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Santa Rosa County
School District



"A Tradition of Excellence"

SCHOOL BOARD OF SANTA ROSA COUNTY SCHOOL DISTRICT

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VICINITY MAP

NOT TO SCALE

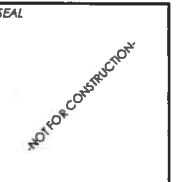
HVAC RENOVATION PHASE III

GULF BREEZE HIGH SCHOOL
675 GULF BREEZE PKWY
GULF BREEZE
(850) 916-4100

PHASE 2 - DESIGN DEVELOPMENT SUBMITTAL

JUNE 09, 2015

Debut
6/9/15



REVISION NUMBER	REVISION DESCRIPTION

GULF BREEZE HIGH SCHOOL
HVAC RENOVATION PH. III
SANTA ROSA COUNTY SCHOOL DISTRICT

DESIGNED BY: AL
DRAWN BY: AL
CHECKED BY: WJJ
DATE: JUNE 9, 2015

SHEET TITLE: TITLE SHEET

SHEET: G001

PHASE 2 - DESIGN
DEVELOPMENT SUBMITTAL

SEAL

NOT FOR CONSTRUCTION

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GULF BREEZE HIGH SCHOOL
HVAC RENOVATION PH. III
SANTA ROSA COUNTY SCHOOL DISTRICT

DESIGNED BY:
AL
DRAWN BY:
AL
CHECKED BY:
WJJ
DATE:
JUNE 9, 2015

SHEET TITLE:

DRAWING
INDEX

SHEET:

G002

PHASE 2 - DESIGN
DEVELOPMENT SUBMITAL

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GULF BREEZE HIGH SCHOOL
HVAC RENOVATION PH. III
SANTA ROSA COUNTY SCHOOL DISTRICT

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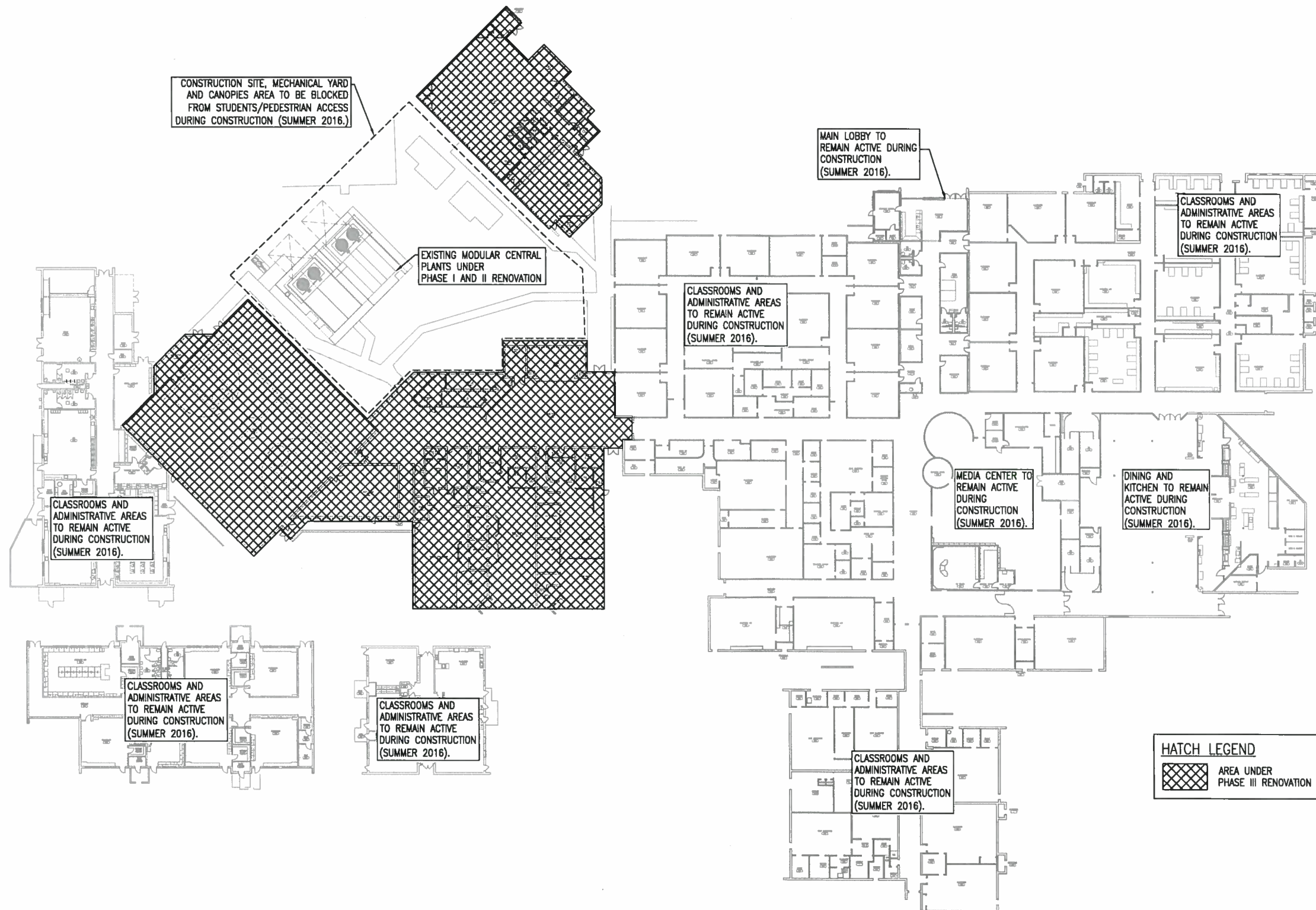
SHEET TITLE:

**HVAC
RENOVATION
PHASE II AREA
SCOPE OF WORK**

SHEET:

G003

PHASE 2 - DESIGN
DEVELOPMENT SUBMITTAL

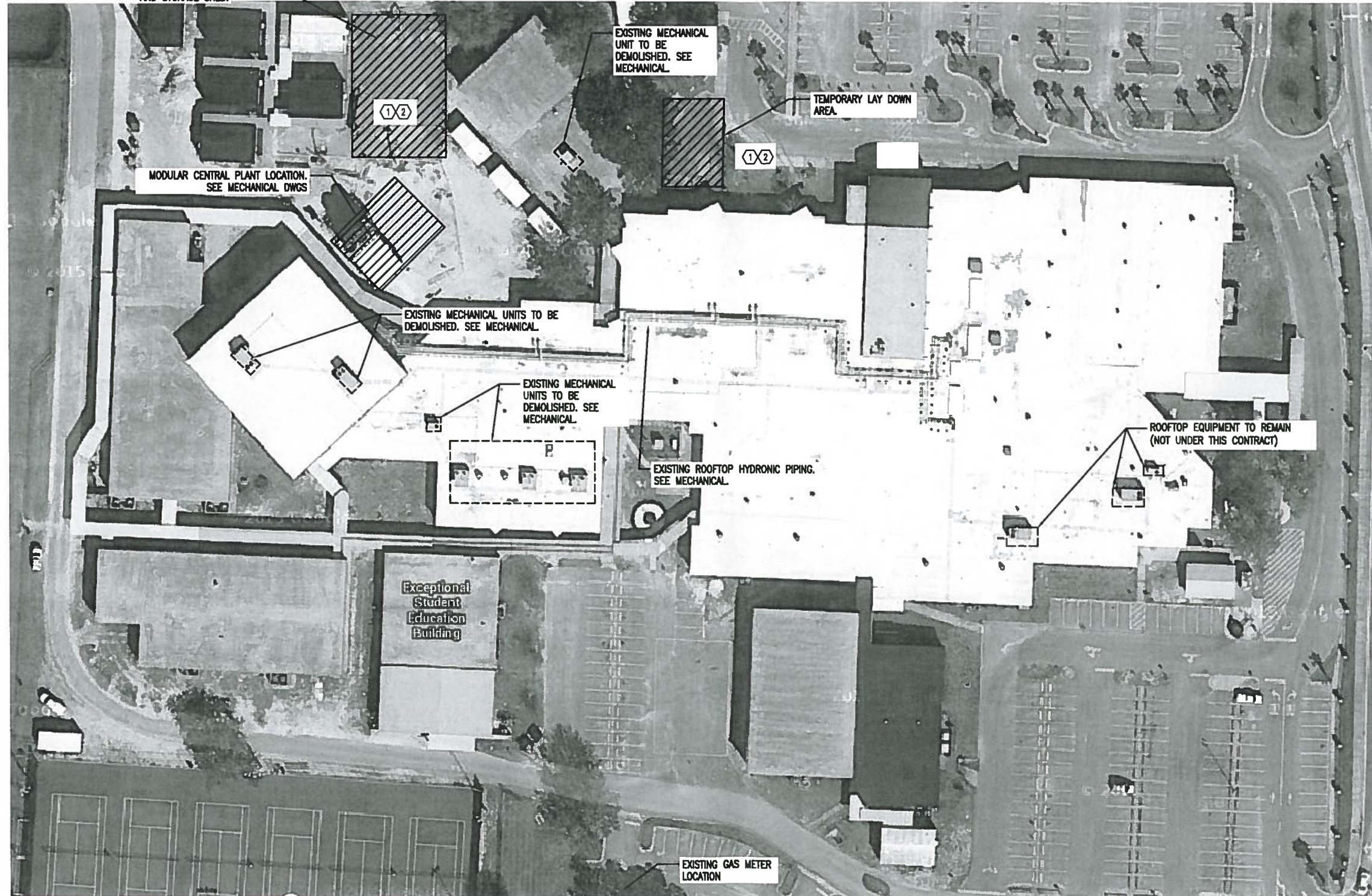


1 HVAC RENOVATION PHASE III AREA SCOPE OF WORK

SHEET NOTES

- ① PROVIDE LAY DOWN AREAS WITH TEMPORARY SAFETY FENCING.
② REPAIR EXISTING AREA AS REQUIRED TO MATCH ORIGINAL.

CONSTRUCTION LAYDOWN AREA. COORDINATE WITH
OWNER FOR RELOCATED PORTABLE CLASSROOMS
AND STORAGE SHED.



① OVERALL CAMPUS AERIAL VIEW
NOT TO SCALE



SEAL
NOT FOR CONSTRUCTION

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GULF BREEZE HIGH SCHOOL
HVAC RENOVATION PH. III
SANTA ROSA COUNTY SCHOOL DISTRICT

DESIGNED BY:
AL
DRAWN BY:
AL
CHECKED BY:
WJJ
DATE:
JUNE 9, 2015

SHEET TITLE:
GENERAL SITE
CONSTRUCTION
INFORMATION

SHEET:
G004

PHASE 2 - DESIGN
DEVELOPMENT SUBMITTAL

ABBREVIATIONS

● AT	AT
ACD	AUTOMATIC CONTROL DAMPER
AD	ACCESS DOOR
AFF	ABOVE FINISHED FLOOR
AS	AIR SEPARATOR
ASHRAE	AMERICAN SOCIETY OF HEATING, REFRIGERATING AND AIR CONDITIONING ENGINEERS
B	BOILER
BD	BELT DRIVE
BMS	BUILDING MANAGEMENT SYSTEM
BP	BOILER PUMP -PRIMARY LOOP
CD	CEILING DIFFUSER
CF	CHEMICAL FEEDER
CHWS	CHILLED WATER PIPING SUPPLY
CHWR	CHILLED WATER PIPING RETURN
CHWP	CHILLED WATER PUMP
CFM	CUBIC FEET PER MINUTE
COAC	CLEANOUT ABOVE CEILING
CONT.	CONTINUOUS
COP	COEFFICIENT OF PERFORMANCE
DAC	DUCTLESS SPLIT DX AIR CONDITIONING UNIT
DCU	DUCTLESS SPLIT DX CONDENSING UNIT
DD	DIRECT DRIVE
DDC	DIRECT DIGITAL CONTROL
DPS	DIFFERENTIAL PRESSURE SENSOR
DP	DEW POINT TEMPERATURE
OWGS.	DRAWINGS
EA	EXHAUST AIR
EAL	EXHAUST AIR LOUVER
EER	ENERGY EFFICIENCY RATIO
EF	EXHAUST FAN
EG	EXHAUST GRILLE
EL	ELEVATION
EMCS	ENERGY MANAGEMENT AND CONTROL SYSTEM
ENT	ENTERING
ESP	EXTERNAL STATIC PRESSURE
ET	EXPANSION TANK
EH	ELECTRIC HEATER
FD	FIRE DAMPER
PPM	FEET PER MINUTE
GI	GRAVITY INTAKE
GR	GRAVITY RELIEF
HD	HUB DRAIN (SEE SHEET M002)
HP	HORSEPOWER
HWS	HOT WATER SUPPLY
HWR	HOT WATER RETURN
HWP	HOT WATER PUMP
MAX.	MAXIMUM
MCP	MODULAR CENTRAL PLANT
MIN.	MINIMUM
MMS	MODULE MANAGEMENT SYSTEM
MVD	MANUAL VOLUME DAMPER
NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
NO	NORMALLY OPEN
NC	NORMALLY CLOSED
OA	OUTSIDE AIR
OAU	OUTSIDE AIR UNIT
O.C.	ON CENTER
PPM	PARTS PER MILLION
PRV	PRESSURE REDUCING VALVE
P/T	PRESSURE/TEMPERATURE
RA	RETURN AIR
SA	SUPPLY AIR
SD	SMOKE DETECTOR
SEER	SEASONAL ENERGY EFFICIENCY RATIO
SF	SUPPLY FAN
SMACNA	SHEET METAL AND AIR CONDITIONING CONTRACTORS' NATIONAL ASSOCIATION
SPT	STATIC PRESSURE TRANSMITTER
SW	SWITCH
T*STAT	THERMOSTAT
TT	TEMPERATURE TRANSMITTER
TSP	TOTAL STATIC PRESSURE
TYP.	TYPICAL
W/	WITH
W.G.	WATER GAUGE
WCC	WATER COOLED CHILLER

LEGEND

	POSITIVE PRESSURE SUPPLY DUCT TURNING UP
	NEGATIVE PRESSURE RETURN OR EXHAUST DUCT TURNING UP
	POSITIVE PRESSURE SUPPLY DUCT TURNING DOWN
	NEGATIVE PRESSURE RETURN OR EXHAUST DUCT TURNING DOWN
	RECTANGULAR DUCT SIZE. FIRST SIZE LISTED IS SIDE SHOWN IN PLANS.
	EXTERNALLY INSULATED DUCTWORK
	EXISTING DUCTWORK TO REMAIN
	EXISTING DUCTWORK TO BE DEMOLISHED
	EXTERNALLY INSULATED ROUND FLEXIBLE DUCTWORK
	DUCT ELBOW WITH TURNING VANES
	RADIUSED DUCT ELBOW
	FLEXIBLE DUCT CONNECTION
	MANUAL VOLUME BALANCING DAMPER
	TRANSITION
	FLEX DUCT TAKE OFF WITH MVD
	BRANCH DUCT TAKEOFF WITH MVD
	RETURN OR SUPPLY DEVICE WITH MVD DIRECTLY BELOW MAIN TRUNK DUCT
	TEE WITH TURNING VANES
	MOTORIZED DAMPER
	FIRE DAMPER
1	DETAIL
X-DDD	SHEET REFERENCED
	EQUIPMENT TAG
	SHEET NOTE
	THERMOSTAT MOUNTED AT 56° AFF OR TO MATCH EXISTING ('1' INDICATES AHU CONTROLLED)
	SMOKE DETECTOR (PROVIDED BY DIVISION 26, INSTALLED BY DIVISION 23 AND WIRED BY DIVISION 26).
	UNDER CUT DOOR 3/4"
	CONNECT TO EXISTING
	HVAC EQUIPMENT WITH CLEARANCE
PIPING	
	ELBOW TURN UP
	ELBOW TURN DOWN
	CONNECTION, BOTTOM
	CONNECTION, TOP
CHWS	CHILLED WATER SUPPLY PIPING
CHWR	CHILLED WATER RETURN PIPING
HWS	HEATING WATER SUPPLY PIPING
HWR	HEATING WATER RETURN PIPING
CWS	CONDENSER WATER SUPPLY PIPING
CWR	CONDENSER WATER RETURN PIPING
----	NEW UNDERGROUND PIPING
	CONDENSATE DRAIN PIPING
	GATE VALVE
	BALL VALVE
	BUTTERFLY VALVE
	SWING CHECK VALVE
	SPRING CHECK VALVE
	PRESSURE REDUCING VALVE
	PRESSURE RELIEF VALVE, PIPE FULL SIZE DISCHARGE TO FLOOR DRAIN.
	CIRCUIT SETTER
	TRIPLE DUTY VALVE
	AUTOMATIC FLOW CONTROL VALVE
	2-WAY CONTROL VALVE
	3-WAY CONTROL VALVE
	COMBINATION VENTURI AND BALL VALVE WITH MEMORY STOP FOR FLOW BALANCING AND SHUT OFF SERVICE
	MULTI-TURN BALANCING VALVE
	UNION
	GLOBE VALVE
	THERMAL EXPANSION VALVE
	TRIPLE DUTY VALVE
	ANGLE VALVE
	SOLENOID VALVE
	BACKPRESSURE RELIEF OR SAFETY VALVE
	BACKPRESSURE REGULATOR (SELF-CONTAINED)
	BACKPRESSURE REGULATOR (EXTERNAL PRESSURE)
	FLEXIBLE PIPE CONNECTOR
	COMBINATION PRESSURE AND TEMPERATURE TEST PLUG WITH EXTENDED NECK AND CAP
	STRAINER WITH BLOW DOWN GATE VALVE FULL SIZE OF STRAINER AND 3/4" HOSE END CONNECTION WITH CAP
	MANUAL AIR VENT WITH 1/2" BALL VALVE, ROUTE 1/2" SOFT COPPER TUBING FROM DISCHARGE TO FLOOR DRAIN UNLESS OTHERWISE NOTED.

GENERAL MECHANICAL NOTES

- THE MECHANICAL CONTRACTOR IS TO COORDINATE WITH OTHER TRADES REQUIRED OPENINGS IN WALLS, FOUNDATIONS, FLOORS, AND ROOFS.
- OUTSIDE AIR INLETS TO BE LOCATED A MINIMUM OF 10 FT FROM ANY EXHAUST AIR OUTLET OR PLUMBING VENT STACK. FIELD COORDINATE WITH EXISTING CONDITIONS.
- THE MECHANICAL CONTRACTOR TO VERIFY MECHANICAL EQUIPMENT LOCATIONS AND BE RESPONSIBLE FOR ALL RELATED CLEARANCES IN THE FIELD. PROVIDE ADEQUATE MAINTENANCE CLEARANCE AROUND EACH PIECE OF EQUIPMENT PER THE MANUFACTURER'S RECOMMENDATIONS. PROVIDE CLEARANCE IN FRONT OF ELECTRICAL PANELS AND OTHER ELECTRICAL EQUIPMENT PER THE NATIONAL ELECTRICAL CODE REQUIREMENTS. COORDINATE WITH THE ELECTRICAL AND GENERAL CONTRACTORS IN THE FIELD.
- PROVIDE WATER PROOF SEALING OF PIPE AND DUCT PENETRATIONS OF EXTERIOR WALLS, FLOORS, AND/OR ROOF.
- THE PIPING SYSTEM IS TO BE FLUSHED UNTIL CLEAN BEFORE EQUIPMENT CONNECTION.
- PIPING PENETRATING THROUGH INTERIOR WALLS IS TO BE SLEEVED. SEE DETAIL 2 ON SHEET M502.
- PIPING SHOWN ON THESE DRAWINGS IS DIAGRAMMATIC. ARRANGE IN A NEAT AND ORDERLY MANNER.
- THE CONTRACTOR IS TO COORDINATE EXISTING FLOOR DRAIN LOCATIONS IN MECHANICAL ROOMS WITH ANY EQUIPMENT LOCATED IN THE MECHANICAL ROOM.
- ALL DUCTWORK AND PIPING PENETRATING THROUGH RATED WALLS TO BE FIRE STOPPED. PENETRATIONS THROUGH FIRE RATED FLOORS AND WALLS ARE TO BE FIRE SEALED SO AS TO MAINTAIN FLOOR OR WALL INTEGRITY IN THE EVENT OF A FIRE. PENETRATIONS OF FIREWALLS, CEILINGS, FLOORS, ETC. FOR PIPING TO BE UL LISTED FIRESTOPS AND SHALL BE INSTALLED AS PER MANUFACTURER'S RECOMMENDATION. CONTRACTOR TO OBTAIN MANUFACTURER SHOP DRAWINGS AT JOBSITE FOR PENETRATIONS.
- VERIFY COLLAR SIZES ON ALL EQUIPMENT INLETS AND OUTLETS. TRANSITION DUCTWORK AS NECESSARY. EXTERNALLY INSULATE ALL TRANSITIONS AT EQUIPMENT CONNECTIONS.
- INSTALL EQUIPMENT AND DUCTWORK TO MANUFACTURERS RECOMMENDED CLEARANCES.
- PROVIDE FLEXIBLE DUCT, PIPE CONNECTIONS, AND VIBRATION ISOLATORS FOR INTERNALLY ISOLATED UNITS.
- DO NOT MOUNT DISCONNECT SWITCHES ON HVAC EQUIPMENT EXCEPT AS RECOMMENDED BY MANUFACTURER.
- ALL NEW ROUND FLEXIBLE DUCT TO BE FACTORY PRE-INSULATED. MAXIMUM LENGTH OF ANY FLEXIBLE DUCT RUNOUT TO BE 6'. WHERE LENGTH REQUIRED EXCEEDS 6', INSTALL EXTERNALLY INSULATED ROUND SNAPLOCK DUCT FOR BALANCE OF DISTANCE TO SPIN-IN TAP AT MAIN DUCT TRUNK.
- NEW SUPPLY AIR DUCTWORK EXCEPT TAKEOFFS TO SUPPLY AIR DIFFUSERS TO BE SINGLE WALL RECTANGULAR, SMACNA STATIC PRESSURE CLASS 2" W.G., SEAL CLASS A, EXTERNALLY INSULATED WITH 2" THICK FIBERGLASS DUCT WRAP. DUCT SIZES INDICATED ARE INSIDE CLEAR DIMENSIONS.
- NEW RETURN AIR DUCTWORK TO BE SINGLE WALL RECTANGULAR, SMACNA STATIC PRESSURE CLASS 2" W.G., SEAL CLASS A. DUCT SIZES INDICATED ARE INSIDE CLEAR DIMENSIONS. PROVIDE 2" THICK EXTERNAL FIBERGLASS WRAP.
- NEW OUTSIDE AIR INTAKE DUCTWORK TO BE SINGLE WALL RECTANGULAR, SMACNA STATIC PRESSURE CLASS 2" W.G., SEAL CLASS A, EXTERNALLY INSULATED WITH 2" THICK FIBERGLASS WRAP. DUCT SIZES INDICATED ARE INSIDE CLEAR DIMENSIONS.
- NEW EXHAUST AIR DUCTWORK TO BE LOW PRESSURE SINGLE WALL RECTANGULAR, SMACNA STATIC PRESSURE CLASS 2" W.G., SEAL CLASS A.
- AVOID ROUTING DUCTWORK OVER LIGHTS WHEREVER POSSIBLE. MAINTAIN MINIMUM 6" CLEARANCE BETWEEN DUCT INSULATION TO TOP OF LIGHTS.
- WORK SHALL COMPLY WITH THE FOLLOWING AGENCIES
 - 2010 FLORIDA BUILDING CODE.
 - 2010 FLORIDA MECHANICAL CODE.
 - 2010 FLORIDA PLUMBING CODE.
 - 2010 FLORIDA FUEL GAS CODE.
 - NATIONAL FIRE PROTECTION AGENCY (NFPA)
 - AMERICAN SOCIETY OF HEATING AND REFRIGERATION ENGINEERS (ASHRAE)
- TRANSFER DUCTS TO BE INTERNALLY INSULATED WITH 1" THICK ACOUSTICAL DUCT LINER. DUCT SIZES INDICATED ARE INSIDE CLEAR DIMENSIONS.
- KEEP MECHANICAL SYSTEMS TIGHT TO STRUCTURE AT ALL TIMES.
- ALL ROOF PENETRATIONS AND ROOF MOUNTED EQUIPMENT THRU AND /OR LOCATED ON THE SLOPED PORTION OF THE ROOF SHALL BE PAINTED. PAINT TO MATCH EXISTING ROOF.
- ALL PIPING LOCATIONS ARE PROVIDED FOR INFORMATIONAL PURPOSES ONLY. THE CONTRACTOR SHALL FIELD VERIFY ALL PIPING ELEVATIONS IN THE FIELD PRIOR TO FABRICATION. CONTRACTOR TO FIELD ADJUST PIPING RUNS TO COORDINATE WITH EXISTING STRUCTURAL AND BUILDING SYSTEMS AS NECESSARY.
- REFER TO SPECIFICATIONS FOR UNDERGROUND HYDRONIC PIPING, EXTERIOR HYDRONIC ABOVE GRADE PIPING, AND INTERIOR HYDRONIC PIPING MATERIALS AND INSULATIONS.
- PROVIDE ROOFTOP AIR HANDLERS WITH MANUFACTURER PROVIDED CURB IN ORDER TO FORM A COMPLETE AND MATCHED ROOFTOP SYSTEM. CURB SHALL BE PREFABRICATED, NON-COMBUSTIBLE CONSTRUCTION (MIN. 14 GA. GALVANIZED STEEL) WITH SEALING GASKET AROUND PERIMETER TO INSURE AIR/WATER TIGHT INTEGRITY. FULL PERIMETER SUPPORTED CONDENSING SECTIONS WILL NOT BE ALLOWED. COORDINATE PIPING AND POWER ENTRY LOCATION WITH OTHER TRADES. COORDINATE INSTALLATION DETAILS WITH ARCHITECTURAL.
- FOR PIPE DIAMETERS 4" AND LARGER:
 - WHERE PIPES RUN PERPENDICULAR TO JOISTS, ARRANGE PIPE SUPPORTS IN A MANNER THAT GENERALLY DISTRIBUTES THE PIPE LOAD TO ALL JOISTS DIRECTLY ABOVE THE PIPES. THIS CAN BE ACHIEVED BY SUPPORTING ALL PIPES AT EACH JOIST OR BY STAGGERING THE SUPPORTS FOR INDIVIDUAL PIPES SUCH THAT THE TOTAL LOAD IS EQUALLY DISTRIBUTED TO ALL JOISTS. THE SUSPENSION POINT SHALL OCCUR AT THE BOTTOM CHORD PANEL POINT OF THE JOISTS OR REINFORCED JOIST AS INDICATED IN THE STRUCTURAL DRAWINGS.
 - WHERE JOISTS ARE PARALLEL TO PIPE RUNS, USE L3x3x1/4 (OR APPROPRIATELY RATED UNISTRUT) SPANNING ACROSS THE BOTTOM OF THREE JOISTS AT A MINIMUM TO SUSPEND PIPES. THE SUSPENSION POINT SHALL OCCUR AT THE BOTTOM CHORD PANEL POINT OF THE JOISTS OR REINFORCED JOIST AS INDICATED IN THE STRUCTURAL DRAWINGS.

DIFFUSER/GRILLE LEGEND

	CEILING DIFFUSER (CD)	EQUAL TO TITUS OMNI-AA ALUMINUM CEILING DIFFUSER SUITABLE FOR INSTALLATION IN GYPSUM BOARD CEILINGS OR LAY-IN INSTALLATION IN TILE CEILINGS. SIZE AND AIRFLOW AS INDICATED. PROVIDE WITH SQUARE-TO-ROUND NECK TRANSITION AS REQUIRED.
	RETURN REGISTER (RAR) OR RETURN GRILLE (RAG) OR TRANSFER GRILLE (TAG) OR TRANSFER REGISTER (TAR) OR EXHAUST GRILLE (EAG) OR EXHAUST REGISTER (EAR)	EQUAL TO TITUS 350 ZF ALUMINUM REGISTER/GRILLE WITH 0° DEFLECTION AND 19mm (3/4") SPACING SUITABLE FOR SURFACE MOUNTING TO SIDEWALL GYPSUM BOARD CEILINGS OR LAY-IN INSTALLATION IN TILE CEILING. REGISTER DESIGNATION INDICATES GRILLE TO BE PROVIDED WITH OPPOSED BLADE DAMPER. SIZE AS INDICATED. FOR LAY-IN INSTALLATION, PROVIDE LAY-IN BORDER FRAME AND PROVIDE FILLER PANEL FOR CEILING TILE LOCATION.
	SUPPLY REGISTER (SAR) OR SIDEWALL SUPPLY REGISTER (SWR)	EQUAL TO TITUS 300FS ALUMINUM SUPPLY GRILLE. PROVIDE WITH OPPOSED BLADE DAMPER. SIZE AND AIRFLOW AS INDICATED. FOR LAY-IN INSTALLATION, PROVIDE LAY-IN BORDER FRAME AND PROVIDE FILLER PANEL FOR CEILING TILE LOCATION.
	EGGCRATE RETURN (EC)	EQUAL TO TITUS SOFF EGGCRATE GRILLE WITH 13x13x13 (1/2"x1/2"x1/2") CORE. SIZE AS INDICATED. FOR LAY-IN INSTALLATION, PROVIDE LAY-IN BORDER FRAME AND PROVIDE FILLER PANEL FOR CEILING TILE LOCATION.
	SOFFIT LOUVER (SFL)	SOFFIT LOUVER EQUAL TO TITUS 350 ZF WITH 0° DEFLECTION AND 19mm (3/4") SPACING SUITABLE FOR SURFACE MOUNTING TO EXTERIOR SOFFIT. ALUMINUM CONSTRUCTION WITH CLEAR ANODIZED FINISH. PROVIDE WITH INSECT SCREEN. LOUVER SIZE AS INDICATED (FACE AREA). COORDINATE OPENING WITH OTHER TRADES. COORDINATE COLOR WITH ARCHITECTURAL TO MATCH EXISTING SOFFIT.
	OUTSIDE AIR LOUVER (OAL)	LOUVER EQUAL TO GREENHECK MODEL ESD-6350 FLORIDA PRODUCT APPROVED AND MIAMI-DADE QUALIFIED STATIONARY DRAINABLE BLADE EXTRUDED ALUMINUM LOUVER. PROVIDE WITH CLEAR ANODIZED FINISH AND BIRD SCREEN. LOUVER SIZE AS INDICATED (FACE AREA) WITH A MINIMUM OF 50% FREE AREA. COORDINATE EXACT WALL OPENING WITH STRUCTURAL.

COORDINATE DIFFUSERS/GRILLES/LOUVERS COLOR REQUIREMENTS WITH ARCHITECTURAL

GENERAL PIPING NOTES

- ALL PIPING LOCATIONS ARE PROVIDED FOR INFORMATIONAL PURPOSES ONLY. THE CONTRACTOR SHALL FIELD VERIFY ALL PIPING ELEVATIONS IN THE FIELD PRIOR TO SUBMITTING A BID.
- INSULATE ALL CHILLED WATER AND HOT WATER PIPING, FITTINGS, VALVES AND ACCESSORIES (NEW & EXISTING UNCOVERED BY WORK UNDER THIS PROJECT) WITH 2" THICK CELLULAR GLASS INSULATION WITH ALL SERVICE JACKET AND VAPOR BARRIER. VAPOR BARRIER SHALL OVERLAP EXISTING JACKET WHERE NEW INSULATION ABUTS EXISTING INSULATION.
- PROVIDE ADHESIVE PIPE MARKER EVERY 50' IN EXPOSED LOCATIONS AND EVERY 25' IN CONCEALED LOCATIONS INDICATING PIPE SERVICE. PIPE MARKER COLOR SHALL BE GREEN AND INDICATE DIRECTION OF FLOW.
- BUTTERFLY VALVES SHALL BE RATED AT A MINIMUM OF 150 PSIG WOG AND SHALL PROVIDE BUBBLETIGHT SHUTOFF. VALVES SHALL HAVE LUG STYLE CAST IRON BODY, ALUMINUM BRONZE DISC, 416 STAINLESS STEEL STEM, EPDM SLEEVES, SEATS AND O-RINGS, AND GEAR OPERATOR WITH DUCTILE IRON HANDWHEEL. VALVES SHALL BE SUITABLE FOR DEAD END SERVICE AND SHALL BE MILWAUKEE 'M' SERIES. -NO EQUAL GEAR OPERATORS SHALL HAVE MEMORY POSITIONING DEVICE (TRAVEL ADJUSTMENT SCREW) FOR PERMANENT REGISTERING OF FINAL T&B SETTING. BUTTERFLY CONTROL VALVES SHALL BE SAME EXCEPT WITH PNEUMATIC OPERATOR.
- ALL BALL VALVES SHALL BE BRONZE BODY, THREADED ENDS, ALL STAINLESS STEEL TRIM, MILWAUKEE 20BSOR-02.
- PRESSURE/TEMPERATURE TEST PORTS SHALL BE BRASS BODY 1/4" MPT WITH DUAL NORDEL SEALS AND BRASS CAP W/RETAINER STRAP, FLOW DESIGN INC. SUPERSEAL. PROVIDE 2-3/4" LENGTH FOR INSULATED PIPING AND 1-1/4" LENGTH FOR NON-INSULATED PIPING. INSTALL P/T PORTS IN GALVANIZED MALLEABLE IRON SCREWED REDUCING TEE IN STEEL PIPING SIZE 2" AND SMALLER. INSTALL P/T PORTS IN FORGED STEEL THREDOLETS OR WELDED REDUCING TEE IN PIPING SIZE 2 1/2" AND LARGER. HALF COUPLINGS ARE NOT ALLOWABLE. MOUNT P/T PORTS IN VERTICAL POSITION.
- THE USE OF BUSHINGS AND CLOSE NIPPLES FOR THREADED CONNECTIONS OF ANY KIND IS NOT ALLOWABLE.
- NEW CHILLED WATER, HOT WATER AND INDOOR CONDENSER WATER PIPING TO BE DOMESTIC MADE SCHEDULE 40 STEEL. PROVIDE FLANGED, WELDED, OR GROOVED END CONNECTIONS.
- OUTDOOR CONDENSER WATER PIPING SHALL BE SCHEDULE 40 PVC. PAINT NEW PIPE WITH UV RESISTANT COATING AND PROVIDE WITH STEEL JACKET TO MATCH EXISTING. PROVIDE FLANGED, WELDED, OR GROOVED END CONNECTIONS.
- PROVIDE PIPE CONNECTIONS AND VIBRATION ISOLATORS FOR INTERNALLY ISOLATED MECHANICAL EQUIPMENTS.
- COMPLY WITH MSS SP-58 (PIPE HANGERS AND SUPPORTS-MATERIALS, DESIGN, AND MANUFACTURE), MSS SP-69 (PIPE HANGERS AND SUPPORTS-SELECTION AND APPLICATION), MSS SP-89 (PIPE HANGERS AND SUPPORTS-FABRICATION AND INSTALLATION) FOR PIPE HANGER SELECTIONS AND APPLICATIONS.
- PROVIDE WALL SLEEVE AND ESCUTCHEON PLATES FOR ALL WALL PIPING PENETRATIONS. GALVANIZED STEEL SHEET SLEEVES. PROVIDE A MINIMUM 1" ANNULAR SPACE. PROVIDE CONTINUOUS INSULATION THROUGH SLEEVE.
- ALL PIPING PENETRATIONS (FIRE WALLS, CEILINGS, FLOORS) SHALL BE UL LISTED FIRESTOPS AND SHALL BE INSTALLED AS PER MANUFACTURER'S RECOMMENDATION. CONTRACTOR SHALL OBTAIN MANUFACTURER SHOP DRAWINGS AT JOBSITE FOR ALL PENETRATIONS.
- SLOPE ABOVE CEILING WASTE LINE MIN. 1/8" PER FOOT. SEE FLOOR PLAN FOR SIZE AND ROUTING. INSULATE ABOVE CEILING WASTE PIPING PER SPECIFICATIONS. PROVIDE ABOVE CEILING CAST IRON BODY HUB DRAIN (HD) WITH BOTTOM OUTLET AND WATERLESS TRAP GUARD. SIZE AS INDICATED. BASIS OF DESIGN IS ZURN.
- PROVIDE HEAT TRACE AND POWER FOR ALL NEW WEATHER EXPOSED INSULATED CHILLED WATER PIPING. REFER TO SHEET M103.

GENERAL PHASING NOTES

- WORK UNDER THIS PROJECT CONSISTS OF PHASE III OF THE GULF BREEZE HIGH SCHOOL HVAC RENOVATION AND WILL BE THE FINAL PHASE OF THIS CONSTRUCTION PROJECT. PHASE I AND II ARE NOT INCLUDED IN THIS CONTRACT.
- ALL WORK WHICH REQUIRES POWER OUTAGE SHUTDOWN SHALL BE COMPLETED IN A CONSECUTIVE 24 HOUR PERIOD. THE WORK SHALL BE COMMENCED AT 7:00 AM ON THE SHUTDOWN DAY AND SHALL BE COMPLETED AT OR BEFORE 7:00 AM ON THE FOLLOWING DAY. COORDINATE WITH OWNER.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING AND DELIVERING TO THE SITE ALL EQUIPMENT, PIPING, VALVES, ACCESSORIES AND OTHER MATERIALS REQUIRED FOR COMPLETION OF THE SHUTDOWN WORK IN THE SPECIFIED TIME PERIOD. THE CONTRACTOR IS ENCOURAGED TO UTILIZE PREFABRICATED PIPING ASSEMBLIES TO THE MAXIMUM EXTENT PRACTICABLE.
- THE OWNER WITH THE ASSISTANCE OF THE PLANT MANUFACTURER REPRESENTATIVE WILL SHUT DOWN THE CENTRAL PLANT AND THE CONTRACTOR SHALL DRAIN THE HOT WATER SYSTEM PRIOR TO THE COMMENCEMENT OF WORK ON THE SHUTDOWN DAY.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR REFILLING THE SYSTEM AND LEAK TESTING THE PIPING PRIOR TO COMPLETION OF SHUTDOWN WORK.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR VENTING AIR FROM THE SYSTEM AND ASSISTING THE OWNER IN RESTARTING THE SYSTEM FOLLOWING COMPLETION OF SHUTDOWN WORK AT 7:00 AM ON THE DAY FOLLOWING THE SHUTDOWN DAY.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING AND DELIVERING TO THE SITE ALL EQUIPMENT, PIPING, VALVES, ACCESSORIES AND OTHER MATERIALS REQUIRED FOR COMPLETION OF THE SHUTDOWN WORK IN THE SPECIFIED TIME PERIOD. THE CONTRACTOR IS ENCOURAGED TO UTILIZE PREFABRICATED PIPING ASSEMBLIES TO THE MAXIMUM EXTENT PRACTICABLE.
- RE-INSULATION WORK, CLEAN-UP, AND OTHER TASKS NOT REQUIRING SYSTEM SHUTDOWN SHALL BE ACCOMPLISHED WITHIN 3 WORKING DAYS OF SUCCESSFUL SYSTEM START-UP.
- REFER TO SPECIFICATIONS FOR SPECIFIC PROJECT SCHEDULE MILESTONES.

ULTRAVIOLET DISINFECTION SYSTEM (FOR RTU-4)

UV-C FIXTURING - FIXTURING SHALL CONSIST OF A POWER SUPPLY, POWER SUPPLY HOUSING, "PLENUM RATED" WIRING LOOM, LAMP PLUG, LAMP-PLUG PROTECTOR AND ENCAPSULATED LAMP WITH ADJUSTABLE LAMP RETAINING DEVICE.

POWER SUPPLY - POWER SUPPLY SHALL BE CSA AND UL LISTED AS A VARIABLE INPUT TYPE (120-277 VAC +/- 10%), 50-60 HZ WITH A PROGRAMMED RAPID START. SUPPLY SHALL BE DESIGNED AS HIGH POWER FACTOR, CLASS P, SOUND RATED "A", TYPE 1 OUTDOOR AND WITH INHERENT THERMAL PROTECTION AND NO PCB'S. SUPPLY SHALL BE CAPABLE OF PRODUCING THE SPECIFIED OUTPUT AND ORGANISM DESTRUCTION AT NOT MORE THAN 15 WATTS OF POWER CONSUMPTION FOR EACH SQUARE FOOT OF TREATED, CROSS SECTIONAL AREA. THE POWER SUPPLY SHALL BE CAPABLE OF PROPERLY POWERING 1-145W UV-C LAMP OR 1- OR 2- 75W UV-C LAMPS WHILE ENSURING AT LEAST 9000 HOURS OF LAMP LIFE, AND WITH GREATER THAN 85% OF ITS INITIAL OUTPUT, AT THE LAMPS "END OF LAMP LIFE" PHASE. POWER SUPPLY SHALL BE PROTECTED AGAINST "END OF LAMP LIFE" CONDITIONS, WARRANTED FOR 5 YEARS, AND BE LABELED FOR FIELD WIRING.

POWER SUPPLY HOUSING - SHALL BE CONSTRUCTED OF 20GA GALVANIZED, POWDER COATED STEEL AND DESIGNED TO FACILITATE NEC REGULATED POWER SUPPLY INSTALLATION OUTSIDE PLENUMS. EACH HOUSING SHALL BE CAPABLE OF PROPERLY HOLDING, GROUNDING AND WIRING EITHER FOUR OR EIGHT BALLASTS WITHIN TO PROTECT AGAINST ELECTRICAL SHOCK AND MOISTURE, AS WELL AS RF AND EMI LEAKS.

PLENUM RATED WIRING LOOM - SHALL BE OF SUFFICIENT LENGTH TO FACILITATE LAMP CONNECTION TO A REMOTELY LOCATED POWER SUPPLY. THE LAMP AND LOOM SHALL BE CAPABLE OF BEING MOUNTED ANYWHERE IN THE SYSTEM AND/OR AS SHOWN ON THE DRAWINGS. THE LOOM SHALL MEET UL SUBJECT 13 AND UL 1581, AND ARTICLE 725 OF THE NEC. THE LOOM JACKET SHALL BE CONSTRUCTION OF UV-C RESISTANT MATERIALS AND SHALL HAVE AN INTERNAL ALUMINUM/MYLAR SHIELD.

LAMP PLUG - SHALL BE OF THE 4-PIN TYPE CAPABLE OF ACCOMMODATING A SINGLE-ENDED HO LAMP.

LAMP-PLUG PROTECTOR - SHALL BE OF UV RESISTANT MATERIALS AND DESIGNED TO SHRINK 3-1 OVER THE LAMP PLUG AND WIRING LOOM FOR PROTECTION AGAINST ELECTRICAL SHOCK, MOISTURE AND SEPARATION.

EACH LAMP PLUG AND PLENUM RATED WIRING LOOM CONNECTION SHALL HAVE A UVC RESISTANT, ELASTIC PLUG/UV TO ENSURE A WATER TIGHT CONNECTION AND SEAL BETWEEN ANY SINGLE-ENDED LAMP AND WIRING LOOM LAMP PLUG TO PREVENT ELECTRICAL SHOCK, CONNECTION SHORTS AND/OR LAMP OR BALLAST FAILURE FROM LAMP PIN OXIDATION OR PIN ARCING.

LAMP RETAINING DEVICE - MAY BE SINGLE OR DUAL TYPES, MAGNETICALLY OR PERMANENTLY AFFIXED WITHIN THE IRRADIATED CAVITY AND CONSTRUCTED OF UVC RESISTANT MATERIALS AND PROVIDE FOR MAXIMUM FLEXIBILITY IN QUICK LAMP POSITIONING, REMOVAL AND HOLDING POWER.

LAMPS - EACH LAMP SHALL CONTAIN LESS THAN 8 MILLIGRAMS OF MERCURY AND SHALL BE HERMETICALLY LAMINATED WITH A THIN LAYER OF UV-C TRANSMISSIBLE MATERIAL TO PROVIDE PROTECTION AGAINST LAMP BREAKAGE AND TO ENSURE LAMP CONTENTS FROM A BROKEN LAMP ARE CONTAINED. LAMP LIFE SHALL BE 9000 HOURS WITH NO MORE THAN A 15% OUTPUT LOSS AT THE END OF THE LAMPS LIFE. LAMPS SHALL BE CONSTRUCTED WITH UV-C PROOF MATERIAL BASES AND SHALL NOT PRODUCE OZONE.

IRRADIATION - FIXTURELESS LAMPS ARE TO BE INSTALLED IN SUFFICIENT QUANTITY AND IN SUCH A MANNER SO AS TO PROVIDE AN EQUAL DISTRIBUTION OF THE AVAILABLE UV-C ENERGY. WHEN INSTALLED, THE UV-C ENERGY PROVIDED SHALL BE OF THE LOWEST POSSIBLE REFLECTED AND SHADOWED LOSSES AND SHALL BE DISTRIBUTED IN A 360 DEGREE PATTERN WITHIN THE CAVITY TO PROVIDE THE HIGHEST UV-C ENERGY ABSORPTION BY MICROBIAL PRODUCTS IN THE AIR.

INTENSITY - THE MINIMAL UV-C ENERGY STRIKING A SURFACE SHALL BE SUFFICIENT TO CONTINUOUSLY DESTROY A MONO-LAYER OF MOLD AND/OR BACTERIA IN LESS THAN ONE HOUR WHILE OPERATING IN AIR TEMPERATURES OF 1-70°C.

INSTALLATION - THE BALLAST HOUSING SHALL BE CAPABLE OF INSTALLATION WITHIN THE AIR STREAM AND/OR WITHIN A POWER SUPPLY HOUSING. LAMPS SHALL BE MOUNTED TO IRRADIATE THE INTENDED SURFACE(S) AS WELL AS ALL OF THE AVAILABLE LINE OF SIGHT AIR STREAM THROUGH PROPER LAMP PLACEMENT AND INCIDENT ANGLE REFLECTION.

SAFETY - TO PROTECT PERSONNEL, ALL ACCESS PANELS AND DOORS TO ANY UV-C ASSEMBLY AND/OR WITHIN VIEW OF ANY UV-C ASSEMBLY SHALL INCLUDE MECHANICAL INTERLOCK SWITCH TO INSURE THAT ALL UV-C ASSEMBLIES WILL BE DE-ENERGIZED WHEN ANY OF THESE ACCESSSES ARE OPENED. THIS SHALL BE IN ADDITION TO THE MANUAL DISCONNECT SWITCH MOUNTED OUTSIDE THE AIR HANDLING UNIT CASING.

DEMOLITION NOTES

- ALL DEMOLISHED ITEMS NOT SPECIFICALLY INDICATED TO BE REUSED SHALL BE REMOVED FROM THE OWNER'S PROPERTY AND LEGALLY DISPOSED OF BY THE CONTRACTOR AS PART OF WORK UNDER THIS CONTRACT.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR TEMPORARILY AND PERMANENT WEATHERPROOFING OF THE INSTALLATION. THE CONTRACTOR SHALL BE FULLY LIABLE FOR ANY WATER DAMAGE OR OTHER DAMAGE FROM THE ELEMENTS CAUSED TO THE OWNER'S PROPERTY AS A RESULT OF THE CONTRACTOR'S FAILURE TO PROVIDE THE NECESSARY WEATHERPROOFING DURING THE COURSE OF WORK UNDER THIS CONTRACT.
- DRAWINGS SHOWING EXISTING ROOF CURBS, DUCTWORK CONNECTIONS, ELECTRICAL CONNECTIONS, AND FUEL GAS PIPING CONNECTIONS ARE DIAGRAMMATIC AND ARE INTENDED ONLY TO DEPICT THE GENERAL ARRANGEMENT, APPROXIMATE SIZE, AND OVERALL PROXIMITY OF THE EXISTING SYSTEM ELEMENTS. EACH CONTRACTOR AND SUBCONTRACTOR SHALL BE RESPONSIBLE FOR VISITING THE SITE OF WORK TO VERIFY EXISTING CONDITIONS PRIOR TO COMMENCING THE CONSTRUCTION.
- THE CONTRACTOR SHALL ADDITIONALLY BE RESPONSIBLE FOR MAKING ACCURATE FIELD MEASUREMENTS OF ALL EXISTING CONDITIONS RELATING TO THE DESIGN AND INSTALLATION OF NEW MECHANICAL EQUIPMENT, PIPING, DUCTWORK, ETC PRIOR TO COMMENCING WORK. PROPER SIZING OF THE PHYSICAL ASPECTS OF NEW EQUIPMENT TO MATCH EXISTING SITE CONDITIONS SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
- UNLESS NOTED OTHERWISE, ANY AND ALL DAMAGE TO THE EXISTING BUILDING SITE, EXTERIOR BUILDING FINISHES, BUILDING STRUCTURE, BUILDING SYSTEMS (MECHANICAL, ELECTRICAL, ETC.), INTERIOR BUILDING FINISHES, OR BUILDING FURNISHINGS CAUSED BY THE CONTRACTOR DURING THE COURSE OF WORK UNDER THIS CONTRACT SHALL BE REPLACED AND/OR REPAIRED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER. REPLACEMENT AND/OR REPAIR OF DAMAGED ITEMS SHALL BE MADE TO THE COMPLETE SATISFACTION OF THE OWNER, AND AS A MINIMUM SHALL RETURN THE DAMAGED ITEMS TO THE CONDITION IN WHICH THEY WERE FOUND PRIOR TO THE COMMENCEMENT OF THIS WORK.
- PLACEMENT OF EQUIPMENT AND MATERIALS REQUIRED FOR THIS WORK SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
- ACCORDINGLY, THE CONTRACTOR SHALL INCLUDE IN HIS BID THE COST OF PROPER PLACEMENT MACHINERY AND EQUIPMENT. THE CONTRACTOR SHALL BE FULLY LIABLE FOR ANY DAMAGE CAUSED TO THE BUILDING OR BUILDING SITE (AS NOTED ABOVE) DURING EQUIPMENT PLACEMENT OPERATIONS. THIS INCLUDES BUT IS NOT LIMITED TO DAMAGE TO SITE ITEMS SUCH AS LANDSCAPING, GRASSING, SIDEWALKS, AND EXTERIOR LIGHTING.
- THE CONTRACTOR SHALL SUBMIT A WRITTEN REQUEST FOR OUTAGES OF ELECTRICAL POWER, AIR CONDITIONING/HEATING, ETC. TO THE OWNER NOT LESS THAN 10 WORKING DAYS PRIOR TO THE DATE PLANNED FOR SUCH OUTAGES. ALL OUTAGES SHALL REQUIRE THE PRIOR WRITTEN APPROVAL OF THE OWNER'S AUTHORIZED REPRESENTATIVE.
- REMOVE INDICATED UNITS AND IMMEDIATELY COMPLETE THE FOLLOWING WORK:
 - REMOVE NATURAL GAS PIPING BACK TO ELBOW AT ROOF LEVEL AND CAP GAS-TIGHT.
 - REMOVE CONDENSATE DRAIN PIPING.
 - CAP EXISTING ROOF CURBS AS INDICATED. SEE STRUCTURAL AND ARCHITECTURAL FOR COORDINATION.
 - COORDINATE WITH ELECTRICAL CONTRACTOR FOR TERMINATING POWER PROCEDURES.
- EXISTING UNUSED SUPPLY OR RETURN AIR REGISTER TO BE REMOVED. REMOVE ITS ASSOCIATED FLEX DUCT AND CAP ALL DUCT OPENINGS TIGHT. PROVIDE CEILING OPENING WITH CEILING TILES TO MATCH EXISTING.
- ABANDON, CAP AND/OR REMOVE EXISTING UNUSED SUPPLY DUCTWORK FROM DEMOLISHED PACKAGED DX ROOFTOP UNIT. REMOVE AS NECESSARY TO EASE NEW WORK CONSTRUCTION.
- CLEAN ALL RE-USED EXISTING DIFFUSER/REGISTER.
- REMOVE CEILING TILES AS NECESSARY TO INSTALL NEW DUCTWORK. CEILING TILES TO BE STORED AND REUSED. SEE NEW WORK FOR EXTENT OF NEW DUCTWORK. CARE SHALL BE TAKEN NOT TO DAMAGE ANY FURNITURE AND EQUIPMENT IN THIS SPACE. COORDINATE WITH ARCHITECTURAL FOR CEILING TILES SCOPE OF WORK.
- INFORMATION INDICATING LOCATION OF EXISTING DUCTWORK, CEILING DIFFUSERS AND RETURN REGISTERS WAS OBTAINED FROM EXISTING AS BUILT DRAWINGS AND SITE VISITS AND ARE REPRESENTATIVE OF THE BEST AVAILABLE SOURCE TO DATE.
- PRIOR TO CONSTRUCTION, CONTRACTOR SHALL VERIFY DUCTWORK AND PIPING LOCATION AND SIZE.
- CONTRACTOR SHALL CUT ANY AREAS NECESSARY TO PERFORM WORK AND PATCH TO MATCH EXISTING. COORDINATE WALL OR FLOOR FINISH WITH ARCHITECTURAL.
- PRIOR TO SUBSTANTIAL, CONTRACTOR SHALL PATCH OR REPLACE ALL DAMAGED WALL, CEILING, AND FLOOR DURING CONSTRUCTION TO MATCH EXISTING, IF ANY, OR NEW WORK. COORDINATE WITH ARCHITECTURAL.
- ALL REMOVED MECHANICAL ASSOCIATED ITEMS REMOVED SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE TRANSFERRED FROM JOB SITE, EXCEPT ITEMS SELECTED BY OWNER AND THESE ITEMS SHALL BE RELOCATED TO STORAGE AREA DESIGNATED BY THE SCHOOL DISTRICT.
- CONTRACTOR SHALL NOT DISRUPT EXISTING UTILITY SERVICES WITHOUT ASCERTAINING WRITTEN PERMISSION FROM OWNER. REQUIRED OUTAGES OR SHUTDOWNS SHALL BE KEPT TO A MINIMUM AND SHALL BE PERFORMED WITHIN A PREDETERMINED TIME FOR DURATION OF SHUT-DOWN.
- UNLESS NOTED OR SHOWN OTHERWISE, ALL EXISTING UTILITY SERVICES SHALL REMAIN INTACT AND ACTIVE TO FACILITATE REVISED CONDITIONS.
- CONTRACTOR TO REUSE EXISTING CEILING TILES AT LOCKER ROOMS. EXISTING REMOVED DUCTED CEILING SUPPLY GRILLES AND REGISTER TO BE REPLACED WITH EXISTING CEILING TILES FROM LIBRARY. COORDINATE WITH OWNER.



SEAL

NOT FOR CONSTRUCTION

REVISION
DESCRIPTION

REVISION
NUMBER

GULF BREEZE HIGH SCHOOL
HVAC RENOVATION PH. III
SANTA ROSA COUNTY SCHOOL DISTRICT

DESIGNED BY:
AL

DRAWN BY:
AL

CHECKED BY:
WJJ

DATE:
JUNE 9, 2015

SHEET TITLE:

MECHANICAL
NOTES

SHEET:

M002

PHASE 2 - DESIGN
DEVELOPMENT SUBMITTAL

DESIGN CONDITIONS						
	OUTSIDE		INSIDE (OCCUPIED)		INSIDE (UNOCCUPIED)	
	DB (DEG. F)	WB (DEG. F)	DB (DEG. F)	RH	DB (DEG. F)	RH
	SUMMER 93	81	75	50%	78	50%
WINTER	31	-	68	-	65	-

NOTES:

1. INSIDE SUMMER DESIGN TEMPERATURE IS +0/-2 DEG. F.
2. INSIDE SUMMER DESIGN RELATIVE HUMIDITY IS + 10%.
3. INSIDE WINTER DESIGN TEMPERATURE IS +2/-0 DEG. F.

HYDRONIC ROOFTOP AIR HANDLING UNIT SCHEDULE																														
MARK	LOCATION	FAN DATA										CHILLED WATER COIL DATA										HOT WATER COIL DATA								
		AIR VOLUME CONTROL	MAX. AIRFLOW (CFM)	MIN. AIRFLOW (CFM)	MAX. HEATING AIRFLOW (CFM)	MIN. OA AIRFLOW (CFM)	MAX. OA AIRFLOW (CFM)	E.S.P. (IN. W.G.)	ELECTRICAL DATA				MAX. FACE VEL. (FPM)	MIN. TOTAL CAP. (MBH)	MIN. SENS. CAP. (MBH)	MIN. LATENT CAP. (MBH)	AIR SIDE		WATER SIDE				MAX. FACE VEL. (FPM)	MIN. TOTAL CAP. (MBH)	AIR SIDE		WATER SIDE			
									FAN HP	FAN QTY	TOTAL FAN HP	VOLTS/PH/H Z					ENT. AIR TEMP. (DEG. F) DB/WB	LVG. AIR TEMP. (DEG. F) DB/WB	ENT. WATER TEMP. (DEG. F)	LVG. WATER TEMP. (DEG. F)	GPM	MAX. WATER PRESS. DROP (FT. W.C.)			ENT. AIR TEMP. DB (DEG. F)	LVG. AIR TEMP. DB (DEG. F)	ENT. WATER TEMP. (DEG. F)	LVG. WATER TEMP. (DEG. F)	GPM	MAX. WATER PRESS. DROP (FT. W.C.)
RTU-4	GYM	SZ-VAV	26,000	7,800	26,000	1,000	4,400	1.5	7.5	4	30	460/3/60	500	1,063.4	622.3	441.1	76.0	66.7	44	56	177.2	15	500	780.0	63.1	90.0	130	100	52.0	10

NOTES:

1. MANUFACTURER SHALL ALLOW A MINIMUM OF 0.5" EXTRA STATIC FOR DIRTY INITIAL FILTERS.
2. EXTERNAL STATIC DOES NOT INCLUDE PRESSURE DROP THROUGH CASING COILS, INITIAL FILTERS, FILTER HOUSINGS, AND HYDRONIC COILS.
3. INSTALL UNIT IN STRICT ACCORDANCE WITH THE MFR'S PRINTED INSTRUCTIONS AND APPLICABLE CODES AND STANDARDS.
4. PROVIDE EXTENDED LUBE LINES TO OUTSIDE OF UNIT CASING ON THE SIDE WHICH IS ACCESSIBLE FOR SERVICING ON ALL UNITS.
5. PROVIDE FACTORY MOUNTED FIRE STATS TO SHUT UNIT DOWN UPON DETECTION OF EXCESSIVE HEAT IN THE SUPPLY SIDE DISCHARGE OF UNIT.
6. INTERLOCK AHU'S TO ENABLE FAN SHUTDOWN UPON AN INDICATION OF ALARM CONDITION BY THE BLDG. FIRE ALARM SYSTEM.
7. PROVIDE 5-YEAR MANUFACTURER'S WARRANTY.
8. PROVIDE SINGLE POWER POINT CONNECTION FOR EACH RTU. COORDINATE POWER REQUIREMENTS WITH ELECTRICAL.
9. SUPPLY FAN SHALL HAVE CAPACITY TO REDUCE FAN CAPACITY TO 2/3 OF MAXIMUM AIRFLOW.
10. SVAV - SINGLE ZONE VARIABLE AIR VOLUME.
11. PROVIDE UNIT WITH VFD - VARIABLE SPEED DRIVE. SEE MECHANICAL SPECIFICATIONS FOR VFD REQUIREMENTS.
12. PROVIDE 2" PLEATED MERV 8 FILTER. MAXIMUM FILTER VELOCITY EQUAL TO 350 FPM.
13. AIR HANDLER FILTERS SHALL BE AS PER ASHRAE 62-2007. PROVIDE FILTER DIFFERENTIAL PRESSURE GAUGE.
14. PROVIDE WITH UVC (ULTRA VIOLET C-BAND) DISINFECTION SYSTEM ON DISCHARGE SIDE OF CHILLED WATER COIL. SEE SHEET M002 FOR UV SPECIFICATIONS.
15. PROVIDE WITH MANUFACTURER SMOKE DETECTOR ON THE SUPPLY AND RETURN SECTION.
16. PROVIDE MANUFACTURER ROOF CURB AND WIND STRAPPING FOR 150 MPH. REFER TO STRUCTURAL FOR CURB DETAILS.
17. PROVIDE UNIT MOUNTED WEATHERPROOF DISCONNECT.
18. CHILLED WATER CONTROL VALVE SHALL BE TWO WAY TYPE. HOT WATER CONTROL VALVE SHALL BE TWO-WAY TYPE.
19. CONTROL VALVE CV TO BE CALCULATED AT THE SCHEDULED WATER FLOW WITH A VALVE AUTHORITY OF 0.5 BY CONTROLS SUB-CONTRACTOR.
20. CHILLED WATER COIL SHALL BE MINIMUM OF 6 ROW COILS. HOT WATER COIL SHALL BE MINIMUM OF 2 ROW COILS.
21. PROVIDE RTU-4 WITH WALL MOUNTED CO2 SENSOR. SEE CONTROLS DWGS.
22. COORDINATE SEQUENCE OF DEMAND CONTROL VENTILATION WITH CONTROLS CONTRACTOR. SEE SEQUENCE OF OPERATIONS.
23. REFER TO DETAILS ON SHEET M505.
24. TRAP CONDENSATE PIPING AT UNIT AND ROUTE TO EXISTING ROOF DRAIN LEADER.
25. BASIS OF DESIGN FOR IS DAIKIN APPLIED.

AIR HANDLING UNIT SCHEDULE																														
MARK	LOCATION	FAN DATA								CHILLED WATER COIL DATA										HOT WATER COIL DATA										
		AIR VOLUME CONTROL	MAX. AIRFLOW (CFM)	MIN. AIRFLOW (CFM)	MAX. HEATING AIRFLOW (CFM)	MIN. OA AIRFLOW (CFM)	MAX. OA AIRFLOW (CFM)	E.S.P. (IN. W.G.)	ELECTRICAL DATA		MAX. FACE VEL. (FPM)	MIN. TOTAL CAP. (MBH)	MIN. SENS. CAP. (MBH)	MIN. LATENT CAP. (MBH)	AIR SIDE				WATER SIDE				MAX. FACE VEL. (FPM)	MIN. TOTAL CAP. (MBH)	AIR SIDE		WATER SIDE			
									FAN HP	VOLTS/PH/H Z					ENT. AIR TEMP. DB (DEG. F)	ENT. AIR TEMP. WB (DEG. F)	LVG. AIR TEMP. DB (DEG. F)	LVG. AIR TEMP. WB (DEG. F)	ENT. WATER TEMP. (DEG. F)	LVG. WATER TEMP. (DEG. F)	GPM	MAX. WATER PRESS. DROP (FT. W.C.)			ENT. AIR TEMP. DB (DEG. F)	LVG. AIR TEMP. DB (DEG. F)	ENT. WATER TEMP. (DEG. F)	LVG. WATER TEMP. (DEG. F)	GPM	MAX. WATER PRESS. DROP (FT. W.C.)
AHU-2	GYM LOBBY	SZ-VAV	5,500	1,650	5,500	N/A	1,500	1.0		460/3/60	500	206.6	146.8	59.8	78.6	65.6	54.5	53.2	44	56	34.4	15	500	191.5	58.5	90.0	130	100	12.8	10
AHU-3	BAND BLDG	SZ-VAV	3,300	800	3,300	200	800	1.0		460/3/60	500	124.3	84.5	39.8	77.9	65.9	54.5	53.3	44	56	20.7	15	500	108.3	60.0	90.0	130	100	7.2	10
AHU-4	BAND BLDG	SZ-VAV	1,600	800	1,600	N/A	200	1.0		460/3/60	500	44.1	36.0	8.1	75.3	62.3	54.5	52.5	44	56	7.4	15	500	42.9	65.2	90.0	130	100	2.9	10

NOTES:

1. MANUFACTURER SHALL ALLOW A MINIMUM OF 0.5" EXTRA STATIC FOR DIRTY INITIAL FILTERS. EXTERNAL STATIC DOES NOT INCLUDE PRESSURE DROP THROUGH CASING COILS, INITIAL FILTERS, AND FILTER HOUSINGS.
2. PROVIDE EXTENDED LUBE LINES TO OUTSIDE OF UNIT CASING ON THE SIDE WHICH IS ACCESSIBLE FOR SERVICING ON ALL UNITS.
3. INSTALL UNIT IN STRICT ACCORDANCE WITH THE MFR'S PRINTED INSTRUCTIONS AND APPLICABLE CODES AND STANDARDS.
4. PIPE ALL CONDENSATE FROM UNITS TO DRAIN WITH TRAP. PROVIDE PADS AND BASE RAILS OF SUFFICIENT HEIGHT TO ENABLE CORRECT TRAP DEPTH.
5. PROVIDE FACTORY MOUNTED FIRE STATS TO SHUT UNIT DOWN UPON DETECTION OF EXCESSIVE HEAT IN THE SUPPLY SIDE DISCHARGE OF UNIT.
6. INTERLOCK AHU'S TO ENABLE FAN SHUTDOWN UPON AN INDICATION OF ALARM CONDITION BY THE BLDG. FIRE ALARM SYSTEM.
7. TRAP CONDENSATE PIPING AT UNIT AND ROUTE TO POINT INDICATED. SEE DETAIL 1 ON SHEET M502 FOR TYPICAL CONDENSATE DRAIN TRAP.
8. CHILLED WATER CONTROL VALVE SHALL BE TWO WAY TYPE. HOT WATER CONTROL VALVE SHALL BE TWO-WAY TYPE.
9. CONTROL VALVE CV TO BE CALCULATED AT THE SCHEDULED WATER FLOW WITH A VALVE AUTHORITY OF 0.5 BY CONTROLS SUB-CONTRACTOR.
10. CHILLED WATER COIL SHALL BE MINIMUM OF 6 ROW COILS. HOT WATER COIL SHALL BE MINIMUM OF 2 ROW COILS.
11. AIR HANDLER FILTERS SHALL BE AS PER ASHRAE 62-2007. PROVIDE FILTER DIFFERENTIAL PRESSURE GAUGE.
12. ADJUST LOCATION OF UNITS IN MECHANICAL ROOMS AS REQUIRED FOR SERVICE AS RECOMMENDED BY MANUFACTURER. COORDINATE ACCESS DOOR LOCATION FOR UNIT ACCESS.
13. NEW UNITS MAY REQUIRE DISASSEMBLY AND REASSEMBLY IN THE MECHANICAL ROOM.
14. INTERLOCK AHU'S TO ENABLE FAN SHUTDOWN UPON AN INDICATION OF ALARM CONDITION BY THE BLDG. FIRE ALARM SYSTEM.
15. VOT - VERTICAL DRAW THRU; SZ-VAV - SINGLE ZONE VARIABLE AIR VOLUME.
16. PROVIDE UNIT WITH VFD - VARIABLE SPEED DRIVE. SEE MECHANICAL SPECIFICATIONS FOR VFD REQUIREMENTS.
17. COORDINATE POWER REQUIREMENTS WITH ELECTRICAL.
18. COORDINATE SEQUENCE OF DEMAND CONTROL VENTILATION WITH CONTROLS CONTRACTOR. SEE SEQUENCE OF OPERATIONS.
19. PROVIDE 2" PLEATED MERV 8 FILTER. MAXIMUM FILTER VELOCITY EQUAL TO 350 FPM.
20. PROVIDE WITH RA DUCT MOUNT CO2 SENSOR. SEE CONTROLS DWGS.
21. PROVIDE WITH UVC (ULTRA VIOLET C-BAND) DISINFECTION SYSTEM ON DISCHARGE SIDE OF CHILLED WATER COIL. SEE SHEET M002 FOR UV SPECIFICATIONS.
22. BASIS OF DESIGN IS DAIKIN APPLIED.



SEAL

NOT FOR CONSTRUCTION

REVISION DESCRIPTION

REVISION NUMBER

GULF BREEZE HIGH SCHOOL
HVAC RENOVATION PH. III
SANTA ROSA COUNTY SCHOOL DISTRICT

DESIGNED BY:
AL

DRAWN BY:
AL

CHECKED BY:
WJJ

DATE:
JUNE 9, 2015

SHEET TITLE

MECHANICAL
SCHEDULES

SHEET:

M003

PHASE 2 - DESIGN
DEVELOPMENT SUBMITTAL

FAN COIL UNIT SCHEDULE																						
MARK	(SEE NOTE 9 TO 12) TYPE	FAN CFM	MIN. OA CFM	OA COOLING COIL DATA (PRECONDITIONED)										OA HEATING COIL DATA (PREHEAT)								
				MIN. TOTAL CAP. (MBH)	MIN. SENS. CAP. (MBH)	MIN. LAT. CAP. (MBH)	ENT. AIR TEMP. (DEG F)		LVG. AIR TEMP. (DEG F)	WATER TEMP. (DEG F)		GPM	CONTROL VALVE TYPE	MAX. PRESS. DROP (FT. W.C.)	MIN. TOTAL CAP. (MBH)	AIR TEMP. (DEG F)		WATER TEMP. (DEG F)		GPM	CONTROL VALVE TYPE	MAX. PRESS. DROP (FT. W.C.)
							DB	WB		EWT	LWT					EAT	LAT	EWT	LWT			
FCU 4-1	VDT	1300	440	34.9	17.9	17.0	93/81	55/54	44	56	5.8	2-WAY	5	12.4	29	55	130	100	0.8	2-WAY	5	

FAN COIL UNIT SCHEDULE (CONTINUED)																					
MARK	COOLING COIL DATA (PRIMARY)										HEATING COIL DATA (REHEAT)						ELECTRICAL DATA				
	MIN. TOTAL CAP. (MBH)	MIN. SENS. CAP. (MBH)	MIN. LAT. CAP. (MBH)	ENT. AIR TEMP. (DEG F)	LVG. AIR TEMP. (DEG F)	WATER TEMP. (DEG F)		GPM	CONTROL VALVE TYPE	MAX. PRESS. DROP (FT. W.C.)	MIN. TOTAL CAP. (MBH)	AIR TEMP. (DEG F)		WATER TEMP. (DEG F)		GPM	CONTROL VALVE TYPE	MAX. PRESS. DROP (FT. W.C.)	SA FAN POWER (HP)	OA FAN POWER	V/PH/HZ
				DB/WB	DB/WB	EWT	LWT					EAT	LAT	EWT	LWT						
FCU 4-1	23.8	18.0	5.8	66/60	55/53	44	56	4.0	2-WAY	5	34.5	65	90	130	100	2.3	2-WAY	5	3/4	1/8	208/1/60

- NOTES:
- MANUFACTURER SHALL ALLOW A MINIMUM OF 0.5" EXTRA STATIC FOR DIRTY INITIAL FILTERS.
EXTERNAL STATIC DOES NOT INCLUDE PRESSURE DROP THROUGH COILS AND FILTERS LOCATED INSIDE FAN COIL UNIT.
 - PROVIDE WITH FACTORY CONTROL VALVE PACKAGE, AUTOFLOW, MANUAL AIR VENT, AND INTERNAL COIL DRAIN. SEE SPECS.
 - PROVIDE SINGLE POWER POINT CONNECTION. COORDINATE POWER REQUIREMENTS WITH ELECTRICAL.
 - PROVIDE WITH FACTORY SIZED AND MOUNTED INTERNAL CONDENSATE PUMP.
 - PROVIDE INSULATED 14Q STAINLESS STEEL DRAIN PANS. FURNISH AND FIELD INSTALL CONDENSATE DRAIN PAN FLOAT VALVE.
 - WIRE VALVE INTO LOW VOLTAGE POWER SUPPLY TO SHUT UNIT DOWN IF THE CONDENSATE PUMP FAILS.
PROVIDE ALARM TO DDC PANEL.
 - PROVIDE FACTORY MOUNTED AND WIRED SPEED CONTROLLER FOR BOTH OA FAN AND SA FAN.
 - PROVIDE WITH FACTORY MOUNTED DISCONNECT.
 - VBT - VERTICAL BLOW THROUGH (NON-DUCTED UNIT) WITH HINGED FRONT-ACCESS PANEL.
 - VBT TYPE FCU - PROVIDE TOP-MOUNTED ACOUSTICAL DISCHARGE PLENUM WITH SUPPLY AIR REGISTERS, TITUS 272FL WITH OBD OR EQUAL.
 - VDT - VERTICAL DRAW THROUGH (DUCTED UNIT) WITH HINGED FRONT ACCESS PANEL.
 - VDT TYPE FCU - PROVIDE TOP DUCTWORK CONNECTION AND 12" BASE RAIL. COORDINATE WITH EXISTING CLASSROOM CEILING HEIGHT.
AND SUPPLY DUCT CONNECTION.
 - PROVIDE UNIT WITH FACTORY MOUNTED FREEZESTAT FOR FREEZE PROTECTION.
 - PROVIDE 2 INCH MERV 8 RATED PLEATED FILTERS.
 - PROVIDE FACTORY FURNISHED OUTDOOR AIR PLENUM AND MOTORIZED DAMPER. SEE SPECIFICATIONS.
 - CABINET SHALL BE POWDER COATED 14 GA. STEEL WITH 1" THICK. COATED 3.0 P.C.F. DENSITY INSULATION.
 - SEE DETAILS ON SHEET M502.
 - BASIS OF DESIGN IS TEMPSPEC.

BLOWER COIL UNIT SCHEDULE																							
MARK	TYPE	FAN CFM	EXT. STATIC PRESS. (IN. W.C.)	MIN. OA CFM	COOLING COIL DATA										HEATING COIL DATA							ELECTRICAL DATA	
					MIN. TOTAL CAP. (MBH)	MIN. SENS. CAP. (MBH)	MIN. LAT. CAP. (MBH)	ENT. AIR TEMP. (DEG F)	LVG. AIR TEMP. (DEG F)	WATER TEMP. (DEG F)		GPM	MAX. PRESS. DROP (FT. W.C.)	MIN. TOTAL CAP. (MBH)	AIR TEMP. (DEG F)		WATER TEMP. (DEG F)		GPM	MAX. PRESS. DROP (FT. W.C.)	SA FAN POWER (HP)	V/PH/HZ	
								DB/WB	DB/WB	EWT	LWT				DB	DB	EWT	LWT					
BCU 5-1	HDT	2200	0.5	215	62.7	49.2	13.5	75/62.5	54/52	44	56	10.5	10	59.7	65	90	130	100	4.0	5	3/4	115/1/60	
BCU 5-2	HDT	550	0.5	60	15.3	12.3	3.0	75.3/62.4	54/52	44	56	2.6	10	14.9	65	90	130	100	1.0	5	3/4	115/1/60	
BCU 5-3	HDT	1800	0.5	235	59.0	48.1	10.9	78.2/63.6	54/52	44	56	9.8	10	52.7	63	90	130	100	3.5	5	3/4	115/1/60	
BCU 5-4	HDT	2150	0.5	325	71.8	57.2	14.6	78.3/63.9	54/52	44	56	12.0	10	65.3	62	90	130	100	4.4	5	3/4	115/1/60	
BCU 5-5	HDT	2000	0.5	265	63.6	51.4	12.2	77.9/63.5	54/52	44	56	10.6	10	58.6	63	90	130	100	3.9	5	3/4	115/1/60	
BCU 5-6	HDT	1400	0.5	165	43.4	35.0	8.4	77.7/63.5	54/52	44	56	7.2	10	41.0	63	90	130	100	2.7	5	3/4	115/1/60	

- NOTES:
- MANUFACTURER SHALL ALLOW A MINIMUM OF 0.5" EXTRA STATIC FOR DIRTY INITIAL FILTERS. EXTERNAL STATIC DOES NOT INCLUDE PRESSURE DROP THROUGH CASING COILS, INITIAL FILTERS, AND FILTER HOUSINGS.
 - PIPE ALL CONDENSATE FROM UNITS TO DRAIN WITH TRAP. TRAP CONDENSATE PIPING AT UNIT AND ROUTE TO NEAREST FLOOR DRAIN OR HUB DRAIN.
 - CHILLED WATER CONTROL VALVES SHALL BE TWO WAY TYPE. HOT WATER CONTROL VALVES SHALL BE OF TWO-WAY TYPE.
 - PROVIDE WITH FACTORY MOUNTED DISCONNECT. COORDINATE POWER REQUIREMENTS WITH ELECTRICAL.
 - VDT - VERTICAL DRAW THRU; HDT - HORIZONTAL DRAW THRU
 - BASIS OF DESIGN IS YORK/JOHNSON CONTROLS.
- ADDITIONAL NOTES FOR HORIZONTAL UNITS:
- PROVIDE WITH CONCEALED CONDENSATE PUMP. COORDINATE POWER WITH ELECTRICAL.
 - FURNISH AND FIELD INSTALL SECONDARY DRAIN PAN FLOAT VALVE. PROVIDE ALARM POINT TO DDC PANEL.
 - WIRE VALVE INTO LOW VOLTAGE POWER SUPPLY TO SHUT UNIT DOWN IF THE CONDENSATE PUMP FAILS.

FAN SCHEDULE												
MARK	LOCATION	CONTROL INTERLOCKS	TYPE	DRIVE	PERFORMANCE DATA					ELECTRICAL DATA		
					CFM	E.S.P. (IN. W.C.)	MAX. RPM	MAX. SONES	FAN POWER (W)	VOLTS	PHASE	Hz
EF-2	VARSITY BOYS LOCKER	RTU-4 (GYM)	CRF	DD	1,200	0.5	1,725	12.0	1/2 HP	115	1	60
EF-3	BOYS LOCKER	RTU-4 (GYM)	CRF	DD	1,200	0.5	1,725	12.0	1/2 HP	115	1	60
EF-4	GIRLS LOCKER	RTU-4 (GYM)	CRF	DD	1,000	0.5	1,725	10.0	1/2 HP	115	1	60
EF-5	JANITOR	AHU-2 (GYM LOBBY)	CRF	DD	250	0.5	1,725	8.0	1/6 HP	115	1	60
EF-6	CONCESSION RR	AHU-2 (GYM LOBBY)	CRF	DD	750	0.5	1,725	10.0	1/4 HP	115	1	60

- FAN NOTES:
- CRF - CENTRIFUGAL ROOF MOUNTED FAN; DD - DIRECT DRIVE
 - PROVIDE FANS WITH SPEED CONTROLLER FOR AIR FLOW BALANCING.
 - PROVIDE FAN WITH AN INTEGRAL DISCONNECT.
 - PROVIDE WITH PRE-FABRICATED CURB, BACKDRAFT DAMPER, S.S. BIRDSCREEN AND S.S. FASTENERS
 - PROVIDE ROOF MOUNTED MIAMI DADE/FLORIDA PRODUCT APPROVED HIGH WIND RATED EXHAUST FAN AND CURB.
 - REFER TO FIRE ALARM DRAWINGS FOR FIRE ALARM SHUTDOWN RELAYS.
 - ALL FAN TO RUN CONTINUOUSLY DURING OCCUPIED HOURS. CONNECT TO DDC SYSTEM OCCUPANCY SCHEDULE.
 - SEE ELECTRICAL FOR COMBINATION MOTOR STARTER/DISCONNECT.
 - BASIS OF DESIGN IS GREENHECK

GRAVITY VENTILATOR SCHEDULE							
MARK	TYPE	SERVING	AIRFLOW (CFM)	SP (IN W.G.)	DIMENSIONS (IN.)		
					CURB CAP (WxL)	THROAT (WxL)	
GI-1	INTAKE	BCU 5-1	215	0.05	24x24	18x18	
GI-2	INTAKE	BCU 5-2 AND 5-3	295	0.05	24x24	18x18	
GI-3	INTAKE	BCU 5-4	325	0.05	24x24	18x18	
GI-4	INTAKE	BCU 5-5 AND 5-6	430	0.05	24x24	18x18	

- NOTES:
- GI - GRAVITY INTAKE; GR - GRAVITY RELIEF
 - PROVIDE WITH 5" PRE-FABRICATED CURB, BIRD SCREEN, AND BACKDRAFT DAMPER.
 - PROVIDE LOW SILHOUETTE, ROOF MOUNTED MIAMI DADE/FLORIDA PRODUCT APPROVED HIGH WIND RATED GRAVITY VENTILATOR AND CURB.
 - BASIS OF DESIGN IS GREENHECK FG SERIES.
 - REFER TO DETAIL 1 ON SHEET M504.



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SCG project: 2015-124

SEAL

NOT FOR CONSTRUCTION

REVISION NUMBER	REVISION DESCRIPTION

GULF BREEZE HIGH SCHOOL
HVAC RENOVATION PH. III
SANTA ROSA COUNTY SCHOOL DISTRICT

DESIGNED BY:
AL

DRAWN BY:
AL

CHECKED BY:
WJJ

DATE:
JUNE 9, 2015

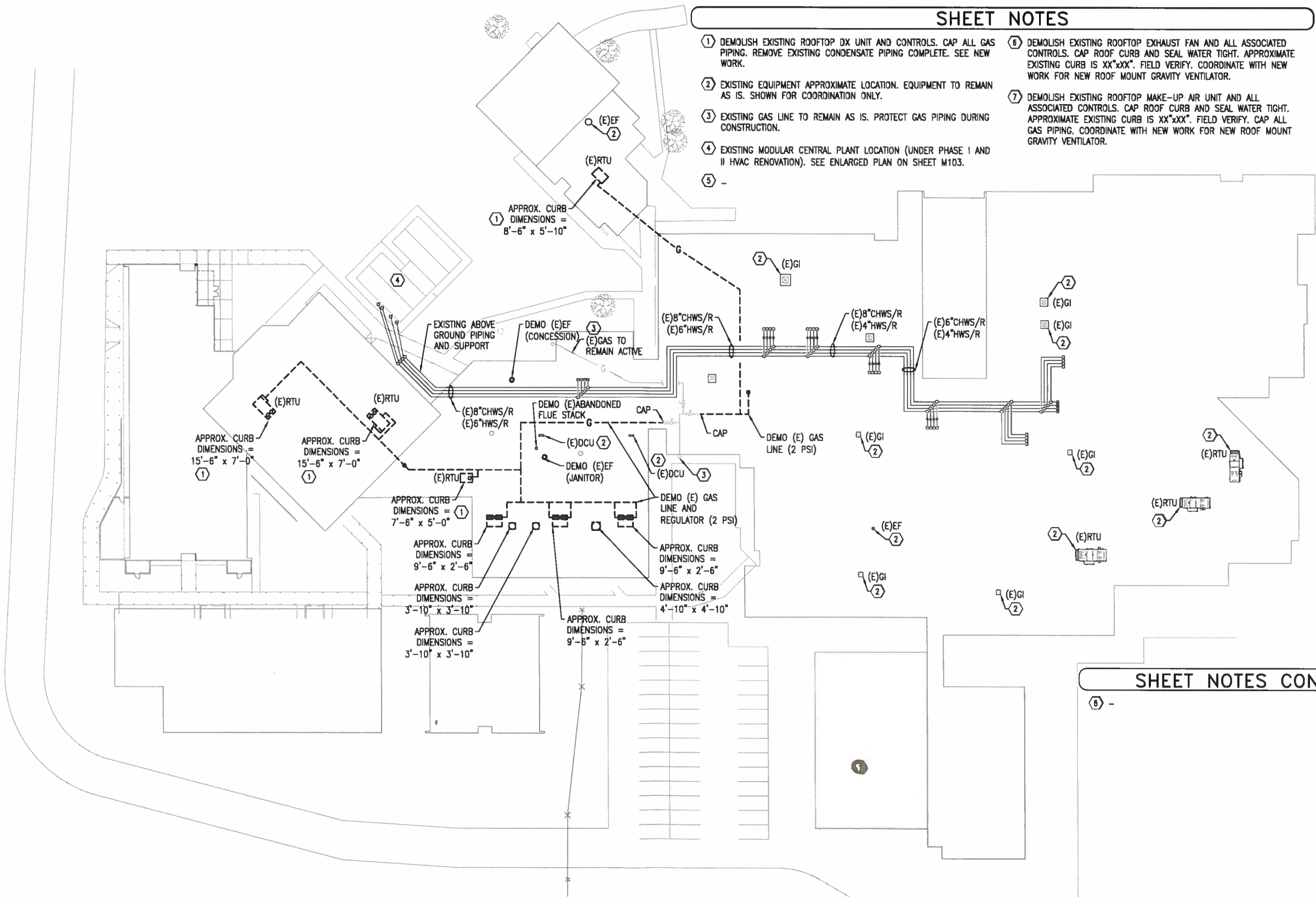
SHEET TITLE:

MECHANICAL
SCHEDULES

SHEET:

M004

PHASE 2 - DESIGN
DEVELOPMENT SUBMITTAL



SHEET NOTES

- 1 DEMOLISH EXISTING ROOFTOP DX UNIT AND CONTROLS. CAP ALL GAS PIPING. REMOVE EXISTING CONDENSATE PIPING COMPLETE. SEE NEW WORK.
- 2 EXISTING EQUIPMENT APPROXIMATE LOCATION. EQUIPMENT TO REMAIN AS IS. SHOWN FOR COORDINATION ONLY.
- 3 EXISTING GAS LINE TO REMAIN AS IS. PROTECT GAS PIPING DURING CONSTRUCTION.
- 4 EXISTING MODULAR CENTRAL PLANT LOCATION (UNDER PHASE I AND II HVAC RENOVATION). SEE ENLARGED PLAN ON SHEET M103.
- 5 -
- 6 DEMOLISH EXISTING ROOFTOP EXHAUST FAN AND ALL ASSOCIATED CONTROLS. CAP ROOF CURB AND SEAL WATER TIGHT. APPROXIMATE EXISTING CURB IS XX'XXX". FIELD VERIFY. COORDINATE WITH NEW WORK FOR NEW ROOF MOUNT GRAVITY VENTILATOR.
- 7 DEMOLISH EXISTING ROOFTOP MAKE-UP AIR UNIT AND ALL ASSOCIATED CONTROLS. CAP ROOF CURB AND SEAL WATER TIGHT. APPROXIMATE EXISTING CURB IS XX'XXX". FIELD VERIFY. CAP ALL GAS PIPING. COORDINATE WITH NEW WORK FOR NEW ROOF MOUNT GRAVITY VENTILATOR.

SHEET NOTES CONT'D

8 -

MECHANICAL DEMOLITION ROOF PLAN
SCALE: 1/32"=1'-0"

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SCG Project: 2015-124

SEAL

NOT FOR CONSTRUCTION

REVISION DESCRIPTION

REVISION NUMBER

GULF BREEZE HIGH SCHOOL
HVAC RENOVATION PH. III
SANTA ROSA COUNTY SCHOOL DISTRICT

DESIGNED BY:
AL

DRAWN BY:
AL

CHECKED BY:
WJJ

DATE:
JUNE 9, 2015

SHEET TITLE:
MECHANICAL
DEMOLITION
ROOF PLAN

SHEET:
M101

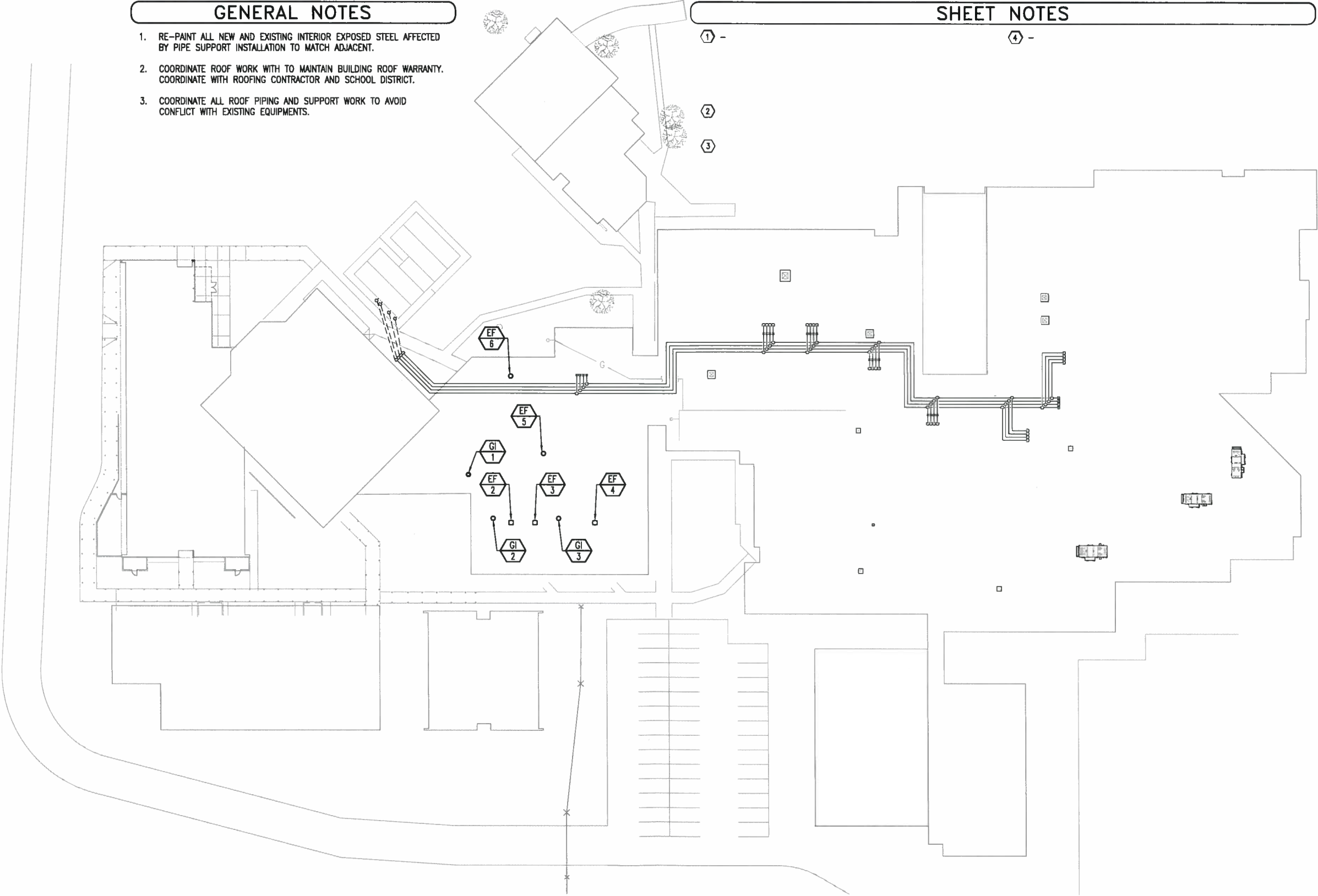
PHASE 2 - DESIGN
DEVELOPMENT SUBMITTAL

GENERAL NOTES

- 1. RE-PAINT ALL NEW AND EXISTING INTERIOR EXPOSED STEEL AFFECTED BY PIPE SUPPORT INSTALLATION TO MATCH ADJACENT.
- 2. COORDINATE ROOF WORK WITH TO MAINTAIN BUILDING ROOF WARRANTY. COORDINATE WITH ROOFING CONTRACTOR AND SCHOOL DISTRICT.
- 3. COORDINATE ALL ROOF PIPING AND SUPPORT WORK TO AVOID CONFLICT WITH EXISTING EQUIPMENTS.

SHEET NOTES

① - ④ -



MECHANICAL ROOF PLAN
SCALE: 1/32"=1'-0"

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SCG project 2015-124

SEAL
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REVISION NUMBER	REVISION DESCRIPTION

GULF BREEZE HIGH SCHOOL
HVAC RENOVATION PH. III
SANTA ROSA COUNTY SCHOOL DISTRICT

DESIGNED BY:
AL
DRAWN BY:
AL
CHECKED BY:
WJJ
DATE:
JUNE 9, 2015

SHEET TITLE:
MECHANICAL
NEW WORK
ROOF PLAN

SHEET:
M102

PHASE 2 - DESIGN
DEVELOPMENT SUBMITTAL

SEAL
NOT FOR CONSTRUCTION

REVISION NUMBER	REVISION DESCRIPTION

**GULF BREEZE HIGH SCHOOL
HVAC RENOVATION PH. III**
SANTA ROSA COUNTY SCHOOL DISTRICT

DESIGNED BY:
AL
DRAWN BY:
AL
CHECKED BY:
WJJ
DATE:
JUNE 9, 2015

SHEET TITLE:
MECHANICAL
SITE PLAN

SHEET:
M103

PHASE 2 - DESIGN
DEVELOPMENT SUBMITTAL

EQUIPMENT AND PIPING STRUCTURAL SUPPORT COORDINATION NOTES:
CONTRACTOR SHALL FIELD VERIFY AND COORDINATE ALL DIMENSIONS AS NOTED IN THE CONSTRUCTION DOCUMENTS WITH EXISTING AS-BUILT CONDITIONS PRIOR TO STEEL FABRICATION. CONSULT STRUCTURAL ENGINEER PRIOR TO MAKING ANY STRUCTURAL RELATED MODIFICATION.

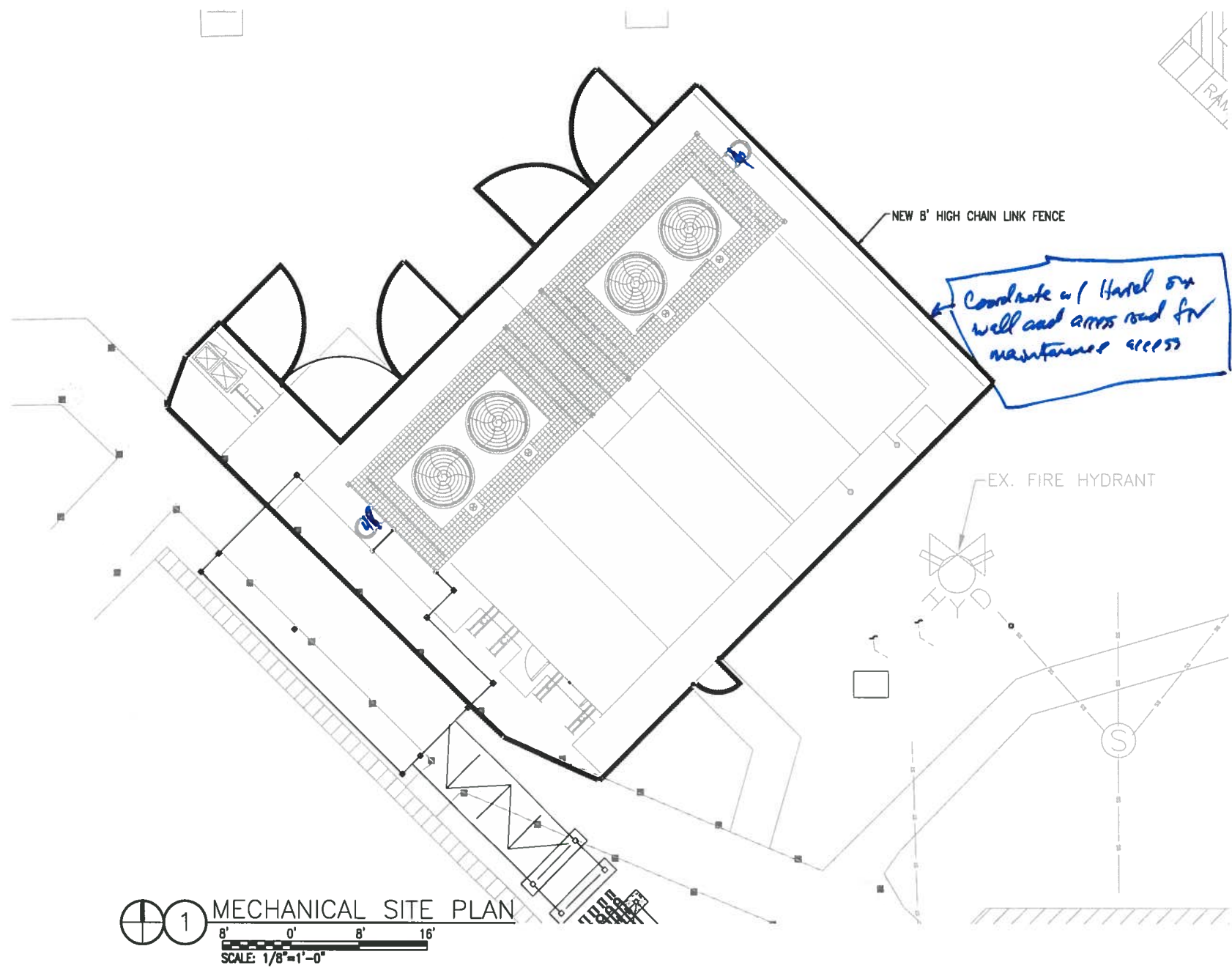
SHEET NOTES

1. PROVIDE LOCKABLE COVER FOR EXISTING PLATFORM ACCESS LADDER. FINISH TO MATCH EXISTING CONSTRUCTION.
2. NEW STRUCTURAL SUPPORT FOR NEW RTU-4. PROVIDE WITH RAILINGS AND REINFORCEMENT. SEE STRUCTURAL DWGS.
3. POINT OF CONNECTION FOR NEW PLATFORM. FIELD COORDINATE WITH EXISTING.
4. NEW STRUCTURAL PIPING SUPPORT. SEE STRUCTURAL.
5. EXISTING ELECTRICAL PANELS.
6. EXISTING EMERGENCY 6" CHWS/R & 6" HWS/R CONNECTION.
7. PROVIDE HEAT TRACE FOR EXPOSED CHILLED WATER PIPING. COORDINATE POWER REQUIREMENTS WITH ELECTRICAL. 5W/LF, 115V/1PH/60HZ. BASIS OF DESIGN IS CHROMALOX "STW" CABLE WITH "PII" HEAT TRACE UL LISTED THERMOSTAT.
8. SEE GYM AHU PIPING CONTINUATION ON SHEET M401.
9. SEE LOCKER ROOMS PIPING CONTINUATION ON SHEET M401.
10. SEE BAND BUILDING PIPING CONTINUATION ON SHEET M401.
11. TAP EXISTING 2" DOMESTIC WATER LINE TO EXISTING 6" DOMESTIC WATER LINE. FIELD VERIFY EXISTING LOCATION.
12. ROUTE NEW CONDENSATE PIPING BELDW PLATFORM TO (E) COOLING TOWER DRAIN.

MECHANICAL SITE PLAN
SCALE: 1/8"=1'-0"

GENERAL NOTES

1. CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR DETERMINING ALL EXISTING SITE CONDITIONS AFFECTING WORK UNDER THIS CONTRACT, INCLUDING LOCATION OF ALL BURIED UTILITIES.
2. LOCATION AND ROUTING OF NEW UNDERGROUND PIPING IS APPROXIMATE. CONTRACTOR SHALL COORDINATE FINAL LOCATION AND ROUTING OF PIPING TO AVOID CONFLICTS WITH EXISTING BURIED UTILITIES AND OTHER OBSTRUCTIONS.
3. CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATION OF EXISTING BURIED UTILITIES PRIOR TO COMMENCING EXCAVATION WORK UNDER THIS PROJECT.
4. UNLESS NOTED OTHERWISE BY OWNER, CONTRACTOR SHALL REPAIR DAMAGE TO EXISTING UTILITIES WHICH OCCURS AS A RESULT OF OPERATIONS PERFORMED UNDER THIS CONTRACT AT NO ADDITIONAL COST TO OWNER. REPAIRS SHALL BE MADE USING MATERIALS & METHODS TO MATCH EXISTING CONSTRUCTION AND SHALL BE APPROVED BY THE ENGINEER PRIOR TO RE-COVERING.
5. COORDINATE UNDERGROUND PIPE ROUTING WITH EXISTING UTILITY LINES AND PROTECT EXISTING UTILITIES FROM DAMAGE ARISING FROM NEW WORK.
6. COORDINATE ALL DIMENSIONS WITH MODULAR CENTRAL PLANT MANUFACTURER, COOLING TOWER, AND ALL OTHER TRADES.



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REVISION NUMBER	REVISION DESCRIPTION

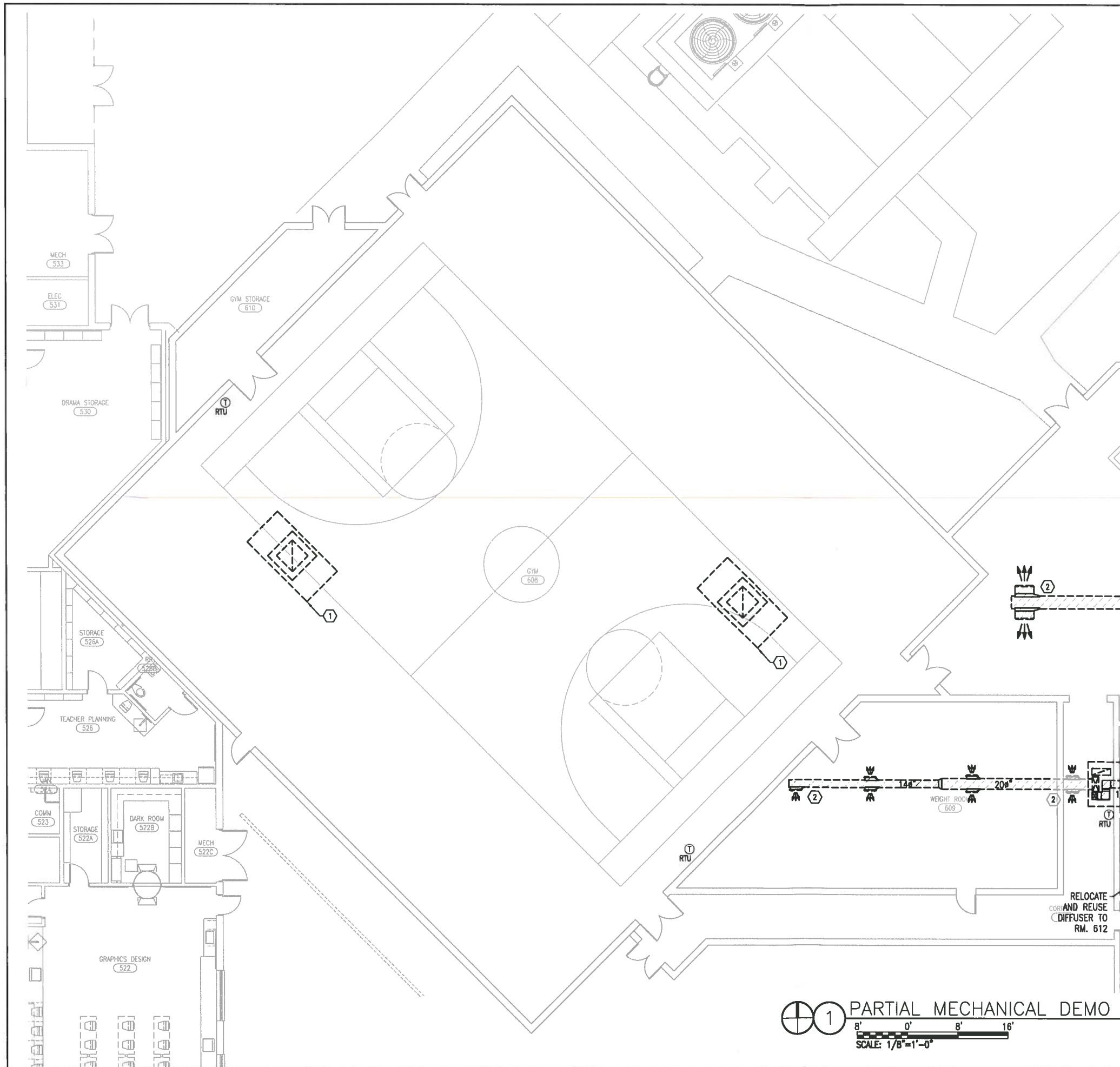
**GULF BREEZE HIGH SCHOOL
HVAC RENOVATION PH. III**
SANTA ROSA COUNTY SCHOOL DISTRICT

DESIGNED BY:
AL
DRAWN BY:
AL
CHECKED BY:
WJJ
DATE:
JUNE 9, 2015

SHEET TITLE:
MECHANICAL
SITE PLAN

SHEET:
M104

PHASE 2 - DESIGN
DEVELOPMENT SUBMITTAL



SHEET NOTES

- 1 DEMOLISH AND REMOVE EXISTING PACKAGED ROOFTOP SYSTEM DX EQUIPMENT, DUCTWORK AND GRILLES. REMOVE EXISTING CONTROLS COMPLETE. REPLACE ALL EXISTING THERMOSTAT WITH NEW DDC THERMOSTAT/HUMIDISTAT AS NOTED. MATCH NEW T'STAT LOCATION TO EXISTING HEIGHT/LOCATION. CAP AND SEAL UNUSED ROOF CURB OPENING WEATHER TIGHT. SEE SHEET M101 FOR ADDITIONAL NOTES. SEE ARCHITECTURAL AND STRUCTURAL.
- 2 EXISTING DUCTWORK AND GRILLES TO REMAIN. REFER TO NEW WORK FOR ANY MODIFICATION. CONTRACTOR SHALL CLEAN ALL RE-USED EXISTING DUCTWORK AND GRILLES.

SEAL
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REVISION NUMBER	REVISION DESCRIPTION

GULF BREEZE HIGH SCHOOL HVAC RENOVATION PH. III SANTA ROSA COUNTY SCHOOL DISTRICT

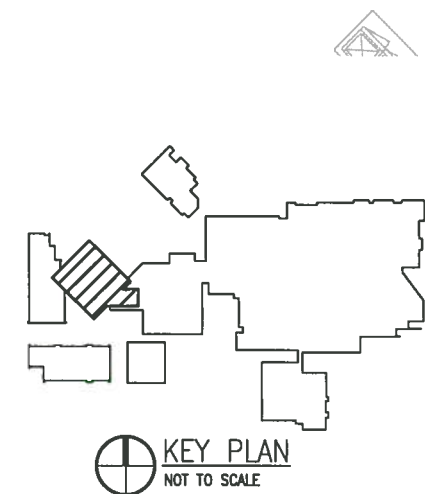
DESIGNED BY:
AL
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CHECKED BY:
WJJ
DATE:
JUNE 9, 2015

SHEET TITLE:
PARTIAL
MECHANICAL
DEMOLITION
PLAN

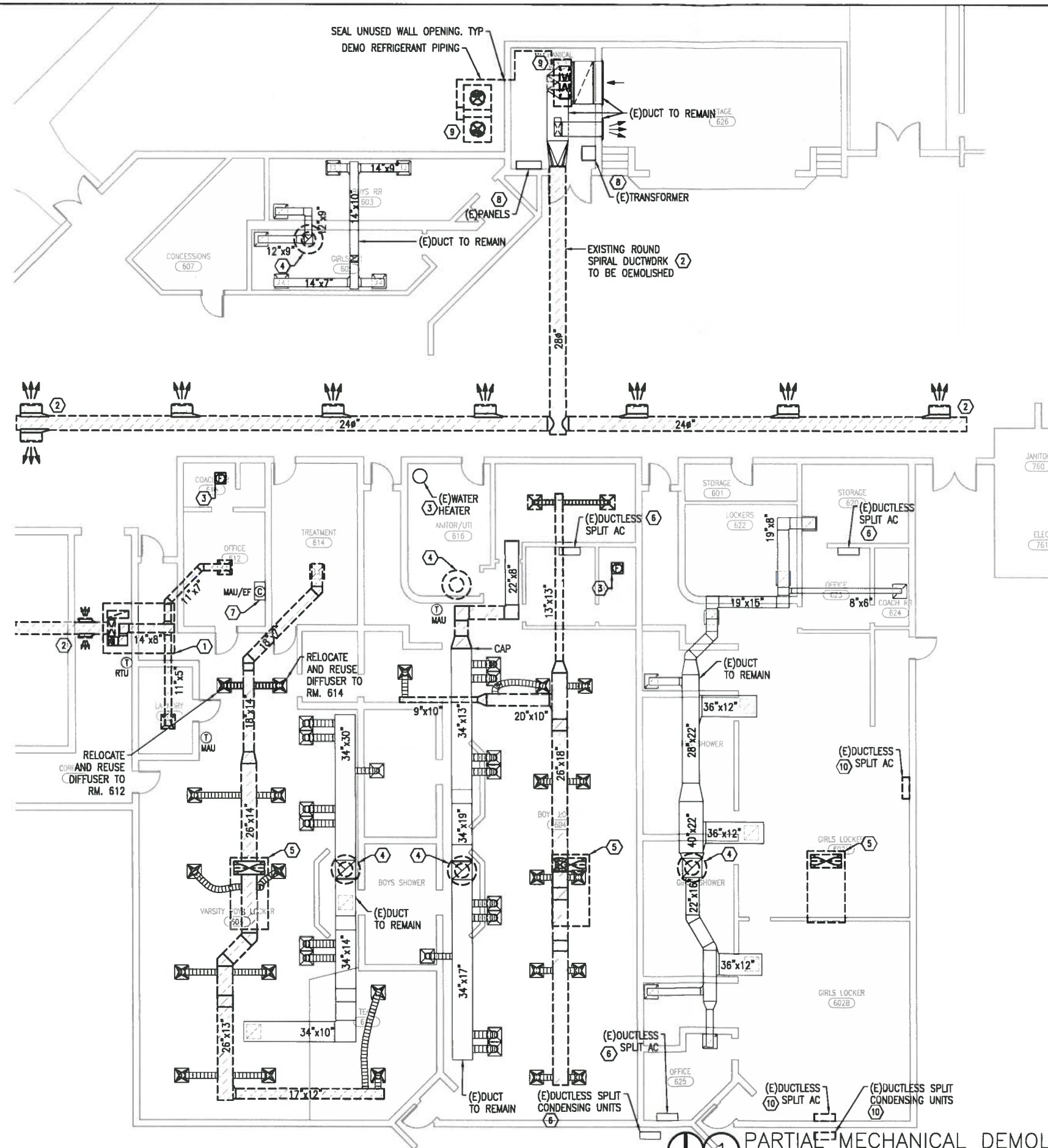
SHEET:
M201

PHASE 2 - DESIGN
DEVELOPMENT SUBMITTAL

1 PARTIAL MECHANICAL DEMO PLAN
8' 0' 8' 16'
SCALE: 1/8"=1'-0"



KEY PLAN
NOT TO SCALE



SHEET NOTES

- 1 DEMOLISH AND REMOVE EXISTING PACKAGED ROOFTOP SYSTEM DX EQUIPMENT. REMOVE EXISTING CONTROLS COMPLETE. REPLACE ALL EXISTING THERMOSTAT WITH NEW DDC THERMOSTAT/HUMIDISTAT AS NOTED. CAP AND SEAL UNUSED ROOF CURB OPENING WEATHER TIGHT. SEE SHEET M101 FOR ADDITIONAL NOTES.
- 2 DEMOLISH EXISTING DUCTWORK AND GRILLES TO REMAIN. REFER TO NEW WORK FOR ANY MODIFICATION.
- 3 EXISTING EQUIPMENT TO REMAIN
- 4 DEMOLISH AND REMOVE EXISTING ROOFTOP EXHAUST FAN. REMOVE EXISTING CONTROLS COMPLETE. SEE SHEET M101 FOR ADDITIONAL NOTES. RE-USE EXISTING EXHAUST DUCTWORK. SEE NEW WORK.
- 5 DEMOLISH AND REMOVE EXISTING ROOFTOP MAKE-UP AIR UNIT. REMOVE EXISTING CONTROLS COMPLETE. REPLACE ALL EXISTING THERMOSTAT WITH NEW DDC THERMOSTAT/HUMIDISTAT AS NOTED. CAP AND SEAL UNUSED ROOF CURB OPENING WEATHER TIGHT. SEE SHEET M101 FOR ADDITIONAL NOTES. SEE ARCHITECTURAL AND STRUCTURAL.
- 6 EXISTING DUCTLESS SPLIT SYSTEM TO REMAIN. PROTECT DURING CONSTRUCTION.
- 7 EXISTING MAKE-UP AIR UNITS AND EXHAUST FAN CONTROL PANEL LOCATION. DEMOLISH PANEL SYSTEM COMPLETE.
- 8 EXISTING ELECTRICAL EQUIPMENT TO REMAIN. PROTECT DURING CONSTRUCTION. SHOWN FOR COORDINATION ONLY.
- 9 DEMOLISH EXISTING SPLIT SYSTEM DX EQUIPMENT, REFRIGERANT PIPING AND CONTROLS. DEMO EXISTING REFRIGERANT PIPING. CONTRACTOR TO REUSE EXISTING DUCTWORK SYSTEM. PROVIDE NEW OA INTAKE AND PROVIDE TRANSITION AS NECESSARY. REPLACE EXISTING THERMOSTAT WITH NEW DDC THERMOSTAT/HUMIDISTAT. SEE NEW WORK.
- 10 UNINSTALL EXISTING DUCTLESS SPLIT SYSTEM AND RETURN EXISTING EQUIPMENT TO THE SCHOOL DISTRICT MAINTENANCE DEPARTMENT. THIS SHALL INCLUDE INDOOR EVAPORATOR, OUTDOOR CONDENSER, CONTROLS SYSTEM AND ALL RELATED ACCESSORIES. COORDINATE DEMOLITION WITH MAINTENANCE PERSONNEL.

SEAL
NOT FOR CONSTRUCTION

REVISION
DESCRIPTION

REVISION
NUMBER

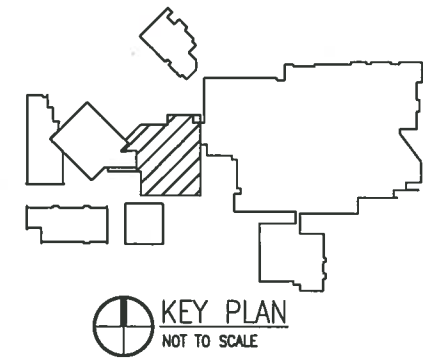
GULF BREEZE HIGH SCHOOL
HVAC RENOVATION PH. III
SANTA ROSA COUNTY SCHOOL DISTRICT

DESIGNED BY:
AL
DRAWN BY:
AL
CHECKED BY:
WJJ
DATE:
JUNE 9, 2015

SHEET TITLE:
PARTIAL
MECHANICAL
DEMOLITION
PLAN

SHEET:
M202

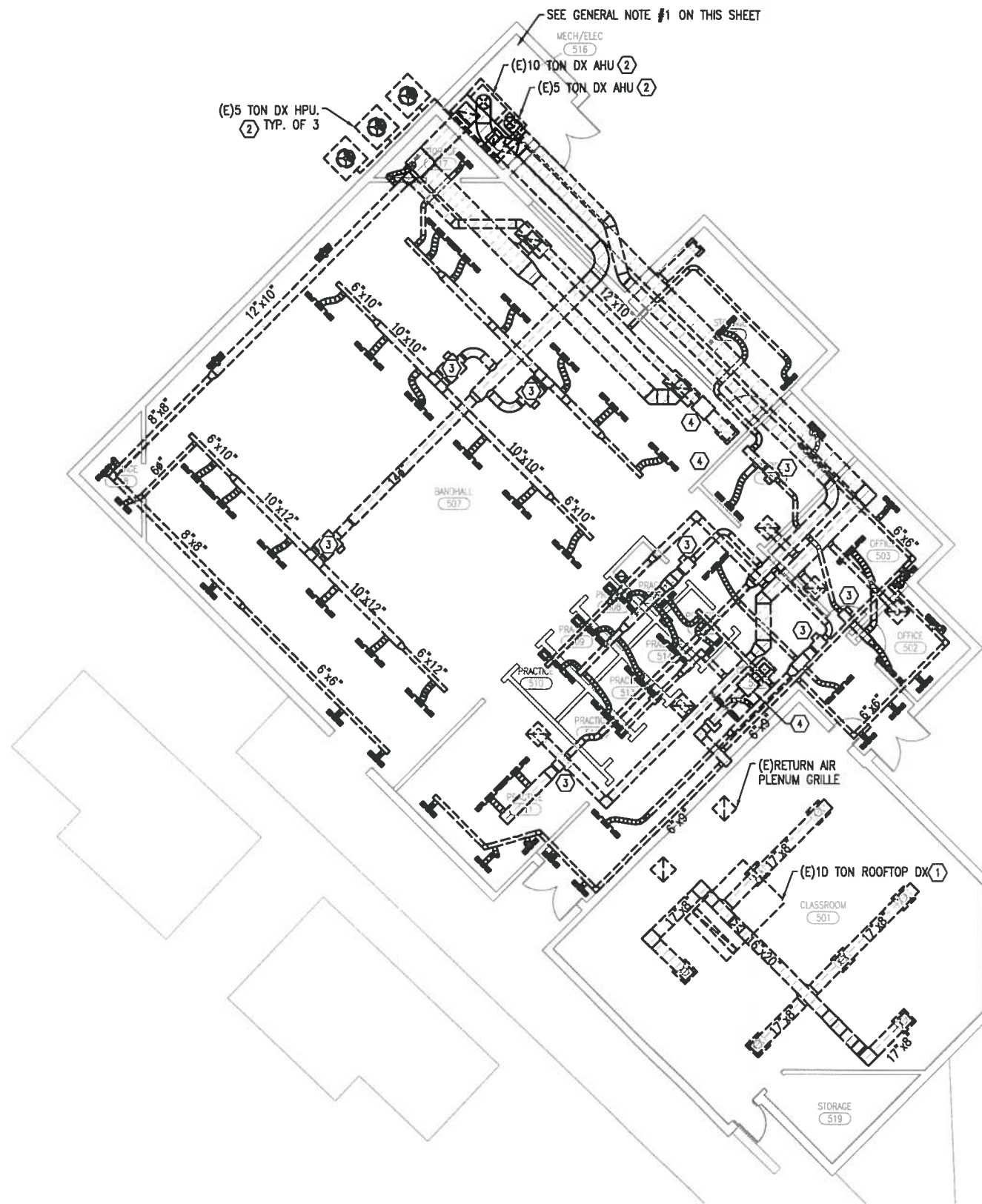
PHASE 2 - DESIGN
DEVELOPMENT SUBMITTAL



KEY PLAN
NOT TO SCALE

PARTIAL MECHANICAL DEMOLITION PLAN

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



PARTIAL MECHANICAL DEMOLITION PLAN

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



KEY PLAN
NOT TO SCALE

SHEET NOTES

- DEMOLISH AND REMOVE EXISTING PACKAGED ROOFTOP SYSTEM DX EQUIPMENT. REMOVE EXISTING CONTROLS COMPLETE. CONTRACTOR TO DEMOLISH EXISTING DUCTWORK SYSTEM AS INDICATED. REPLACE ALL EXISTING THERMOSTAT WITH NEW DDC THERMOSTAT/HUMIDISTAT AS NOTED. CAP AND SEAL UNUSED ROOF CURB OPENING WEATHER TIGHT. SEE ARCHITECTURAL AND STRUCTURAL.
- DEMOLISH EXISTING SPLIT SYSTEM DX EQUIPMENT, REFRIGERANT PIPING AND CONTROLS. DEMO EXISTING UNDERGROUND REFRIGERANT PIPING. CONTRACTOR TO REUSE EXISTING DUCTWORK SYSTEM AND OA INTAKE. PROVIDE TRANSITION AS NECESSARY. REPLACE EXISTING THERMOSTAT WITH NEW DDC THERMOSTAT/HUMIDISTAT. SEE NEW WORK.
- DEMOLISH EXISTING VAV BOX, ELECTRIC HEATING ELEMENTS, AND CONTROLS.
- DEMOLISH EXISTING INLINE FAN, ELECTRIC HEATING ELEMENTS, AND CONTROLS, AND DUCTWORK.

GENERAL NOTES

- EXISTING MECHANICAL ROOM SHALL BE CLEANED FROM ANY EXISTING DEBRIS. SEAL ALL EXISTING OPENING WEATHER TIGHT PER SCHOOL DISTRICT REQUIREMENTS. CONTRACTOR MAY REUSE EXISTING WALL OPENING FOR NEW LOUVER. SEAL ALL UNUSED OPENING WEATHER TIGHT.



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REVISION
DESCRIPTION

REVISION
NUMBER

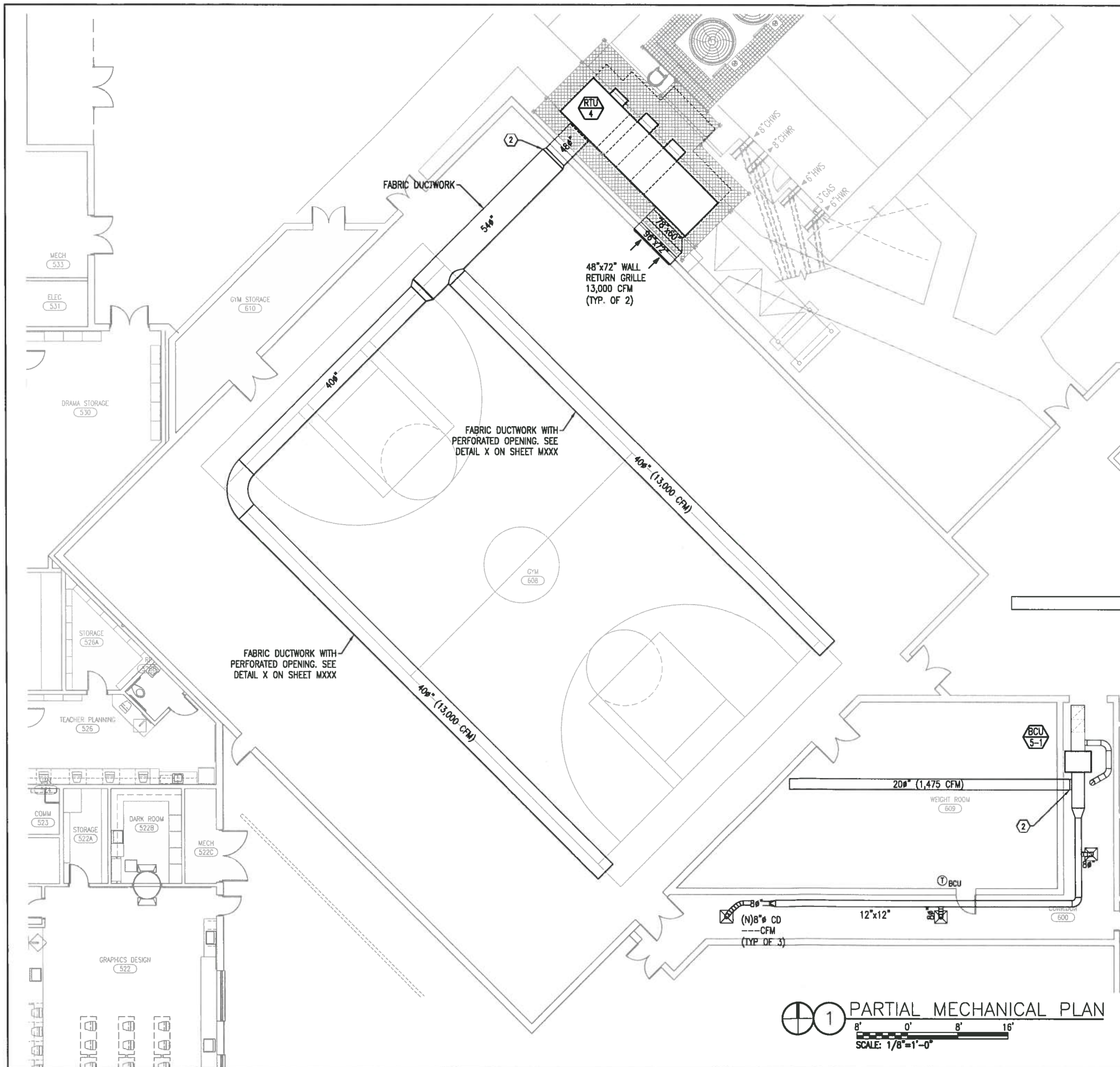
GULF BREEZE HIGH SCHOOL
HVAC RENOVATION PH. III
SANTA ROSA COUNTY SCHOOL DISTRICT

DESIGNED BY:
AL
DRAWN BY:
AL
CHECKED BY:
WJJ
DATE:
JUNE 9, 2015

SHEET TITLE:
PARTIAL
MECHANICAL
DEMOLITION
PLAN

SHEET:
M203

PHASE 2 - DESIGN
DEVELOPMENT SUBMITTAL



SHEET NOTES

- 1 ROUTE 48" DIA. DOUBLE WALL METAL DUCTWORK BETWEEN STRUCTURAL X-BRACING. FIELD COORDINATE EXACT LOCATION.
- 2 TRANSITION BETWEEN METAL AND FABRIC DUCTWORK.
- 3 PROVIDE LINED RETURN DUCTWORK.



SEAL
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REVISION NUMBER	REVISION DESCRIPTION

GULF BREEZE HIGH SCHOOL HVAC RENOVATION PH. III SANTA ROSA COUNTY SCHOOL DISTRICT

DESIGNED BY:
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AL
CHECKED BY:
WJJ
DATE:
JUNE 9, 2015

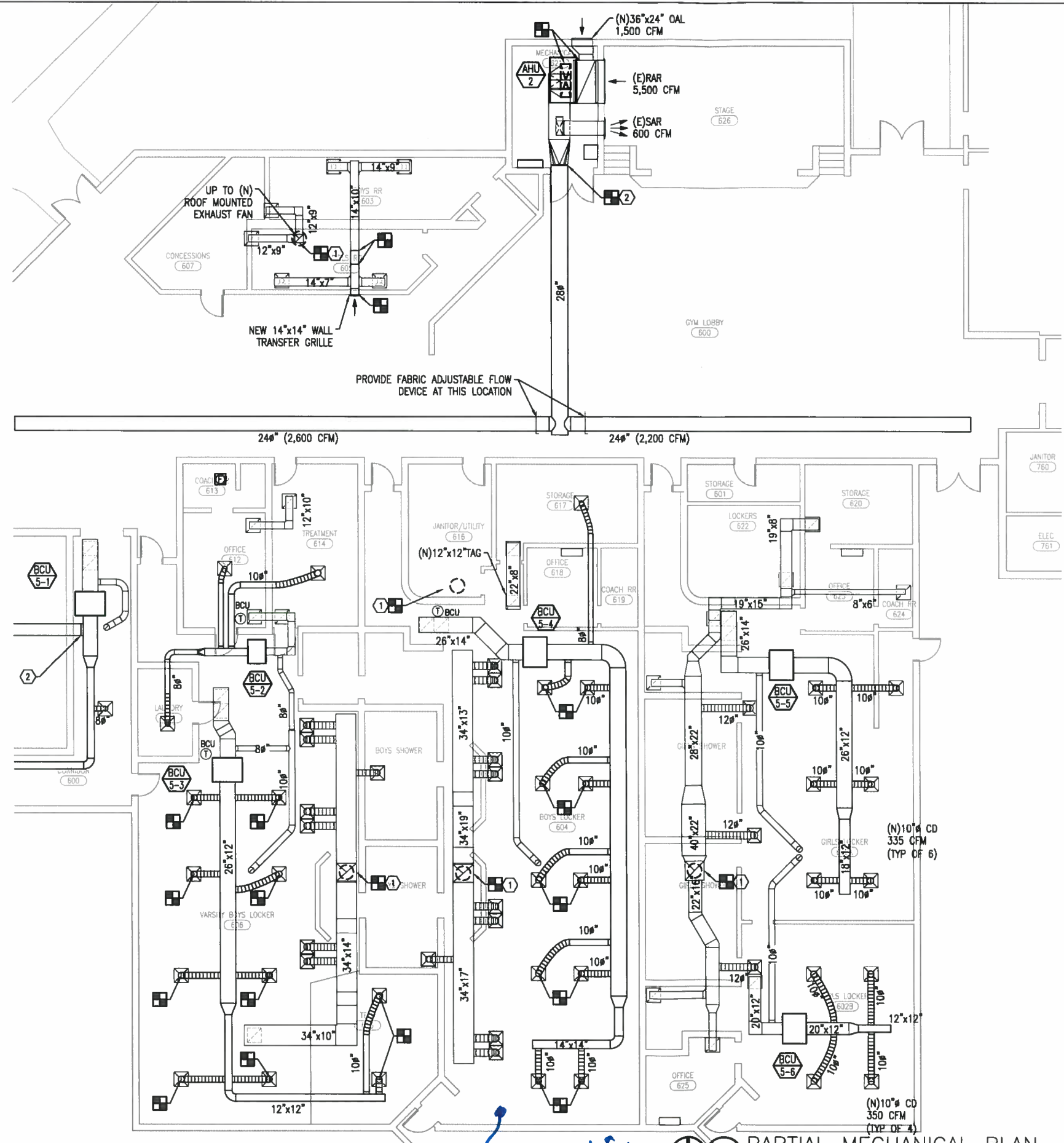
SHEET TITLE:
PARTIAL
MECHANICAL
NEW WORK
PLAN

SHEET:
M301

PHASE 2 - DESIGN
DEVELOPMENT SUBMITTAL

1 PARTIAL MECHANICAL PLAN
8' 0' 8' 16'
SCALE: 1/8"=1'-0"

KEY PLAN
NOT TO SCALE



SHEET NOTES

- 1 ROUTE EXHAUST DUCT TO NEW EXHAUST FAN. PROVIDE DUCT TRANSITION AS REQUIRED.
- 2 NEW EXPOSED FABRIC DUCTWORK. PROVIDE TRANSITION FROM METAL TO FABRIC DUCT AT THIS LOCATION.

SCHMIDT
CONSULTING GROUP, INC.
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COMMUNICATIONS - INDUSTRIAL
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WILLIAM JOSEPH JONES P.E.
FLORIDA LICENSE NUMBER 89080
SCD project: 2015-124

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REVISION NUMBER	REVISION DESCRIPTION

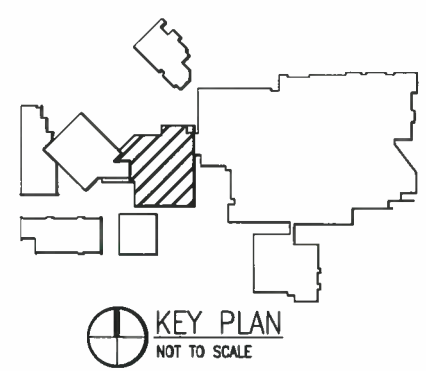
GULF BREEZE HIGH SCHOOL HVAC RENOVATION PH. III SANTA ROSA COUNTY SCHOOL DISTRICT

DESIGNED BY:
AL
DRAWN BY:
AL
CHECKED BY:
WJJ
DATE:
JUNE 9, 2015

SHEET TITLE:
PARTIAL
MECHANICAL
NEW WORK
PLAN

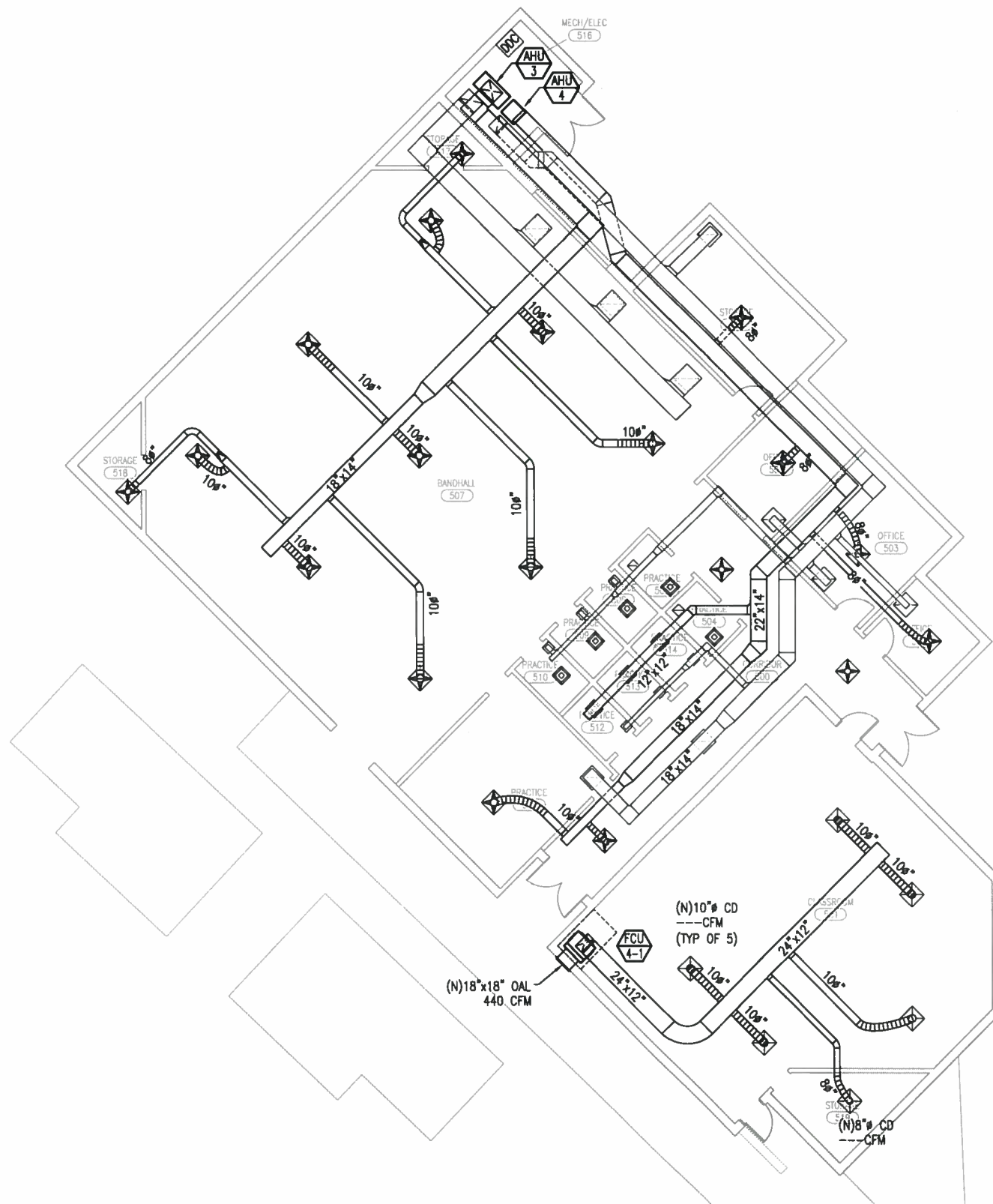
SHEET:
M302

PHASE 2 - DESIGN
DEVELOPMENT SUBMITTAL



PARTIAL MECHANICAL PLAN
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SCALE: 1/8"=1'-0"

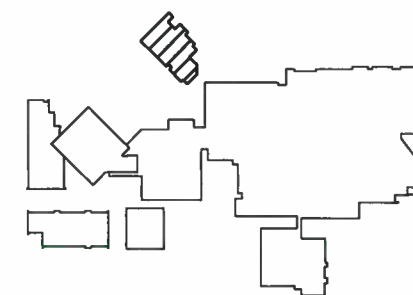
*Flooring work for
this area?
to match girls.*



SHEET NOTES

① NEW DUCTWORK FOR BAND BUILDING

① PARTIAL MECHANICAL PLAN
SCALE: 1/8"=1'-0"



KEY PLAN
NOT TO SCALE

SEAL
NOT FOR CONSTRUCTION

REVISION
DESCRIPTION

REVISION
NUMBER

GULF BREEZE HIGH SCHOOL HVAC RENOVATION PH. III SANTA ROSA COUNTY SCHOOL DISTRICT

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AL

DRAWN BY:
AL

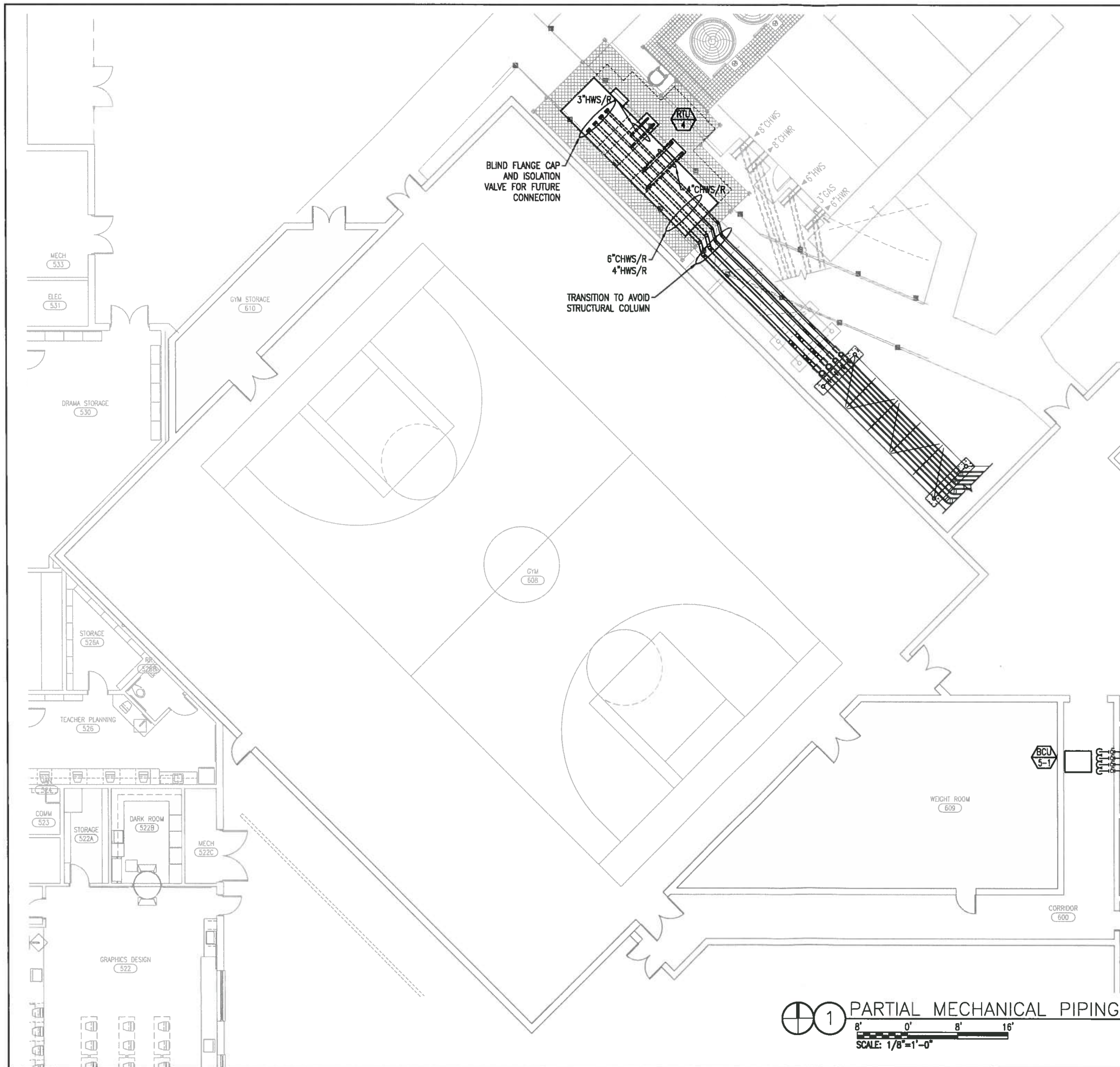
CHECKED BY:
WJJ

DATE:
JUNE 9, 2015

SHEET TITLE:
PARTIAL
MECHANICAL
NEW WORK
PLAN

SHEET:
M303

PHASE 2 - DESIGN
DEVELOPMENT SUBMITTAL



SHEET NOTES

① -



SEAL
NOT FOR CONSTRUCTION

REVISION NUMBER	REVISION DESCRIPTION

GULF BREEZE HIGH SCHOOL HVAC RENOVATION PH. III SANTA ROSA COUNTY SCHOOL DISTRICT

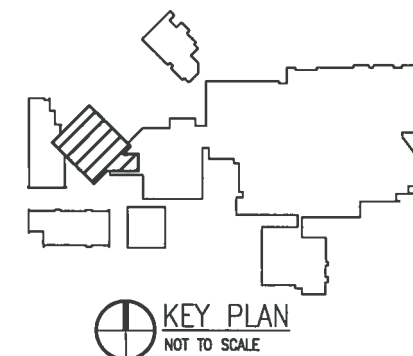
DESIGNED BY:
AL
DRAWN BY:
AL
CHECKED BY:
WJJ
DATE:
JUNE 9, 2015

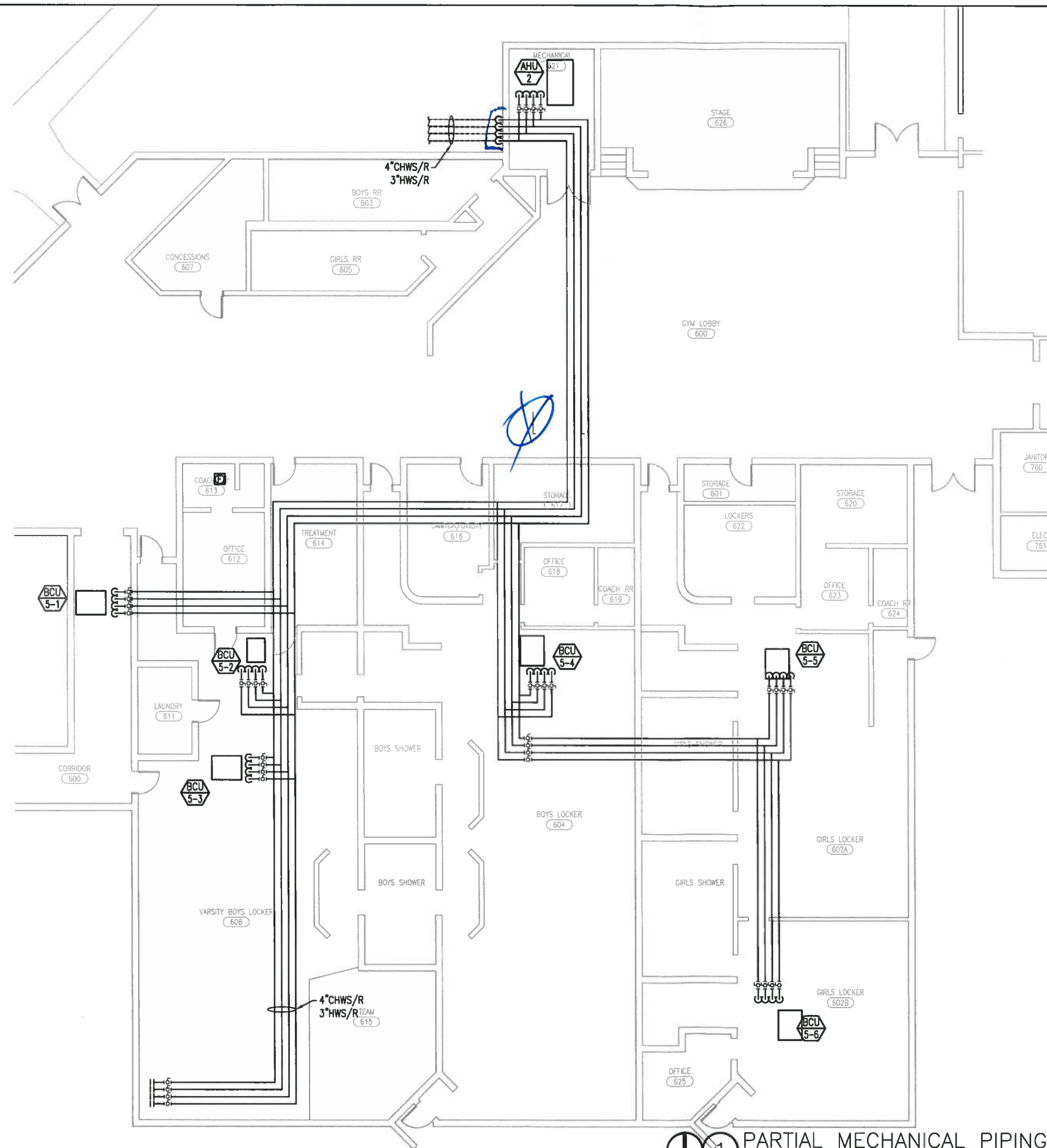
SHEET TITLE:
PARTIAL
MECHANICAL
NEW WORK
PIPING PLAN

SHEET:
M401

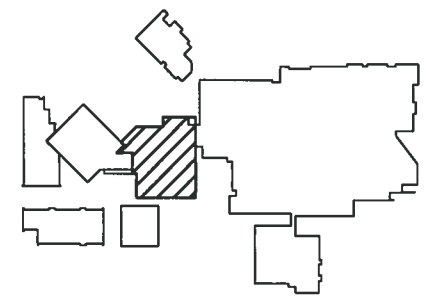
PHASE 2 - DESIGN
DEVELOPMENT SUBMITTAL

① PARTIAL MECHANICAL PIPING PLAN
8' 0' 8' 16'
SCALE: 1/8"=1'-0"





PARTIAL MECHANICAL PIPING PLAN
 SCALE: 1/8"=1'-0"



KEY PLAN
 NOT TO SCALE

SHEET NOTES

① -

SCHMIDT CONSULTING GROUP, INC.
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 401 S. Pine Street, Suite 300 - Pensacola, FL 32502
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 WILLIAM JOSEPH JONES P.E.
 FLORIDA LICENSE NUMBER 28080
 SCG project: 2015-124

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REVISION NUMBER	REVISION DESCRIPTION

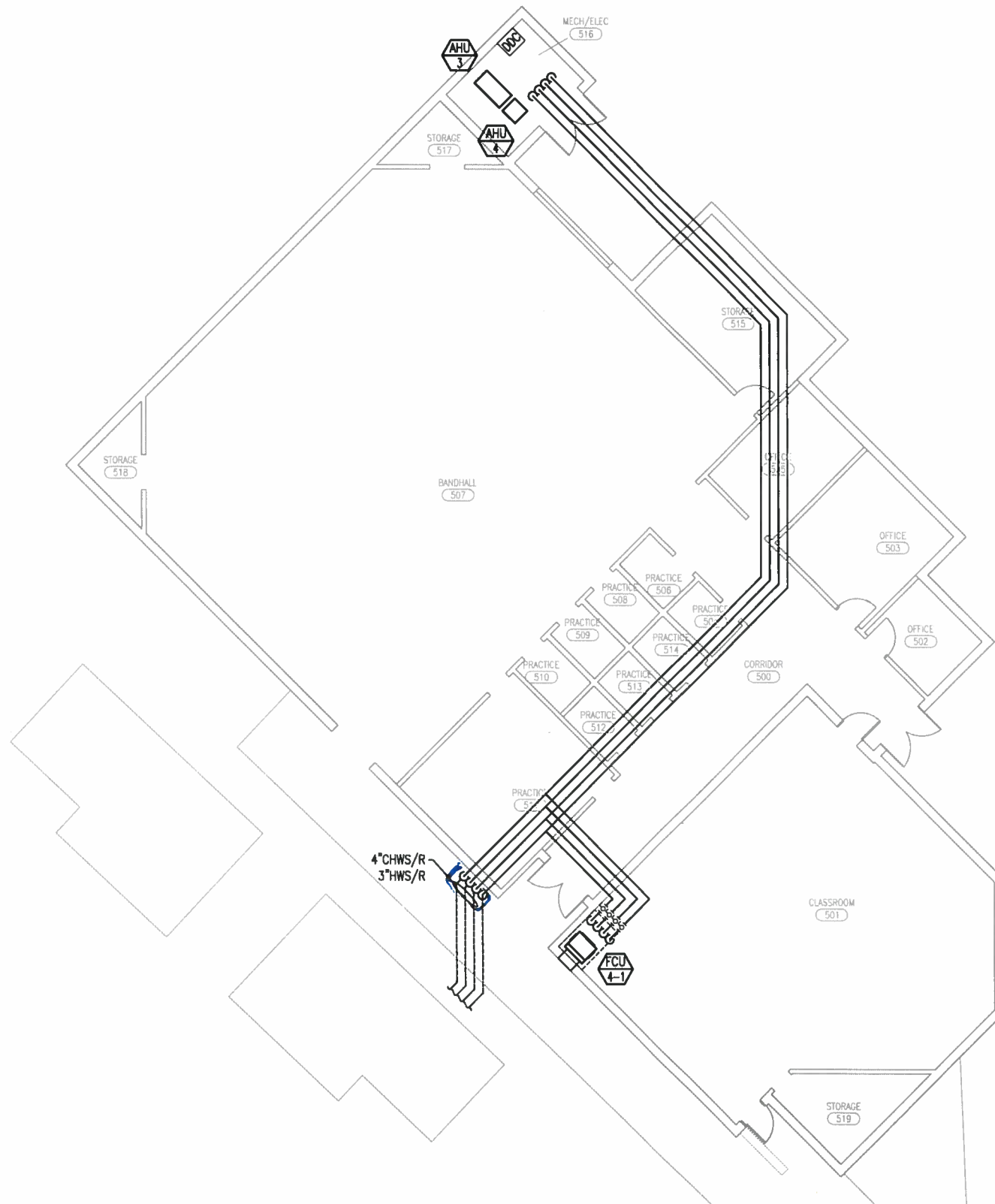
**GULF BREEZE HIGH SCHOOL
 HVAC RENOVATION PH. III
 SANTA ROSA COUNTY SCHOOL DISTRICT**

DESIGNED BY:
 AL
 DRAWN BY:
 AL
 CHECKED BY:
 WJJ
 DATE:
 JUNE 9, 2015

SHEET TITLE:
 PARTIAL MECHANICAL
 NEW WORK PIPING PLAN

SHEET:
M402

PHASE 2 - DESIGN
 DEVELOPMENT SUBMITTAL



SHEET NOTES

1

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WILLIAM JOSEPH JONES, P.E.
FLORIDA LICENSE NUMBER 58080
SCG project: 2015-104

SEAL

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REVISION NUMBER	REVISION DESCRIPTION

**GULF BREEZE HIGH SCHOOL
HVAC RENOVATION PH. III
SANTA ROSA COUNTY SCHOOL DISTRICT**

DESIGNED BY:
AL

DRAWN BY:
AL

CHECKED BY:
WJJ

DATE:
JUNE 9, 2015

SHEET TITLE:
PARTIAL
MECHANICAL
NEW WORK
PIPING PLAN

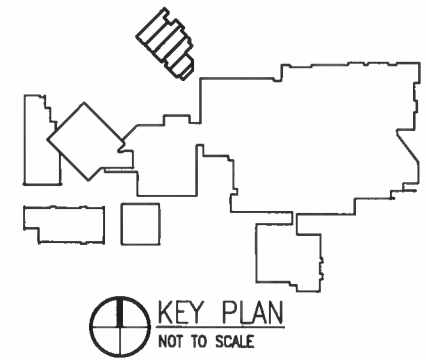
SHEET:
M403

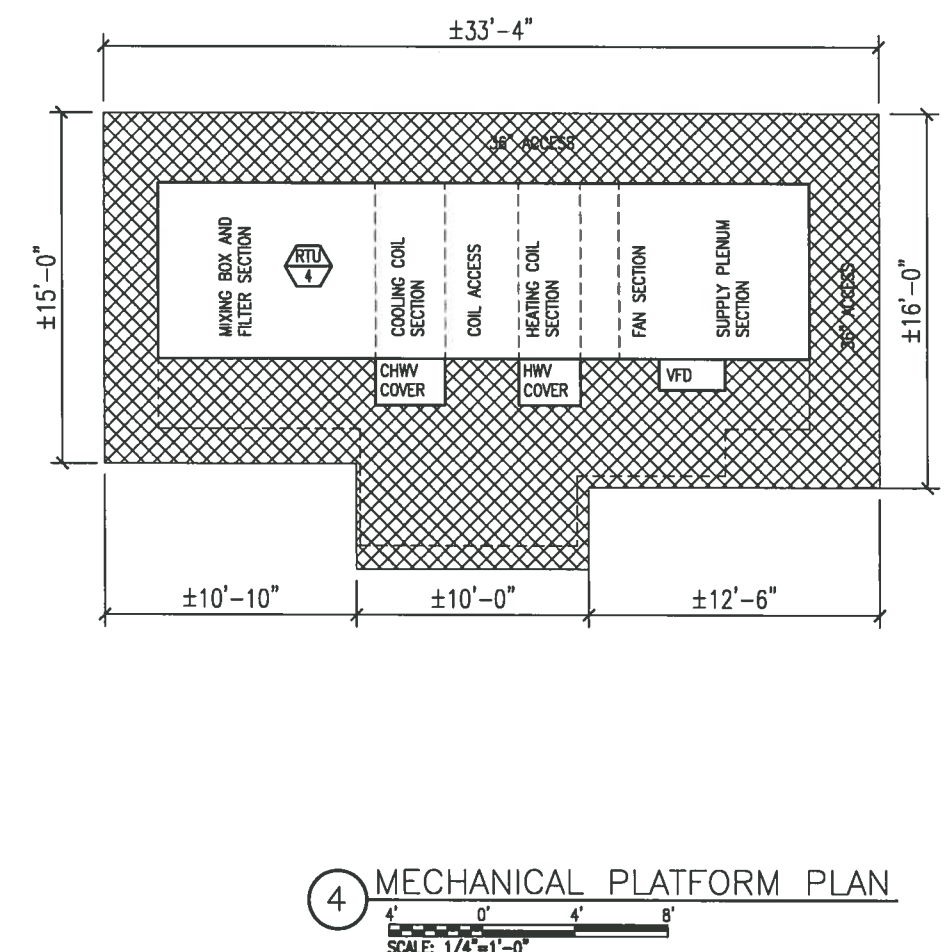
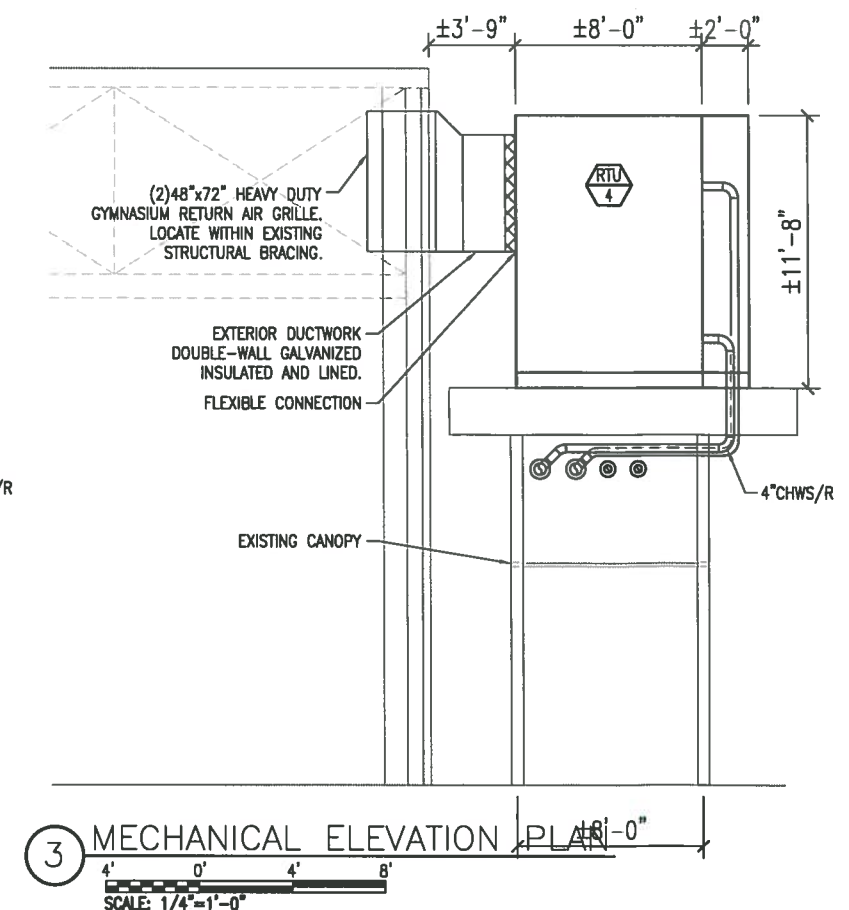
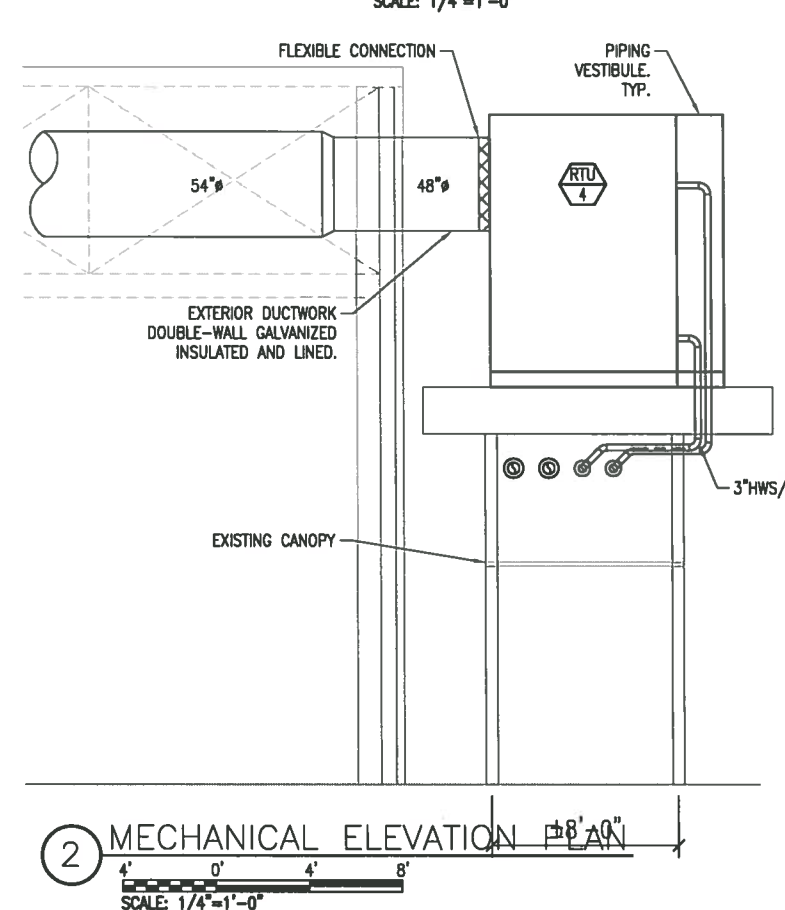
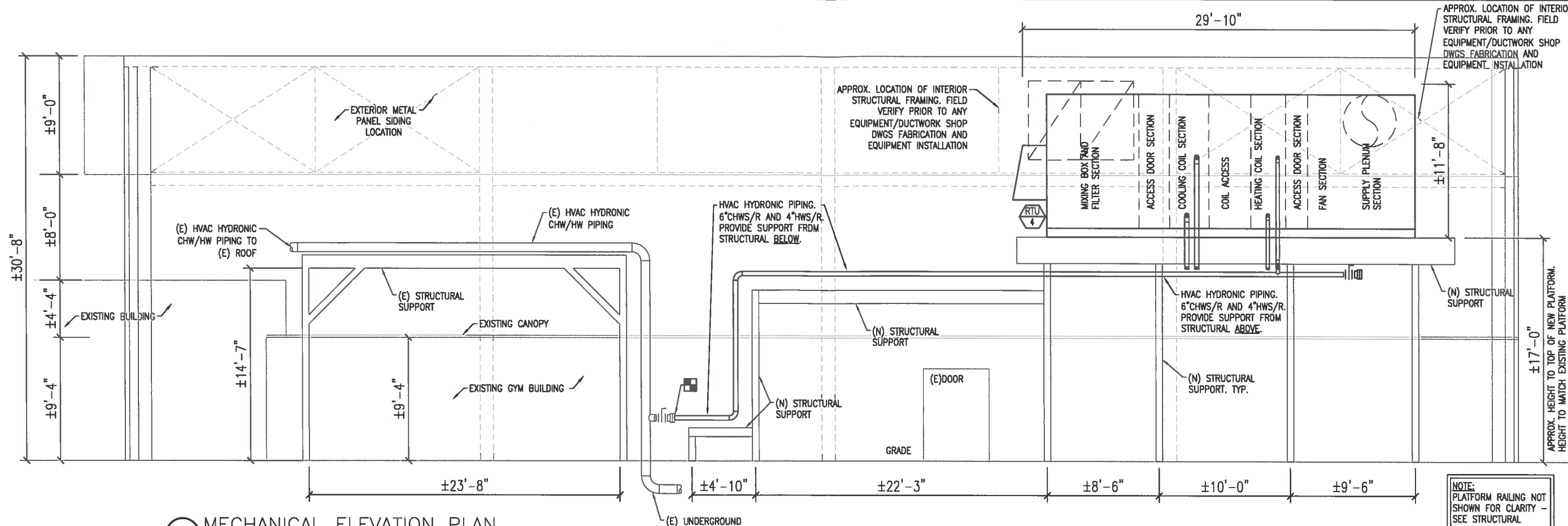
PHASE 2 - DESIGN
DEVELOPMENT SUBMITTAL

1 PARTIAL MECHANICAL PIPING PLAN

8' 0' 8' 16'

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





SCHMIDT CONSULTING GROUP, INC.
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 WILLIAM JOSEPH JONES P.E.
 FLORIDA LICENSE NUMBER 58080
 SCG project: 2015-124

SEAL

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REVISION NUMBER	REVISION DESCRIPTION

**GULF BREEZE HIGH SCHOOL
 HVAC RENOVATION PH. III**
 SANTA ROSA COUNTY SCHOOL DISTRICT

DESIGNED BY:
AL

DRAWN BY:
AL

CHECKED BY:
WJJ

DATE:
JUNE 9, 2015

SHEET TITLE:
MECHANICAL ELEVATION PLAN

SHEET:
M701

PHASE 2 - DESIGN DEVELOPMENT SUBMITTAL

ELECTRICAL LEGEND

- F2A

LED LIGHTING FIXTURE.
- EX

EXIT LIGHT (DARKENED AREA INDICATES LIGHTED FACE). SEE LIGHTING FIXTURE SCHEDULE.
- DATA JUNCTION BOX MOUNTED AT 18" AFF. PROVIDE WITH BLANK COVER PLATE. PROVIDE 1"C WITH PULL WIRE FROM BOX TO ABOVE CEILING.
- CABLE TV OUTLET, PROVIDE WITH BLANK COVER PLATE. PROVIDE 3/4"C WITH PULL WIRE FROM BOX TO ABOVE CEILING.
- SINGLE POLE LIGHTING SWITCH. MOUNT 48" AFF UNLESS NOTED OTHERWISE. SUBSCRIPT INDICATES AS FOLLOWS:
3 - THREE-WAY LIGHTING SWITCH.
P - PASSIVE INFARED MOTION SENSOR WALL SWITCH (SENSORSWITCH WSD PDT OR APPROVED EQUAL).
M - MANUAL MOTOR STARTER. MOUNT 80" AFF. PROVIDE PHENOLIC LABEL.
a,b - LETTER INDICATES ZONE OF CONTROL.
3K - LOCKING THREE WAY SWITCH (HUBBELL HBL1223L WITH HBL1209 KEY)
- DUPLEX RECEPTACLE NEMA 5-15R. PROVIDE NEMA 5-20R FOR SINGLE DEDICATED RECEPTACLES. MOUNT 18" AFF UNLESS NOTED OTHERWISE. VERIFY DUPLEX MOUNTING REQUIREMENTS WITH ARCHITECTUAL DRAWINGS PRIOR TO ROUGH-IN. SUBSCRIPT INDICATES AS FOLLOWS:
G - GROUND FAULT CIRCUIT INTERRUPTER TYPE
WP - WEATHERPROOF COVERPLATE. MOUNT 30" AFF
D - MOUNT RECEPTACLE ADJACENT TO DATA OUTLET.
- JUNCTION BOX.
- NON-FUSED DISCONNECT SWITCH. SIZE FOR LOAD BEING SERVED. PROVIDE PHENOLIC LABEL, SEE SPECIFICATIONS.
- PANELBOARD, MOUNTED AS INDICATED. SEE PANELBOARD SCHEDULES. COORDINATE COIL VOLTAGE WITH EQUIPMENT BEING SERVED. SQ. D CO-xx SERIES, OR APPROVED EQUAL MOUNT IN SERVING ELECTRICAL ROOM. PROVIDE PHENOLIC LABEL, SEE SPECIFICATIONS.
- MOTOR FURNISHED BY OTHERS.
- CIRCUIT RUN CONCEALED ABOVE CEILING OR IN WALL.
- CIRCUIT RUN CONCEALED IN OR BELOW FLOOR SLAB OR UNDERGROUND.
- HOMERUN TO PANELBOARD ANY CIRCUIT WITHOUT FURTHER DESIGNATION 2#12, 1#12 GRD, 1/2"C. 3#12, 1#12 GRD, 1/2"C, ETC., PER NEC. MINIMUM SIZE ON HOMERUNS GREATER THAN 100 FEET SHALL BE #10 AWG.
- LIGHTING FIXTURE MARK. SEE LIGHTING FIXTURE SCHEDULE FOR REQUIREMENTS.
- MECHANICAL EQUIPMENT MARK. SEE MECHANICAL EQUIPMENT ELECTRICAL SCHEDULE.
- SHEET NOTE MARK. SEE SHEET NOTES FOR SPECIFIC INSTRUCTIONS.

ABBREVIATIONS

AFF	ABOVE FINISHED FLOOR.	C/L	CENTERLINE
C	CONDUIT.	JB	JUNCTION BOX.
FACP	FIRE ALARM CONTROL PANEL.	MNT	MOUNTING HEIGHT AFF
WP	WEATHERPROOF.		

GENERAL NOTES

1. ENTIRE ELECTRICAL INSTALLATION SHALL BE IN ACCORDANCE WITH THE 2011 EDITION OF THE NATIONAL ELECTRICAL CODE.
2. CONDUIT ROUTINGS AND DEVICE/EQUIPMENT LOCATIONS SHOWN ARE DIAGRAMMATIC ONLY, CONTRACTOR SHALL FIELD ROUTE AND LOCATE AS REQUIRED. CONDUIT ROUTINGS SHALL BE NORTH/SOUTH OR EAST/WEST.
3. ALL ELECTRICAL EQUIPMENT AND DEVICES SHALL BE PROVIDED WITH SUITABLE PHENOLIC NAMEPLATES.
4. ALL CATALOG NUMBERS AND MANUFACTURERS SHOWN ARE TO INDICATE DEVICE, QUALITY, AND TYPE OF ITEM DESIRED ONLY.
5. THE CONDUIT MATERIAL SHALL BE AS FOLLOWS:
A) BELOW GRADE - RIGID NON-METALLIC. (POWER ONLY) - 3/4" MINIMUM.
B) RISER FROM 36" BELOW GRADE - RIGID GALVANIZED STEEL
C) CONCEALED RISER FROM 36" BELOW GRADE - RIGID NON-METALLIC. (POWER ONLY)
D) ABOVE GRADE SUBJECT TO PHYSICAL ABUSE - RIGID GALVANIZED STEEL OR INTERMEDIATE.
E) ABOVE GRADE NOT SUBJECT TO PHYSICAL ABUSE OR WEATHER - ELECTRICAL METALLIC TUBING.
F) INDOORS NOT SUBJECT TO PHYSICAL ABUSE - ELECTRICAL METALLIC TUBING.
6. THE LOADS SHOWN FOR APPLIANCES AND EQUIPMENT ARE BASED ON DESIGN INFORMATION. THE CONTRACTOR SHALL VERIFY ALL APPLIANCE LOADS PRIOR TO RUNNING THE CIRCUIT. THE MINIMUM CIRCUIT REQUIREMENTS SHALL BE BASED ON THE APPLIANCE NAMEPLATE VALUE OR CODE REQUIREMENTS, WHICHEVER IS MORE STRINGENT. ADDITIONAL COMPENSATION SHALL NOT BE ALLOWED FOR APPLIANCE MODIFICATIONS BY THE CONTRACTOR.
7. COORDINATE LOCATIONS OF ELECTRICAL EQUIPMENT, DEVICES, OUTLETS, FIXTURES, ETC., WITH ARCHITECTURAL PLANS, ELEVATIONS AND REFLECTED CEILING PLANS PRIOR TO ROUGH-IN WORK.
8. WALL OUTLETS SHALL NOT BE INSTALLED BACK TO BACK.
9. CONTRACTOR SHALL SUPPLY ALL NECESSARY ELECTRICAL DEVICES IN THE CABINETS, INCLUDING BUT NOT LIMITED TO: RECEPTACLES, CONDUIT, JUNCTION BOXES, CONDUCTORS, DEVICE PLATES.
10. PROVIDE A 6'-0" MAXIMUM FLEXIBLE CONNECTION FROM EACH RECESSED LIGHTING FIXTURE TO JUNCTION BOX ABOVE CEILING.
11. ALL FIRE ALARM CIRCUITS SHALL BE TERMINATED ON TERMINAL STRIPS. WIRE NUTS ARE PROHIBITED. ALL ANNUNCIATING AND INITIATING CIRCUITS ENTERING THE BUILDING AND AT THE FIRE ALARM PANEL SHALL BE PROVIDED WITH SUITABLE SURGE SUPPRESSORS (SEE SPECIFICATIONS).
12. VERIFY ALL POWER/DATA/PHONE RECEPTACLE ELEVATIONS LOCATED 7" CENTER LINE OVER COUNTERTOP WITH ARCHITECTURAL DETAILS PRIOR TO ROUGH-IN. LOCATE LONG AXIS HORIZONTALLY.
13. ALL CONDUITS NOT LOCATED UNDER SLAB SHALL HAVE A MINIMUM BURIAL DEPTH OF 36" UNLESS NOTED OTHERWISE.
14. ALL SAFETY SWITCH DISCONNECTS LOCATIONS IN MECHANICAL ROOMS SHALL HAVE 3'-0" MIN. OF WORKING SPACE IN FRONT OF DISCONNECT; COORDINATE WITH MECHANICAL CONTRACTOR AND EQUIPMENT LOCATIONS.
15. FINAL CONDUIT CONNECTIONS TO HEAT PUMPS, AIR HANDLERS, EXHAUST FANS, AND WATER HEATERS SHALL BE FLEXIBLE METAL (LIQUID TIGHT IN FLAMMABLE, OUTSIDE AND OTHER DAMP AND WET LOCATIONS).
16. CONTRACTOR SHALL COORDINATE ALL WORK WITH OTHER TRADES PRIOR TO INSTALLATION. REFER TO MECHANICAL AND PLUMBING DRAWINGS FOR EXACT LOCATION AND SIZE OF EQUIPMENT WHICH ARE PROVIDED BY OTHERS AND CONNECTED BY ELECTRICAL.
17. RECEPTACLES, SWITCHES AND COVER PLATES COLOR SHALL BE SELECTED BY THE ARCHITECT FROM STANDARD COLORS.
18. VERIFY ALL DOOR SWINGS WITH ARCHITECTURAL DRAWINGS PRIOR TO ROUGHING IN FOR SWITCHES.
19. CONDUITS LEAVING OR ENTERING BUILDING SHALL BE SEALED PER N.E.C. TO PREVENT ENTRANCE OF MOISTURE.
20. ALL EXHAUST FAN DISCONNECTS AND OVERLOADS ARE SCHEDULED TO BE PROVIDED UNDER DIVISION 23.
21. ALL DIMENSIONS TO DEVICES AFF SHALL BE TO CENTERLINE UNLESS NOTED OTHERWISE.
22. WORKING SPACE OF 36" FOR 120/208 SYSTEMS AND 42" FOR 277/480 SYSTEMS SHALL BE MAINTAINED IN FRONT OF ALL ELECTRICAL PANELS AND DEVICES.
23. ALL SIDEWALKS AND PARKING LOT ASPHALT AREAS THAT ARE CUT DUE TO NEW ELECTRICAL SERVICES SHALL BE REPAIRED.
24. FINAL CONNECTION TO ALL EQUIPMENT IS SHOWN DIAGRAMMATIC. PROVIDE FINAL CONNECTION AS REQUIRED PER MANUFACTURER OF EQUIPMENT.



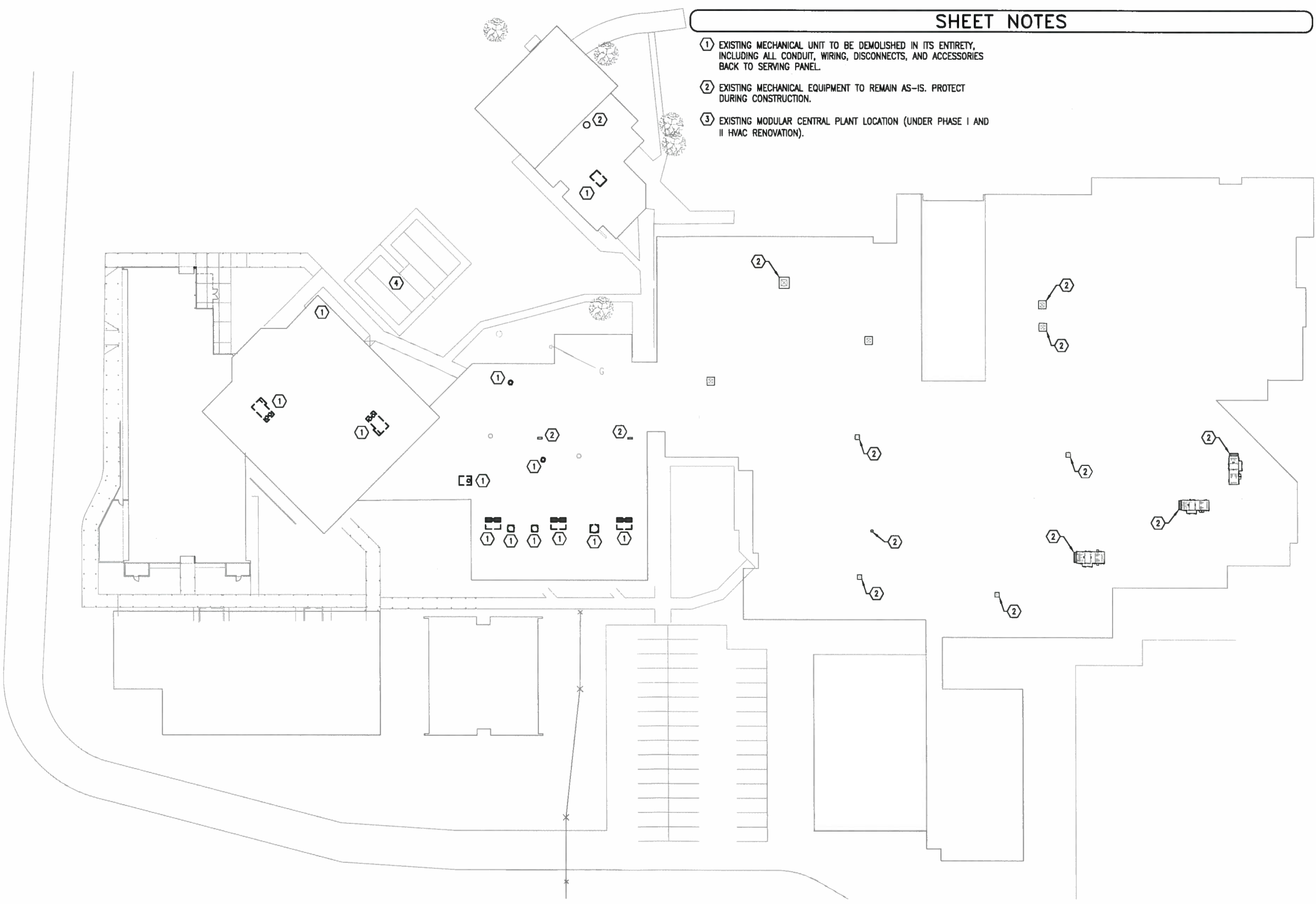
REVISION NUMBER	REVISION DESCRIPTION

GULF BREEZE HIGH SCHOOL
HVAC RENOVATION PH. III
SANTA ROSA COUNTY SCHOOL DISTRICT

DESIGNED BY: JTH
DRAWN BY: JTH
CHECKED BY: TAN
DATE: JUNE 9, 2015

SHEET TITLE:
ELECTRICAL
LEGEND,
NOTES, &
ABBREVIATIONS

SHEET:
E001
PHASE 2 - DESIGN
DEVELOPMENT SUBMITTAL



SHEET NOTES

- 1 EXISTING MECHANICAL UNIT TO BE DEMOLISHED IN ITS ENTIRETY, INCLUDING ALL CONDUIT, WIRING, DISCONNECTS, AND ACCESSORIES BACK TO SERVING PANEL.
- 2 EXISTING MECHANICAL EQUIPMENT TO REMAIN AS-IS. PROTECT DURING CONSTRUCTION.
- 3 EXISTING MODULAR CENTRAL PLANT LOCATION (UNDER PHASE I AND II HVAC RENOVATION).

1 ELECTRICAL DEMOLITION ROOF PLAN
32' 0' 32' 64'
SCALE: 1/32"=1'-0"

SCHMIDT
CONSULTING GROUP, INC.
MECHANICAL • ELECTRICAL • STRUCTURAL
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TODD NICHOLSON P.E.
FLORIDA LICENSE NUMBER 56882
SCG project: 2015-134

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REVISION NUMBER	REVISION DESCRIPTION

GULF BREEZE HIGH SCHOOL
HVAC RENOVATION PH. III
SANTA ROSA COUNTY SCHOOL DISTRICT

DESIGNED BY:
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DRAWN BY:
JTH
CHECKED BY:
TAN
DATE:
JUNE 9, 2015

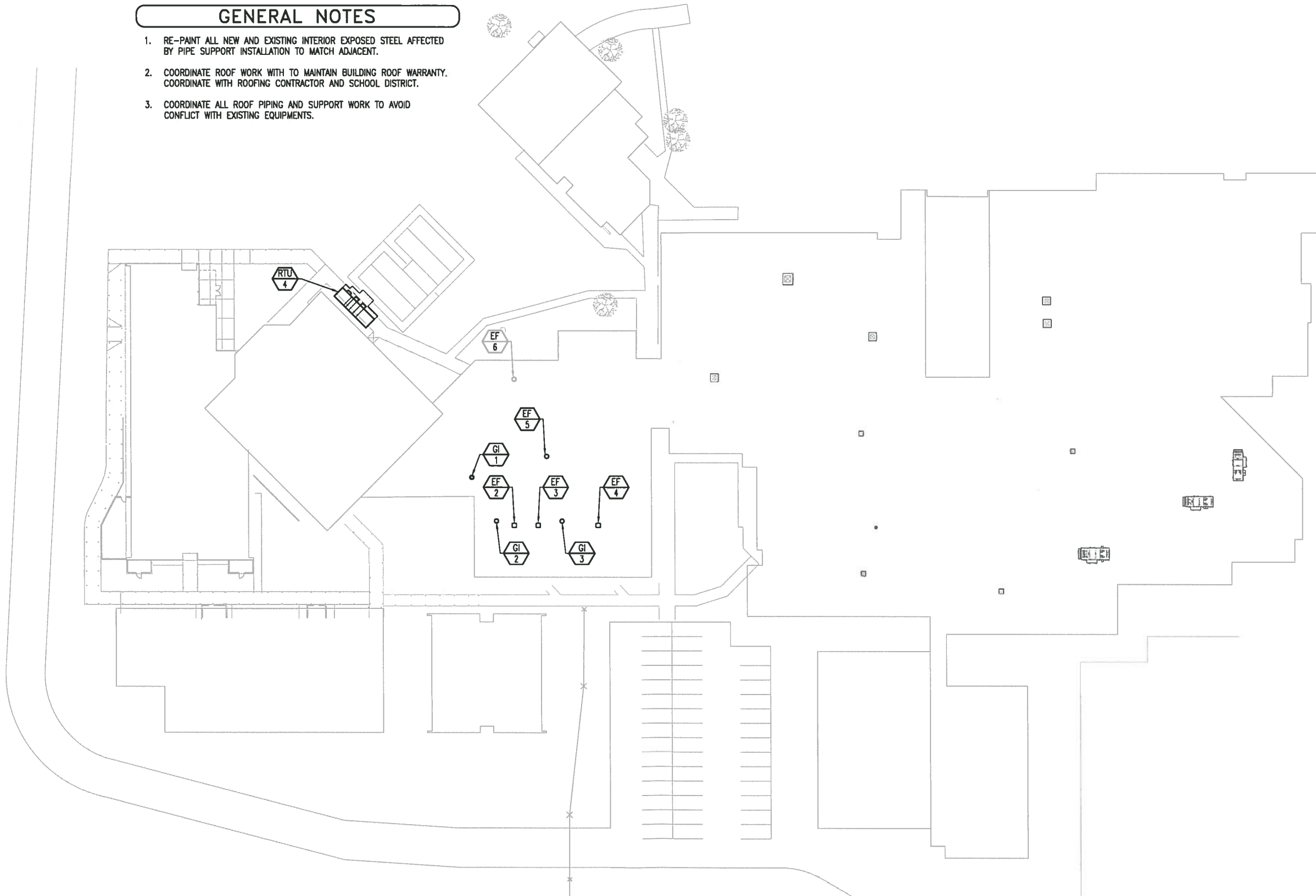
SHEET TITLE:
ELECTRICAL
DEMOLITION
ROOF PLAN

SHEET:
E101

PHASE 2 - DESIGN
DEVELOPMENT SUBMITTAL

GENERAL NOTES

1. RE-PAINT ALL NEW AND EXISTING INTERIOR EXPOSED STEEL AFFECTED BY PIPE SUPPORT INSTALLATION TO MATCH ADJACENT.
2. COORDINATE ROOF WORK WITH TO MAINTAIN BUILDING ROOF WARRANTY. COORDINATE WITH ROOFING CONTRACTOR AND SCHOOL DISTRICT.
3. COORDINATE ALL ROOF PIPING AND SUPPORT WORK TO AVOID CONFLICT WITH EXISTING EQUIPMENTS.



 1
32' 0' 32' 64'
SCALE: 1/32"=1'-0"

ELECTRICAL ROOF PLAN

SEAL
NOT FOR CONSTRUCTION

REVISION NUMBER	REVISION DESCRIPTION

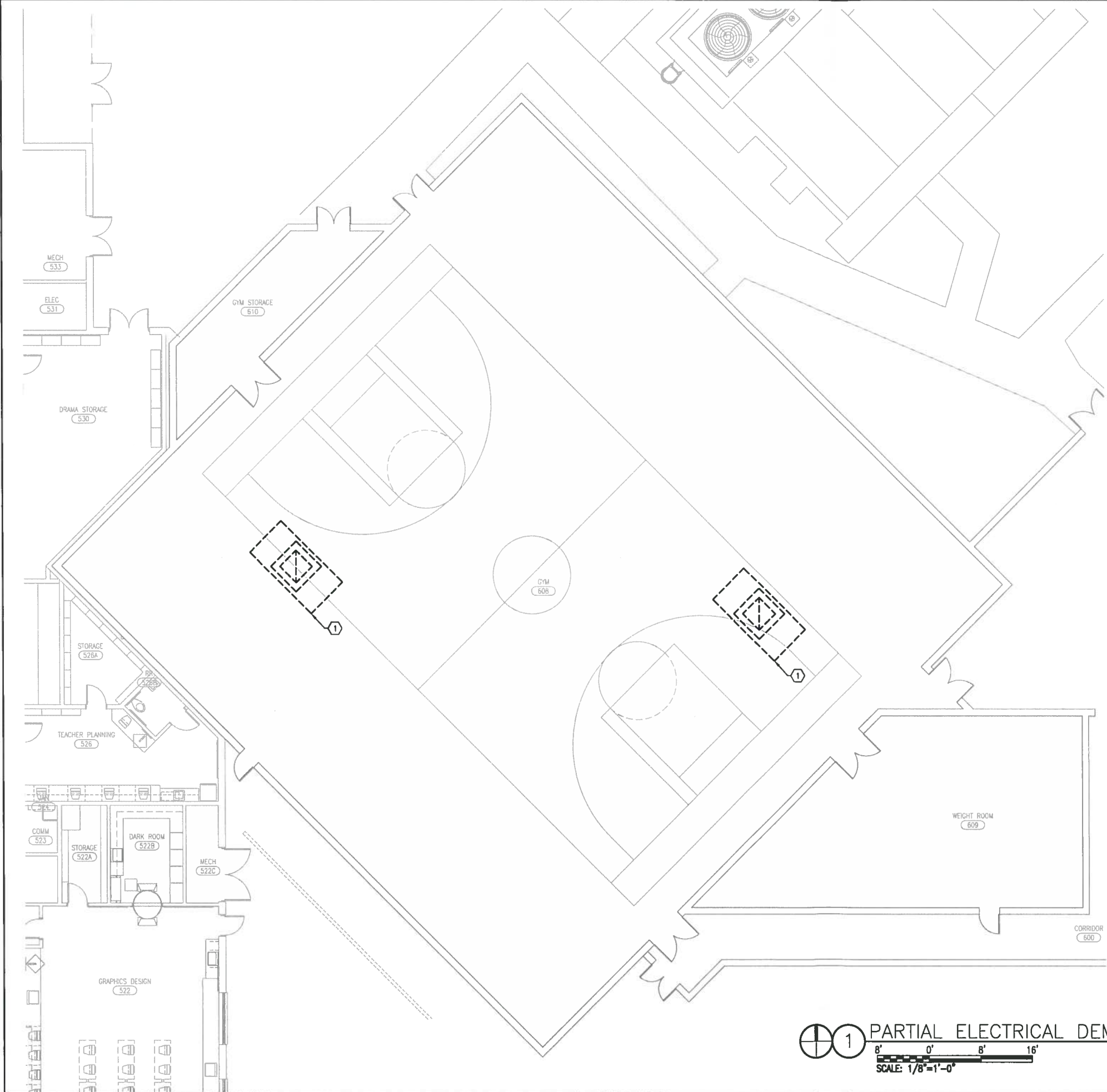
**GULF BREEZE HIGH SCHOOL
HVAC RENOVATION PH. III**
SANTA ROSA COUNTY SCHOOL DISTRICT

DESIGNED BY:
JTH
DRAWN BY:
JTH
CHECKED BY:
TAN
DATE:
JUNE 9, 2015

SHEET TITLE:
ELECTRICAL
NEW WORK
ROOF PLAN

SHEET:
E102

PHASE 2 - DESIGN
DEVELOPMENT SUBMITTAL



SHEET NOTES

- 1 EXISTING MECHANICAL UNIT TO BE DEMOLISHED IN ITS ENTIRETY, INCLUDING ALL CONDUIT, WIRING, DISCONNECTS, AND ACCESSORIES BACK TO SERVING PANEL.



SCHMIDT
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FLORIDA LICENSE NUMBER 54882
SCO Project: 2015-124

SEAL

NOT FOR CONSTRUCTION

REVISION NUMBER	REVISION DESCRIPTION

GULF BREEZE HIGH SCHOOL
HVAC RENOVATION PH. III
SANTA ROSA COUNTY SCHOOL DISTRICT

DESIGNED BY:
JTH

DRAWN BY:
JTH

CHECKED BY:
TAN

DATE:
JUNE 9, 2015

SHEET TITLE:
PARTIAL
ELECTRICAL
DEMOLITION
PLAN

SHEET:
E201

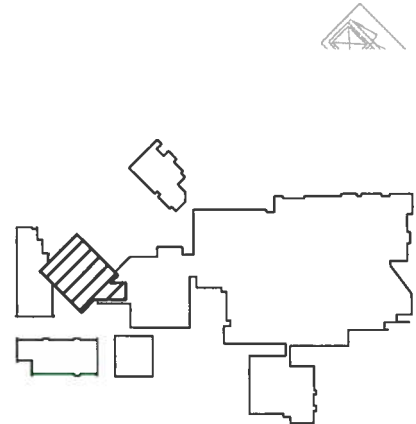
PHASE 2 - DESIGN
DEVELOPMENT SUBMITTAL



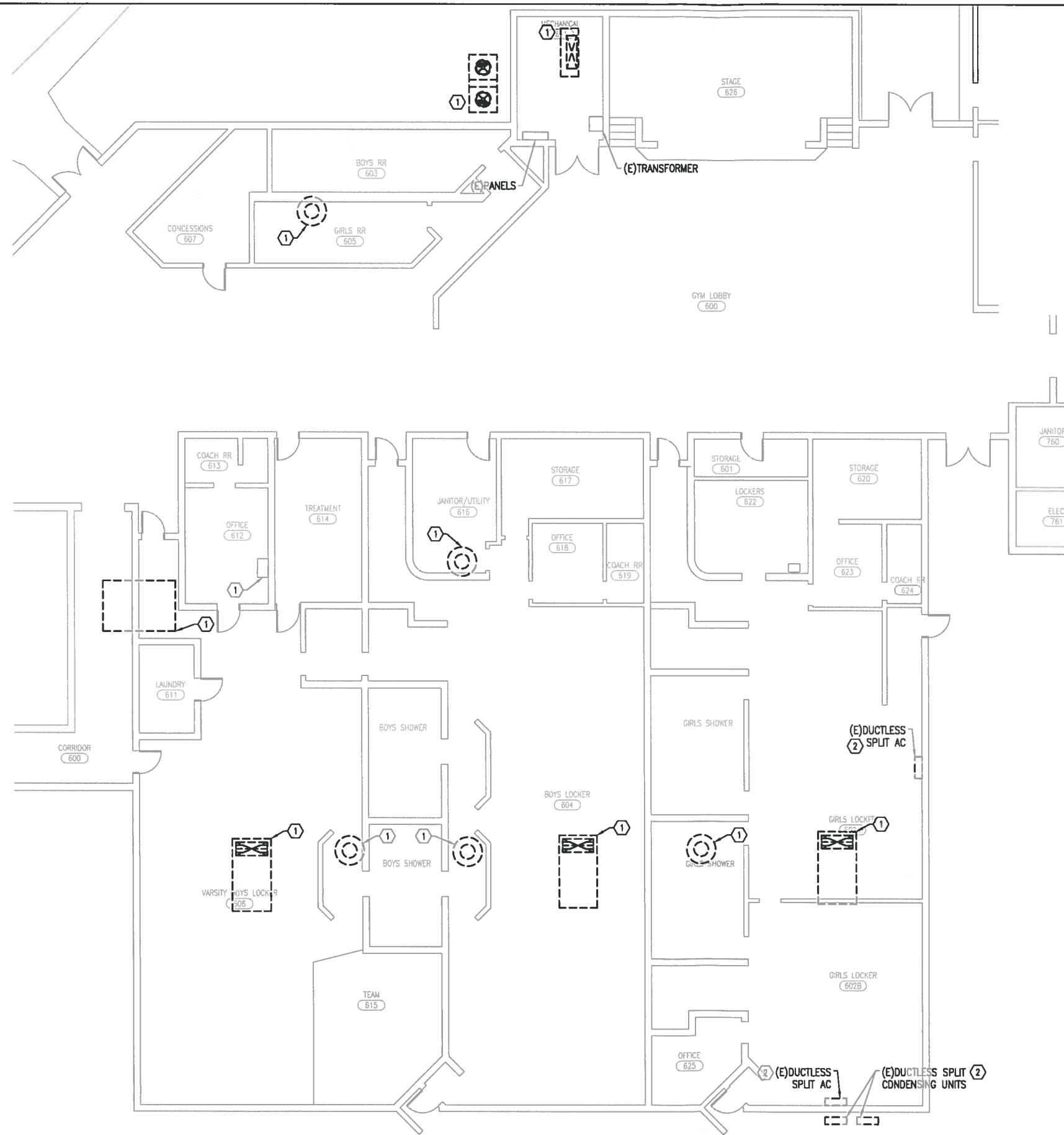
1 PARTIAL ELECTRICAL DEMO PLAN

8' 0' 8' 16'

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



KEY PLAN
NOT TO SCALE



SHEET NOTES

- 1 EXISTING MECHANICAL UNIT TO BE DEMOLISHED IN ITS ENTIRETY, INCLUDING ALL CONDUIT, WIRING, DISCONNECTS, AND ACCESSORIES BACK TO SERVING PANEL.
- 2 EXISTING MECHANICAL UNIT TO BE DEMOLISHED IN ITS ENTIRETY, INCLUDING ALL CONDUIT, WIRING, DISCONNECTS, AND ACCESSORIES BACK TO SERVING PANEL. RETURN EQUIPMENT BACK TO SANTA ROSA COUNTY SCHOOL DISTRICT MAINTENANCE DEPARTMENT.

SEAL
NOT FOR CONSTRUCTION

REVISION NUMBER	REVISION DESCRIPTION

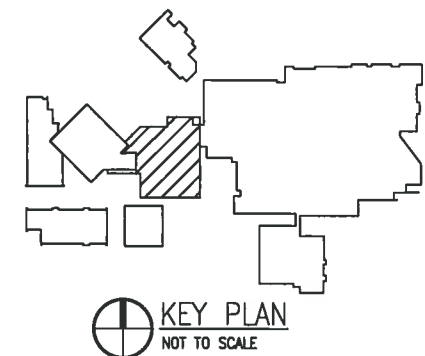
GULF BREEZE HIGH SCHOOL HVAC RENOVATION PH. III SANTA ROSA COUNTY SCHOOL DISTRICT

DESIGNED BY:
JTH
DRAWN BY:
JTH
CHECKED BY:
TAN
DATE:
JUNE 9, 2015

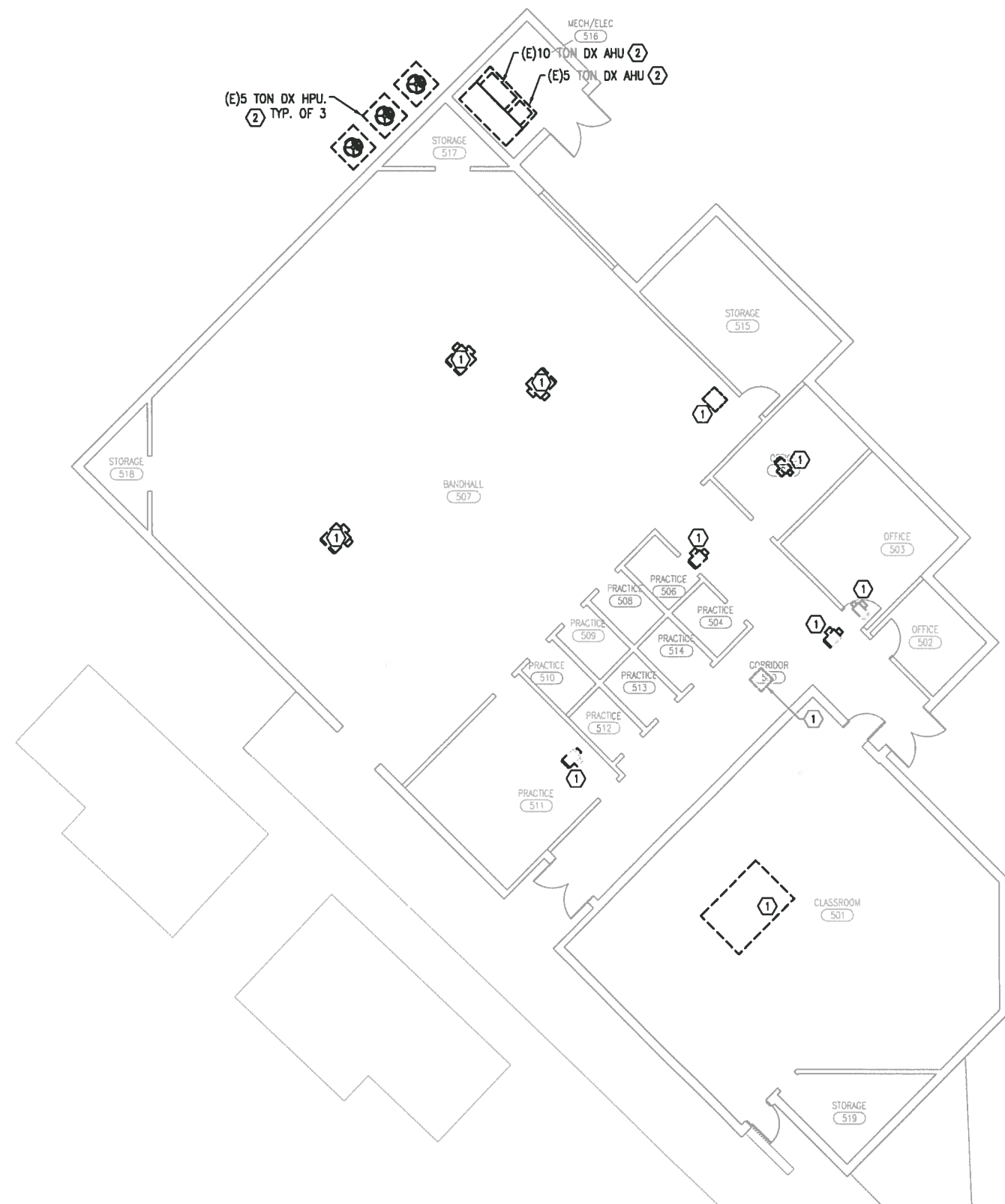
SHEET TITLE:
PARTIAL
ELECTRICAL
DEMOLITION
PLAN

SHEET:
E202

PHASE 2 - DESIGN
DEVELOPMENT SUBMITTAL



1 PARTIAL ELECTRICAL DEMOLITION PLAN
8' 0' 8' 16'
SCALE: 1/8"=1'-0"



SHEET NOTES

- 1 EXISTING MECHANICAL UNIT TO BE DEMOLISHED IN ITS ENTIRETY, INCLUDING ALL CONDUIT, WIRING, DISCONNECTS, AND ACCESSORIES BACK TO SERVING PANEL.

SCHMIDT
CONSULTING GROUP, INC.

MECHANICAL • ELECTRICAL • STRUCTURAL
COMMUNICATIONS • INDUSTRIAL

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TODD NICHOLSON P.E.
FLORIDA LICENSE NUMBER 54882
SCG Project: 2015-124

SEAL

NOT FOR CONSTRUCTION

REVISION NUMBER	REVISION DESCRIPTION

GULF BREEZE HIGH SCHOOL
HVAC RENOVATION PH. III
SANTA ROSA COUNTY SCHOOL DISTRICT

DESIGNED BY:
JTH

DRAWN BY:
JTH

CHECKED BY:
TAN

DATE:
JUNE 9, 2015

SHEET TITLE:
PARTIAL
ELECTRICAL
DEMOLITION
PLAN

SHEET:
E203

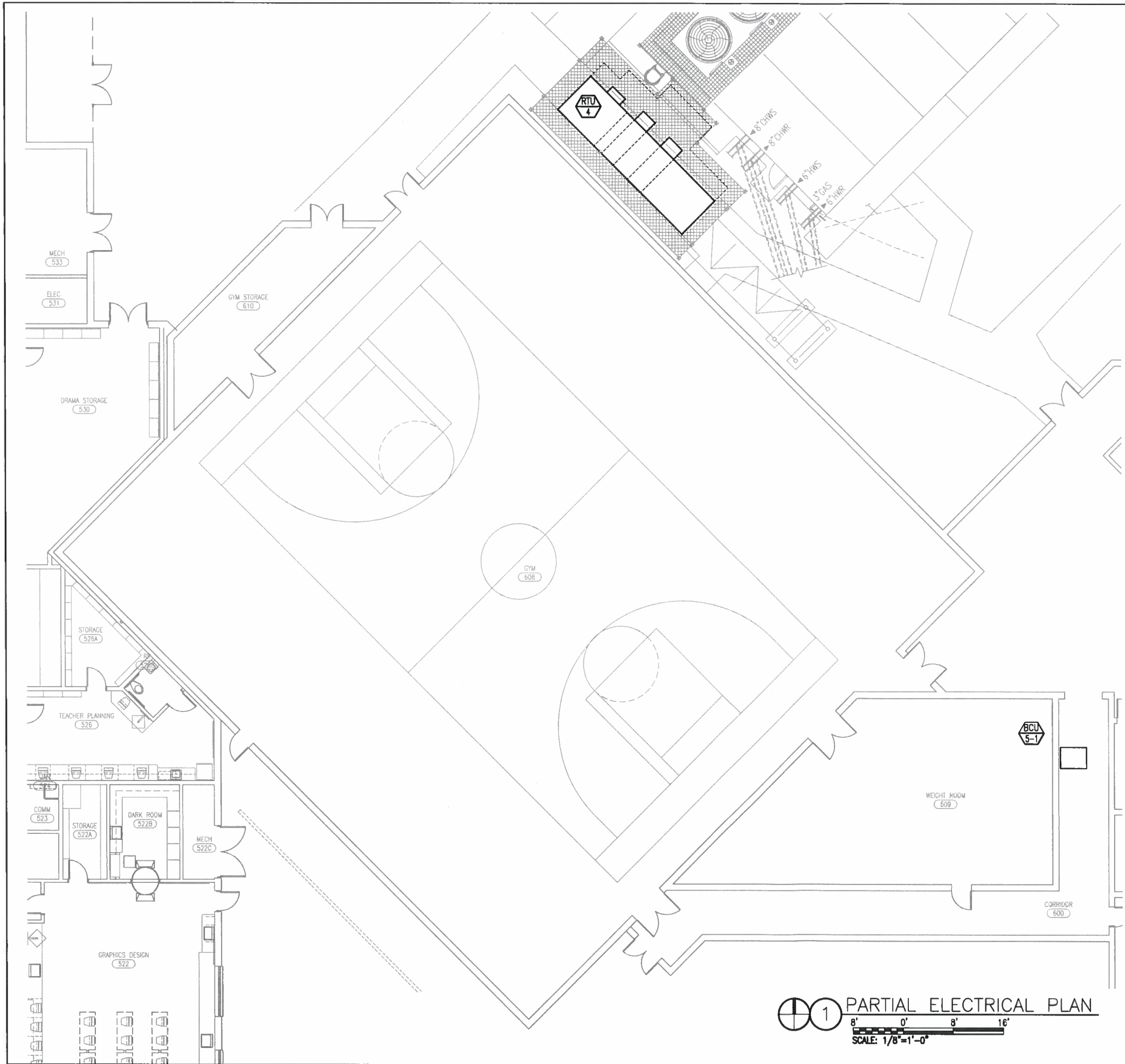
PHASE 2 - DESIGN
DEVELOPMENT SUBMITTAL

1 PARTIAL ELECTRICAL DEMOLITION PLAN

8' 0' 8' 16'

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

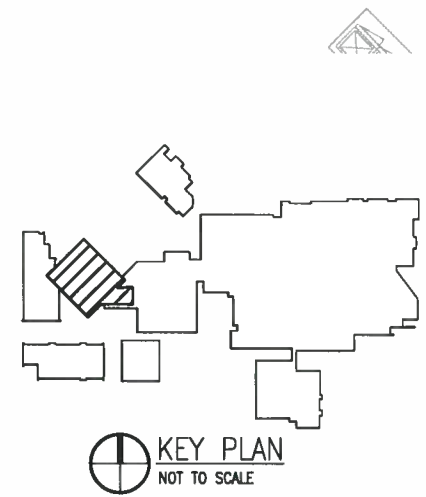
KEY PLAN
NOT TO SCALE



1 PARTIAL ELECTRICAL PLAN
 8' 0' 8' 16'
 SCALE: 1/8"=1'-0"

SHEET NOTES

- 1 ...
- 2
- 3



KEY PLAN
 NOT TO SCALE

SCHMIDT
 CONSULTING GROUP, INC.
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 COMMUNICATIONS - INDUSTRIAL
 FLORIDA LICENSE NUMBER 05371
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 TODD MICHALOW P.E.
 FLORIDA LICENSE NUMBER 56882
 SCG project: 2015-124

SEAL
 NOT FOR CONSTRUCTION

REVISION NUMBER	REVISION DESCRIPTION

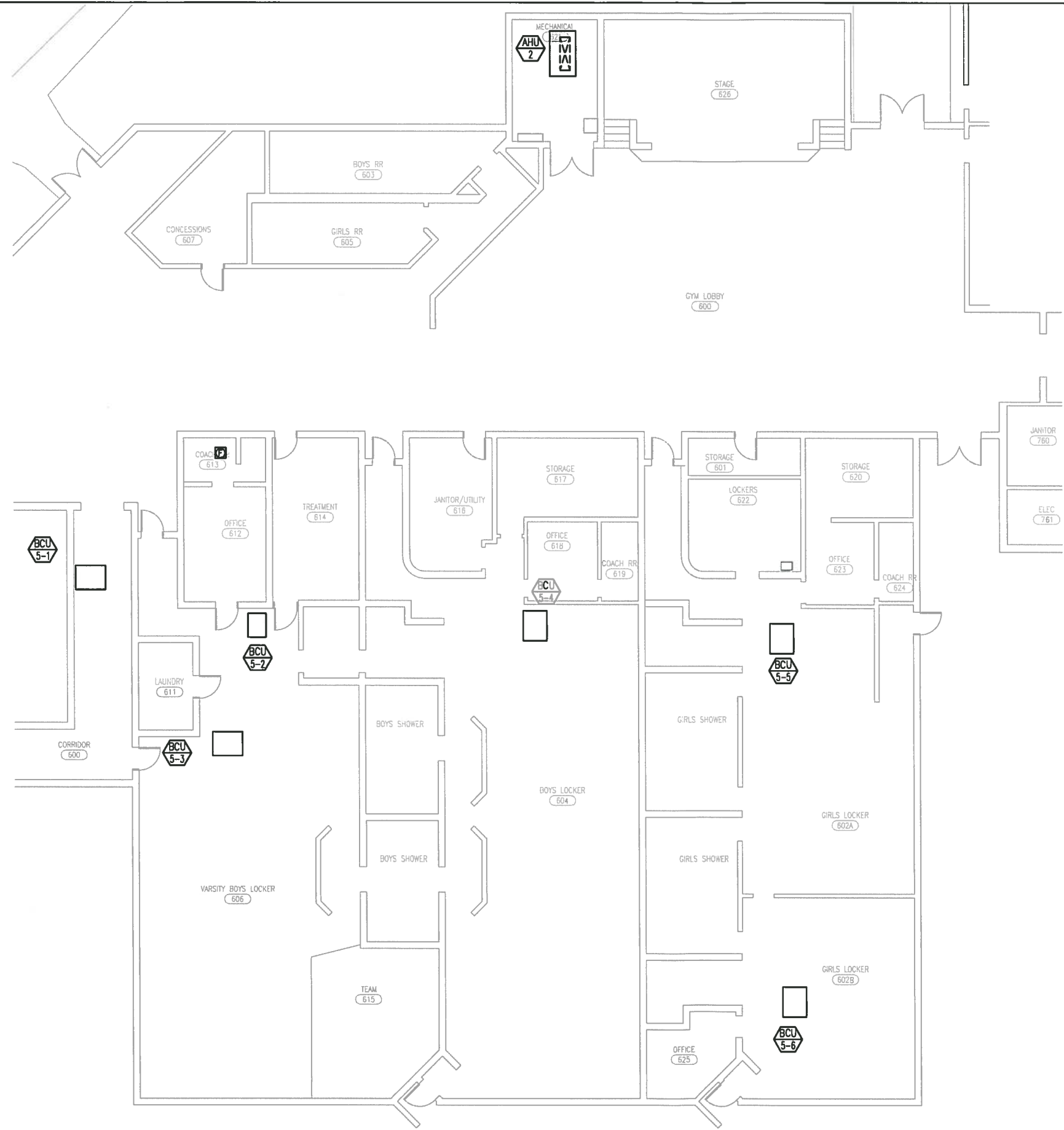
GULF BREEZE HIGH SCHOOL
 HVAC RENOVATION PH. III
 SANTA ROSA COUNTY SCHOOL DISTRICT

DESIGNED BY:
 JTH
 DRAWN BY:
 JTH
 CHECKED BY:
 TAN
 DATE:
 JUNE 9, 2015

SHEET TITLE:
 PARTIAL
 ELECTRICAL
 NEW WORK
 PLAN

SHEET:
 E301

PHASE 2 - DESIGN
 DEVELOPMENT SUBMITTAL



SHEET NOTES

- ① ROUTE EXHAUST DUCT TO NEW EXHAUST FAN. PROVIDE DUCT TRANSITION AS REQUIRED.

SCHMIDT
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COMMUNICATIONS - INDUSTRIAL
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403 Paradise Pl. Ste. 300 - Pensacola, FL 32502
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TODD NICHOLSON P.E.
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SCG project 2015-124

SEAL
NOT FOR CONSTRUCTION

REVISION NUMBER	REVISION DESCRIPTION

GULF BREEZE HIGH SCHOOL
HVAC RENOVATION PH. III
SANTA ROSA COUNTY SCHOOL DISTRICT

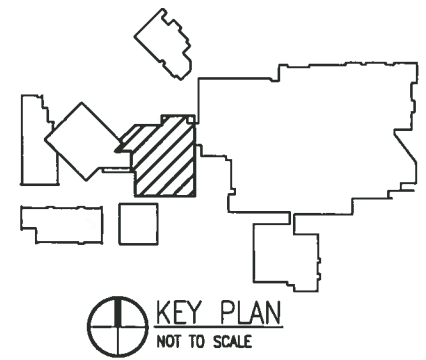
DESIGNED BY:
AL
DRAWN BY:
AL
CHECKED BY:
WJJ
DATE:
JUNE 9, 2015

SHEET TITLE:
PARTIAL
ELECTRICAL
NEW WORK
PLAN

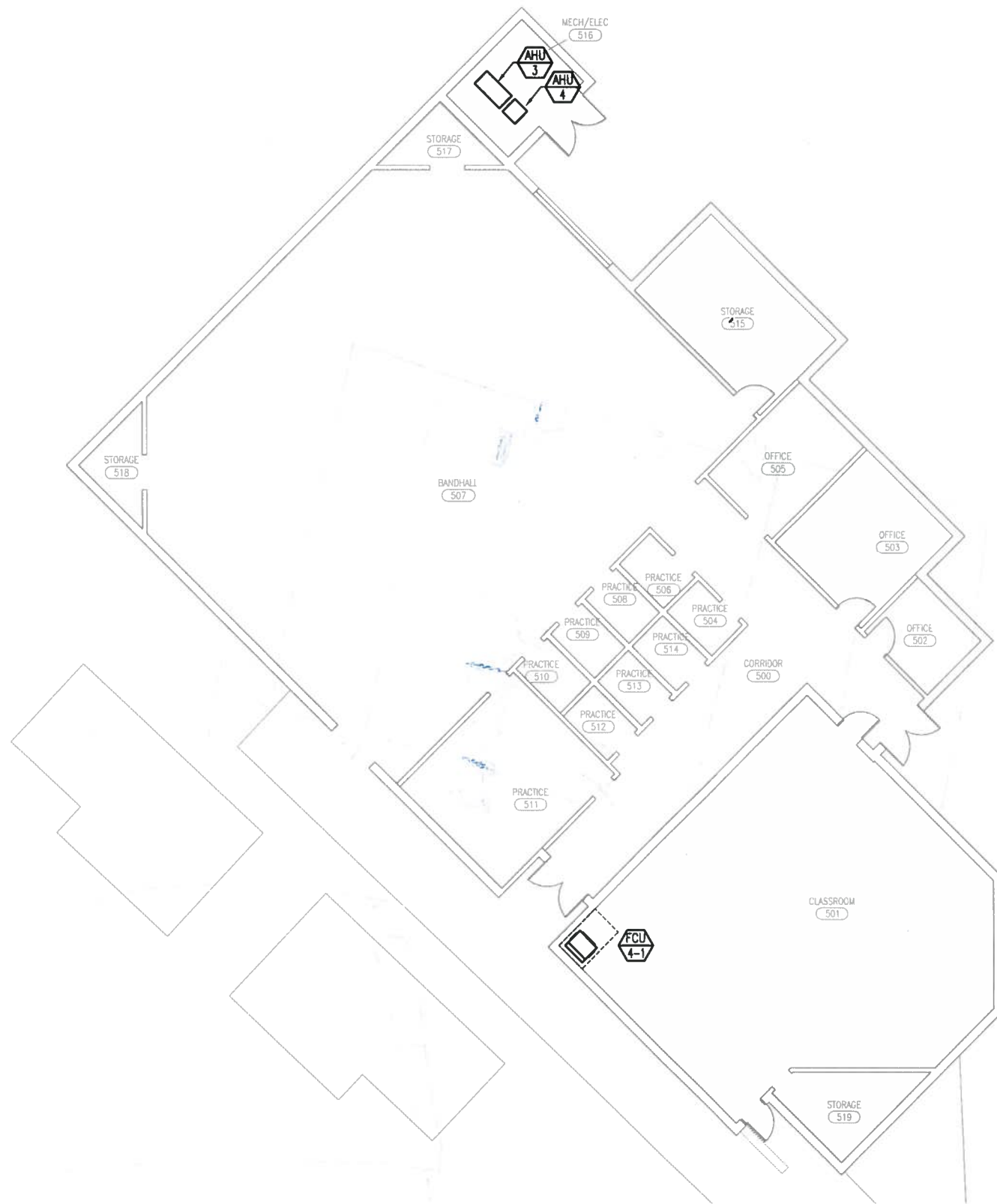
SHEET:
E302

PHASE 2 - DESIGN
DEVELOPMENT SUBMITTAL

1 PARTIAL ELECTRICAL PLAN
8' 0' 8' 16'
SCALE: 1/8"=1'-0"



KEY PLAN
NOT TO SCALE



SHEET NOTES

①

SEAL

NOT FOR CONSTRUCTION

REVISION
DESCRIPTION

REVISION
NUMBER

GULF BREEZE HIGH SCHOOL HVAC RENOVATION PH. III SANTA ROSA COUNTY SCHOOL DISTRICT

DESIGNED BY:
JTH

DRAWN BY:
JTH

CHECKED BY:
TAN

DATE:
JUNE 9, 2015

SHEET TITLE:
PARTIAL
ELECTRICAL
NEW WORK
PLAN

SHEET:
E303

PHASE 2 - DESIGN
DEVELOPMENT SUBMITTAL

① PARTIAL ELECTRICAL PLAN
8' 0' 8' 16'
SCALE: 1/8"=1'-0"

