIRECTION. PLASTIC PIPE LABELS UTILIZED IN A RETURN AIR PLENUM SHALL BE LISTED/APPROVED FOR USE IN A RETURN AIR PLENUM. ALL PIPING TO MATCH EXISTING FACILITIES STANDARD (IF REFRIGERANT PIPING: YELLOW BACKGROUND, BLACK LETTERING)

MECHANICAL DRAWING INDEX

SHEET#	SHEET TITLE
M001	MECHANICAL LEGEND, NOTES, & SCHEDULES
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M100	GROUND FLOOR PLAN MECHANICAL - NEW WORK
M501	MECHANICAL DETAILS
M502	MECHANICAL DETAILS

MECHANICAL LEGEND

SYMBOL	DESCRIPTION	ABBR.
	CONDENSATE DRAIN	D
	PUMPED CONDENSATE	PC
	COLD WATER MAKE-UP	CW
	REFRIGERANT PIPING	R
	BUTTERFLY VALVE	B
	3-PIECE BALL VALVE	3-P
	CHECK VALVE	C
	UNION	U
	THERMOMETER	T
	TEMPERATURE GAUGE	TG
	THERMOSTAT / TEMP SENSOR (4'-0" AFF TO TOP)	TS
	HUMIDISTAT (4'-0" AFF TO TOP)	HU
	SWITCH (4'-0" AFF TO TOP)	SW
	WALL MOUNTED BUILDING PRESSURE SENSOR	W
	SUPPLY AIR DIFFUSER (4-WAY)	S4
	SUPPLY AIR DIFFUSER (3-WAY)	S3
	RETURN AIR GRILLE	R
	RETURN AIR GRILLE WITH SOUND ATTENUATION (SEE DETAIL)	RWA
	EXHAUST AIR GRILLE	E
	DOUBLE LINE DUCTWORK	DL
	SINGLE LINE DUCTWORK	SL
	20"x14" FLAT OVAL DUCT	20x14
	20"x14" RECTANGULAR DUCT	20x14
	20"x14" RECTANGULAR DUCT LINED	20x14L
	8" DIAMETER ROUND DUCT	8"
	DUCT MOUNTED SMOKE DETECTOR W/ ACCESS DOOR	D
	STATIC-PRESSURE SENSOR	M
	MOTORIZED DAMPER	D
	BACKDRAFT DAMPER	B
	CARBON MONOXIDE SENSOR	CO2
	CARBON DIOXIDE SENSOR	C
	UNDERCUT DOOR	U
	LOW PRESSURE STEAM TRAP	S
	HIGH PRESSURE STEAM TRAP	M.C.
	MECHANICAL CONTRACTOR	E.C.
	ELECTRICAL CONTRACTOR	P.C.
	PLUMBING CONTRACTOR	N.I.C.
	NOT IN CONTRACT	AFF
	ABOVE FINISHED FLOOR	DN
	DOWN	UP



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SHEET ISSUE

NO.	DATE	DESCRIPTION	BY
1	03/07/18	ISSUED FOR BID	

PRINCIPAL IN CHARGE: LR
PROJECT ARCHITECT: APR
DRAWN BY:

SHEET TITLE: MECHANICAL LEGEND, NOTES, AND SCHEDULES

SHEET NO: M001
PROJ NO: 017384
AGENCY REVIEW ID: 17-1742-01A

1 OF 6
OPTIMA # 17-0325

Order Plans