

GENERAL NOTES

- ALL REFERENCES HEREIN TO THE CONTRACTOR SHALL REFER TO THE PLUMBING CONTRACTOR UNLESS OTHERWISE NOTED.
- THE ENTIRE INSTALLATION SHALL BE COORDINATED WITH THE WORK OF ALL OTHER TRADES PRIOR TO ANY FABRICATION OR INSTALLATION. THE CONTRACTOR SHALL VERIFY, IN THE FIELD, THE EXACT LOCATION OF ALL EXISTING PLUMBING SYSTEMS PRIOR TO MAKING NEW CONNECTIONS TO EXISTING LINES. THE CONTRACTOR SHALL PROVIDE ALL FITTINGS, OFFSETS, AND TRANSITIONS REQUIRED FOR A COMPLETE WORKABLE INSTALLATION.
- DO NOT SCALE FROM THESE DRAWINGS.
- DO NOT MAKE ANY CHANGES OR SUBSTITUTIONS WITHOUT SPECIFIC WRITTEN APPROVAL FROM THE ARCHITECT OR ENGINEER.
- ANY DISCREPANCIES OR INADEQUACIES WITHIN BID DOCUMENTS, BETWEEN THESE BID DOCUMENTS AND RELATED HVAC, FIRE PROTECTION, ELECTRICAL, STRUCTURAL, ARCHITECTURAL, INTERIOR DECOR, AND STRUCTURAL BID DOCUMENTS, OR BETWEEN THESE BID DOCUMENTS AND FIELD CONDITIONS MUST BE BROUGHT TO THE ATTENTION OF THE ARCHITECT AND ENGINEER PRIOR TO BID SUBMISSION.
- THE CONTRACTOR SHALL PROVIDE A COMPLETE SET OF RECORD "AS BUILT" DRAWINGS INDICATING THE PRECISE LOCATION OF ALL SYSTEMS, EQUIPMENT, CONCEALED OR EMBEDDED PIPING, EXPOSED PIPING, PIPING CONNECTIONS, AND ACCESS PANELS/DOORS. THESE DRAWINGS SHALL INCLUDE ALL CHANGES AND DEVIATIONS FROM CONSTRUCTION DOCUMENTS. THESE DOCUMENTS SHALL ALSO BE PROVIDED TO THE OWNER IN AN APPROVED AUTOCAD FORMAT.
- THE CONTRACTOR SHALL COORDINATE ELECTRICAL CHARACTERISTICS OF ALL PLUMBING EQUIPMENT WITH THE ELECTRICAL DRAWINGS AND ELECTRICAL CONTRACTOR. THE CONTRACTOR SHALL FURNISH PLUMBING EQUIPMENT WIRED FOR THE VOLTAGES SHOWN IN CONTRACT DOCUMENTS AND COORDINATED WITH ELECTRICAL CONTRACTOR.
- ALL EQUIPMENT SHALL BE INSTALLED IN STRICT ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS AND ALL APPLICABLE CODES. THE CONTRACTOR SHALL PROVIDE ALL FITTINGS, TRANSITIONS, VALVES, AND OTHER DEVICES REQUIRED FOR A COMPLETE WORKABLE INSTALLATION.
- THE CONTRACTOR SHALL SUBMIT, PRIOR TO ANY FABRICATION OR INSTALLATION, ALL NECESSARY DRAWINGS, EQUIPMENT/MATERIAL PRODUCT DATA, DOCUMENTATION, AND CALCULATIONS REQUIRED TO COMPLETE THE WORK OUTLINED IN THE CONTRACT DOCUMENTS.
- THE CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS AND APPROVALS FROM THE AUTHORITIES HAVING JURISDICTION PRIOR TO ANY FABRICATION OR INSTALLATION. ALL FEES FOR PERMITS AND INSPECTIONS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
- ALL ABOVE GRADE PIPING SHALL BE PROPERLY SUPPORTED FROM THE BUILDING STRUCTURE. NO PIPING SHALL REST ON CEILING TILES OR CEILING STRUCTURE.
- THE CONTRACTOR SHALL PROVIDE INSULATION ON ALL COLD WATER, HOT WATER, AND HOT WATER RECIRCULATION PIPING. THE CONTRACTOR SHALL PROVIDE INSULATION ON ALL HORIZONTAL STORM WATER PIPING.
- THE CONTRACTOR SHALL PROVIDE REDUCING FITTING AT ALL CHANGES IN DIAMETER OF SANITARY, WASTE, AND STORM PIPING.
- THE CONTRACTOR SHALL PROVIDE ALL NECESSARY SERVICE CONNECTIONS TO ALL EQUIPMENT AND FIXTURE INDICATED ON THE ARCHITECTURAL AND PLUMBING DRAWINGS. THE CONTRACTOR SHALL PROVIDE ALL NECESSARY SERVICE CONNECTIONS TO HVAC AND FIRE PROTECTION EQUIPMENT.

DEMOLITION NOTES

- THE CONTRACTOR SHALL INCLUDE IN THEIR PRICE ALL COSTS ASSOCIATED WITH REMOVALS AND RELOCATIONS OF PLUMBING WORK AS DESCRIBED ON THE DRAWINGS AND IN THE SPECIFICATIONS WITH ALLOWANCES FOR EXPECTED OR UNFORESEEN DIFFICULTIES WHEN CONCEALED WORK HAS BEEN OPENED. NO CLAIMS FOR ADDITIONAL WORK ASSOCIATED WITH DEMOLITION WILL BE ACCEPTED, EXCEPT IN CERTAIN CASES CONSIDERED JUSTIFIABLE BY THE ARCHITECT.
- THE CONTRACTOR SHALL REMOVE AND/OR RELOCATE ALL EXISTING PLUMBING WORK WHICH INTERFERES WITH THE NEW ARCHITECTURAL LAYOUTS. ALL SYSTEMS WHICH ARE NO LONGER REQUIRED TO FUNCTION SHALL BE REMOVED BACK TO ACTIVE LINES.
- THE CONTRACTOR SHALL PERFORM DEMOLITION AND REMOVAL WORK WITH MINIMUM INTERFERENCE TO FUNCTIONING PLUMBING SYSTEMS. ALL AFFECTED SYSTEMS SHALL BE RECONNECTED AND RESTORED.
- DEMOLITION AND REMOVAL WORK SHALL BE PERFORMED IN A NEAT AND WORKMANLIKE MANNER. THE CONTRACTOR SHALL PATCH, REPAIR OR OTHERWISE RESTORE ANY DAMAGED INTERIOR OR EXTERIOR BUILDING SURFACE TO ITS ORIGINAL CONDITION.
- THE CONTRACTOR SHALL REMOVE ALL PIPING SUPPORTS, ETC. FROM PARTITIONS THAT ARE TO BE REMOVED. WHERE THE REMOVAL OF THESE ITEMS DISRUPTS EXISTING PIPING THAT IS TO REMAIN, THE CONTRACTOR SHALL INSTALL AND PROVIDE BYPASS CONNECTIONS AS NECESSARY.
- ALL PIPING WHICH BECOMES EXPOSED DURING THE ALTERATION WORK SHALL BE REMOVED AND REROUTED CONCEALED BEHIND FINISHED SURFACES.
- PORTIONS OF MAINS TO BE REMOVED OR ABANDONED AS A RESULT OF DEMOLITION WORK, BUT WHICH ARE REQUIRED TO REMAIN ACTIVE, SHALL BE CUT AT CONVENIENT LOCATIONS, REROUTED AND RECONNECTED.
- THE CONTRACTOR SHALL NOTIFY THE OWNER AT THE APPROPRIATE TIME OF THE PROJECTED DEMOLITION AND PHASING SCHEDULE SO THAT REMOVAL OR RELOCATION OF AFFECTED UTILITIES MAY BE CARRIED OUT IN COORDINATION WITH THE PROJECT REQUIREMENTS.
- ALL EXISTING MATERIAL AND EQUIPMENT IN USABLE CONDITION, WHICH IS TO BE REMOVED UNDER THIS CONTRACT, SHALL REMAIN THE PROPERTY OF THE OWNER OR SHALL BE DISPOSED OF BY THE PLUMBING CONTRACTOR, AS DIRECTED BY THE OWNER.
- ARRANGE TO WORK CONTINUOUSLY, INCLUDING OVER TIME, IF REQUIRED, TO ASSURE THAT SYSTEMS WILL BE SHUT DOWN ONLY DURING THE TIME ACTUALLY REQUIRED TO MAKE THE NECESSARY CONNECTIONS TO THE EXISTING SYSTEMS.
- THE SHUTDOWN OF EXISTING BUILDING PLUMBING SERVICES SHALL BE COORDINATED WITH THE OWNER. MAKE ARRANGEMENTS AT LEAST 5 BUSINESS DAYS PRIOR TO A SHUTDOWN.

ABBREVIATIONS LIST

(NOT ALL ABBREVIATIONS SHOWN ARE NECESSARILY USED ON THIS PROJECT)

BLDG	BUILDING
CO	CLEANOUT
CODP	CLEANOUT DECKPLATE
CLG	CEILING
CONN	CONNECT / CONNECTION
CONT	CONTINUE / CONTINUATION
CV	CHECK VALVE
CW	DOMESTIC COLD WATER
DIA	DIAMETER
DCV	DOUBLE CHECK VALVE BACKFLOW PREVENTER
DN	DOWN (PENETRATES FLOOR SLAB)
DW	DISHWASHER
DWG	DRAWING
EX	EXISTING
FD	FLOOR DRAIN
FT	FEET
FU	FIXTURE UNIT(S)
G	GAS
GV	GATE VALVE
GW	GREASE WASTE
GAL	GALLONS
GPM	GALLONS PER MINUTE
HW	DOMESTIC HOT WATER
HWR	DOMESTIC HOT WATER RECIRCULATION
IN	INCH
JS	JANITOR'S SINK
LAV	LAVATORY
LB	LAUNDRY BOX
MAX	MAXIMUM
MB	MANUFACTURED BY
MIN	MINIMUM
N/A	NOT APPLICABLE
NC	NORMALLY CLOSED
NO	NORMALLY OPEN
NTS	NOT TO SCALE
PSI	POUNDS PER SQUARE INCH - GAUGE
RPZ	REDUCED PRESSURE ZONE BACKFLOW PREVENTER
S	SANITARY/SOIL
SK	SINK
SQFT	SQUARE FEET
ST	STORM
TYP	TYPICAL
UON	UNLESS OTHERWISE NOTED
UP	UP (PENETRATES FLOOR SLAB)
UR	URINAL
V	VENT
VB	VACUUM BREAKER
VTR	VENT THROUGH ROOF
W	WASTE
WC	WATER CLOSET

SYMBOL LIST

(NOT ALL SYMBOLS SHOWN ARE NECESSARILY USED ON THIS PROJECT)

	SANITARY/SOIL PIPING
	BURIED SANITARY/SOIL PIPING
	GREASE WASTE PIPING
	BURIED GREASE WASTE PIPING
	STORM WATER PIPING
	VENT PIPING
	DOMESTIC COLD WATER PIPING
	DOMESTIC HOT WATER PIPING
	DOMESTIC HOT WATER RECIRCULATION PIPING
	NATURAL GAS PIPING
	ARROW REPRESENTS DIRECTION OF FLOW
	PIPING TO BE DEMOLISHED
	PIPE BREAK
	CAPPED OUTLET
	CLEANOUT / PLUGGED OUTLET
	CLEANOUT DECK PLATE
	P-TRAP
	PIPE DROP / DOWN
	PIPE RISE / UP
	PIPE BOTTOM CONNECTION
	PIPE TOP CONNECTION
	PIPE SIDE CONNECTION
	VACUUM BREAKER
	SHOCK ARRESTOR
	DRAIN
	PUMP
	VENT THROUGH ROOF
	WATERPROOF SLEEVE
	CHECK VALVE
	BALL VALVE
	GATE VALVE
	PLUG VALVE
	OUTSIDE SCREW & YOKE VALVE
	WATER METER
	MIXING VALVE
	PRESSURE REDUCING VALVE
	SOLENOID VALVE
	GAS PRESSURE REGULATOR
	GAS SHUTOFF
	POINT OF DISCONNECTION FROM EXISTING PIPING
	POINT OF CONNECTION TO EXISTING PIPING
	PLUMBING RISER DESIGNATION
	GAS RISER DESIGNATION
	STORM RISER DESIGNATION

SYMBOL LIST

(NOT ALL SYMBOLS SHOWN ARE NECESSARILY USED ON THIS PROJECT)

	EXISTING SANITARY/SOIL PIPING
	EXISTING BURIED SANITARY/SOIL PIPING
	EXISTING BURIED GREASE WASTE PIPING
	EXISTING BURIED STORM WATER PIPING
	EXISTING VENT PIPING
	EXISTING DOMESTIC COLD WATER PIPING
	EXISTING DOMESTIC HOT WATER PIPING
	EXISTING DOMESTIC HOT WATER RECIRCULATION PIPING
	EXISTING NATURAL GAS PIPING

CONNECTICUT STATE BUILDING CODES

- 2018 CONNECTICUT STATE BUILDING CODE
- 2015 INTERNATIONAL EXISTING BUILDING CODE
- 2015 INTERNATIONAL PLUMBING CODE
- 2015 INTERNATIONAL MECHANICAL CODE
- 2017 NATIONAL ELECTRICAL CODE (NFPA 70)
- LOCAL FIRE DEPARTMENT/FIRE MARSHAL
- ALL OTHER LOCAL AUTHORITIES HAVING JURISDICTION

CONNECTICUT STATE ENERGY CODES

- 2015 INTERNATIONAL ENERGY CONSERVATION CODE

REFERENCED STANDARDS

APPLICABLE REFERENCE STANDARDS SHALL BE AS REFERENCED BY ALL STATE AND LOCAL CODES. THE LIST BELOW IS FOR QUICK REFERENCE AND DOES NOT INCLUDE ALL APPLICABLE REFERENCE STANDARDS.

- 2013 NFPA 13 - STANDARD FOR THE INSTALLATION OF SPRINKLER SYSTEMS
- 2013 NFPA 14 - STANDARD FOR THE INSTALLATION OF STANDPIPE AND HOSE SYSTEMS
- 2013 NFPA 20 - STANDARD FOR THE INSTALLATION OF STATIONARY PUMPS FOR FIRE PROTECTION
- 2015 NFPA 54 - NATIONAL FUEL GAS CODE
- 2017 NFPA 70 - NATIONAL ELECTRICAL CODE
- 2013 NFPA 72 - NATIONAL FIRE ALARM AND SIGNALING CODE

PLUMBING DRAWING LIST

SHEET NUMBER	SHEET NAME
P-001	PLUMBING COVER PAGE
P-002	PLUMBING SCHEDULE SHEET
P-100a	PLUMBING BASEMENT WASTE & VENT PLAN
P-100b	PLUMBING BASEMENT DOM. WATER & GAS PLAN
P-101a	PLUMBING 1ST FLOOR WASTE & VENT PLAN
P-101b	PLUMBING 1ST FLOOR DOM. WATER & GAS PLAN
P-102	PLUMBING ATTIC PLAN
P-301	PLUMBING GAS RISER DIAGRAM
P-302	PLUMBING DOM. WATER RISER DIAGRAM
P-304	PLUMBING WASTE, VENT AND GREASE WASTE RISER DIAGRAMS
P-401	PLUMBING DETAILS
P-402	PLUMBING SCHEMATIC WATER DISTRIBUTION PLAN
P-501	PLUMBING SPECIFICATIONS



Revisions

#	DATE	ISSUE/REVISION DESCRIPTION

PHASE

ISSUED FOR PERMIT/BID



PROJECT NAME

**OFFUTT EDUCATION CENTER
AT LACHAT FARM**

106 GODFREY, ROAD
WESTON, CT

JOB NO.: MEA.2021.00011

DRAWN BY: CHECK BY:

DATE: 02/16/2022 SCALE: NTS

DRAWING TITLE

**PLUMBING
COVER PAGE**

DRAWING #

P-001

9/1/2021 9:50 AM Joe Mastroiucca C:\USERS\JOSEPH\DESKTOP\WORK\MEA_PROJECTS\2021\MEA_2021\00011_LACHAT_FARMS_EDU_CENTER\DESIGN\DRAWINGS\ELEMENTS\MEA_38X24_DWG



WATER HEATER SCHEDULE

Table with columns for DESIGNATION, MANUFACTURER, MODEL NUMBER, WATER STORAGE TEMPERATURE (F), WATER STORAGE CAPACITY (GAL), RECOVERY RATE, TEMPERATURE RISE (F), ELECTRICAL DATA (TOTAL KW LOAD, ELEMENT LOAD, VOLTAGE, PHASE), GAS DATA (NATURAL GAS, PROPANE, FUEL OIL, DUAL FUEL, LOAD (CFH), MINIMUM OPERATING PRESSURE, GAS SERVICE CONNECTION), and APPLICABLE AREAS.

DRAIN SCHEDULE

Table with columns for DESIGNATION, MANUFACTURER, MODEL NUMBER, DRAIN BODY SPECIFICATION (BRONZE, CAST IRON, GALVANIZED, STAINLESS STEEL, etc.), STRAINER SPECIFICATION (BRONZE, CAST IRON, GALVANIZED, NICKEL BRONZE, etc.), and APPLICABLE AREAS. Includes a NOTES section with 5 items regarding floor drains and primers.

OPENING / SLEEVE SCHEDULE

Table with columns for PIPE DIAMETER, WALL / FLOOR SLEEVE DIAMETER, and BEAM OPENING DIAMETER. Divided into INSULATED DOMESTIC COLD WATER, HOT WATER, AND HOT WATER RECIRCULATION PIPING, and UNINSULATED SANITARY, WASTE, VENT, STORM, AND GAS PIPING.

PUMP SCHEDULE

Table with columns for SERVICE, DESIGNATION, SIMPLEX SYSTEM, DUPLEX SYSTEM, TRIPLEX SYSTEM, EMERGENCY POWER, CAPACITY (EACH PUMP), ELECTRICAL DATA (EACH PUMP), PUMP SYSTEM SPECIFICATION, and REMARKS.

PIPE, FITTING, AND JOINT MATERIAL SCHEDULE

Table with columns for PIPING SYSTEM, PIPING LOCATION, PIPING SIZE, PIPING SPECIFICATION, FITTING SPECIFICATION, and JOINT SPECIFICATION. Includes a note: (NOT ALL PIPE, FITTING, AND JOINT MATERIALS SHOWN ARE NECESSARILY USED ON THIS PROJECT)

Revisions table with columns: #, DATE, ISSUE/REVISION DESCRIPTION.

PHASE
ISSUED FOR PERMIT/BID



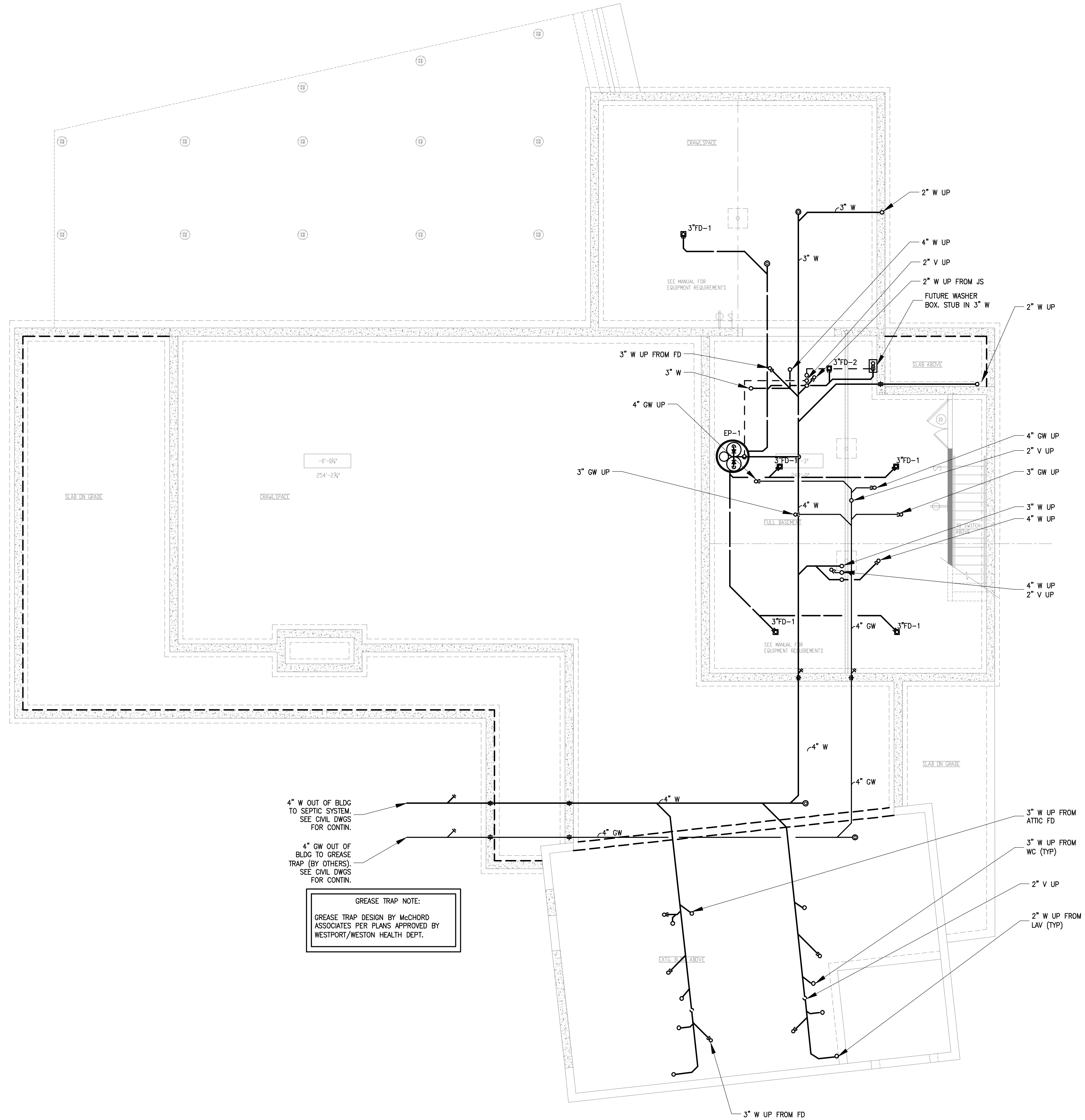
PROJECT NAME
OFFUTT EDUCATION CENTER AT LACHAT FARM
106 GODFREY, ROAD
WESTON, CT

JOB NO.: MEA.2021.00011
DRAWN BY: CHECK BY:
DATE: 02/16/2022 SCALE: NTS

DRAWING TITLE
PLUMBING SCHEDULE SHEET

DRAWING #
P-002

9/1/2021 9:50 AM Joe Mastroiucca C:\USERS\JOSEPH\DESKTOP\WORK\MEIA_PROJECTS\2021\MEIA_2021\00011_LACHAT_FARMS_EDU_CENTER\DESIGN\DRAWINGS\ELEMENTS\MEIA_36X24_DWG



4" W OUT OF BLDG TO SEPTIC SYSTEM. SEE CIVIL DWGS FOR CONTIN.

4" GW OUT OF BLDG TO GREASE TRAP (BY OTHERS). SEE CIVIL DWGS FOR CONTIN.

GREASE TRAP NOTE:
GREASE TRAP DESIGN BY McCHORD ASSOCIATES PER PLANS APPROVED BY WESTPORT/WESTON HEALTH DEPT.

Revisions

#	DATE	ISSUE/REVISION DESCRIPTION

PHASE
ISSUED FOR PERMIT/BID



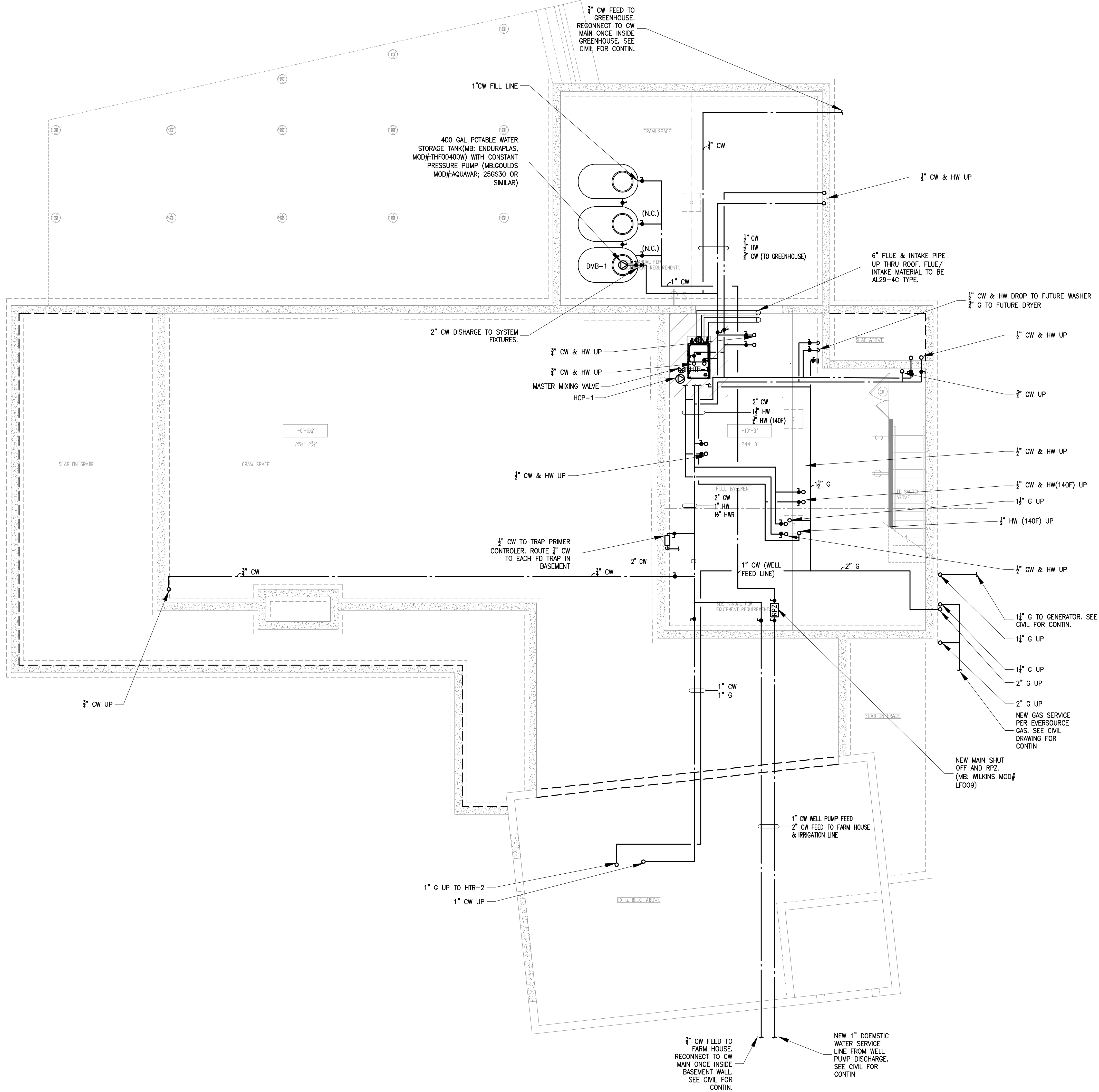
PROJECT NAME
OFFUTT EDUCATION CENTER AT LACHAT FARM
 106 GODFREY ROAD
 WESTON, CT

JOB NO.: MEA.2021.00011
 DRAWN BY: CHECK BY:
 DATE: 02/16/2022 SCALE: 3/16" = 1' - 0"

DRAWING TITLE
PLUMBING BASEMENT WASTE & VENT PLAN

DRAWING #
P-100a

C:\USERS\JOSEPH\DESKTOP\WORK\MEIA_PROJECTS\2021\MEIA_2021\00011_LACHAT_FARMS_EDU_CENTER\DESIGN\DRAWINGS\ELEMENTS\MEIA_36X24_DWG



Revisions		
#	DATE	ISSUE/REVISION DESCRIPTION

PHASE
ISSUED FOR PERMIT/BID



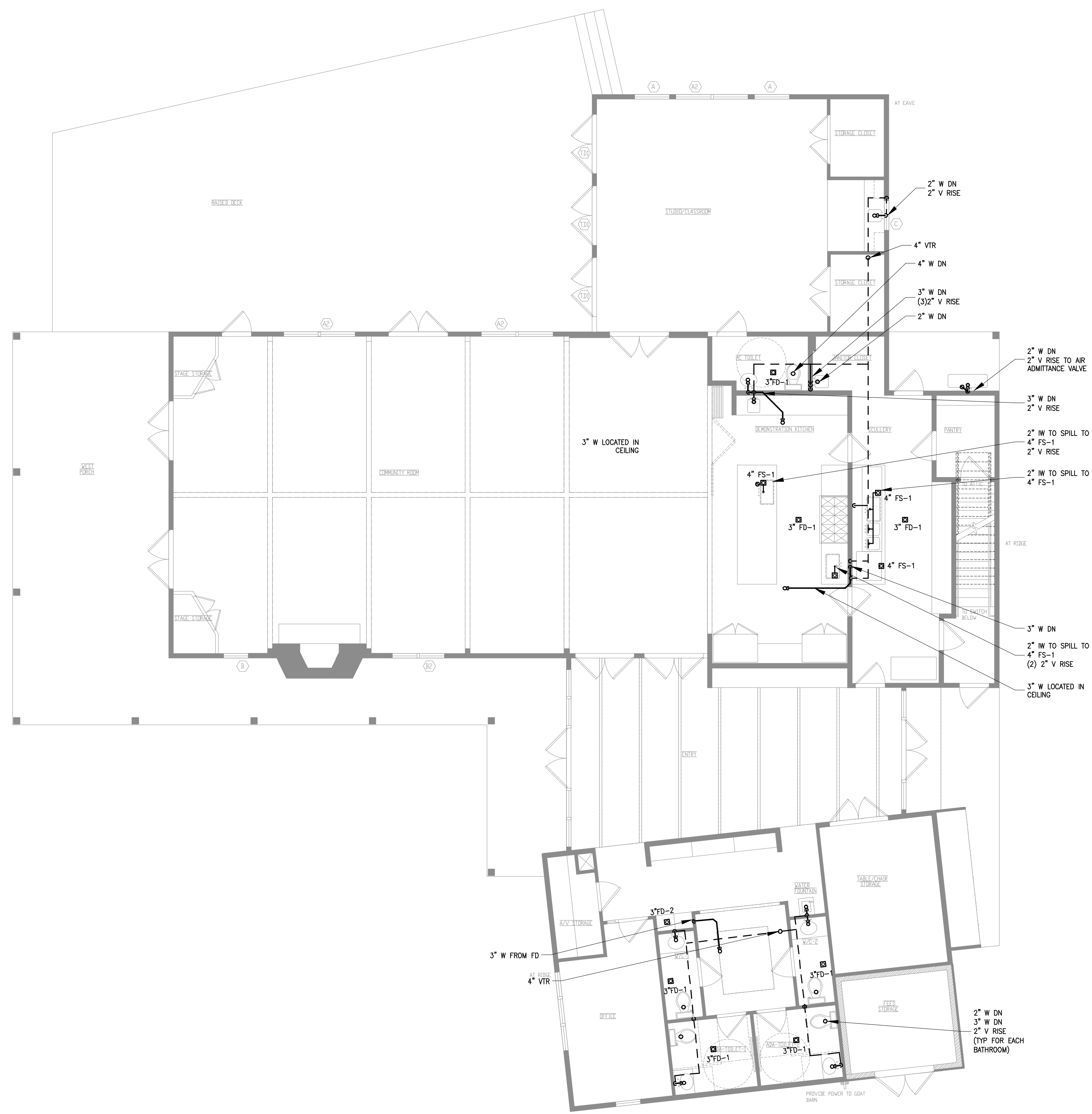
PROJECT NAME
OFFUTT EDUCATION CENTER AT LACHAT FARM
106 GODFREY ROAD
WESTON, CT

JOB NO.: MEA.2021.00011
DRAWN BY: CHECK BY:
DATE: 02/16/2022 SCALE: 3/16" = 1' - 0"

DRAWING TITLE
PLUMBING BASEMENT DOM. WATER & GAS PLAN

DRAWING #
P-100b

© 2022 MASTROLUCA ENGINEERING ASSOCIATES, LLC
These drawings, concepts, designs and ideas are the property of MASTROLUCA ENGINEERING ASSOCIATES, LLC. They may not be copied, reproduced, displayed to others, or used in connection with any work other than the specified project for which they were prepared, in whole or in part, without prior written consent of MASTROLUCA ENGINEERING ASSOCIATES, LLC



Revisions

#	DATE	ISSUE/REVISION DESCRIPTION

PHASE
ISSUED FOR PERMIT/BID



PROJECT NAME
OFFUTT EDUCATION CENTER AT LACHAT FARM
106 GODFREY ROAD
WESTON, CT

JOB NO.: MEA.2021.00011
DRAWN BY: _____ CHECK BY: _____
DATE: 02/16/2022 SCALE: 3/16" = 1'-0"

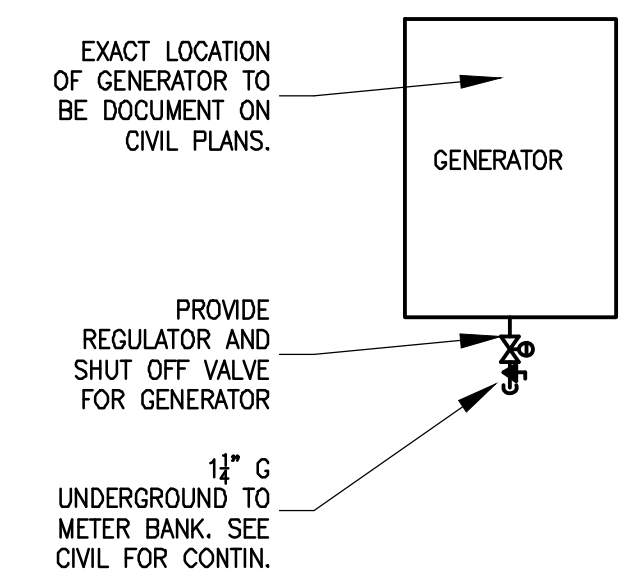
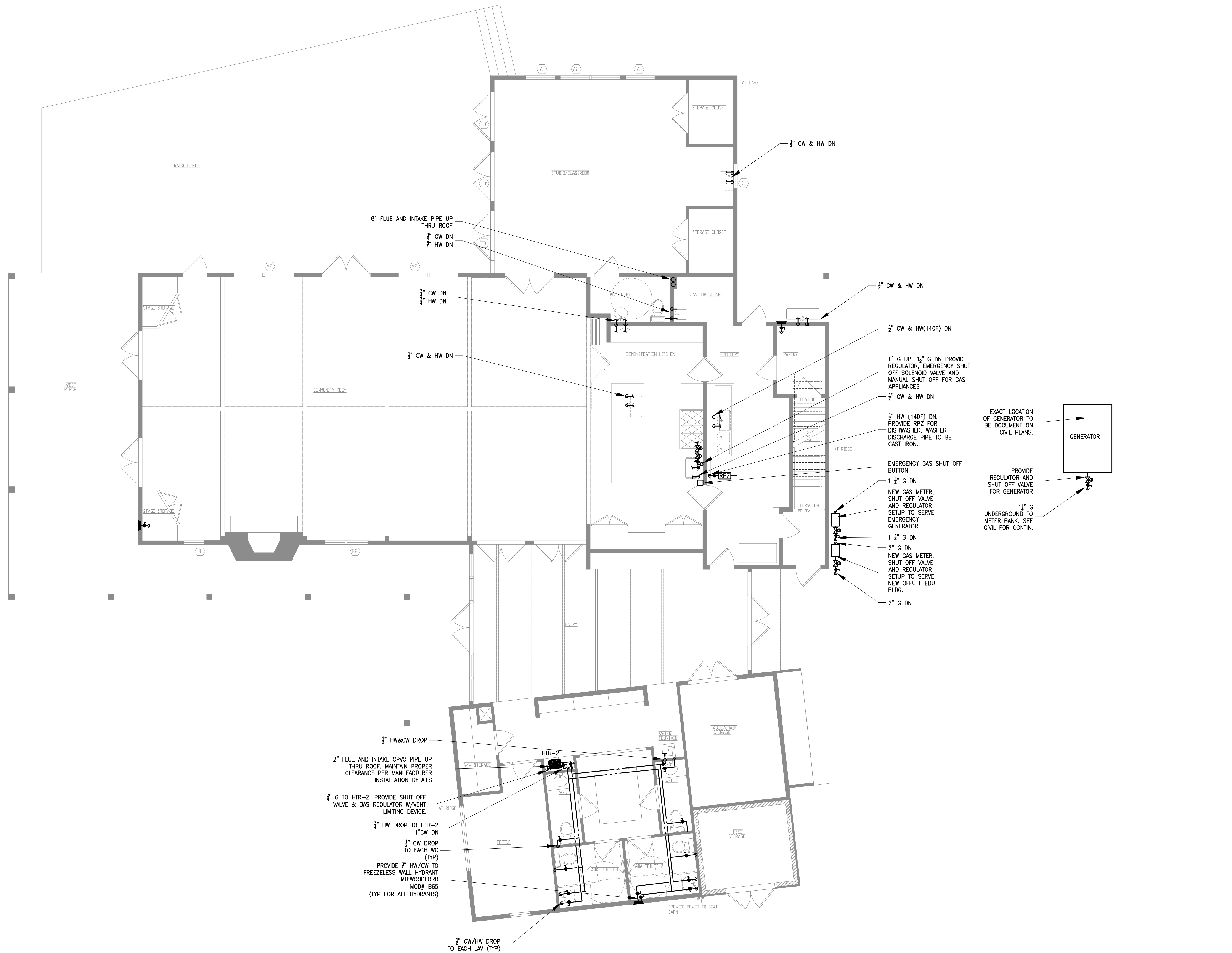
DRAWING TITLE
PLUMBING 1ST FLOOR WASTE & VENT PLAN

DRAWING #
P-101a

© 2022 MASTROLUCA ENGINEERING ASSOCIATES, LLC
These drawings, concepts, designs and ideas are the property of MASTROLUCA ENGINEERING ASSOCIATES, LLC. They may not be copied, reproduced, disclosed to others, or used in connection with any work other than the specified project for which they were prepared, in whole or in part, without prior written consent of MASTROLUCA ENGINEERING ASSOCIATES, LLC.



9/1/2021 9:50 AM Joe Mastroiucchi C:\USERS\JOSEPH\DESKTOP\WORK\ME\PROJECTS\2021\ME\2021.00011_LACHAT_FARMS_EDU_CENTER\DESIGN\DRAWINGS\ELEMENTS\MEA_36X24_DWG



Revisions

#	DATE	ISSUE/REVISION DESCRIPTION

PHASE
ISSUED FOR PERMIT/BID



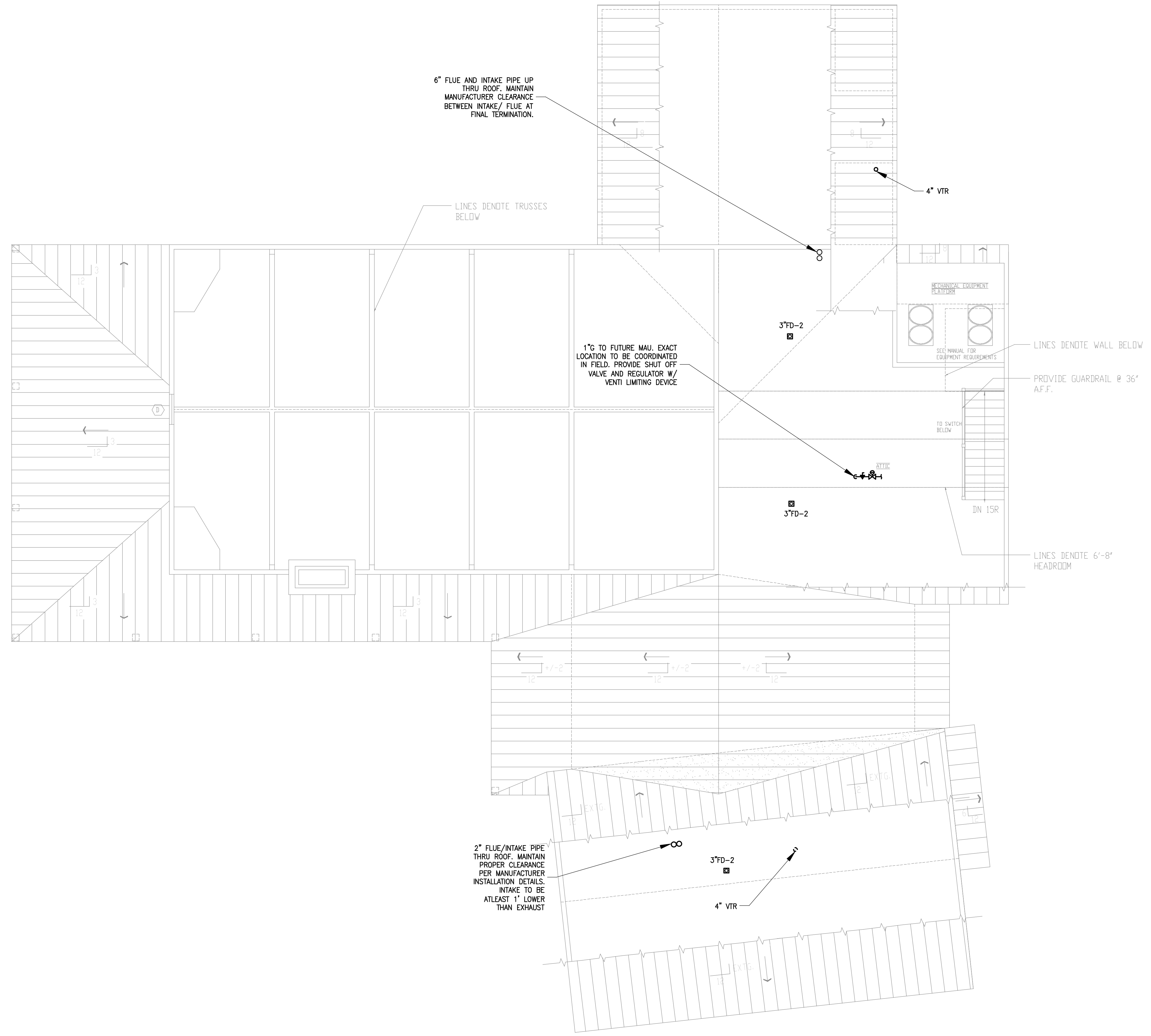
PROJECT NAME
OFFUTT EDUCATION CENTER AT LACHAT FARM
106 GODFREY, ROAD
WESTON, CT

JOB NO.: MEA.2021.00011
DRAWN BY: CHECK BY:
DATE: 02/16/2022 SCALE: 3/16" = 1' - 0"

DRAWING TITLE
PLUMBING 1ST FLOOR DOM. WATER & GAS PLAN

DRAWING #
P-101b

9/1/2021 9:50 AM Joe Mastroiucca C:\USERS\JOSEPH\DESKTOP\WORK\MEIA_PROJECTS\2021\MEIA_2021\00011_LACHAT_FARMS_EDU_CENTER\DESIGN\DRAWINGS\ELEMENTS\MEIA_36X24_DWG



Revisions		
#	DATE	ISSUE/REVISION DESCRIPTION

PHASE
ISSUED FOR PERMIT/BID



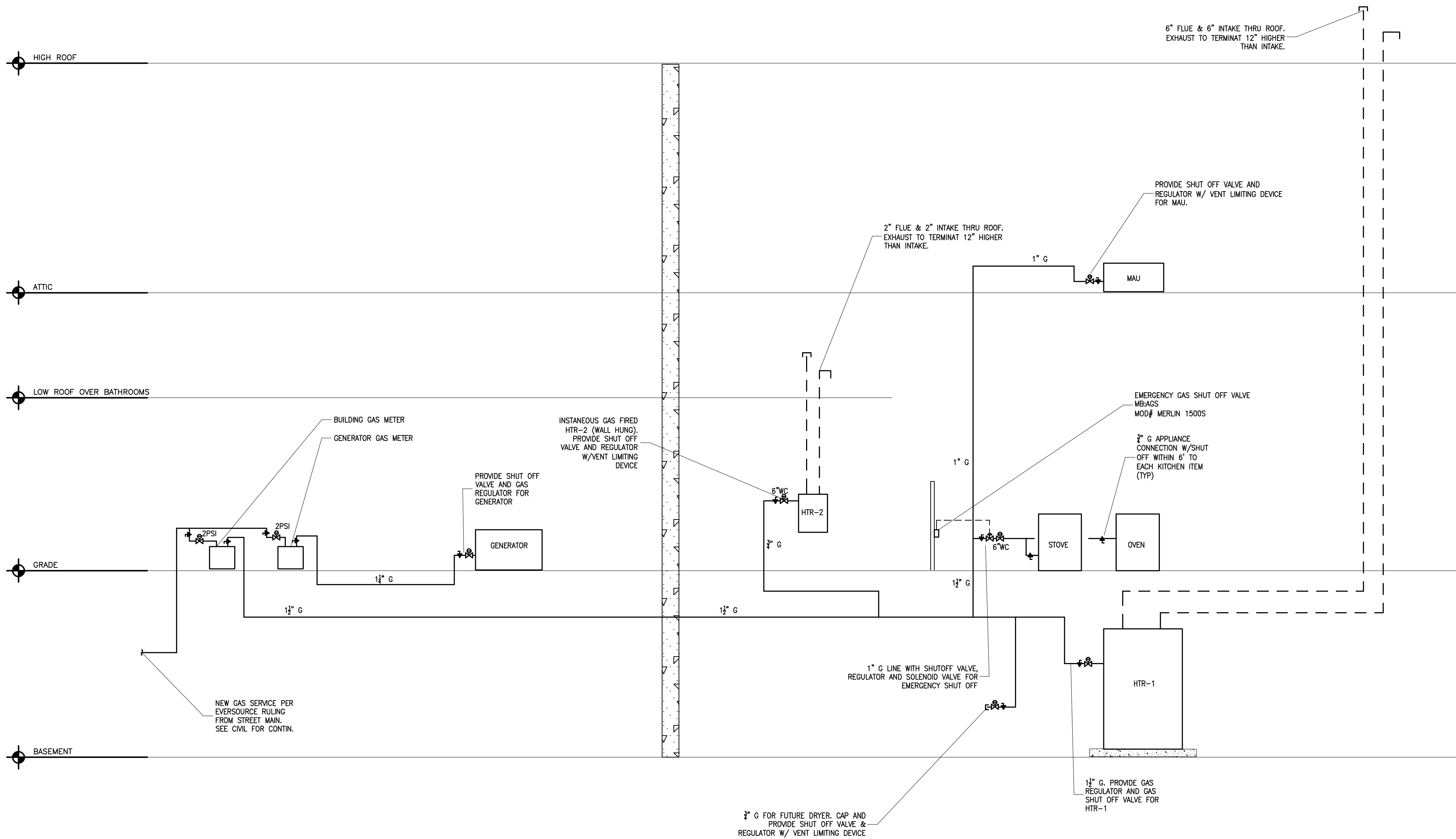
PROJECT NAME
OFFUTT EDUCATION CENTER AT LACHAT FARM
106 GODFREY, ROAD
WESTON, CT

JOB NO.: MEA.2021.00011
DRAWN BY: CHECK BY:

DATE: 02/16/2022 SCALE: 3/16" = 1' - 0"

DRAWING TITLE
PLUMBING ATTIC PLAN

DRAWING #
P-102



Revisions

#	DATE	ISSUE/REVISION DESCRIPTION

PHASE
ISSUED FOR PERMIT/BID



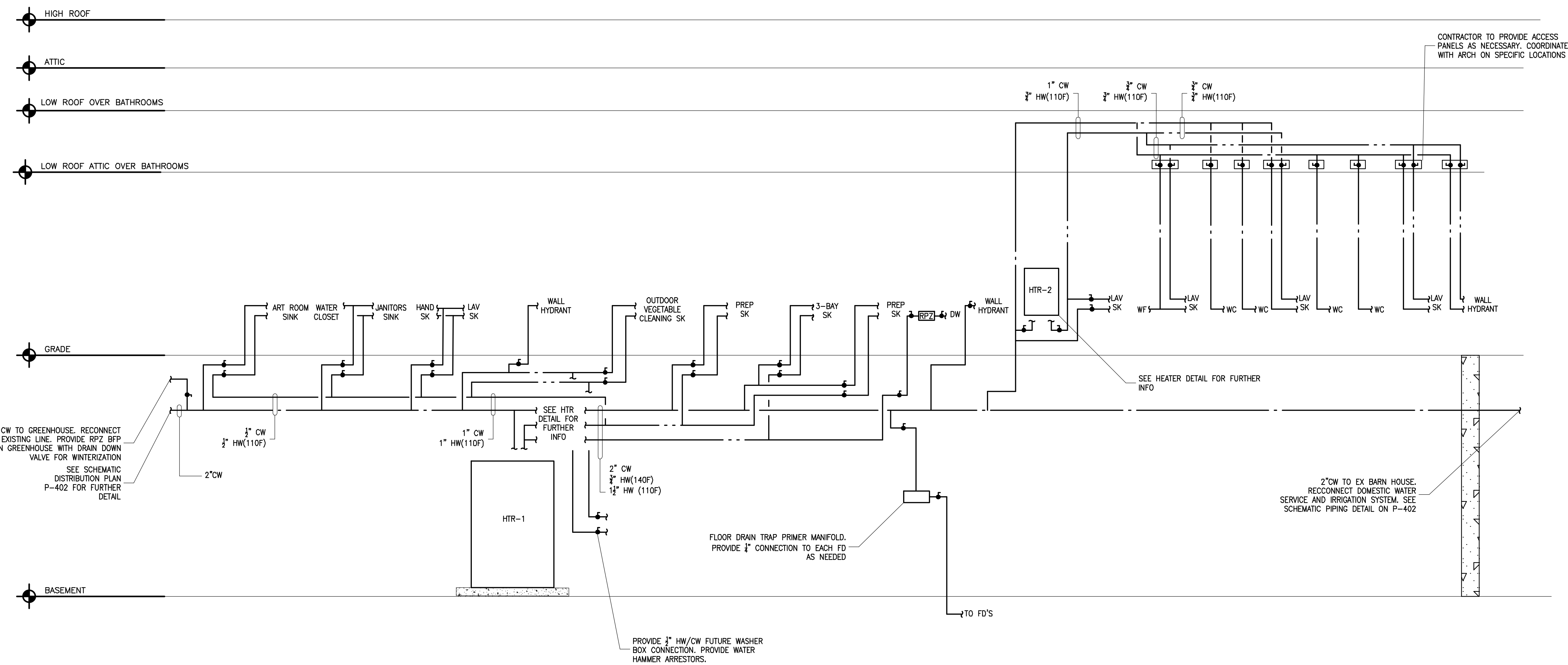
PROJECT NAME
OFFUTT EDUCATION CENTER AT LACHAT FARM
106 GODFREY, ROAD
WESTON, CT

JOB NO.: MEA.2021.00011
DRAWN BY: _____ CHECK BY: _____
DATE: 02/16/2022 SCALE: NTS

DRAWING TITLE
PLUMBING GAS RISER DIAGRAM

DRAWING #
P-301

9/1/2021 9:50 AM Joe Mastroiuc C:\USERS\JOSEPH\Desktop\WORK\MEIA_PROJECTS\2021\MEIA_2021\00011_LACHAT_FARM_EDU_CENTER\DESIGN\DRAWINGS\ELEMENTS\MEIA_30X24_DWG



Revisions		
#	DATE	ISSUE/REVISION DESCRIPTION

PHASE
ISSUED FOR PERMIT/BID



PROJECT NAME
OFFUTT EDUCATION CENTER AT LACHAT FARM
106 GODFREY, ROAD
WESTON, CT

JOB NO.: MEA.2021.00011
DRAWN BY: _____ CHECK BY: _____
DATE: 02/16/2022 SCALE: NTS

DRAWING TITLE
PLUMBING DOMESTIC WATER RISER DIAGRAM

DRAWING #
P-402

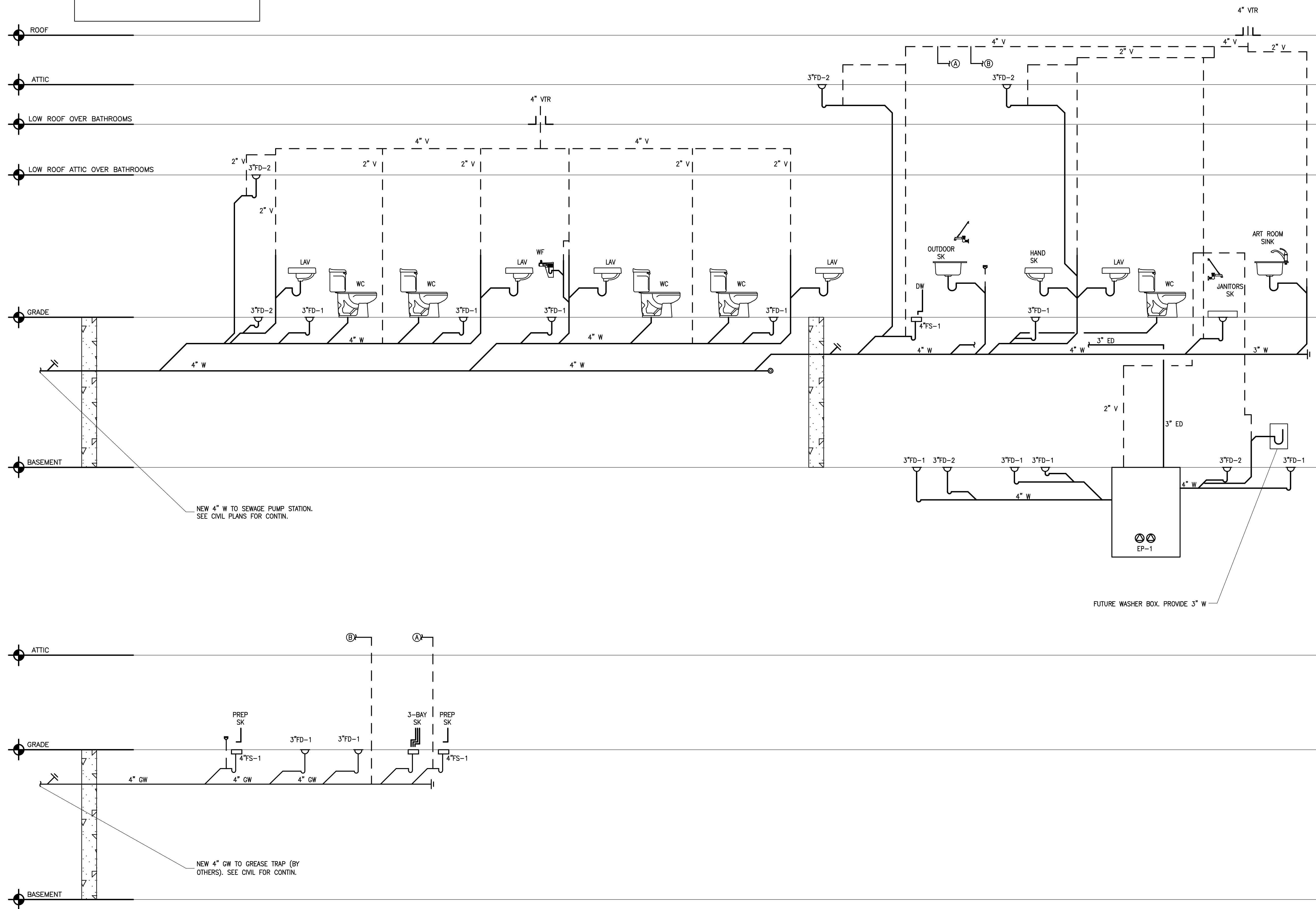
© 2022 MASTROLUCA ENGINEERING ASSOCIATES, LLC
These drawings, concepts, designs and ideas are the property of MASTROLUCA ENGINEERING ASSOCIATES, LLC. They may not be copied, reproduced, disclosed to others, or used in connection with any work other than the specified project for which they were prepared, in whole or in part, without prior written consent of MASTROLUCA ENGINEERING ASSOCIATES, LLC.

9/1/2021 9:50 AM Joe Mastroluca C:\USERS\JOSEPH\Desktop\WORK\ME\PROJECTS\2021\ME\2021\00011_LACHAT_FARM_EDU_CENTER\DESIGN\DRAWINGS\ELEMENTS\MEA_36X24_DWG



GREASE AND SANITARY/WASTE NOTES:

1. ALL FLOOR DRAINS AND FLOOR SINKS SERVING APPLIANCES TO BE SLIGHTLY RAISED TO AVOID INCIDENTAL MOPPING WASTE FROM ENTERING INTO THEM.



Revisions		
#	DATE	ISSUE/REVISION DESCRIPTION

PHASE
ISSUED FOR PERMIT/BID



PROJECT NAME
OFFUTT EDUCATION CENTER AT LACHAT FARM
106 GODFREY, ROAD
WESTON, CT

JOB NO.: MEA.2021.00011
DRAWN BY: _____ CHECK BY: _____
DATE: 02/16/2022 SCALE: NTS

DRAWING TITLE
PLUMBING WASTE, VENT & GREASE WASTE RISER DIAGAMS

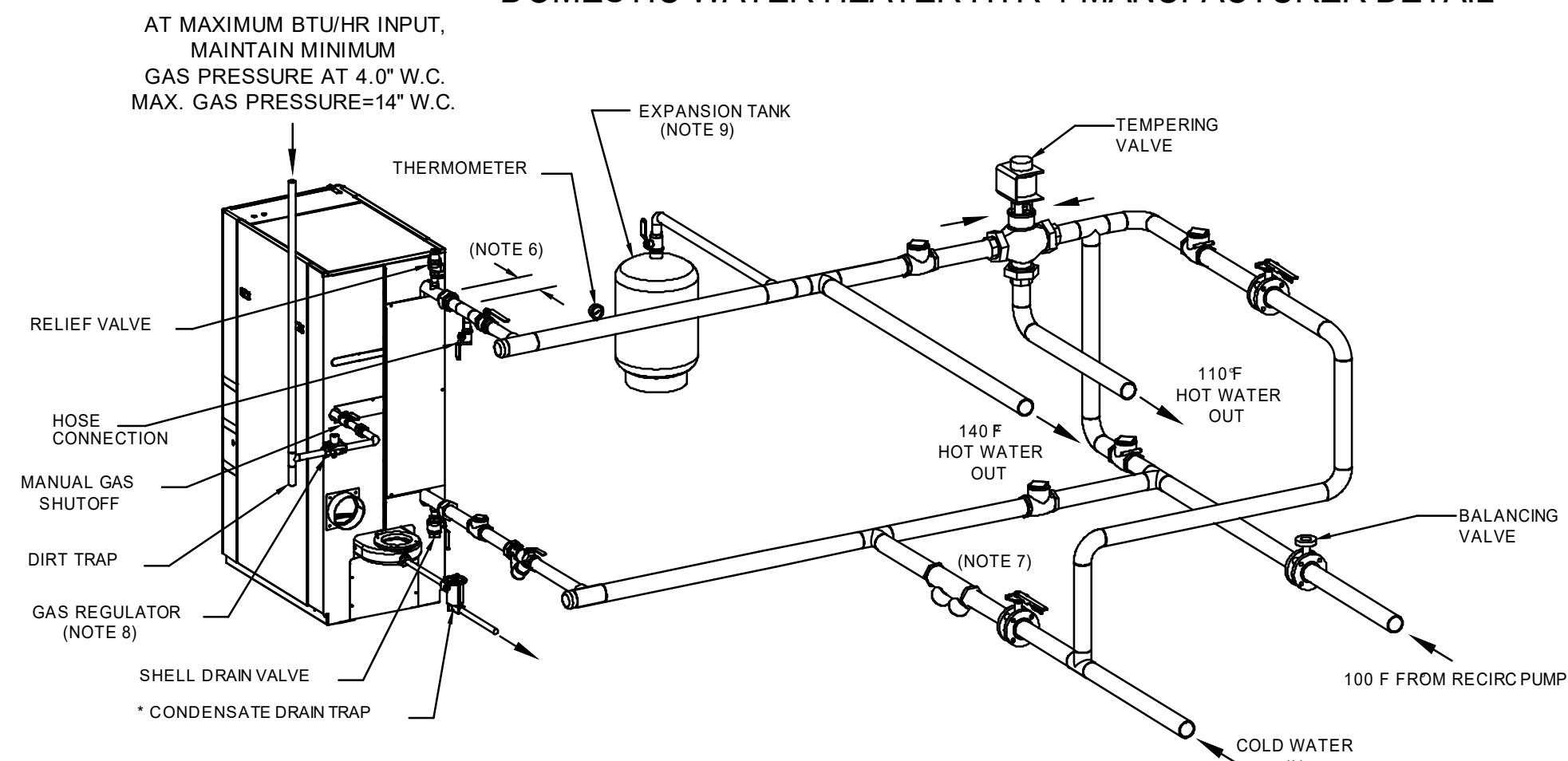
DRAWING #
P-403

© 2022 MASTROLUCA ENGINEERING ASSOCIATES, LLC. These drawings, concepts, designs and ideas are the property of MASTROLUCA ENGINEERING ASSOCIATES, LLC. They may not be copied, reproduced, disclosed to others, or used in connection with any work other than the specified project for which they were prepared, in whole or in part, without prior written consent of MASTROLUCA ENGINEERING ASSOCIATES, LLC.

C:\USERS\JOSEPH\Desktop\WORK\MEIA_PROJECTS\2021\MEIA_2021\00011_LACHAT_FARM_EDU_CENTER\DESIGN\DRAWINGS\ELEMENTS\MEIA_36X24_DWG 9/1/2021 9:50 AM Joe Mastroiucola



DOMESTIC WATER HEATER HTR-1 MANUFACTURER DETAIL

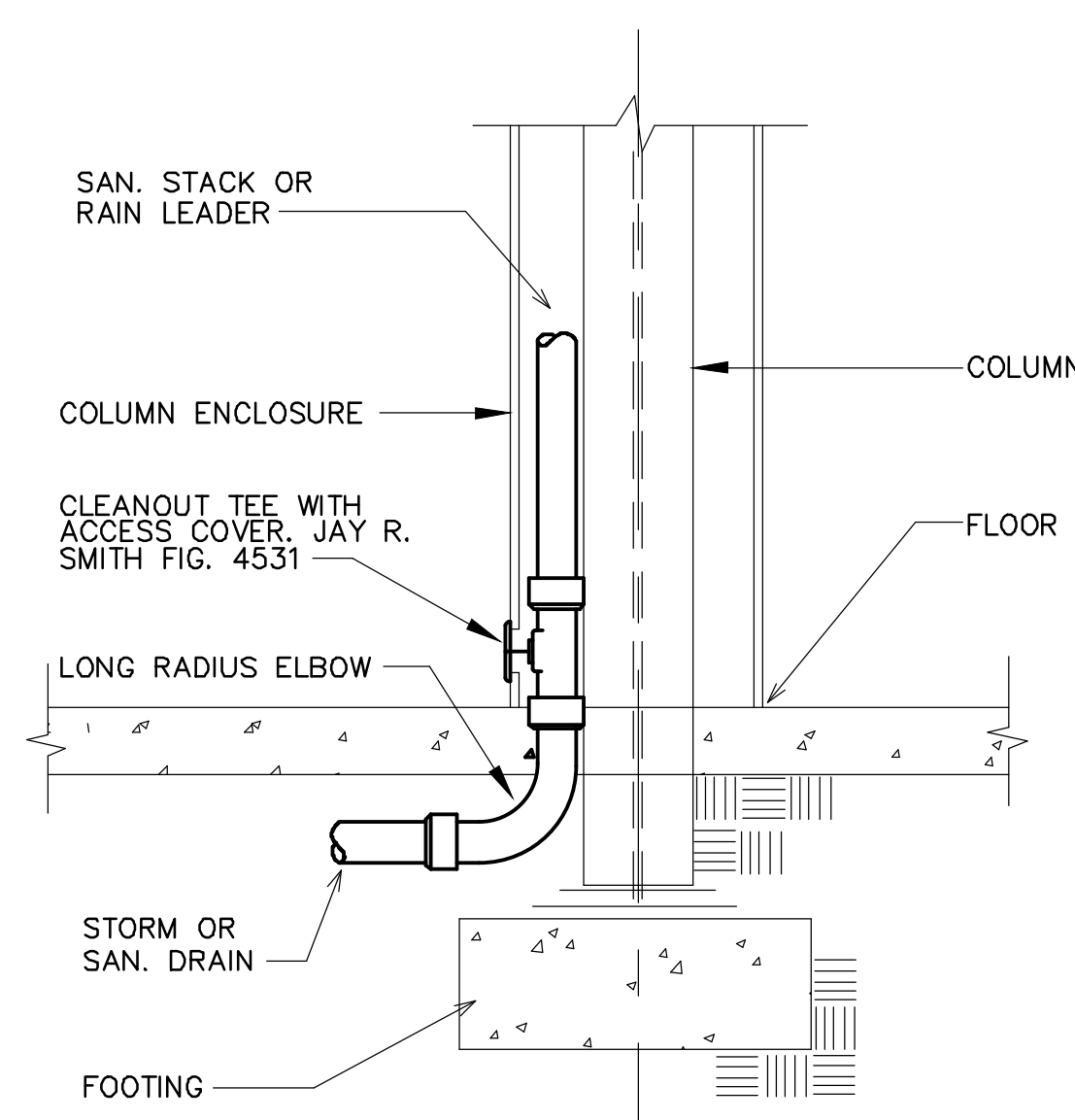


- NOTES:
- FOR ACTUAL SIZES AND LOCATIONS OF PIPING AND OTHER CONNECTIONS TO THE HEATER, SEE DIMENSIONAL DRAWING.
 - SHELL DRAIN VALVE AND CONDENSATE HOSE SHOULD BE ARRANGED TO PERMIT THE FLUIDS TO DRAIN FREELY, BY GRAVITY, TO A FLOOR DRAIN. RELIEF VALVE DISCHARGE SHOULD BE PIPED TO THE NEAREST FLOOR DRAIN. WHEN NO FLOOR DRAIN IS AVAILABLE, THE RELIEF VALVE DISCHARGE SHOULD BE PIPED VERTICALLY TO A HEIGHT OF AT LEAST 6' ABOVE THE FLOOR BUT NOT LESS THAN 2 PIPE DIAMETERS.
 - ALL (*) ITEMS ARE INCLUDED SEPARATELY IN SHIPMENT.
 - THIS IS A TYPICAL INSTALLATION DRAWING. LOCAL CODES AND AUTHORITIES SHOULD BE CONSULTED.
 - HOSE CONNECTION AT HEATER OUTLET IS FOR INITIAL HEATER CALIBRATION DURING START-UP.
 - LOCATE WATER INLET AND OUTLET FITTINGS (i.e. UNIONS, ELBOWS, ETC.) A MINIMUM OF 6" FROM WATER HEATER FITTINGS, TO PREVENT INTERFERENCE WITH REMOVAL OF HEATER PANELS.
 - IF PERMITTED BY LOCAL CODES, A CHECK VALVE MAY BE USED IN PLACE OF A BACKFLOW PREVENTER.
 - AT 14" W.C. OR BELOW, A GAS REGULATOR IS OPTIONAL UNLESS REQUIRED BY LOCAL CODE.
 - FOR APPLICATIONS THAT PREVENT BACKFLOW USE OF DEVICES SUCH AS CHECK VALVE, BACKFLOW PREVENTER OR PRESSURE REDUCING VALVE, A PROPERLY SIZED, POTABLE, DIAPHRAGM-TYPE THERMAL EXPANSION TANK MUST BE PLACED ON THE PIPING AS SHOWN OTHERWISE, IT IS NOT REQUIRED.

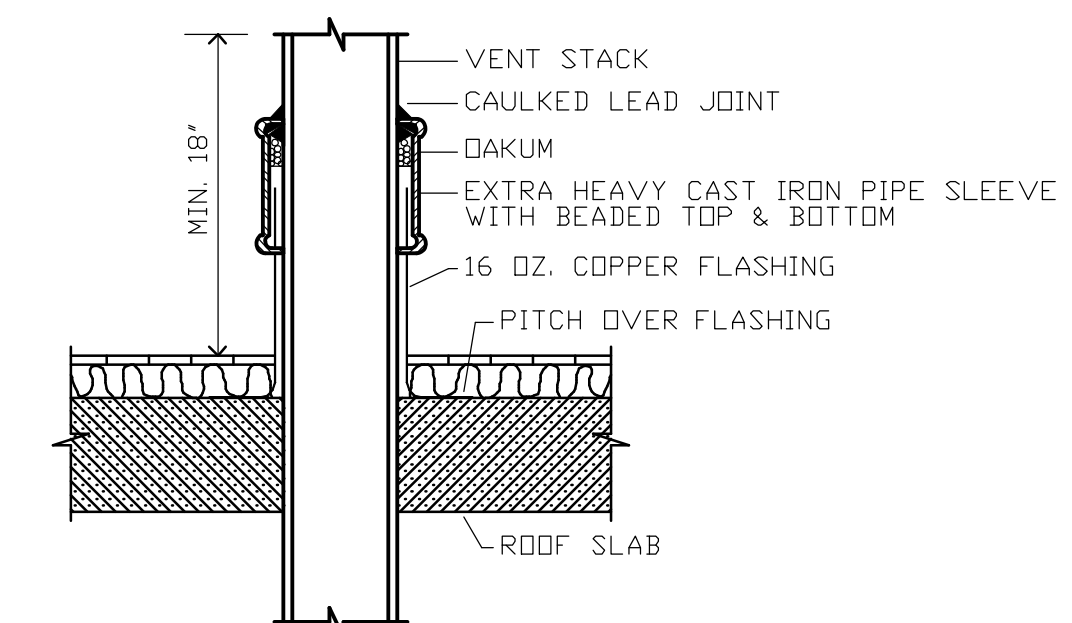
PEREGO INTERNATIONAL, INC.
Innovation, NY 10803

INNOVATION GAS FIRED WATER HEATER
SINGLE UNIT INSTALLATION
TWO TEMP. ZONES

DRAWN BY: JME DATE: 03/2021
SCALE: NTS
APPROVED: DATE: SD-A-845 REV: C

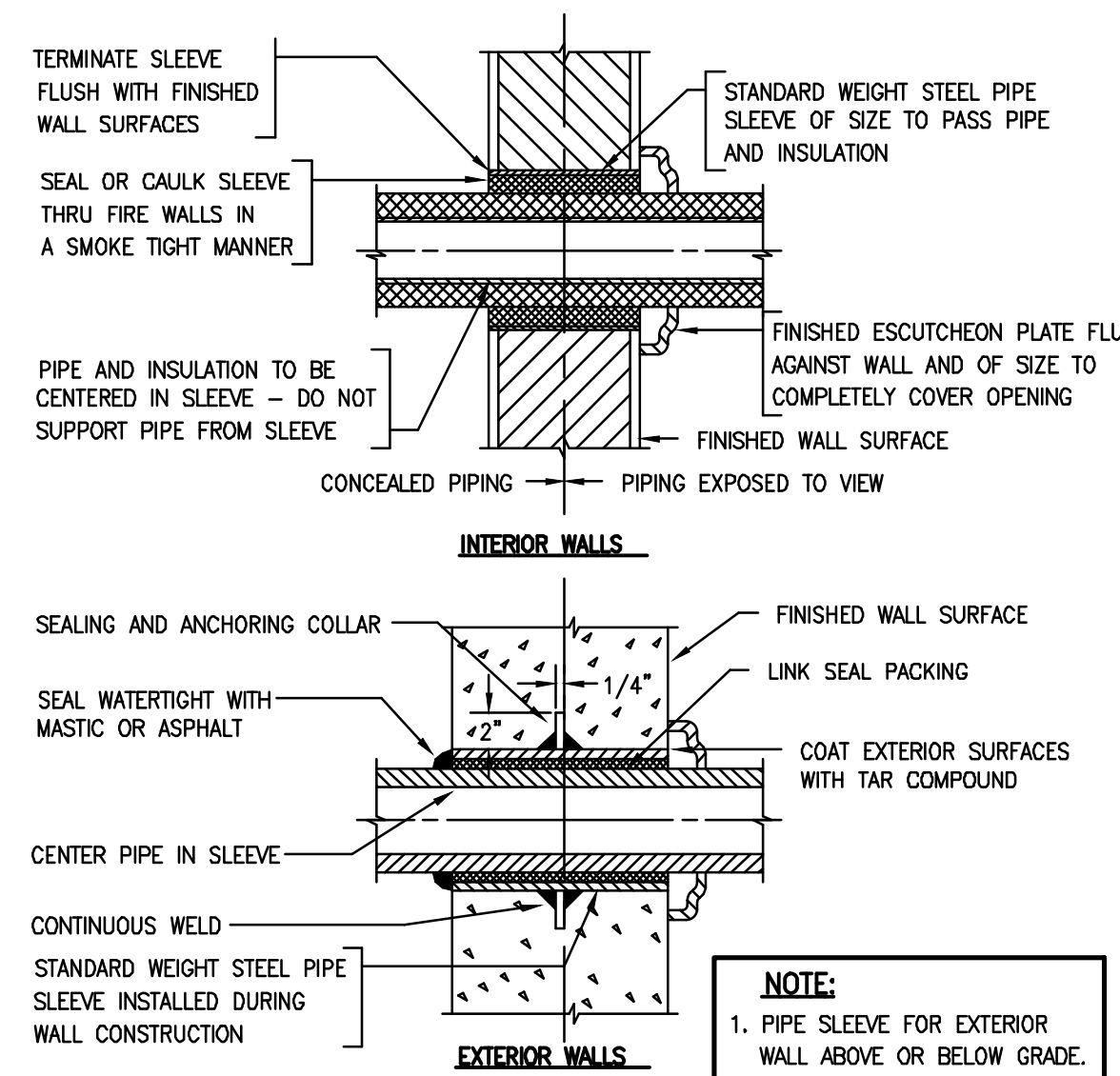


DETAIL OF LEADER OR SANITARY STACK BASE
SCALE: NTS

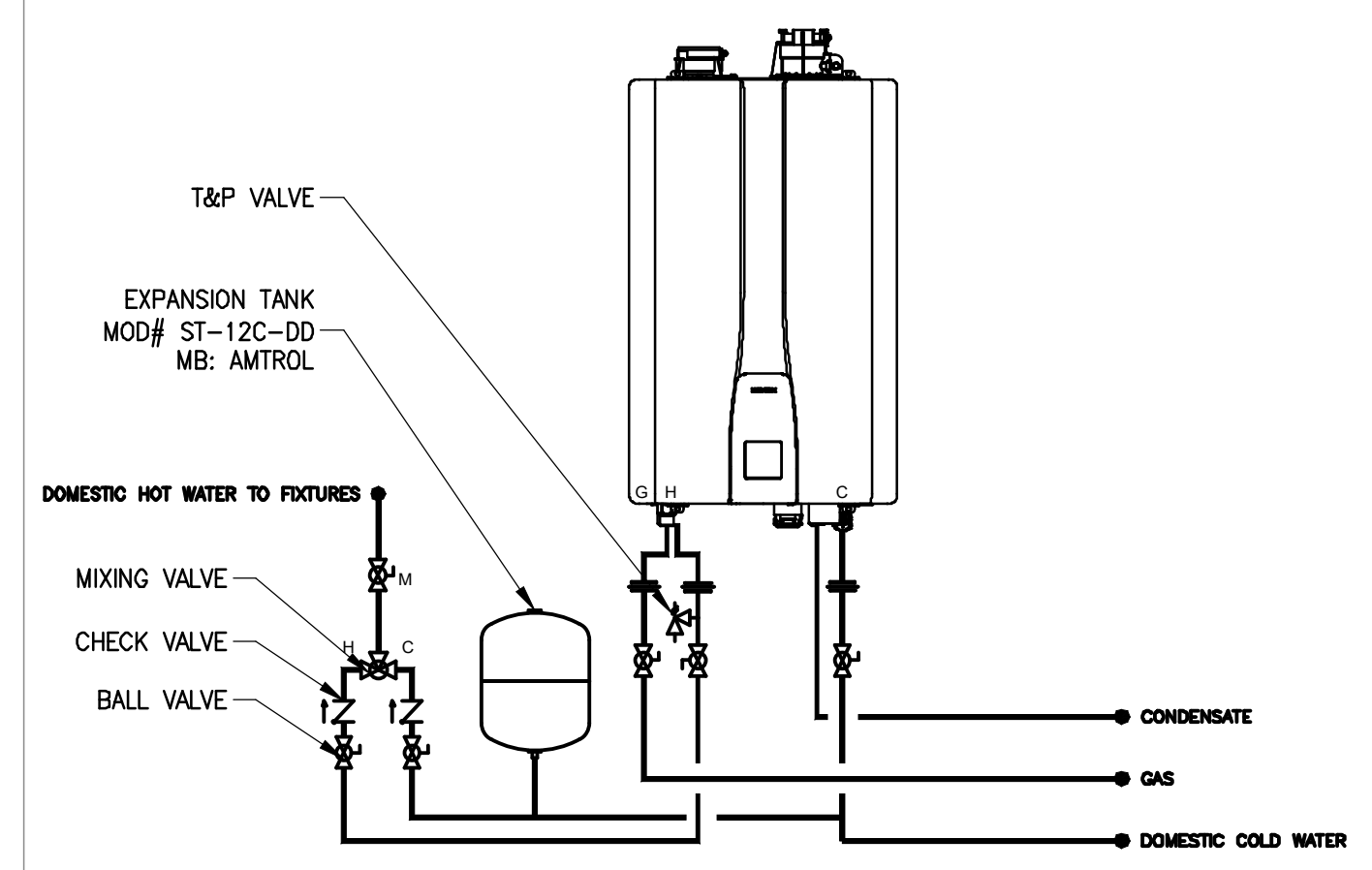


VENT THRU ROOF DETAIL
SCALE: NTS

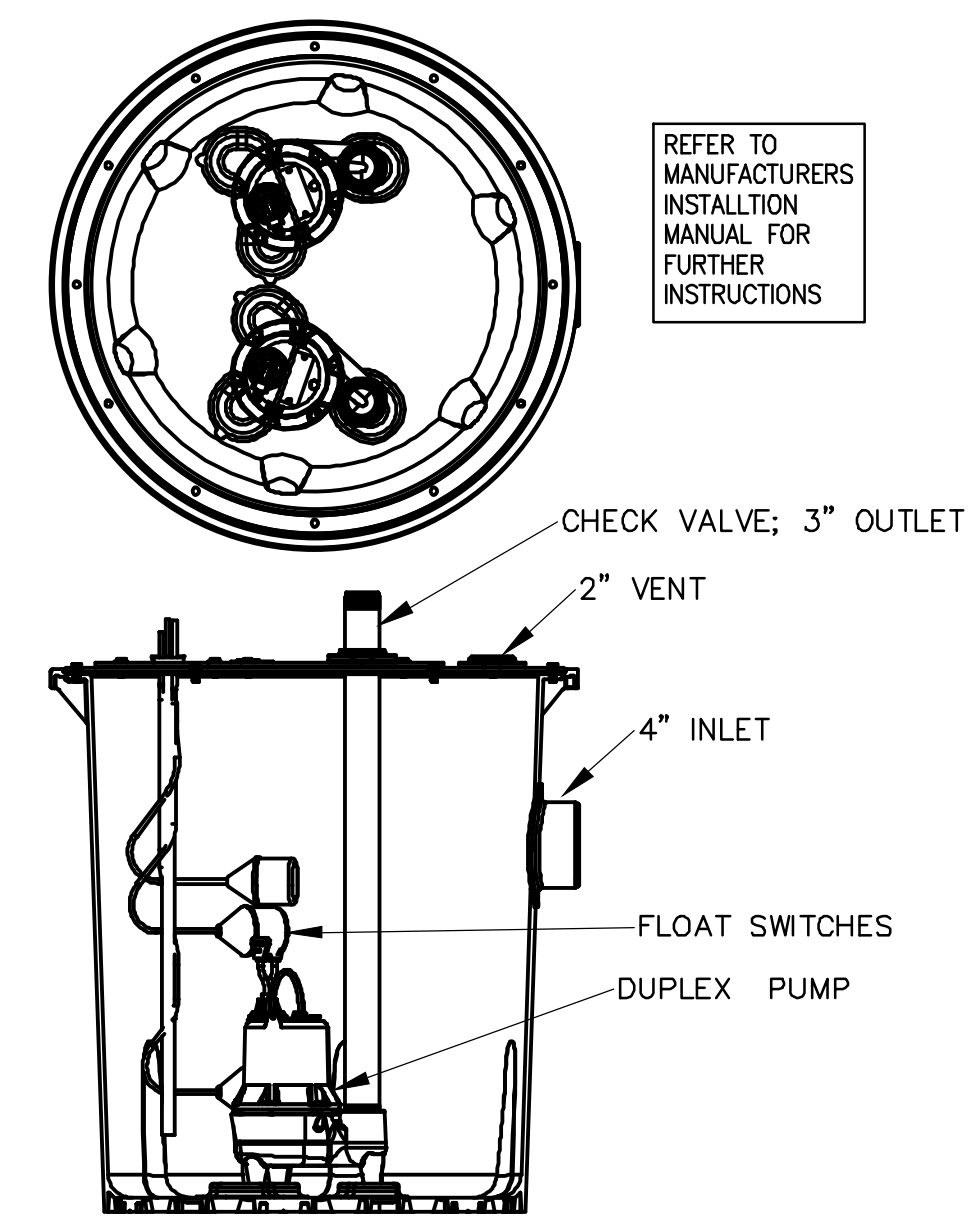
VENT STACK TO EXTEND 18" ABOVE FINISHED ROOF



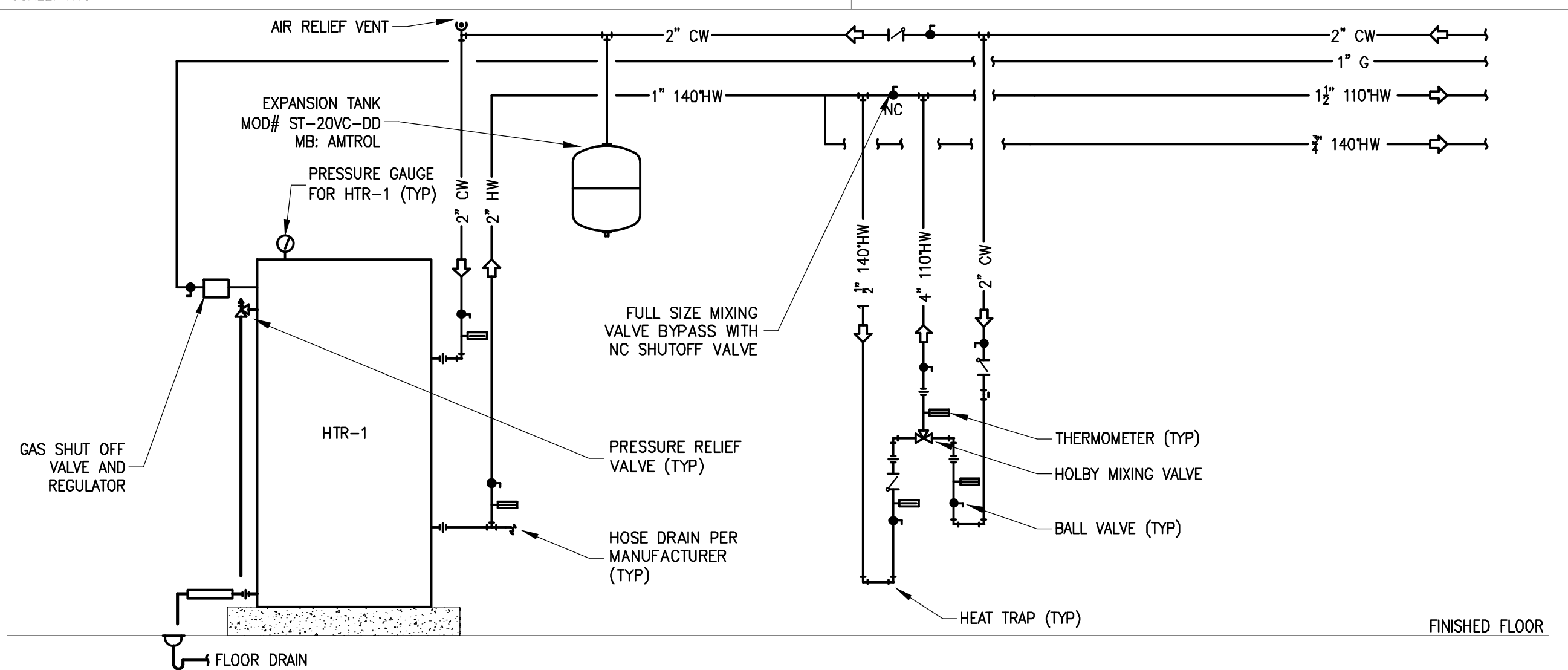
PIPE SLEEVES THRU WALL DETAIL
SCALE: NTS



DOMESTIC WATER HEATER DETAIL - HTR-2
SCALE: NTS



PREPACKAGED FIBERGLASS SEWAGE PUMP
SCALE: NTS



DOMESTIC WATER HEATER DETAIL - HTR-1
SCALE: NTS

Revisions		
#	DATE	ISSUE/REVISION DESCRIPTION

PHASE
ISSUED FOR PERMIT/BID



PROJECT NAME
OFFUTT EDUCATION CENTER AT LACHAT FARM
106 GODFREY ROAD
WESTON, CT

JOB NO.: MEA.2021.00011

DRAWN BY: CHECK BY:
DATE: 02/16/2022 SCALE: NTS

DRAWING TITLE
PLUMBING DETAILS

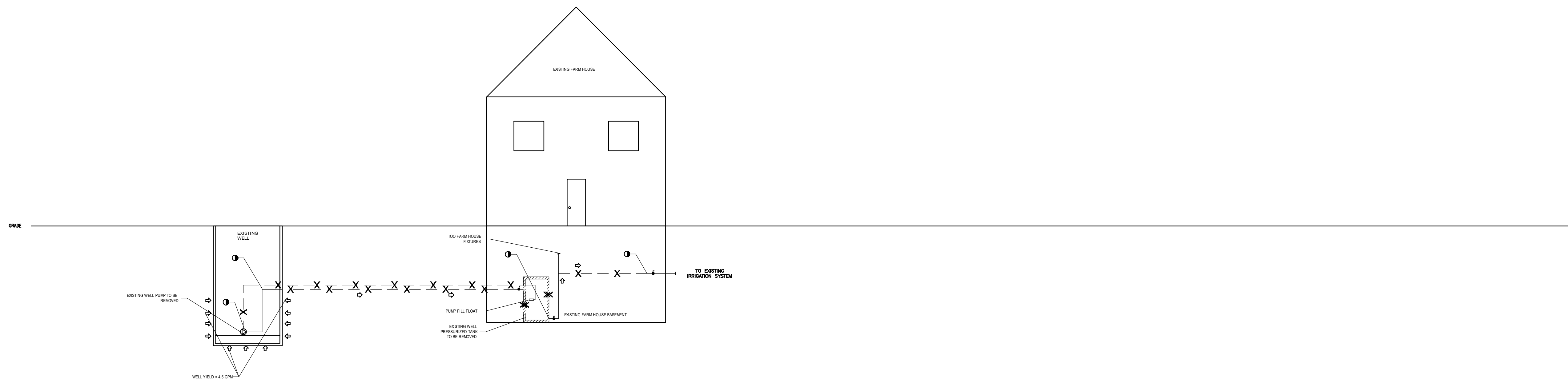
DRAWING #
P-401

9/1/2021 9:50 AM Joe Mastroluca C:\USERS\JOSEPH\Desktop\WORK\MEIA_PROJECTS\2021\MEIA_2021\00011_LACHAT_FARM_EDU_CENTER\DESIGN\DRAWINGS\ELEMENTS\MEIA_36X24_DWG



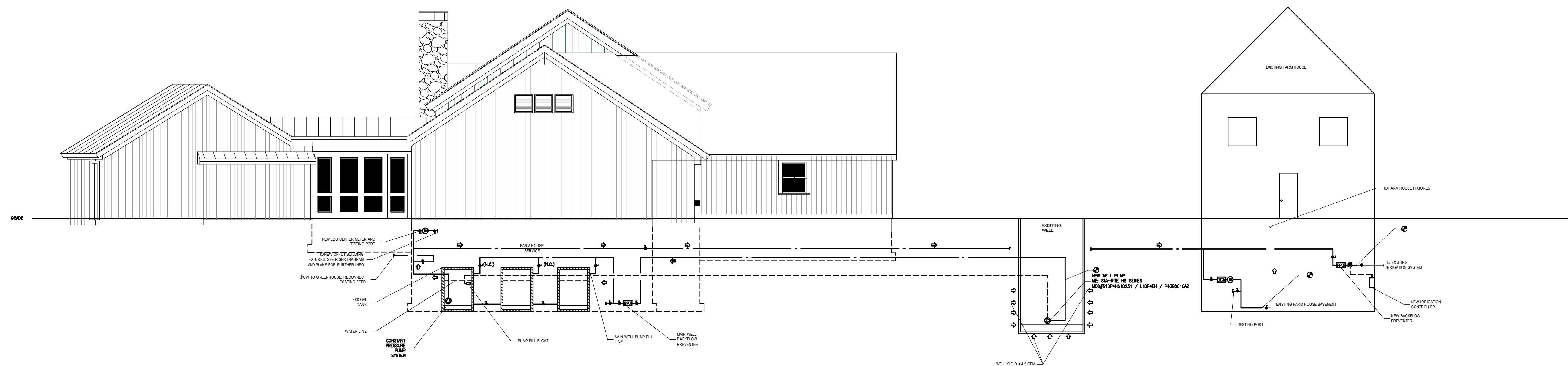
EXISTING WATER DISTRIBUTION PLAN

SCALE: NTS



NEW WATER DISTRIBUTION PLAN

SCALE: NTS

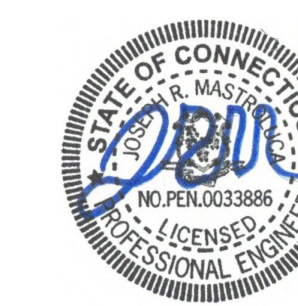


Revisions

#	DATE	ISSUE/REVISION DESCRIPTION

PHASE

ISSUED FOR PERMIT/BID



PROJECT NAME
**OFFUTT EDUCATION CENTER
AT LACHAT FARM**
106 GODFREY, ROAD
WESTON, CT

JOB NO.: MEA.2021.00011

DRAWN BY: CHECK BY:

DATE: 02/16/2022 SCALE: NTS

DRAWING TITLE
**PLUMBING
SCHEMATIC WATER
DISTRIBUTION PLAN**

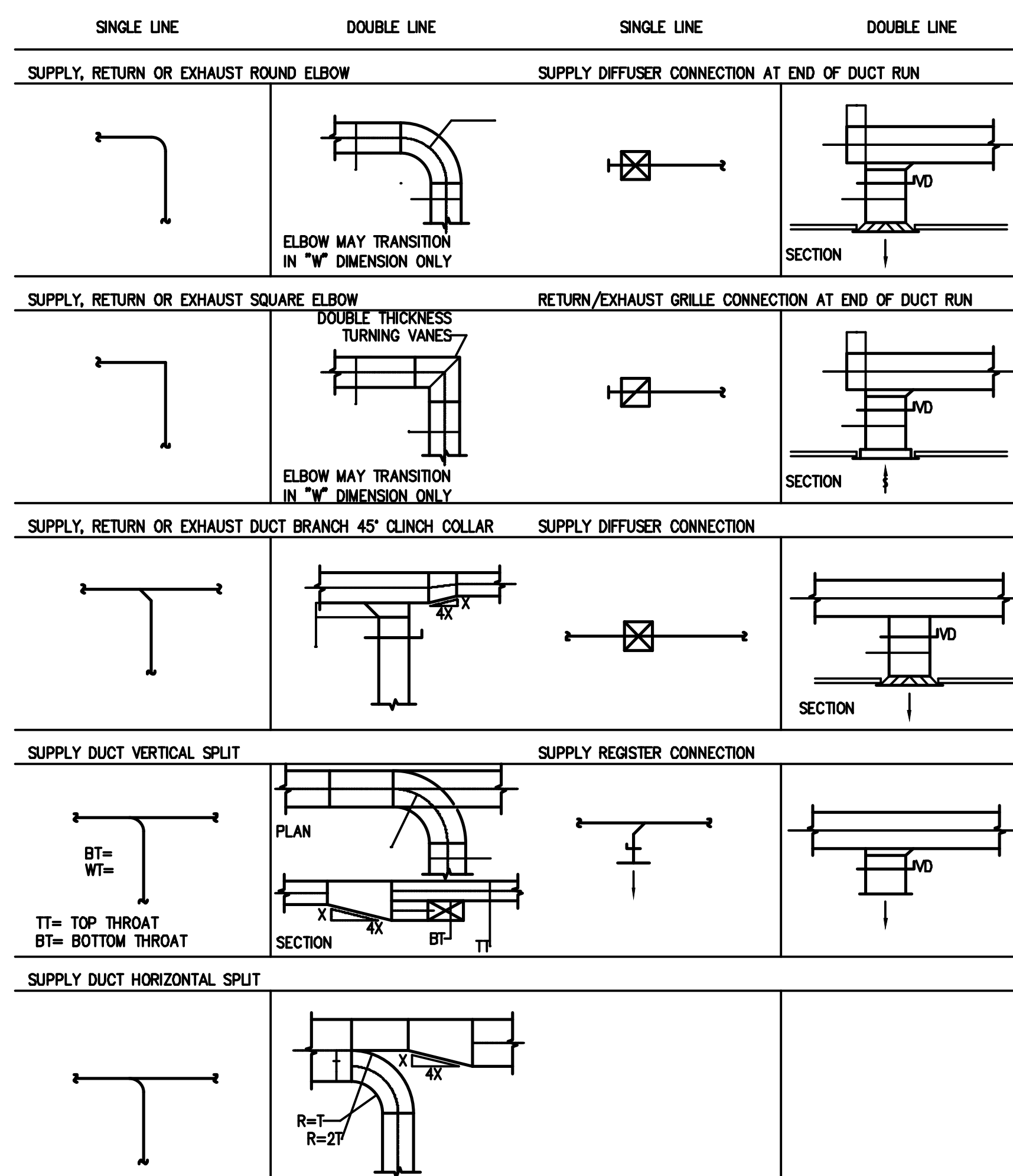
DRAWING #
P-402



GENERAL MECHANICAL NOTES

1. ENTIRE INSTALLATION SHALL COMPLY WITH ALL LOCAL AND STATE CODES, INCLUDING ENERGY CODES, AND ALL OTHER AUTHORITIES HAVING JURISDICTION.
2. PROPER FIRE PROTECTION MEASURES, SATISFACTORY TO THE LOCAL FIRE DEPARTMENT, SHALL BE TAKEN WHEN WELDING OR CUTTING WITH TORCHES OR ELECTRIC ARC.
3. CONTRACTOR SHALL SECURE AND PAY FOR ALL REQUIRED PERMITS AND APPROVALS. ALL REQUIRED SPECIAL AND CONTROLLED INSPECTIONS SHALL BE BY THIS CONTRACTOR.
4. IT SHALL BE THE CONTRACTORS SOLE RESPONSIBILITY TO PROVIDE ALL REQUIRED DOCUMENTS, PAY ALL FEES AND TO SEPARATELY FILE AND OBTAIN ALL APPROVALS AND PERMITS REQUIRED FOR ALL WORK INVOLVED IN TEMPORARY HEATING SYSTEM(S) TO BE USED AT THE SITE. ALL WORK SHALL BE PROVIDED AND INSTALLED PER THE REQUIREMENTS OF THE NYC BUILDING CODE.
5. ALL SUPPORT SYSTEMS (SUPPORTS, HANGERS, ANCHORS, GUIDES, BRACING, FASTENERS, WELDS, ETC.) FOR EQUIPMENT AND SYSTEMS INSTALLED OR REVISED AS PART OF THIS CONTRACT SHALL BE DESIGNED, SELECTED AND INSTALLED BY THE CONTRACTOR TO RESIST ALL SEISMIC, WIND AND GRAVITY LOADS. UNDER CERTAIN CONDITIONS, THE APPLICABLE CODES REQUIRE THESE LOADS, OR A COMBINATION OF THESE LOADS, BE CONSIDERED AS "CONCOMITANT". THE CONTRACTOR SHALL ALSO BE RESPONSIBLE FOR CONFIRMING THAT THE COMPONENT OF THE BUILDING STRUCTURE WHERE THESE SUPPORT SYSTEMS ARE ATTACHED IS ABLE TO RESIST THE DESIGN LOADS TRANSFERRED TO THIS BUILDING COMPONENT.
6. ALL PENETRATIONS OF FLOORS (WHETHER OR NOT FIRE RESISTANCE RATED) AND ALL PENETRATIONS OF FIRE RATED WALLS AND FLOORS SHALL BE PROVIDED WITH A THROUGH-PENETRATION PROTECTION SYSTEM (FIRESTOPPING). EACH THROUGH-PENETRATION PROTECTION SYSTEM SHALL BE TESTED IN ACCORDANCE WITH ASTM E814 AND BE LISTED FOR THE TYPE OF FLOOR OR WALL ASSEMBLY PENETRATED AND THE TYPE OF PROTECTION SYSTEM.
7. ALL AIR MOVING DEVICES, INCLUDING BUT NOT LIMITED TO AIR HANDLING UNITS, AIR CONDITIONING UNITS, AND UNIT VENTILATORS, MUST COMPLY WITH AMCA STANDARD 210 AND ASHRAE STANDARD 62.1-2007.
8. DRAWINGS ARE INTENDED TO SHOW THE PROPER SIZE AND GENERAL LOCATIONS OF THE EQUIPMENT, PIPING, DUCTWORK, ETC. DRAWINGS ARE DIAGRAMMATIC AND INDICATE GENERAL ARRANGEMENT OF SYSTEMS AND WORK INCLUDED IN CONTRACT. DEVIATIONS FROM LAYOUT SHOWN MUST BE APPROVED BY THE ARCHITECT.
9. SHOP DRAWINGS SHALL BE PREPARED WITH COMPLETE DIMENSIONAL INFORMATION, INCLUDING COORDINATES TO BRANCH DUCT AND DIFFUSERS STUBS. ELEVATIONS TO THE UNDERSIDE OF DUCTS, SHALL BE CLEARLY INDICATED ON THE DRAWING SUBMITTED AND SHALL BE CAREFULLY CHECKED FOR CONFORMANCE WITH CEILING HEIGHT REQUIREMENTS. ALL CONFLICTS MUST BE FLAGGED ON THE SHOP DRAWINGS.
10. THE SHEET METAL SHOP DRAWINGS SHALL INDICATE ALL HUNG CEILING STARTING POINTS, ELEVATIONS AND BREAK LINES. WHERE PIPING, LIGHTS AND DUCTWORK CONFLICTS; DUCTWORK SHALL BE SET UP OR DOWN.
11. SEE ARCHITECTURAL DRAWINGS AND SPECIFICATIONS FOR CONSTRUCTION PHASING REQUIREMENTS.
12. CONTRACTOR SHALL COORDINATE HIS WORK WITH THE WORK OF ALL OTHER TRADES.
13. CONTRACTOR SHALL COORDINATE WITH ALL ARCHITECTURAL DRAWINGS.
14. CONTRACTOR IS RESPONSIBLE TO COORDINATE AND INCLUDE IN HIS BID THE RELOCATION OF ALL PIPING, DUCTWORK, HANGERS, CONDUITS, ETC. REQUIRED TO INSTALL NEW EQUIPMENT, PIPING, DUCTWORK, ETC.
15. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CUTTING AND PATCHING OF WALLS, CEILING, ROOFS AND FLOORS REQUIRED AS A RESULT OF HIS WORK.
16. DUCTWORK AND PIPING LAYOUTS ARE SCHEMATIC DIAGRAMS AND ARE INTENDED TO SHOW GENERAL ARRANGEMENT, SIZE AND CAPACITY DO NOT NECESSARILY INDICATE WHICH PIPE OR DUCT IS ABOVE OR BELOW THE OTHER. ALL OFFSETS ARE NOT NECESSARILY SHOWN. CONTRACTOR SHALL ARRANGE AND COORDINATE THE WORK, FURNISH NECESSARY OFFSETS, VALVES, VENTS AND FITTINGS TO AVOID CONFLICT WITH OTHER MECHANICAL AND ELECTRICAL SERVICES AND STRUCTURAL AND ARCHITECTURAL ELEMENTS WITHOUT ADDITIONAL COST TO THE OWNER. IF AREAS OF CONFLICT ARE ENCOUNTERED, THE ARCHITECT SHALL BE NOTIFIED AND CONTRACTOR'S RECOMMENDATIONS SHALL BE SUBMITTED TO THE ARCHITECT FOR APPROVAL BEFORE WORK HAS BEGUN.
17. CONTRACTOR SHALL PROVIDE ALL NECESSARY MISCELLANEOUS STEEL FOR THE SUPPORT OF ALL EQUIPMENT, PIPING, CONDUIT AND DUCTWORK, SUSPENDED FROM SLAB, STEEL, WALL, OR TRUSSWORK.
18. UNLESS OTHERWISE NOTED ON THE DRAWINGS, ALL MECHANICAL EQUIPMENT SHALL BE MOUNTED ON VIBRATION ISOLATORS TO PREVENT THE TRANSMISSION OF SOUND TO THE BUILDING STRUCTURE. VIBRATION ISOLATORS SHALL BE IN ACCORDANCE WITH THE SPECIFICATIONS AND SHALL BE BASED ON ACTUAL WEIGHT DISTRIBUTION OF THE EQUIPMENT FURNISHED. DEFLECTIONS SHALL BE AS NOTED ON THE EQUIPMENT SHOP DRAWING SUBMITTALS.
19. CONTRACTOR SHALL ENSURE THAT ALL MECHANICAL DEVICES ARE INSTALLED IN LOCATION WHICH AFFORDS ACCESSIBILITY FOR MAINTENANCE AND REPAIR. COORDINATE INSTALLATION AMONG ALL TRADES TO AVOID INTERFERENCES, AND LOCATE EQUIPMENT TO PROVIDE CLEARANCES WHICH EXCEED THOSE RECOMMENDED BY THE EQUIPMENT MANUFACTURER. PRIOR TO PROJECT COMPLETION, REPRESENTATIVES OF THE OWNER WILL REVIEW EACH INSTALLATION AND WILL DIRECT CHANGES WHENEVER ACCESS OR SERVICEABILITY IS, IN THEIR OPINION, UNACCEPTABLE.
20. ALL MECHANICAL CONTROLS (THERMOSTATS, SENSORS, ETC.) SHALL BE INSTALLED AT A HEIGHT OF 5'-0" ABOVE FLOOR. COORDINATE EXACT LOCATION AND MOUNTING HEIGHT WITH ARCHITECT PRIOR TO INSTALLATION.
21. OWNER PROVIDED EQUIPMENT SHALL BE RECEIVED AND INSTALLED BY THE MECHANICAL CONTRACTOR. ALL COST ASSOCIATED WITH RIGGING, RECEIVING AND STORAGE SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
22. ALL ACCESS DOORS IN FINISHED WALLS AND CEILINGS SHALL BE SUPPLIED BY THIS CONTRACTOR AND SHALL BE FRAMELESS TYPE SUITABLE FOR THE CONSTRUCTION TYPE INDICATED ON THE ARCHITECTURAL DRAWINGS. COORDINATE ALL LOCATIONS OF ACCESS DOORS WITH ARCHITECTURAL DRAWINGS. LOCATE VALVES SO AS TO BE WITHIN ONE (1) FOOT OF AN ACCESS DOOR.
23. EXACT LOCATION OF DIFFUSERS, GRILLES AND REGISTERS TO BE COORDINATED WITH ARCHITECTURAL PLANS.
24. CONTRACTOR SHALL BE RESPONSIBLE FOR BALANCING OF AIR QUANTITIES AT ALL AIR CONDITIONING OUTLETS AND INLETS.
25. HVAC CONTRACTOR SHALL CHANGE FILTERS IN ALL AIR HANDLING UNITS PRIOR TO DELIVERY OF SYSTEM TO OWNER.
26. DUCT-MOUNTED SMOKE DETECTORS SHALL BE PROVIDED IN THE SUPPLY AND RETURN DUCTS OF ALL AIR HANDLING UNITS WITH A CAPACITY GREATER THAN 2,000 CFM. WHERE A RETURN AIR FLEXIBLE IS SHARED BETWEEN MULTIPLE AIR HANDLING UNITS TOTALING GREATER THAN 2,000 CFM, A DUCT SMOKE DETECTOR SHALL BE PROVIDED IN THE RETURN DUCT OF EACH AIR HANDLING UNIT.
27. ALL ROTATING HVAC EQUIPMENT SHALL BE SUPPORTED OR SUSPENDED ON VIBRATION ISOLATORS. PROVIDE FLEXIBLE CONNECTORS AT ALL DUCT AND PIPE CONNECTIONS TO ROTATING EQUIPMENT.
28. DUCT SIZES SHOWN ARE CLEAR INSIDE DIMENSIONS.
29. PROVIDE DOUBLE THICKNESS TURNING VANES IN ALL SQUARE ELBOWS.
30. PROVIDE VOLUME DAMPER ON EACH BRANCH TAKE OFF FROM DUCT MAIN, AND ON EACH DIFFUSER TAKE OFF FROM BRANCH DUCT OR MAIN.
31. PROVIDE AND INSTALL COMBINATION FIRE AND SMOKE DAMPERS AND ACCESS DOORS IN ALL DUCTWORK PENETRATING FIRE RATED WALLS (2 HOURS OR MORE). FIRE DAMPERS AND ACCESS DOORS SHALL BE PROVIDED AND INSTALLED IN ALL DUCTWORK PENETRATING FIRE RATED WALLS 1-1/2 HOUR OR LESS. ALL ACCESS DOORS SHALL BE A MINIMUM OF 12" X 12" UNLESS OTHERWISE NOTED.
32. CONTRACTOR SHALL INCLUDE ALL LOW VOLTAGE WIRING FOR INSTALLATION AND OPERATION OF VRF EVAPORATORS, CONDENSERS, BDC UNIT, THERMOSTATS, AND CENTRAL CONTROLLER.
33. ALL DUCT SYSTEMS SHALL BE LOW PRESS CLASS (2" PER SMACNA STANDARDS).

DUCTWORK SYMBOLS (CONT.)



- NOTES:
1. DIFFUSERS, REGISTERS, GRILLES AND DUCT SIZES ARE AS SHOWN ON FLOOR PLANS OR IN SCHEDULES.
 2. DUCT SIZES ARE GIVEN AS INTERNAL DIMENSIONS. INTERNALLY LINED DUCTS SHALL BE INCREASED IN SIZE TO MAINTAIN THE SAME INTERNAL SIZE.

MECHANICAL DRAWING LIST	
SHEET NUMBER	SHEET NAME
M-001	MECHANICAL COVER PAGE
M-002	MECHANICAL COVER PAGE
M-003	MECHANICAL SPECIFICATIONS
M-004	MECHANICAL SPECIFICATIONS
M-005	MECHANICAL SPECIFICATIONS
M-006	MECHANICAL SPECIFICATIONS
M-007	MECHANICAL SPECIFICATIONS
M-008	MECHANICAL SPECIFICATIONS
M-100	MECHANICAL BASEMENT PLAN
M-101	MECHANICAL 1ST FLOOR DUCTWORK PLAN
M-102	MECHANICAL ATTIC DUCTWORK PLAN
M-202	MECHANICAL PIPING ATTIC PLAN
M-300	MECHANICAL DETAILS
M-301	MECHANICAL DETAILS

Revisions		
#	DATE	ISSUE/REVISION DESCRIPTION

PHASE
ISSUED FOR PERMIT/BID



PROJECT NAME
OFFUTT EDUCATION CENTER AT LACHAT FARM
106 GODFREY, ROAD
WESTON, CT
JOB NO.: MEA.2021.00011
DRAWN BY: _____ CHECK BY: _____
DATE: 02/16/2022 SCALE: NTS

DRAWING TITLE
MECHANICAL COVER PAGE

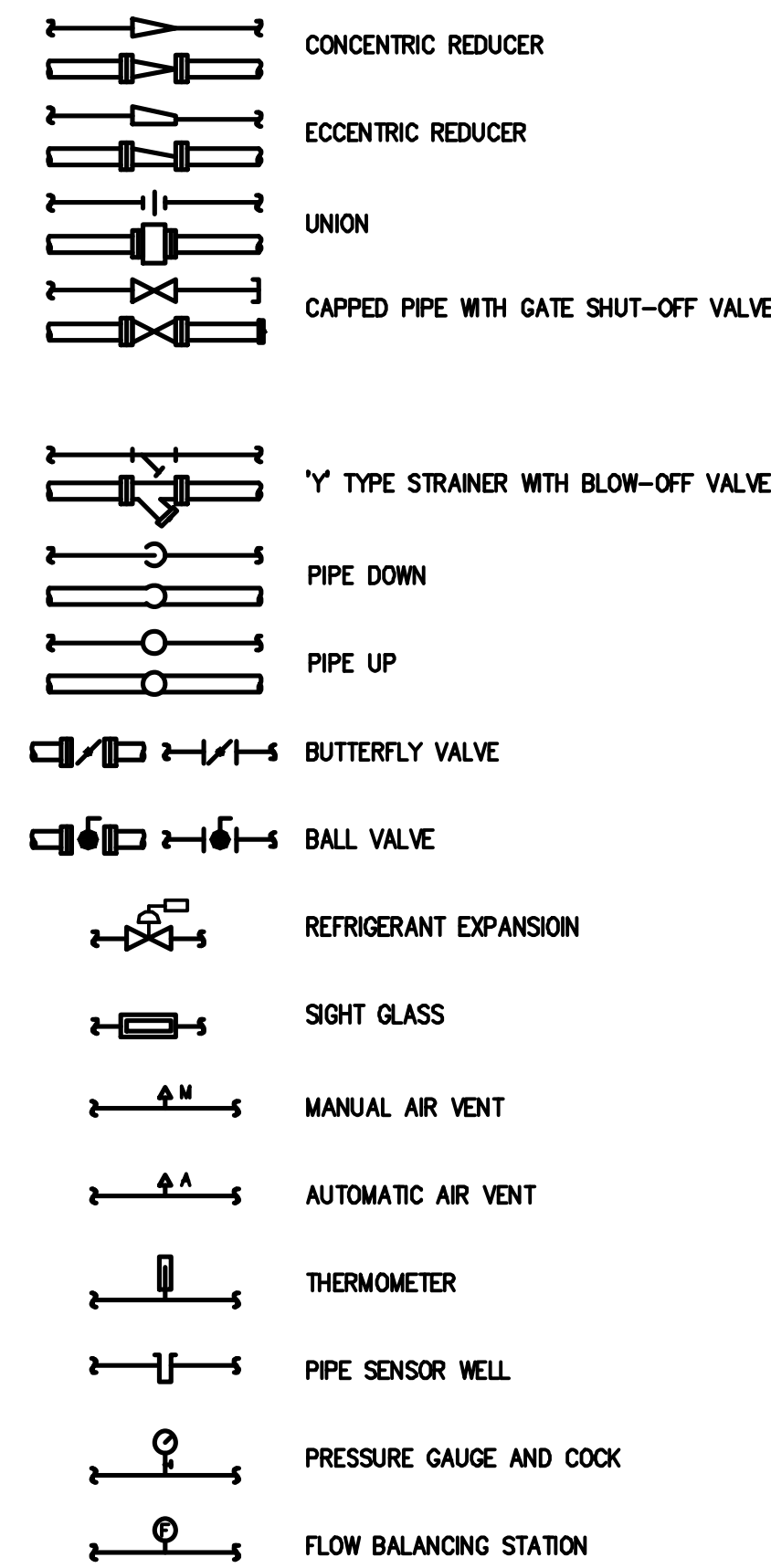
DRAWING #
M-001



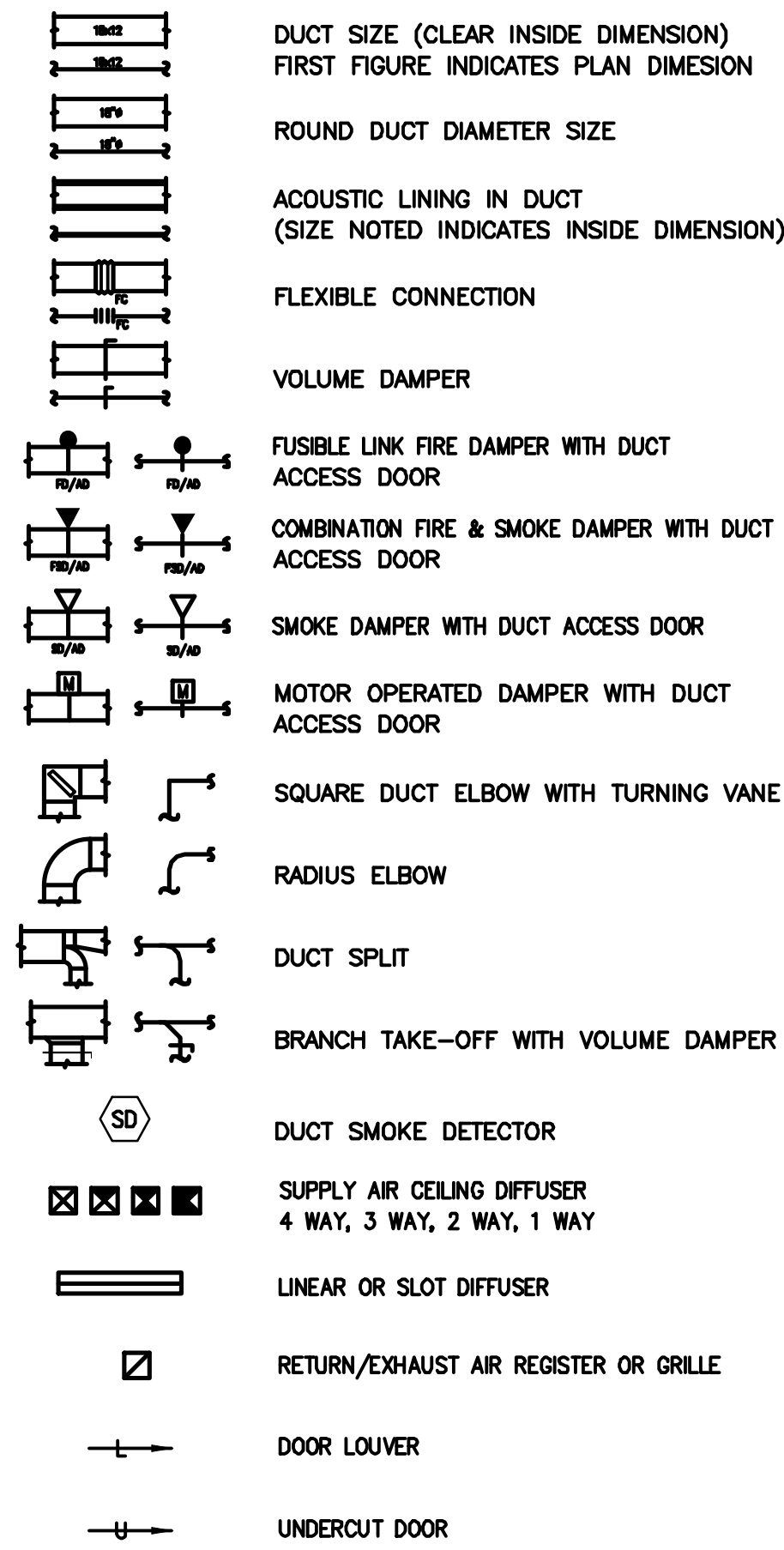
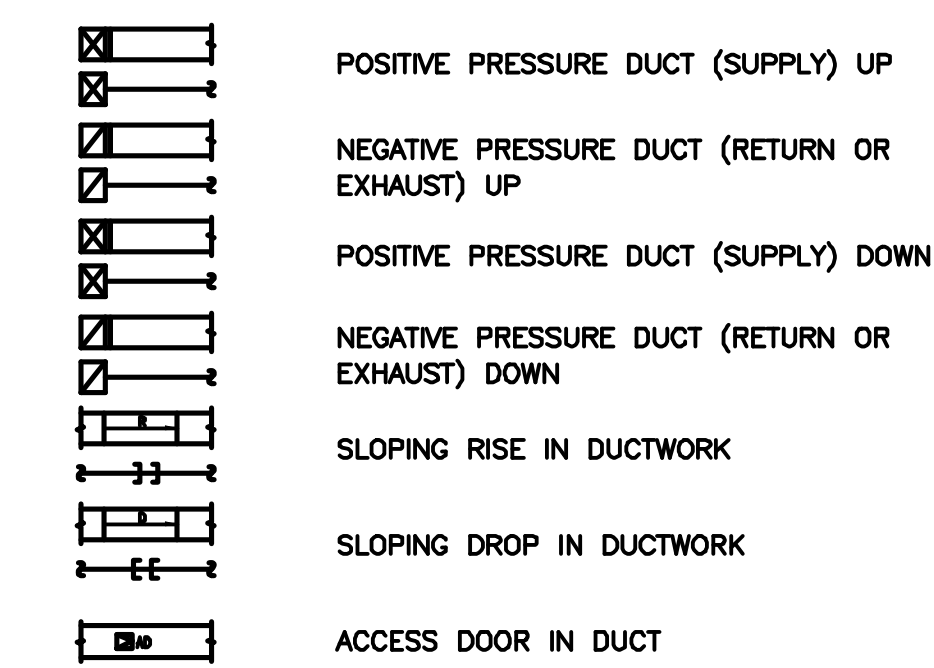
MECHANICAL ABBREVIATIONS

Table with 4 columns: ABBREVIATION, DESCRIPTION, ABBREVIATION, DESCRIPTION. Lists various mechanical terms like °C, °F, AMPERES, AIR CONDITIONING, etc.

MECHANICAL SYMBOL LIST (CONT.)



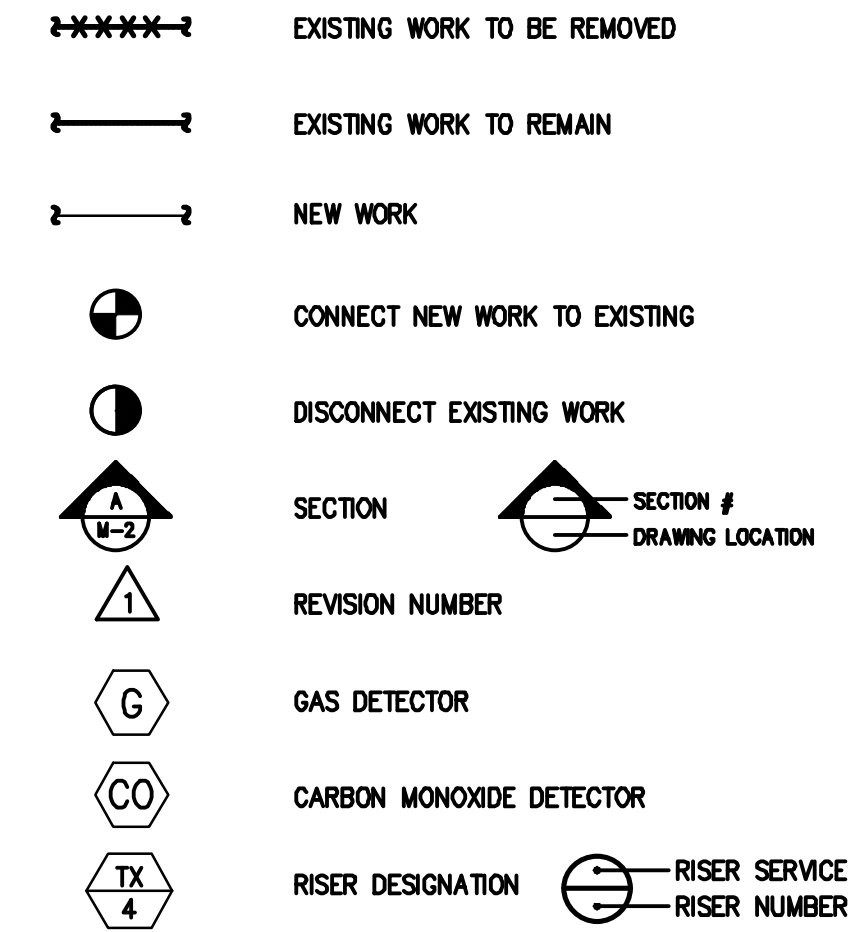
DUCTWORK SYMBOLS



CONTROL SYMBOLS

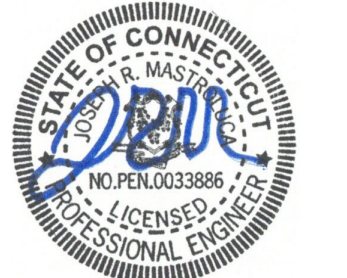


MISCELLANEOUS SYMBOLS



9/1/2021 9:50 AM Joe Mastroluca C:\USERS\JOSEPH\WORK\ME_A_PROJECTS\2021\ME_A_2021\00011_LACHAT_FARMS_EDU_CENTER\DESIGN\DRAWINGS\ELEMENTS\MEA_36x24_DWG

Table with 3 columns: #, DATE, ISSUE/REVISION DESCRIPTION. Contains a title 'ISSUED FOR PERMIT/BID'.



PROJECT NAME
OFFUTT EDUCATION CENTER
AT LACHAT FARM
106 GODFREY ROAD
WESTON, CT

JOB NO.: MEA.2021.00011
DRAWN BY: CHECK BY:
DATE: 02/16/2022 SCALE: NTS

DRAWING TITLE
MECHANICAL
COVER PAGE

DRAWING #
M-002



VARIABLE REFRIGERANT FLOW - AIR COOLED CONDENSING

UNIT NUMBER	LOCATION	SERVICE	REFRIG. TYPE	COOLING CAPACITY		HEATING CAPACITY		COMPRESSOR ELECTRICAL DATA					LOW AMB. CONTROLS	BASIS OF DESIGN MODEL (MITSUBISHI)
				NOMINAL (MBH)	NOMINAL (MBH)	VOLTS	PHASE	HZ	MCA	MOP				
ACCU-1	EXTERIOR	SEE PLANS	R410A	168	168	208	3	60	57	90		YES	TURYE1683AN40A	

GENERAL NOTES

- AIR COOLED CONDENSING UNITS SHALL BE CAPABLE OF ACHIEVING "ACTUAL" CONDITIONS LISTED AT SCHEDULED DESIGN CONDITIONS.
- EQUIPMENT TO MEET 100% DESIGN CAPACITY WITH MINIMUM 5:1 TURNDOWN AT 25 °F AND 105°F AMBIENT AIR TEMPERATURE.
- REFRIGERATION PIPE AND ALL ASSOCIATED SPECIALTIES BY CONTRACTOR. CONTRACTOR TO CONFIRM PIPE SIZES WITH VENDOR. ALL REFRIGERATION PIPING TO BE INSULATED.
- AIR COOLED CONDENSING UNIT COMPRESSOR AND FAN TO HAVE VARIABLE FREQUENCY DRIVES.
- ELECTRICAL CONTRACTOR TO PROVIDE DISCONNECT.
- PROVIDE SNOW HOOD TO PROTECT AIR INTAKE.
- PROVIDE LOW AMBIENT TEMPERATURE KIT TO MAINTAIN HEAT RECOVERY OPERATION DOWN TO -10°F AMBIENT.
- PROVIDE SERVICE AND OPERATIONAL CLEARANCES PER MANUFACTURER RECOMMENDATIONS.
- PROVIDE MASTER CONTROLLER SIMILAR TO TE-200A WITH TEMPERATURE SENSORS MOUNTED IN SPACE.

VARIABLE REFRIGERANT FLOW - INDOOR UNITS

UNIT NUMBER	LOCATION	TYPE	REFRIGERANT TYPE	COOLING MODE					HEATING MODE			ELECTRICAL DATA					SOUND DATA OPERATING RANGE (Dba)	DIMENSIONS				BASIS OF DESIGN MODEL (MITSUBISHI)		
				RETURN AIR AIRFLOW (CFM)	EDB (°F)	SUPPLY AIR AIRFLOW (CFM)	LDB (°F)	CAPACITY (BTUH)	COOLING (SENSIBLE)	CAPACITY (BTUH)	HEATING (NOMINAL)	LDB(°F)	VOLTS	PHASE	HZ	MCA		MFS	H (IN)	W (IN)	D (IN)		WEIGHT (LBS)	
ACC-1	ATTIC	CEILING CONCEALED DUCTED	410A	1,215	75	1,215	55	30,036	21,603	23254	90	HIGH	0.6	208	1	60	2.88	15	33-43	8-3/16	43	28	34.2	TPEFY030FM140A
ACC-2	ATTIC	CEILING CONCEALED DUCTED	410A	1,390	75	1,390	55	36,043	28,406	27358	90	HIGH	0.6	208	1	60	4.25	15	33-43	8-3/16	55	28	36.6	TPEFY036FM140A
ACC-3	ATTIC	CEILING CONCEALED DUCTED	410A	1,390	75	1,390	55	36,043	28,406	27358	90	HIGH	0.6	208	1	60	4.25	15	33-43	8-3/16	55	28	36.6	TPEFY036FM140A
ACC-4	ATTIC	CEILING CONCEALED DUCTED	410A	1,215	75	1,215	55	30,036	21,603	23254	90	HIGH	0.6	208	1	60	2.88	15	33-43	8-3/16	43	28	36.6	TPEFY030FM140A
ACC-5	ATTIC	CEILING CONCEALED DUCTED	410A	700	75	700	55	18,021	12,123	13679	90	HIGH	0.6	208	1	60	2.94	15	33-43	8-3/16	35	28	36.6	TPEFY018FM140A
ACC-6	ATTIC	CEILING CONCEALED DUCTED	410A	450	75	450	55	12,000	8,000	10000	90	HIGH	0.6	208	1	60	2.94	15	33-43	8-3/16	28	28	36.6	TPEFY012FM140A

GENERAL NOTES

- PROVIDE INTEGRAL CONDENSATE PUMP UNLESS OTHERWISE NOTED. MECHANICAL CONTRACTOR TO PROVIDE 1 1/4" CONDENSATE PIPE TO NEAREST CLEAR WATER WASTE RECEIVER. REFER TO PLUMBING DRAWINGS FOR LOCATIONS.
- REFRIGERANT SHALL BE R410A.
- PROVIDE AUXILIARY DRAN PAN AT EACH INDOOR UNIT. REFER TO DETAILS.
- PROVIDE SERVICE CLEARANCES PER MANUFACTURER RECOMMENDATIONS.
- REFER TO PLANS FOR AIRFLOW RATES (CFM) AT EACH INDOOR UNIT.
- PROVIDE FILTER KITS FOR ALL INDOOR UNITS. COORDINATE ORIENTATION OF FILTER KITS WITH TOP OR BOTTOM REMOVAL AS REQUIRED BY ACCESS PATHWAY.
- EXHAUST AIR COLUMN SHOWN FOR BALANCING PURPOSES OF THE EXHAUST DUCT CONNECTED TO THE RETURN SIDE OF THE UNIT.

VARIABLE REFRIGERANT FLOW - BRANCH CONTROL BOXES

UNIT NUMBER	SERVICE	CONNECTED CAPACITY (MBH)	NUMBER OF PORTS	ELECTRICAL DATA					BASIS OF DESIGN MODEL (MITSUBISHI)
				VOLTS	PHASE	HZ	MCA	MOCP	
BCC-1	ACCU-1	170.0	12	208	1	60	0.97	15	TCMBM108JA11N4

GENERAL NOTES

- REFER TO PLANS FOR LOCATIONS OF BRANCH SELECTOR BOXES. PROVIDE SERVICE CLEARANCES PER MANUFACTURER RECOMMENDATIONS.

FAN SCHEDULE

UNIT NUMBER	LOCATION	SERVICE	CFM	FAN S.P. (IN. WG.)	FAN RPM	FAN TYPE	FAN CONTROL		MOTOR DATA @ 60 HZ					BASIS OF DESIGN MANUFACTURER & MODEL	SONES (INLET)
							DRIVE DIRECT/BELT	VFD/ECM	BHP	MHP	FLA	VOLTS	PHASE		
EF-1	STORAGE	GENERAL	175	0.6	1556	INLINE	DIRECT	VARI-GREEN	0.12	1/4	-	120	1	SQ-97-VG	-
EF-2	BATHROOM	GENERAL	175	0.6	1556	INLINE	DIRECT	VARI-GREEN	0.12	1/4	-	120	1	SQ-97-VG	-
EF-3	BATHROOM	GENERAL	175	0.6	1556	INLINE	DIRECT	VARI-GREEN	0.12	1/4	-	120	1	SQ-97-VG	-

GENERAL NOTES

- PROVIDE VARI-GREEN MOTOR WITH REMOTE DIAL FOR MANUAL ADJUSTMENT.
- PROVIDE VIBRATION ISOLATORS.

ELECTRIC BASEBOARD SCHEDULE

UNIT NUMBER	LENGTH	COLOR	ELEC	WATT OUTPUT	BASIS OF DESIGN MANUFACTURER & MODEL
ER	3 FEET	BY ARCHITECT	120V	440	RUNTAL EB3-120D
ER	4 FEET	BY ARCHITECT	120V	586	RUNTAL EB3-120D

GENERAL NOTES

- ELECTRIC BASEBOARD SHALL BE WALL MOUNTED. COORDINATE MOUNTING WITH ARCHITECT
- PROVIDE LINE VOLTAGE THERMOSTAT FOR RADIATORS. BASEBOARD CAN BE WIRED IN PARALLEL. REFER TO ELECTRICAL DRAWINGS.
- PROVIDE RELAY FOR SWITCHING OFF RADIATOR WHEN NOT IN USE.

ELECTRIC DUCT HEATER

UNIT NUMBER	CAPACITY	BTU	ELEC	MOUNTING HEIGHT	BASIS OF DESIGN MANUFACTURER & MODEL
EH-1	3KW	10,200	208/3	8'	MODINE HER 30

GENERAL NOTES

- PROVIDE LOW VOLTAGE THERMOSTAT WITH LOW VOLTAGE CONTROL KIT.
- PROVIDE WALL MOUNTING BRACKET.
- PROVIDE SUMMER WINTER SWITCH.
- 14 GA STEEL CABINET, AUTOMATIC RESET, HIGH LIMIT TEMPERATURE PROTECTION, 380 CFM

AIR OUTLETS SCHEDULE BASIS OF DESIGN:TITUS

TAG No.	FUNCTION	NECK SIZE	FACE SIZE	MAX. CFM	MAX Pd.	THROW(FT)	MAX NC	MODEL
CSXXXX	SUPPLY	DWGS	DWGS	DWGS	DWGS	--	30	350RL
CRXXXX	RETURN	DWGS	DWGS	DWGS	DWGS	--	30	300RL
CD-A	SUPPLY	6"ø	24x24	100	0.02	2	10	TDC
	SUPPLY	8"ø	24x24	250	0.06	5	13	
	SUPPLY	10"ø	24x24	350	0.07	7	12	
	SUPPLY	12"ø	24x24	450	0.08	8	10	
	SUPPLY	14"ø	24x24	550	0.08	9	10	
CD-R	RETURN & EXHAUST	10x10	12x12	0-400	--	--	--	350 RL
	RETURN & EXHAUST	22x22	24x24	100-850	--	--	--	350 RL

NOTES:

- DIFFUSERS TO BE SUPPLIED WITH OPPOSED BLADE DAMPERS.
- COORDINATE CEILING DIFFUSERS' BORDER STYLE WITH LATEST ARCHITECTURAL REFLECTED CEILING LAYOUT TO INSURE CORRECT MOUNTING COMPATIBILITY. SUPPLY FRAME TO MATCH CEILING CONSTRUCTION.
- THE DIFFUSER NECK SHALL HAVE A MINIMUM OF 1 1/8" DEPTH FOR DUCT CONNECTION.
- AIR OUTLETS TO BE STEEL, STD WHITE FINISH.
- ALL DIFFUSERS/GRILLES MUST HAVE MEANS OF BALANCING, EITHER WITH VD IN DUCT OR DAMPER AT DIFFUSER/GRILLE.

Revisions

#	DATE	ISSUE/REVISION DESCRIPTION

PHASE

ISSUED FOR PERMIT/BID



PROJECT NAME

OFFUTT EDUCATION CENTER AT LACHAT FARM

106 GODFREY, ROAD WESTON, CT

JOB NO.: MEA.2021.00011

DRAWN BY: CHECK BY:

DATE: 02/16/2022 SCALE: NTS

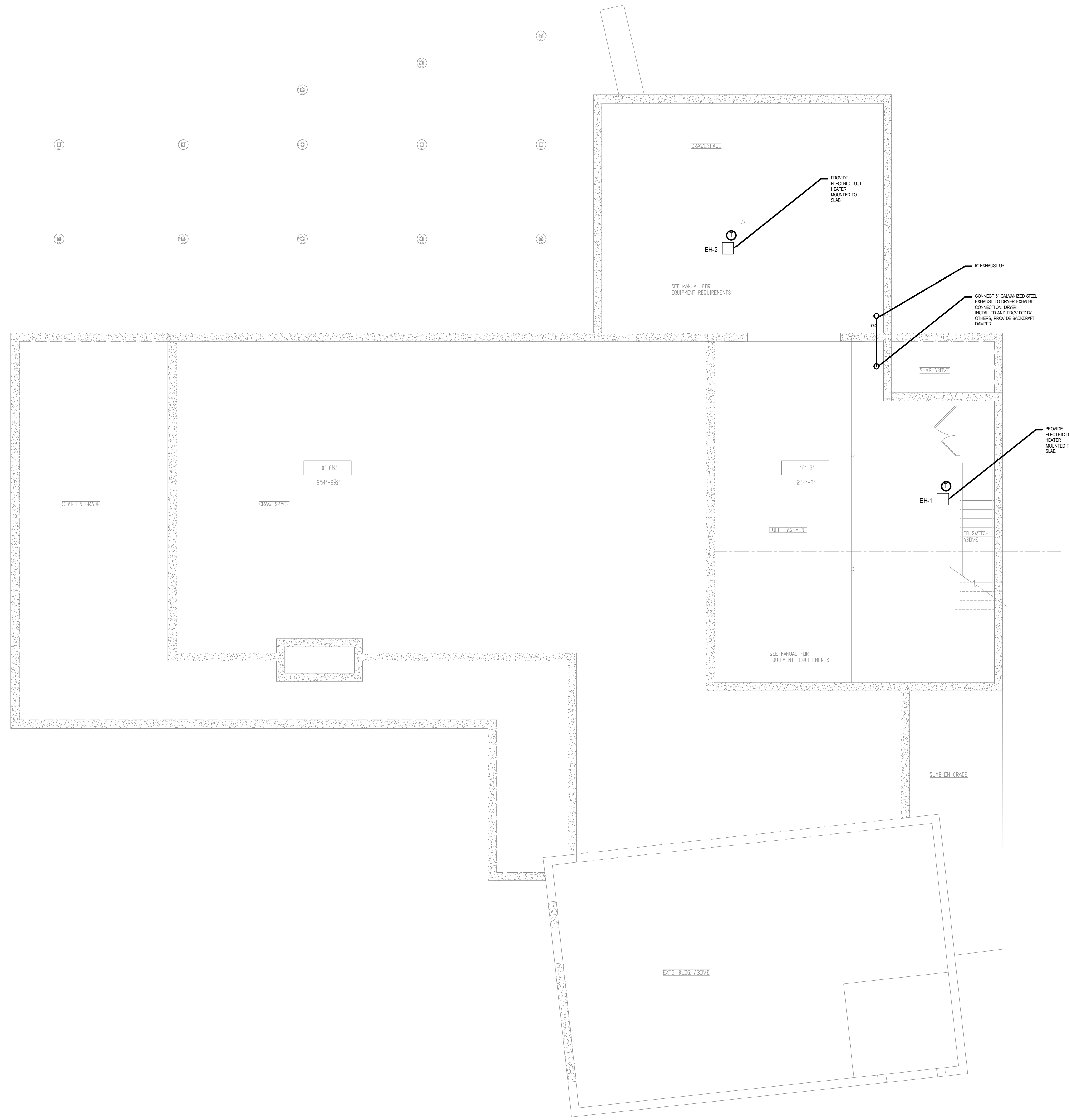
DRAWING TITLE

MECHANICAL SCHEDULE SHEET

DRAWING #

M-003

9/1/2021 9:50 AM C:\USERS\JOSEPH\DESKTOP\WORK\MEIA_PROJECTS\2021\MEIA_2021\00011_LACHAT_FARMS_EDU_CENTER\DESIGN\DRAWINGS\ELEMENTS\MEIA_36X24_DWG



Revisions

#	DATE	ISSUE/REVISION DESCRIPTION

PHASE
ISSUED FOR PERMIT/BID

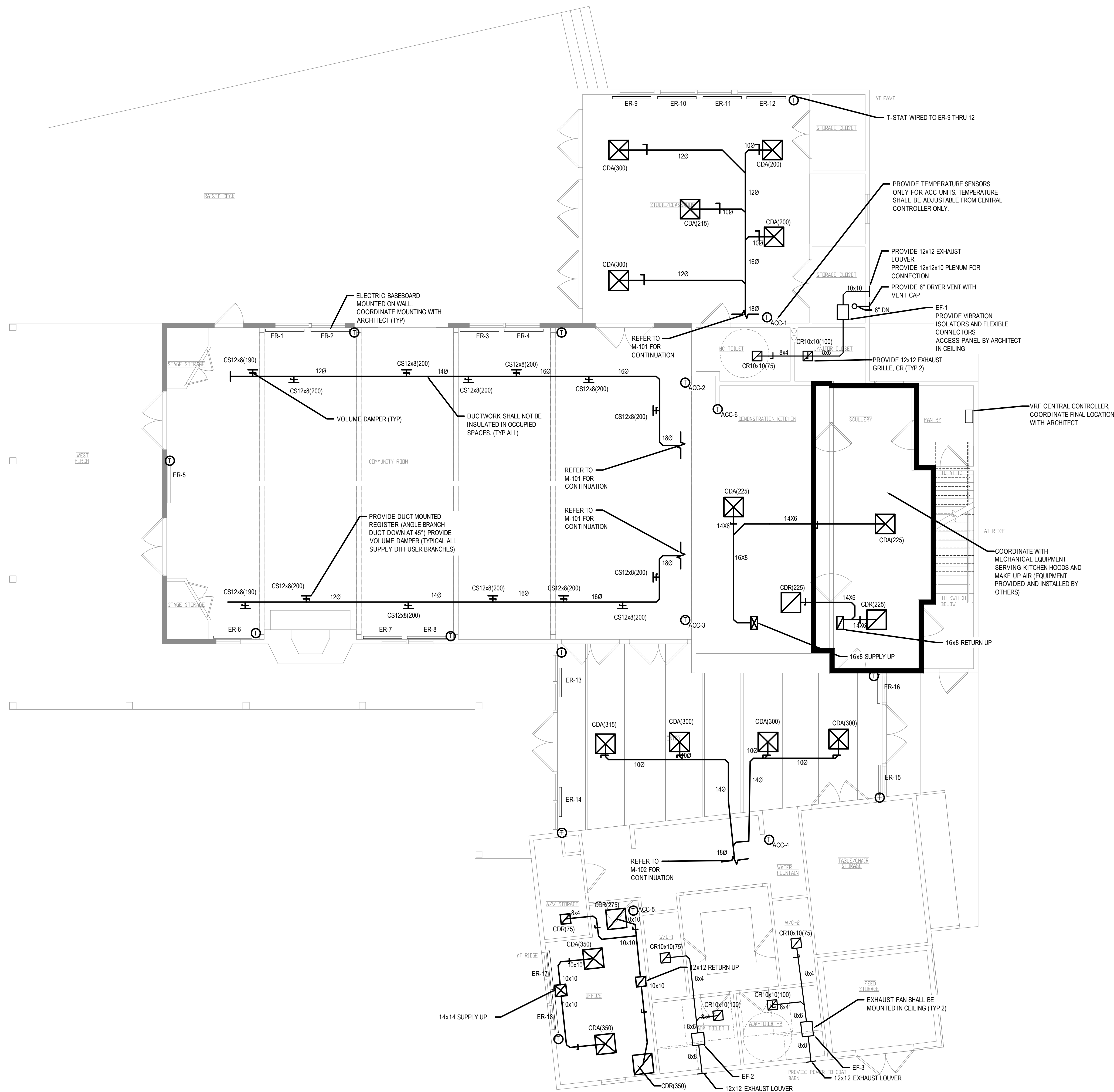


PROJECT NAME
**OFFUTT EDUCATION CENTER
AT LACHAT FARM**
106 GODFREY, ROAD
WESTON, CT

JOB NO.: MEA.2021.00011
DRAWN BY: CHECK BY:
DATE: 02/16/2022 SCALE: 3/16" = 1' - 0"

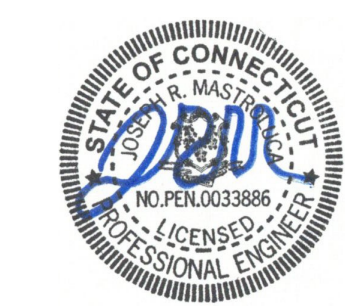
DRAWING TITLE
**MECHANICAL BASEMENT
DUCTWORK PLAN**

DRAWING #
M-100



Revisions		
#	DATE	ISSUE/REVISION DESCRIPTION

PHASE
ISSUED FOR PERMIT/BID



PROJECT NAME
OFFUTT EDUCATION CENTER AT LACHAT FARM
106 GODFREY, ROAD
WESTON, CT

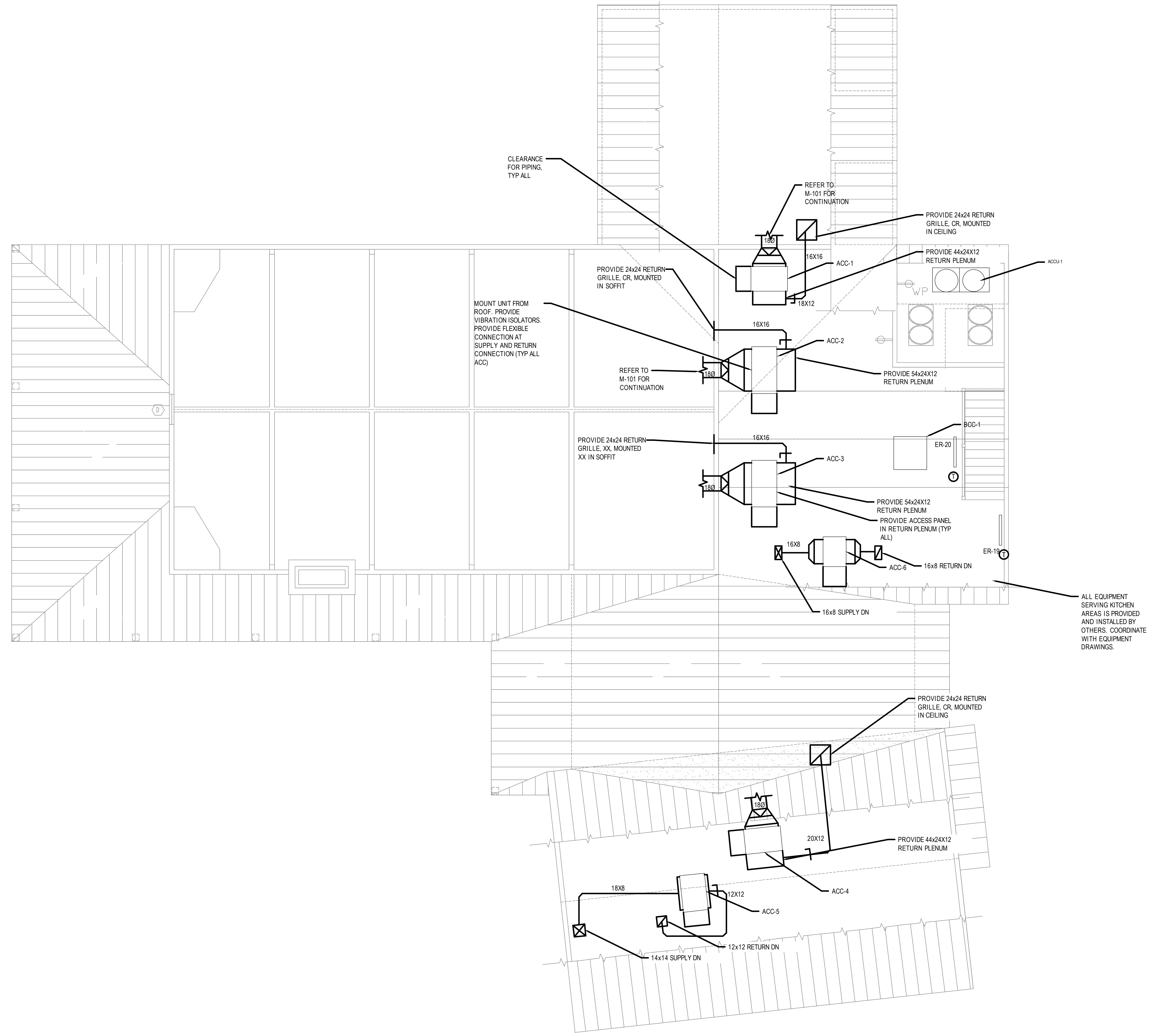
JOB NO.: MEA.2021.00011
DRAWN BY: _____ CHECK BY: _____
DATE: 02/16/2022 SCALE: 3/16" = 1' - 0"

DRAWING TITLE
MECHANICAL 1ST FLOOR DUCTWORK PLAN

DRAWING #
M-101

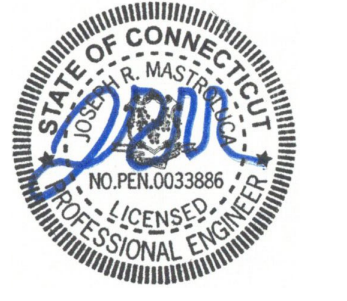
9/1/2021 9:50 AM Joe Mastroluca C:\USERS\JOSE\DESKTOP\WORK\MEA_PROJECTS\2021\MEA.2021.00011_LACHAT_FARM_EDU_CENTER\DESIGN\DRAWINGS\ELEMENTS\MEA_36x24_DWG

9/1/2021 9:50 AM Joe Mastroiuca C:\USERS\JOSEPH\Desktop\WORK\MEIA_PROJECTS\2021\MEIA_2021.000111_LACHAT_FARMS_EDU_CENTER\DESIGN\DRAWINGS\ELEMENTS\MEIA_36X24_DWG



Revisions		
#	DATE	ISSUE/REVISION DESCRIPTION

PHASE
ISSUED FOR PERMIT/BID



PROJECT NAME
OFFUTT EDUCATION CENTER AT LACHAT FARM
106 GODFREY, ROAD
WESTON, CT

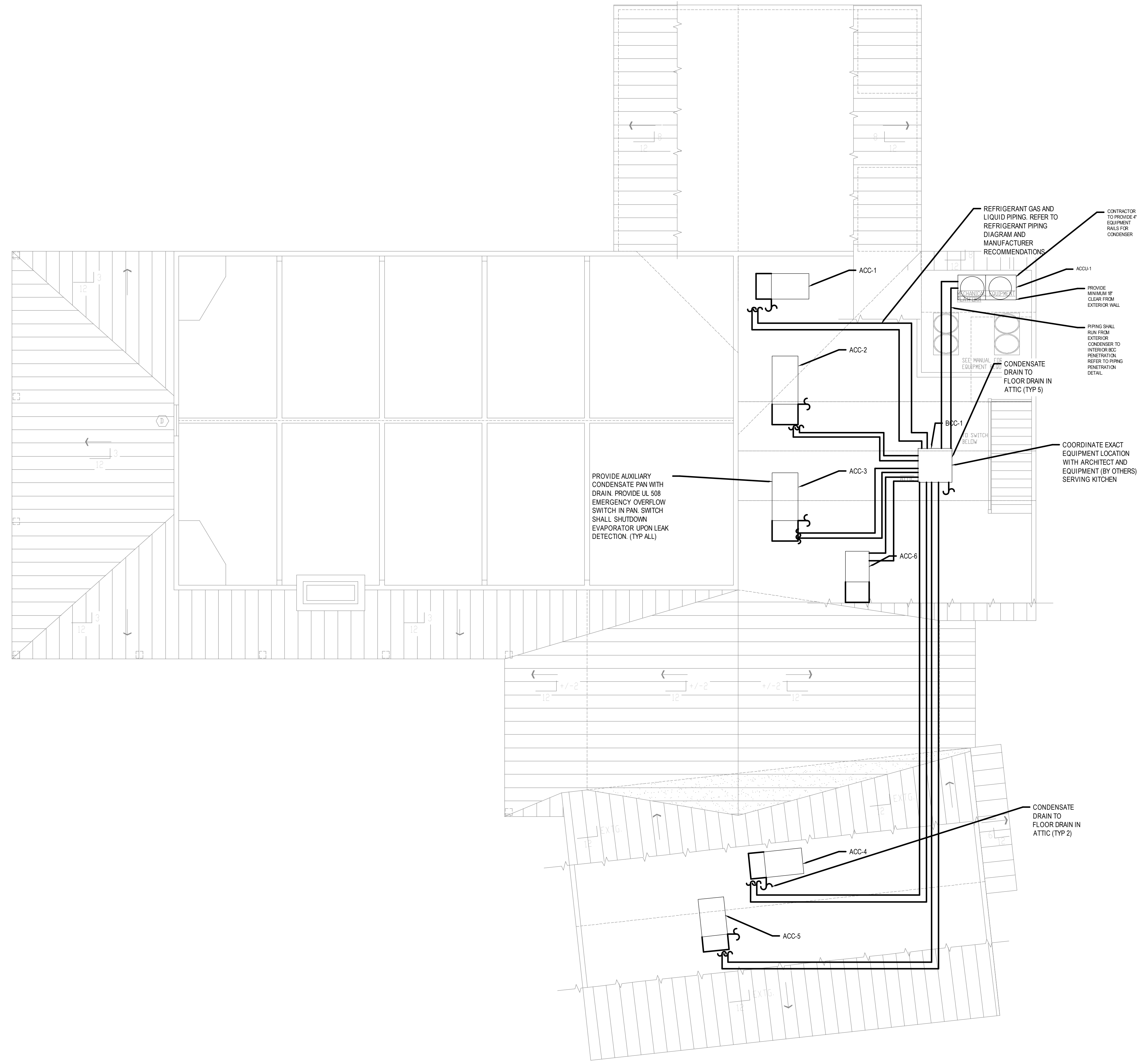
JOB NO.: MEA.2021.00011
DRAWN BY: CHECK BY:
DATE: 02/16/2022 SCALE: 3/16" = 1' - 0"

DRAWING TITLE
MECHANICAL ATTIC DUCTWORK PLAN

DRAWING #
M-102

© 2022 MASTROLUCA ENGINEERING ASSOCIATES, LLC
These drawings, concepts, designs and ideas are the property of MASTROLUCA ENGINEERING ASSOCIATES, LLC. They may not be copied, reproduced, disclosed to others, or used in connection with any work other than the specified project for which they were prepared, in whole or in part, without prior written consent of MASTROLUCA ENGINEERING ASSOCIATES, LLC.

9/1/2021 9:50 AM Joe Mastroiuca C:\USERS\JOSE\DESKTOP\WORK\MEA_PROJECTS\2021\MEA.2021.00011_LACHAT_FARMS_EDU_CENTER\DESIGN\DRAWINGS\ELEMENTS\MEA_36X24_DWG



Revisions

#	DATE	ISSUE/REVISION DESCRIPTION

PHASE
ISSUED FOR PERMIT/BID

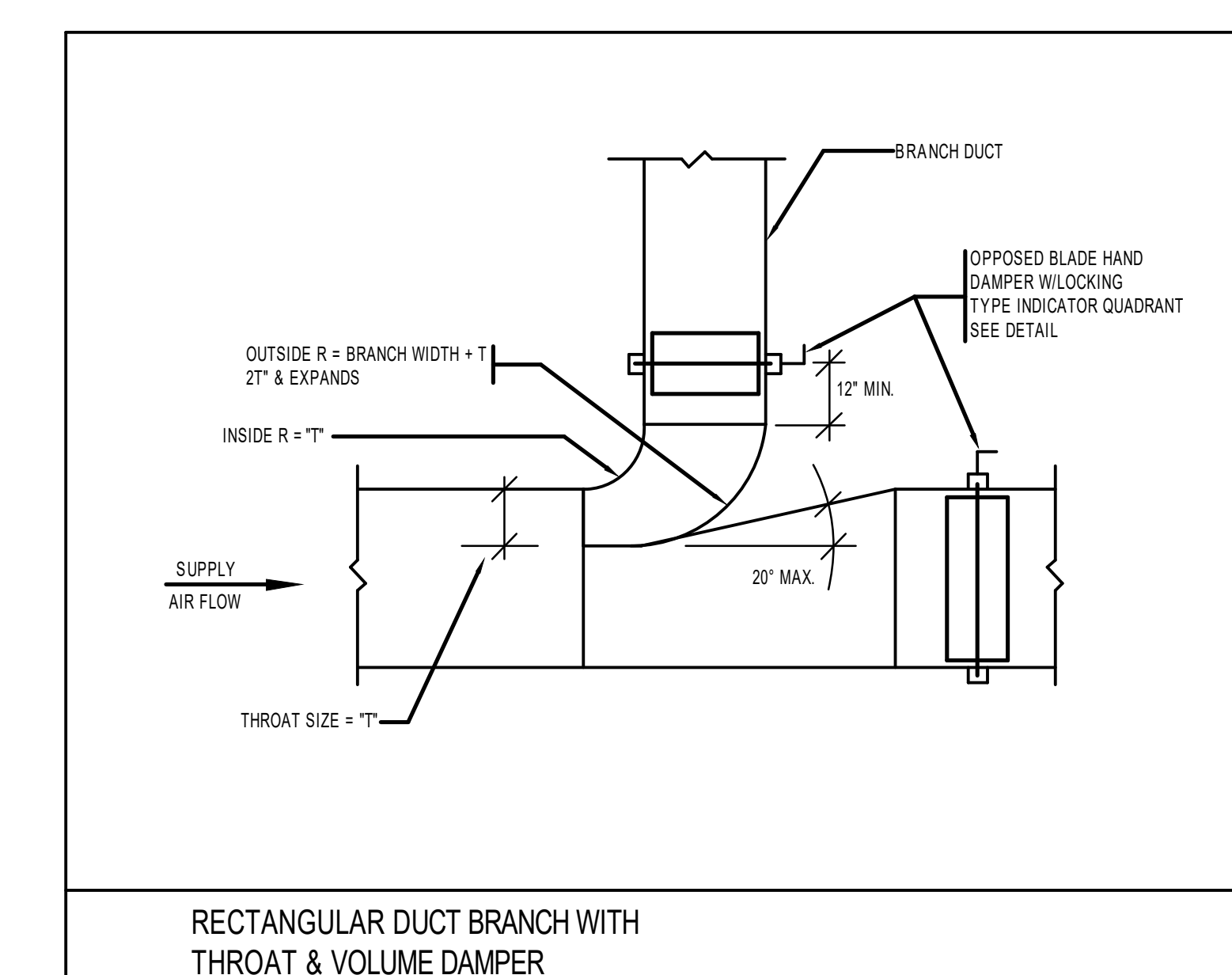
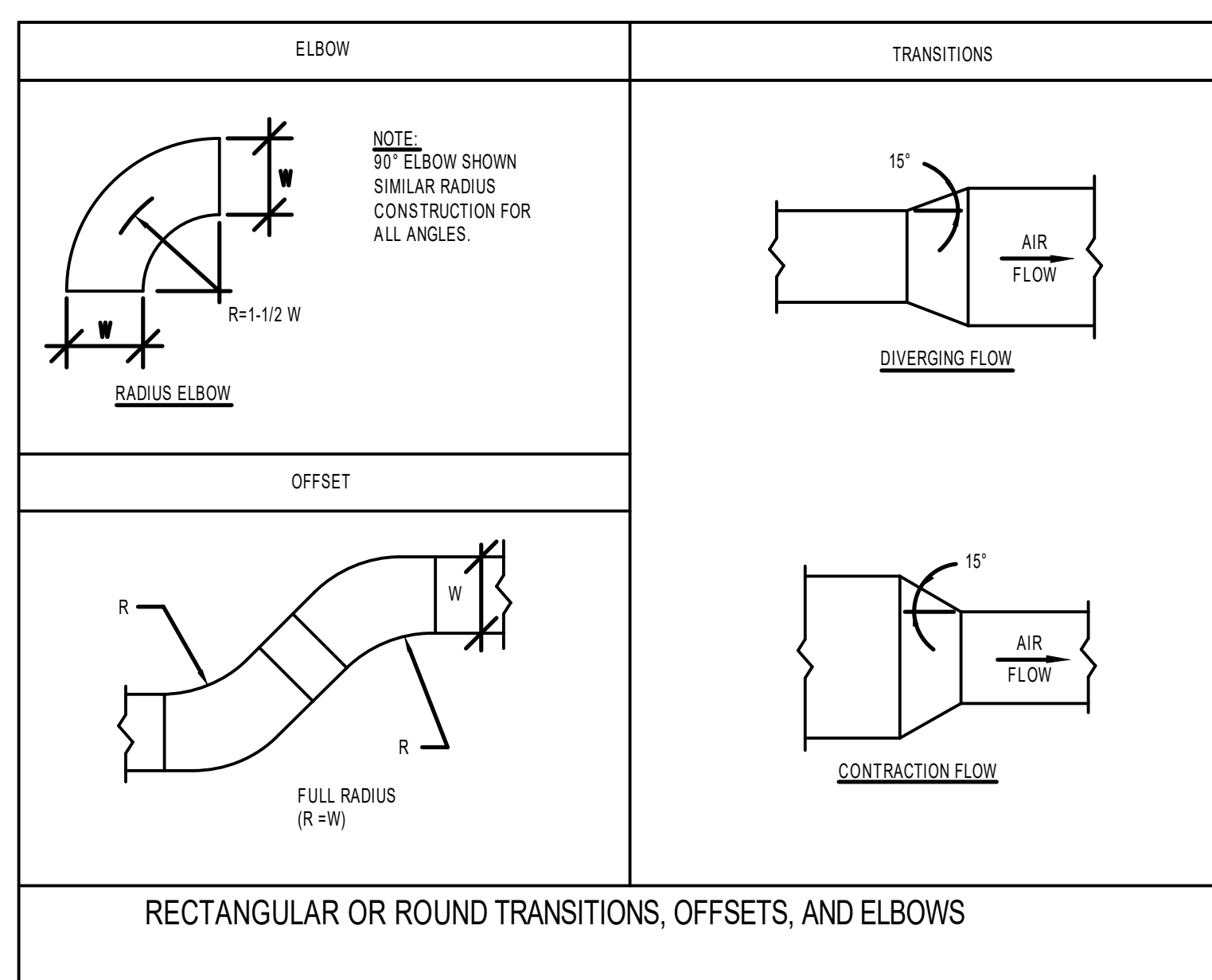
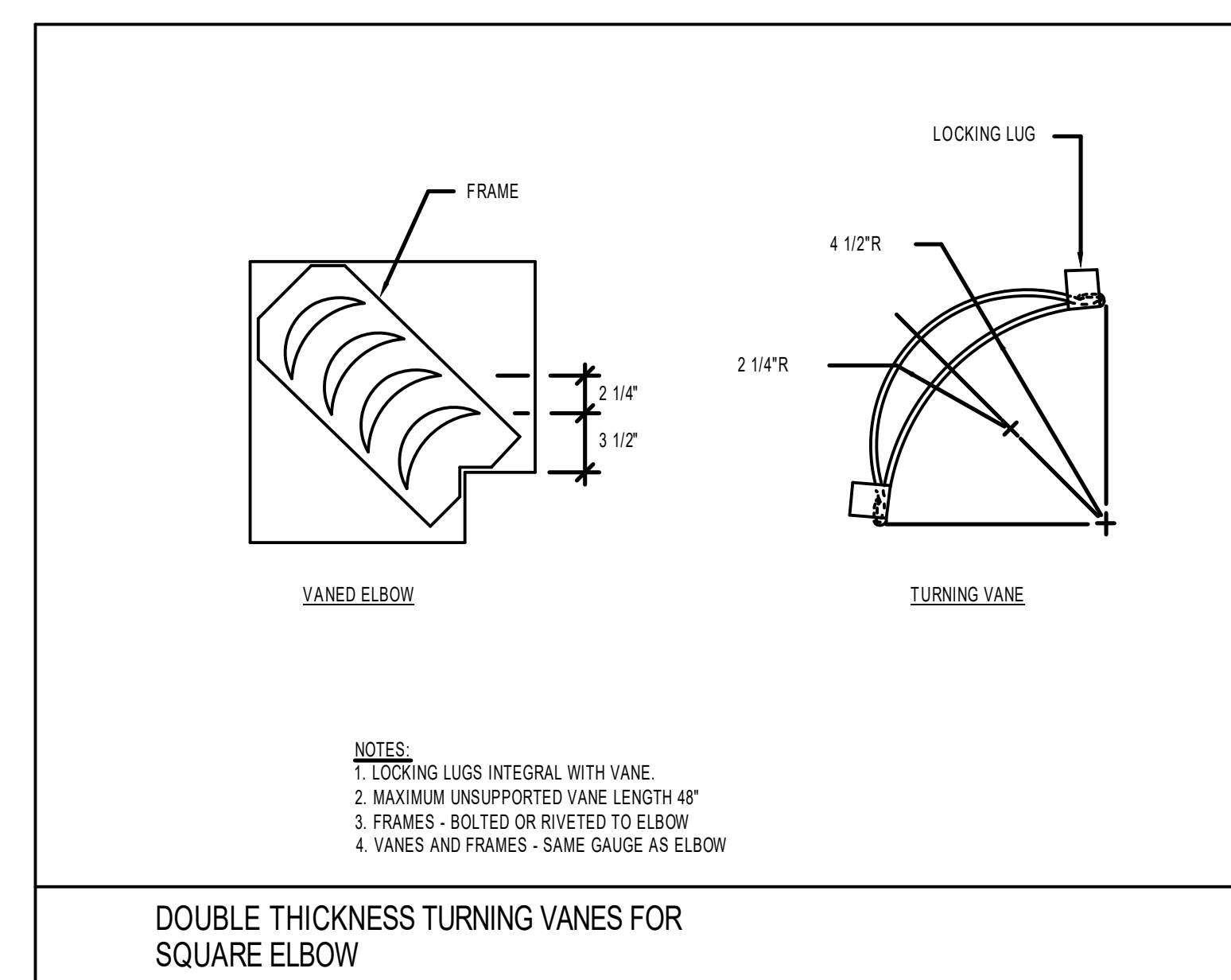
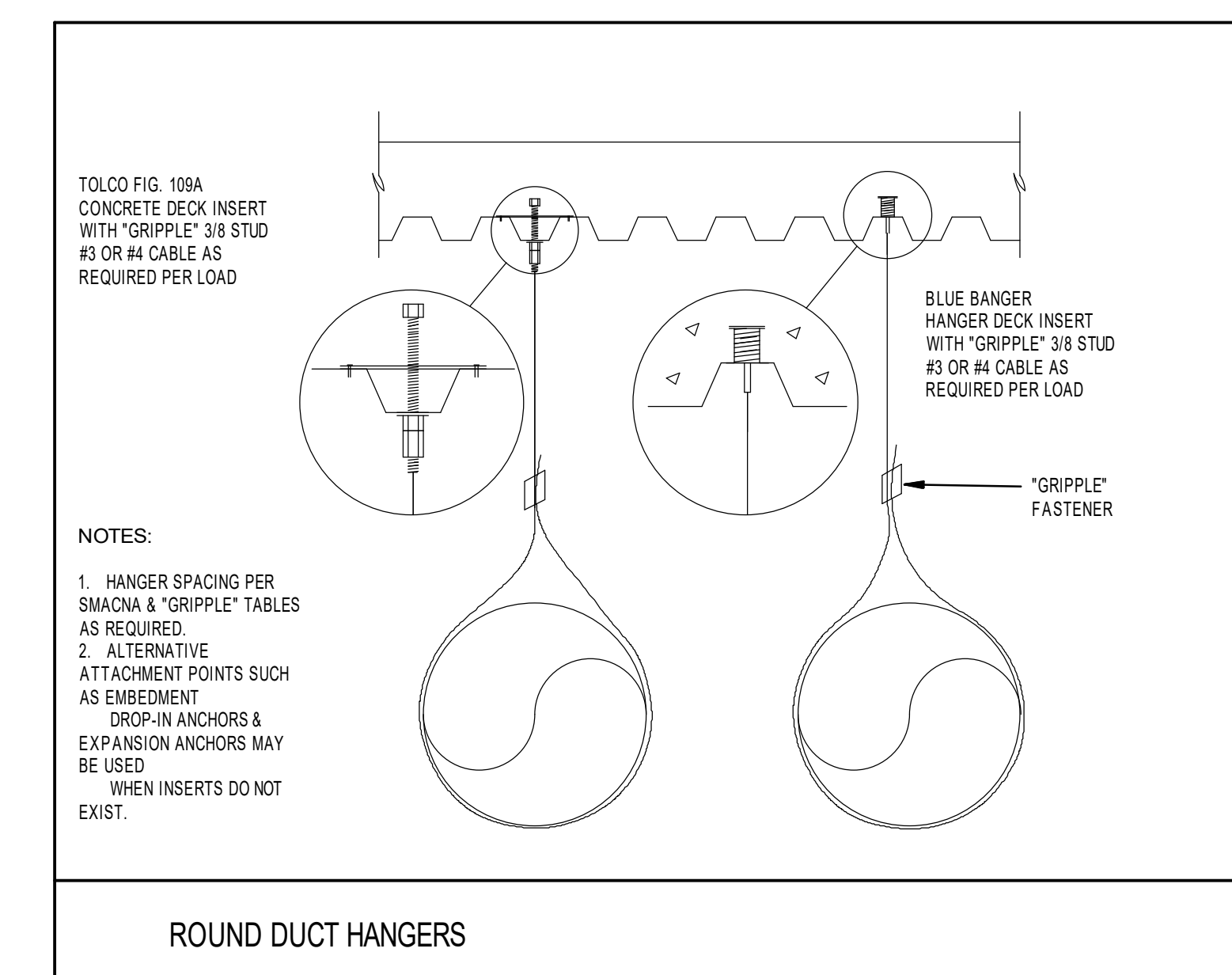
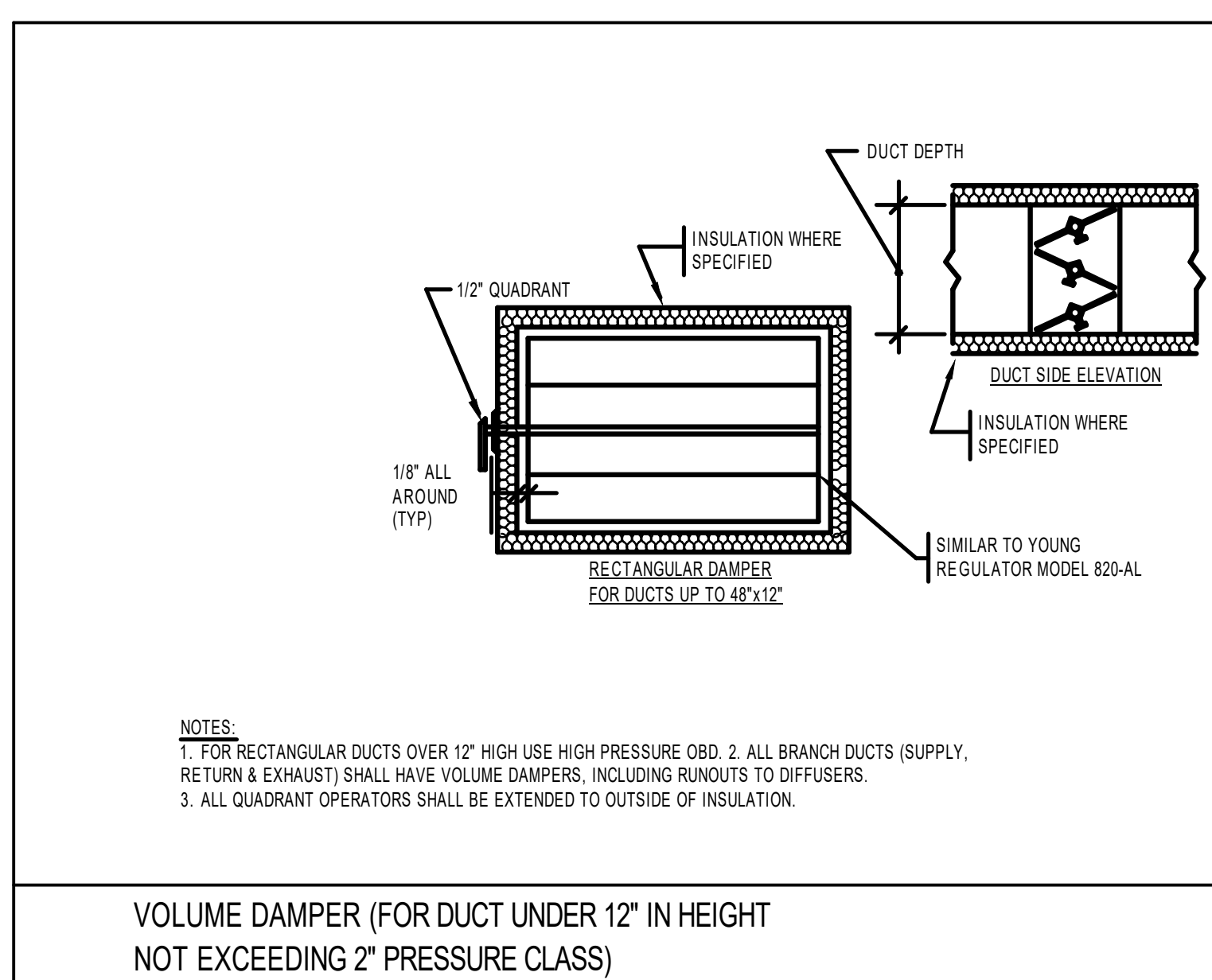
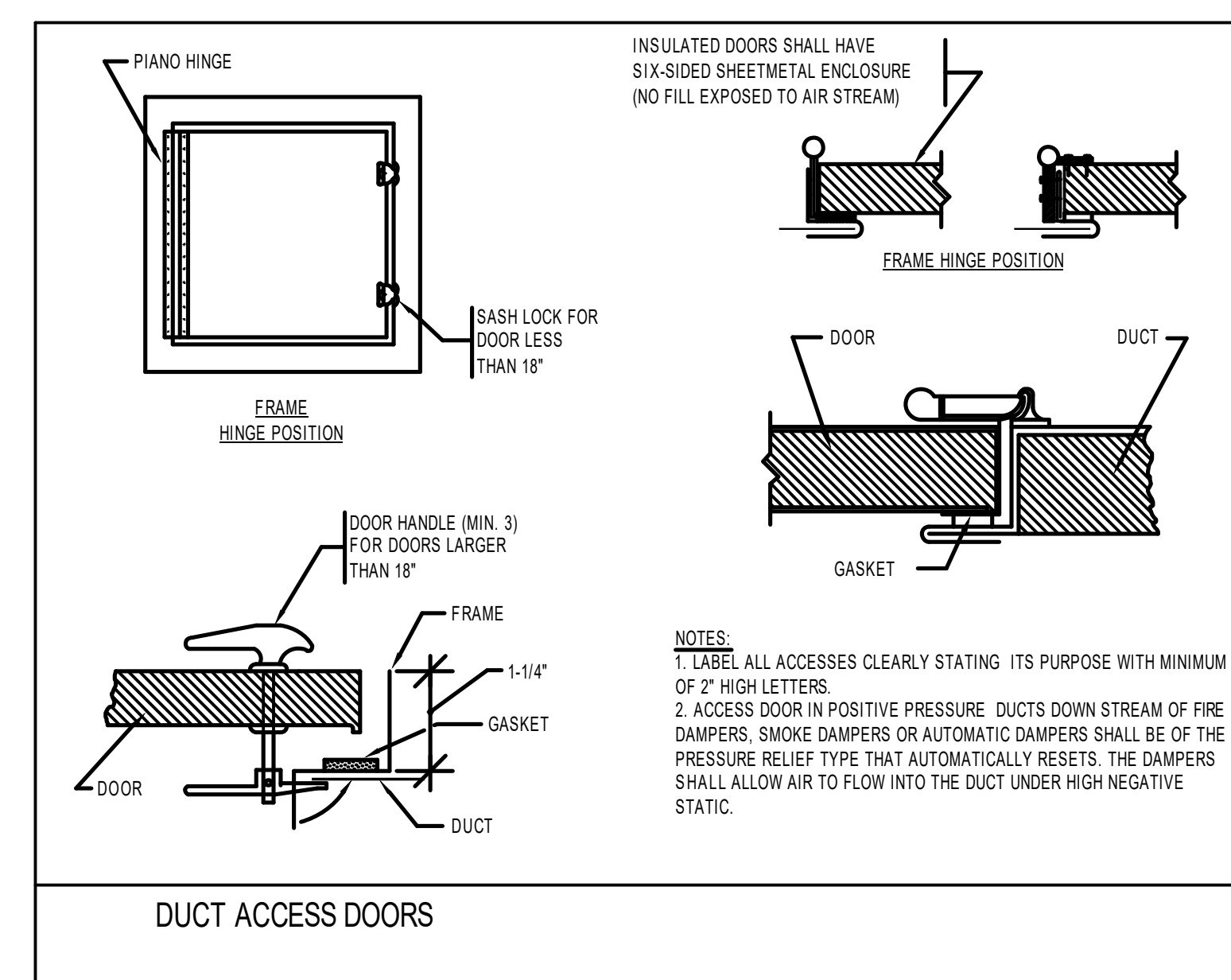
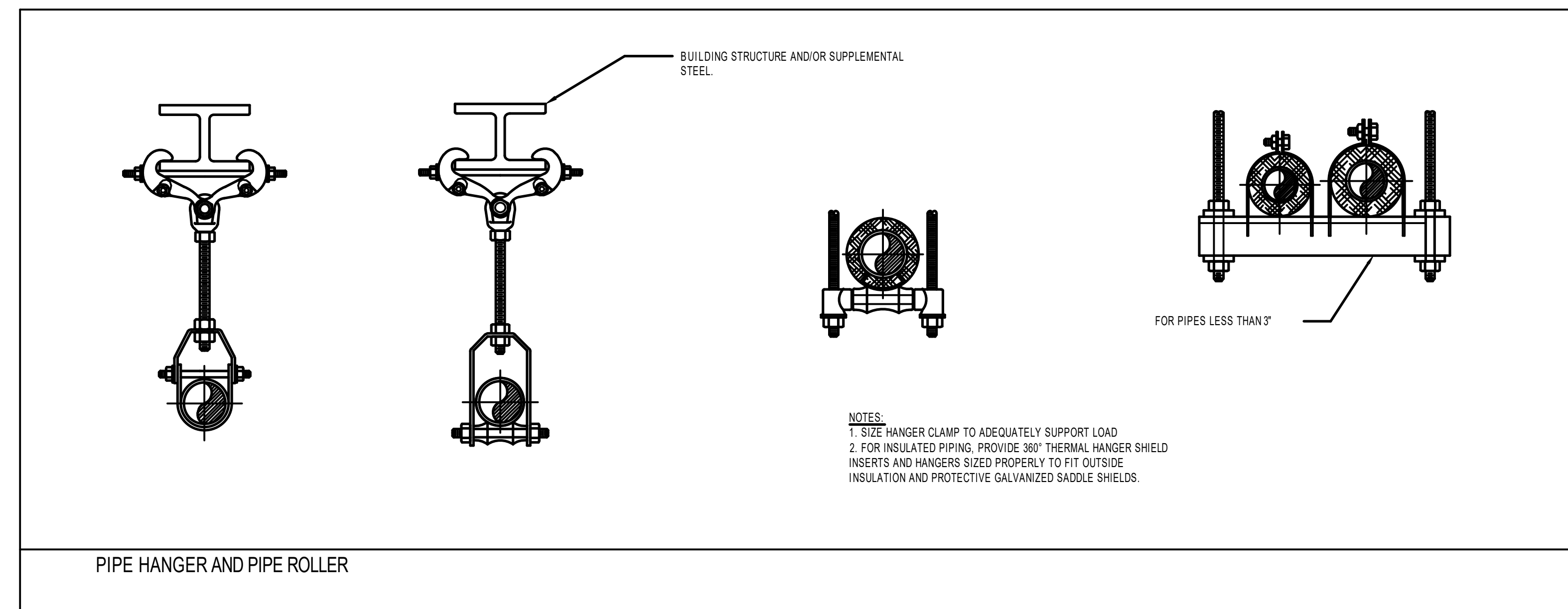
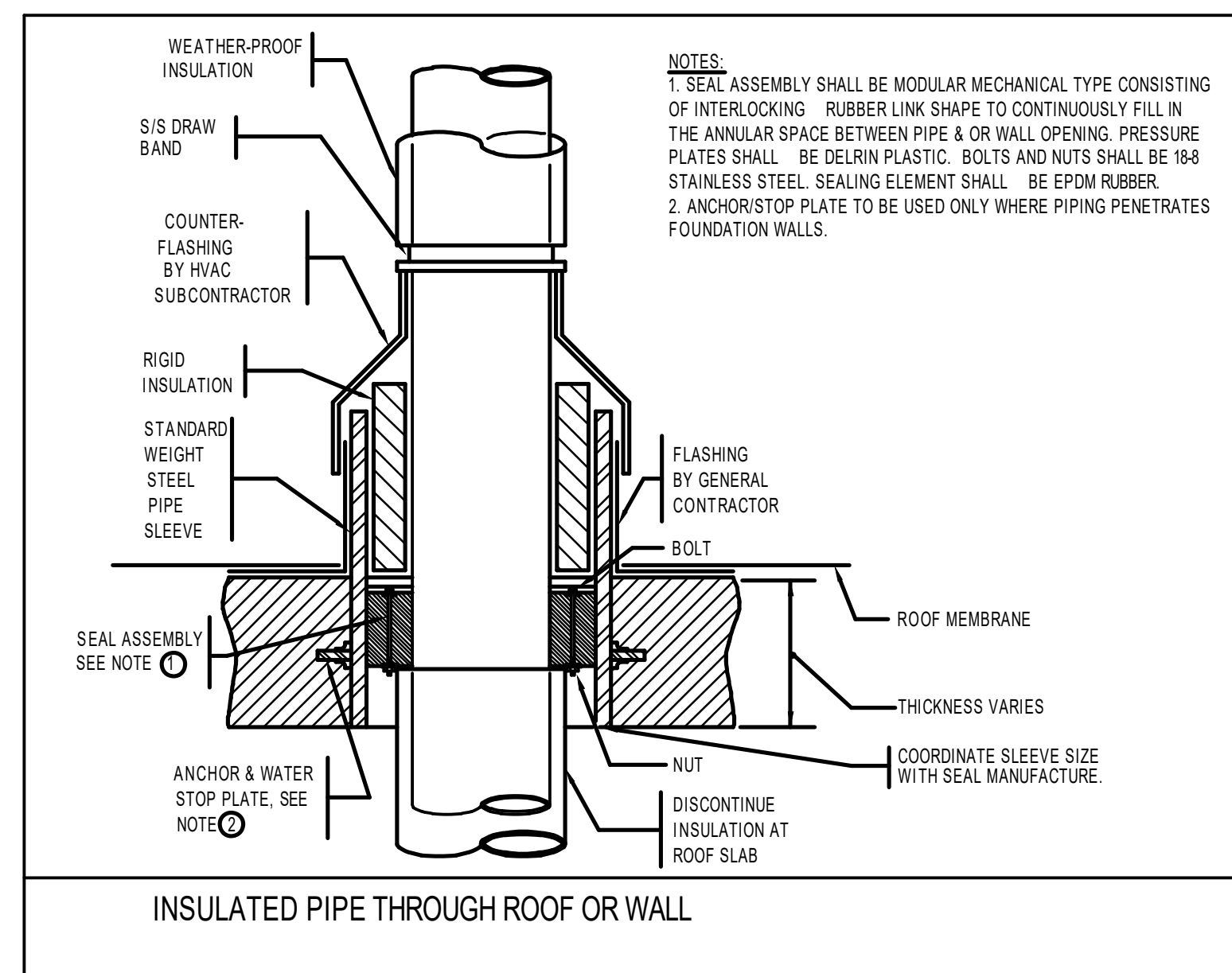


PROJECT NAME
OFFUTT EDUCATION CENTER AT LACHAT FARM
106 GODFREY, ROAD
WESTON, CT

JOB NO.: MEA.2021.00011
DRAWN BY: CHECK BY:
DATE: 02/16/2022 SCALE: 3/16" = 1' - 0"

DRAWING TITLE
MECHANICAL PIPING ATTIC PLAN

DRAWING #
M-202



Revisions		
#	DATE	ISSUE/REVISION DESCRIPTION

PHASE
ISSUED FOR PERMIT/BID



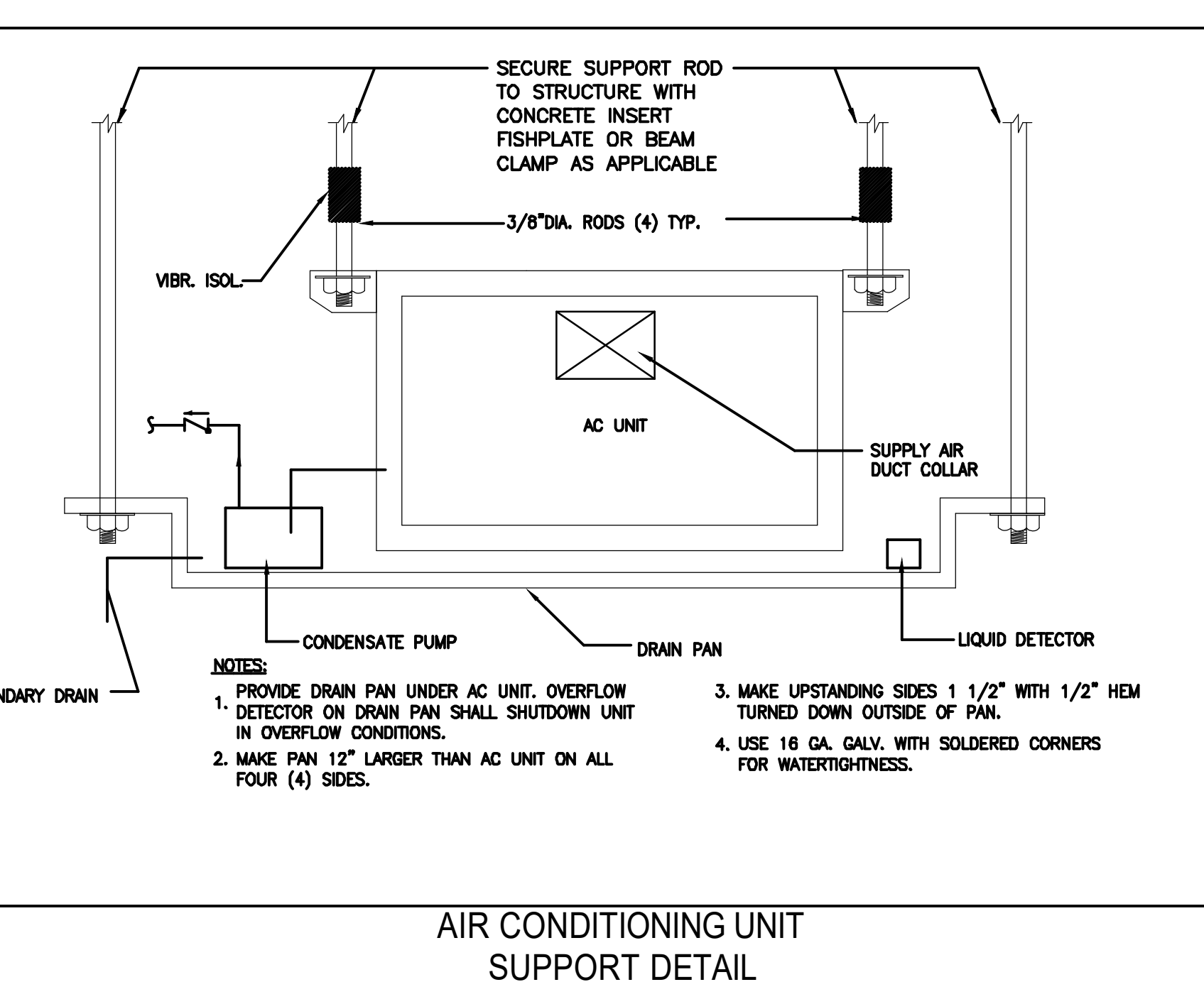
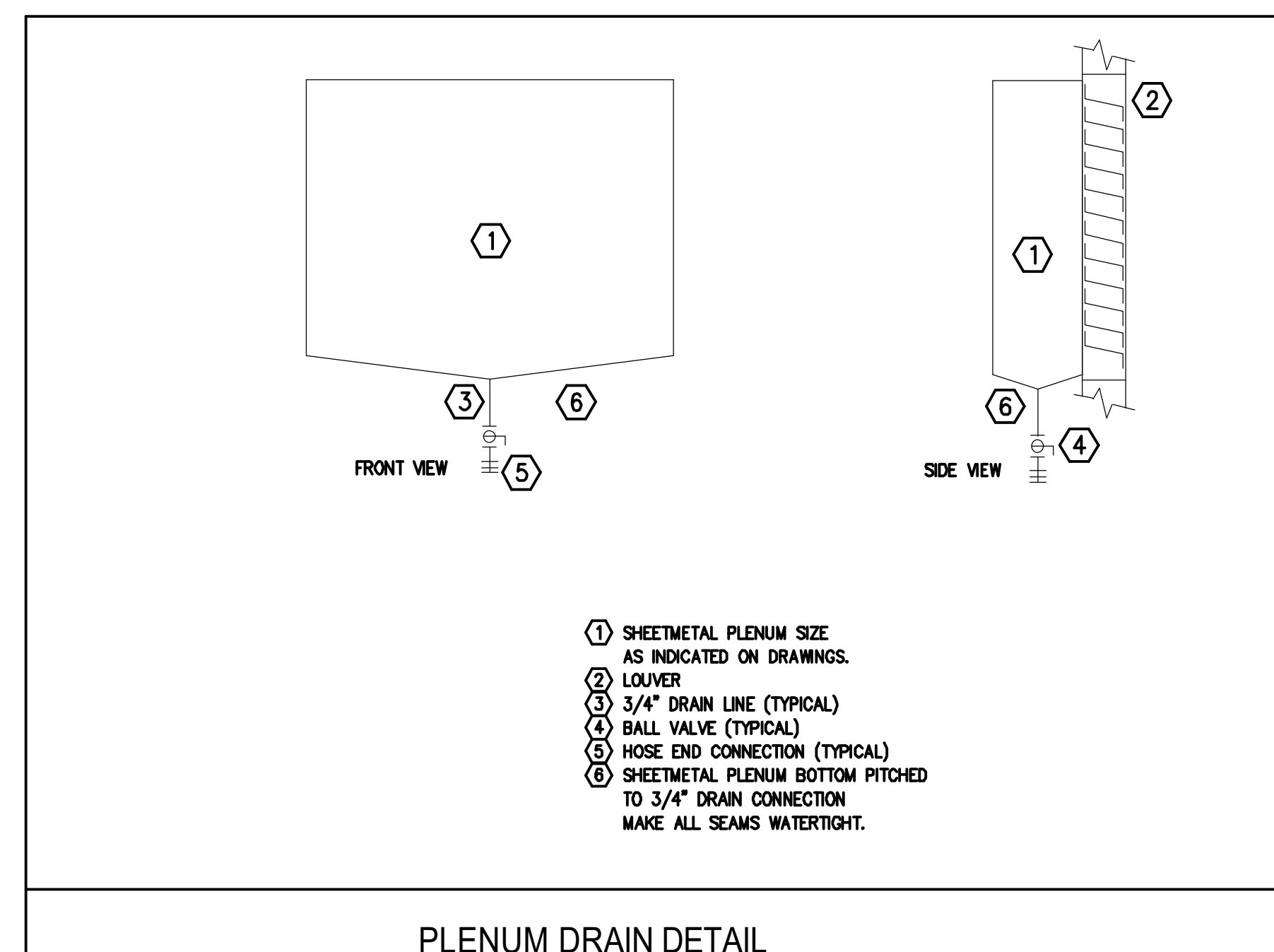
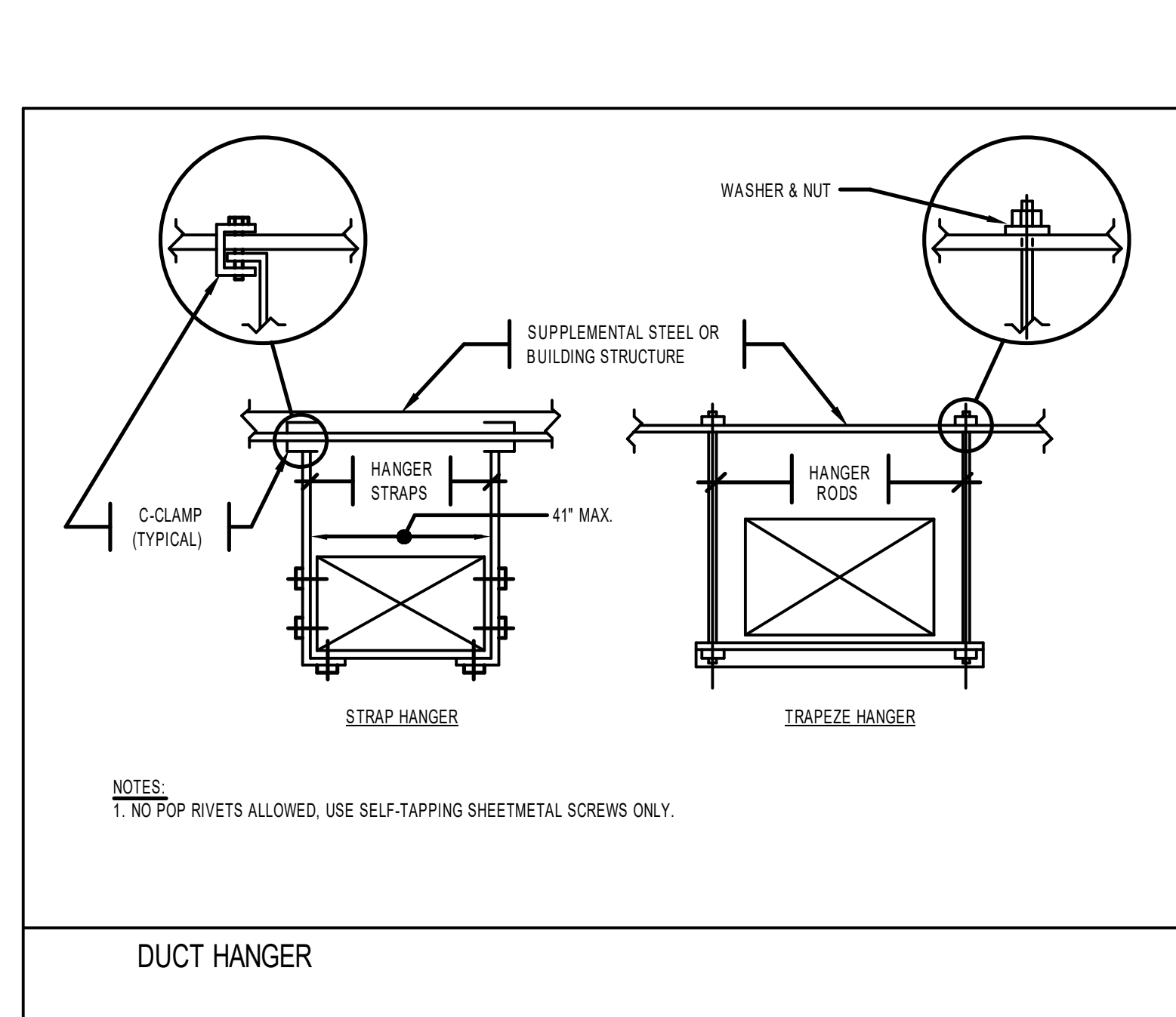
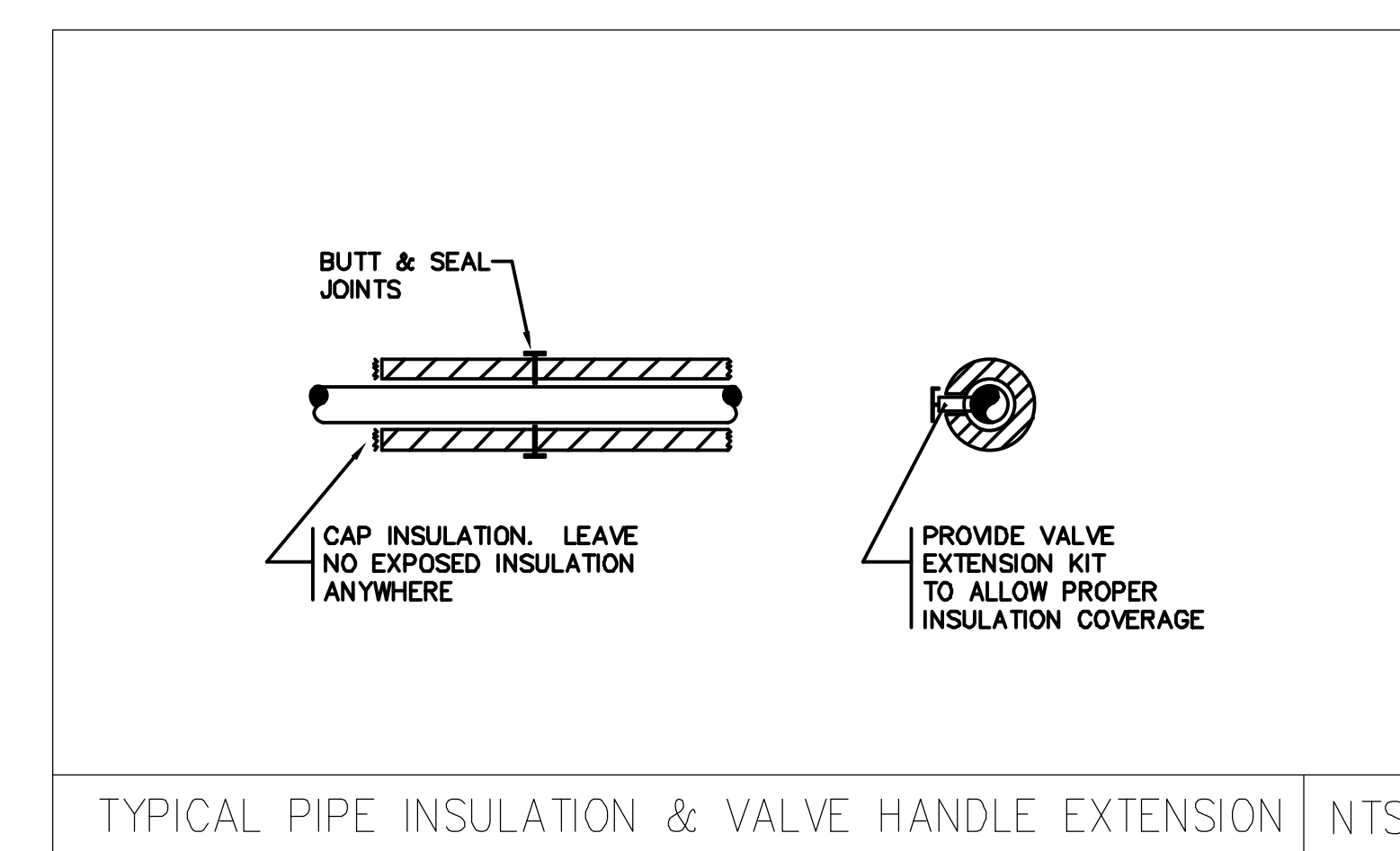
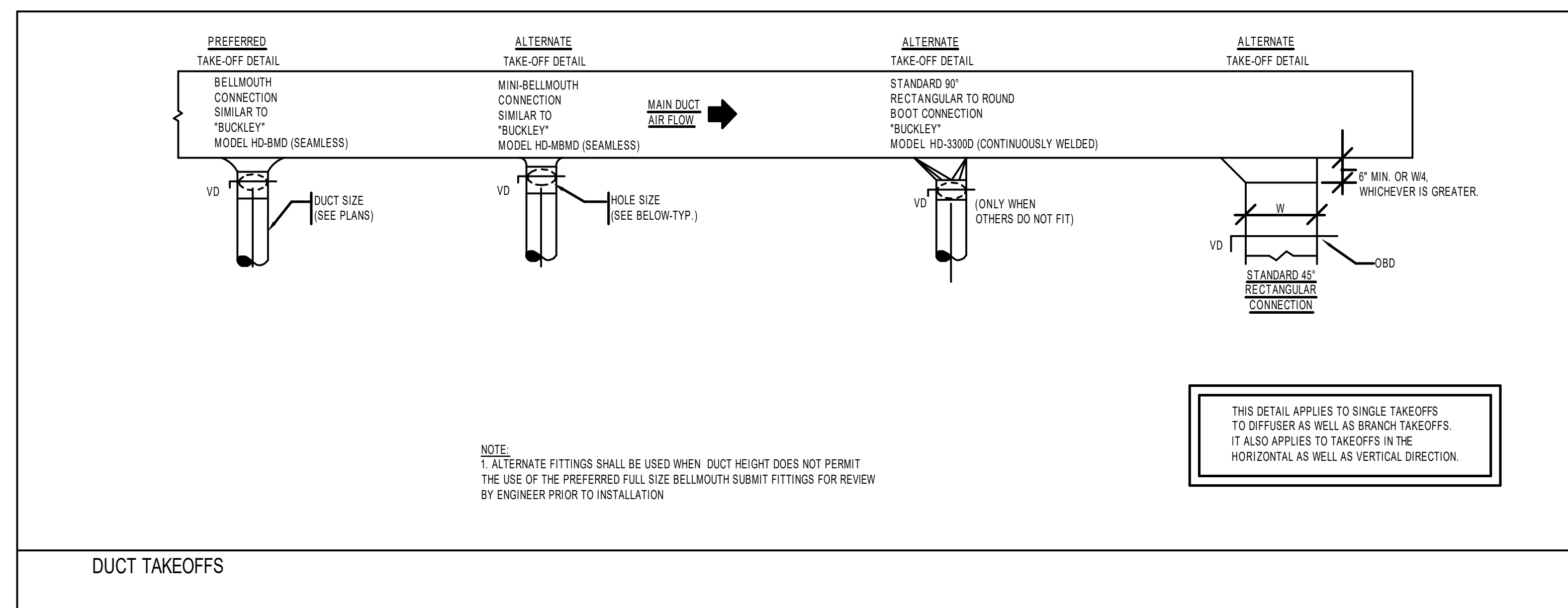
PROJECT NAME
OFFUTT EDUCATION CENTER AT LACHAT FARM
106 GODFREY, ROAD
WESTON, CT

JOB NO.: MEA.2021.00011
DRAWN BY: CHECK BY:
DATE: 02/16/2022 SCALE: 3/16" = 1' - 0"

DRAWING TITLE
MECHANICAL DETAILS

DRAWING #
M-300

9/1/2021 9:50 AM Joe Mastroluca C:\USERS\JOSE\Desktop\WORK\MEIA_PROJECTS\2021\MEIA.2021.00011_LACHAT_FARM_EDU_CENTER\DESIGN\DRAWINGS\ELEMENTS\MEIA_36X24_DWG



Revisions

#	DATE	ISSUE/REVISION DESCRIPTION

PHASE
ISSUED FOR PERMIT/BID



PROJECT NAME
OFFUTT EDUCATION CENTER AT LACHAT FARM
106 GODFREY, ROAD
WESTON, CT

JOB NO.: MEA.2021.00011
DRAWN BY: _____ CHECK BY: _____
DATE: 02/16/2022 SCALE: 3/16" = 1' - 0"

DRAWING TITLE
MECHANICAL DETAILS

DRAWING #
M-301

9/1/2021 9:50 AM Joe Mastroluca C:\USERS\JOE\DESKTOP\WORK\MEIA_PROJECTS\2021\MEIA.2021.00011_LACHAT_FARM_EDU_CENTER\DESIGN\DRAWINGS\ELEMENTS\MEIA_36X24_DWG



ELECTRICAL SYMBOL LIST

(NOT ALL SYMBOLS SHOWN ARE NECESSARILY USED ON THIS PROJECT)

SYMBOL	DESCRIPTION
	20A, 125V DECORA STYLE DUPLEX RECEPTACLE - FLUSH WALL MOUNTED
	20A, 125V DECORA STYLE DUPLEX RECEPTACLE WITH DUAL USB PORTS
	20A, 125V SINGLE RECEPTACLE - FLUSH WALL MOUNTED
	20A, 125V DECORA STYLE QUADRUPLEX RECEPTACLE - FLUSH WALL MOUNTED
	20A, 125V DECORA STYLE GFCI TYPE DUPLEX RECEPTACLE - FLUSH WALL MOUNTED
	20A, 125V GFCI TYPE WEATHER RESISTANT DUPLEX RECEPTACLE IN WEATHER PROOF ENCLOSURE
	SPECIAL PURPOSE RECEPTACLE - FLUSH WALL MOUNTED
	20A, 125V DEDICATED SINGLE RECEPTACLE - FLUSH WALL MOUNTED
	FLUSH FLOOR MOUNTED COMBINATION VOICE/DATA & POWER OUTLET
	CEILING MOUNTED JUNCTION BOX WITH FINAL EQUIPMENT CONNECTION
	FLUSH WALL MOUNTED JUNCTION BOX WITH FINAL EQUIPMENT CONNECTION
	CEILING MOUNTED COMBINATION VOICE/DATA & POWER OUTLET
	UNFUSED DISCONNECT SWITCH - 30A, 3P, U.O.N.
	FUSED DISCONNECT SWITCH - 100 AMP SWITCH, 60 AMP FUSE, UNFUSED (EXCEPT WHERE FUSE SIZE IS INDICATED) 3-POLE (EXCEPT WHERE NOTED) COMBINATION MOTOR CONTROLLER AND DISCONNECT SWITCH FURNISHED BY MECHANICAL CONTRACTOR INSTALLED BY ELECTRICAL CONTRACTOR. COORD. LOCATION W/MECH. CONT.
	CIRCUIT BREAKER 100A FRAME/60A TRIP, 3 POLE, U.O.N. ST - SHUNT TRIP
	VARIABLE FREQUENCY DRIVE (VFD), FURNISHED BY MECHANICAL CONTRACTOR INSTALLED BY ELECTRICAL CONTRACTOR. COORD. LOCATION WITH MECH. CONTRACTOR
	SURGE SUPPRESSER, LIEBERT ACCLUAR #ACV-120-Y-111-RKE FED WITH 30A/3P C/B MOUNT WITHIN 3ft OF TOTAL WIRE LENGTH FROM SOURCE
	COMBINATION FIRE/SMOKE DAMPER - COORD. LOCATION WITH MECH. CONTRACTOR INTERCONNECT TO FIRE ALARM SYSTEM
	MOTOR
	PULLBOX, SIZED PER NEC
	DRY TYPE 480-208V TRANSFORMER DELTA-WYE WITH GROUNDED SECONDARY SIDE, UON.
	FLUSH MOUNTED PANELBOARD
	SURFACE MOUNTED PANELBOARD
	GROUND BAR
	2#12+1#12G-3/4" FOR ONE CKT. HOMERUN, U.O.N.
	3#12+1#12G-3/4" FOR TWO CKT. HOMERUN, U.O.N.
	4#12+1#12G-3/4" FOR THREE CKT. HOMERUN, U.O.N.
	3#12+1#12G-3/4" HOMERUN, U.O.N.
	CONCEALED CONDUIT
	CONDUIT TURNING UP
	CAPPED CONDUIT
	FLEXIBLE EQUIPMENT CONNECTION
	GROUND CONNECTION
	CIRCUIT BREAKER - MOLDED CASE TYPE
	DRAW OUT TYPE CIRCUIT BREAKER
	FUSED SWITCH, TYPE 'FA' FUSE
	FUSE
	UNFUSED SWITCH - 100 AMP SWITCH
	UTILITY METER WITH CT. COMPARTMENT
	DIGITAL SUB-METER E-MON D-MON 2000 CLASS #208400D KIT, PROVIDE A 20A/3-POLE BREAKER IN LOCAL POWER PANEL
	DOOR BELL PUSH BUTTON / DOOR BELL CHIME AND ASSOCIATED TRANSFORMER
	WALL MOUNTED TELEVISION OUTLET WITH 3/4" EMPTY CONDUIT & DRAG LINE TERMINATED IN A 90° BEND 6" INTO NEAREST ACCESSIBLE CEILING VOICE & DATA OUTLET LOCATION WITH 1" EMPTY CONDUIT & DRAG LINE TERMINATED IN A 90 DEG. BEND 6" INTO NEAREST ACCESSIBLE CEILING
	ADA "CALL FOR ASSISTANCE" PULL CORD SWITCH, HORN/STROBE & 24V TRANS., EST EDWARDS KIT MODEL #6538-GS
	MANUAL STARTER - TOGGLE TYPE WITH THERMAL ELEMENT - 250V HP RATED, FURNISHED BY ELEC CONTRACTOR
	CEILING MOUNTED EDGE-LIT LED EXIT SIGN WITH EMERGENCY BATTERY BACKUP, COOPER LIGHTING - SURE-LITES LPX SERIES
	WALL MOUNTED EDGE-LIT LED EXIT SIGN WITH EMERGENCY BATTERY BACKUP, COOPER LIGHTING - SURE-LITES LPX SERIES
	WALL MOUNTED EMERGENCY LIGHTING UNIT COOPER LIGHTING - SURE-LITES APEL SERIES
	EVENLITE APERION EMERGENCY LIGHT, #APR-25-NC-UI-CC (S FOR SURFACE MOUNTED IF REQUIRED)
	EMERGENCY POWER OFF PUSH BUTTON. SEE DETAIL "EMERGENCY POWER SHUTDOWN DETAIL" ON DRAWING E-501.
	CEILING MOUNTED RECESSED LENSED LED 2'X2' LIGHTING FIXTURE, COOPER LIGHTING METALUX, 2GR-LD1-32-A-UNV-LB35-CD1-U-3500K, 0-10V DIMMING, EM PER PLANS
	RECESSED LED DOWNLIGHT - HALO LT4 DIRECT MOUNT, 4", 600 LUMEN, 120V POWER, PHASE DIMMING
	COMPACT FLUORESCENT KITCHEN HOOD LIGHT. REFER TO ARCHITECT/KITCHEN HOOD DRAWINGS FOR DETAILS. FIXTURE TO BE 120V POWER.
	CEILING MOUNTED RECESSED LENSED LED 2'X4' LIGHTING FIXTURE, COOPER LIGHTING METALUX, 2-CR8-3-32-A-UNV, 96W.

LIGHTING CONTROL SYMBOL LIST

(NOT ALL SYMBOLS SHOWN ARE NECESSARILY USED ON THIS PROJECT)

SYMBOL	DESCRIPTION
	SINGLE POLE LINE VOLTAGE SWITCH
	3-WAY LINE VOLTAGE SWITCH
	KEY ACTIVATED LINE VOLTAGE SWITCH
	LUTRON NOVA T SERIES DIMMER SWITCH, U.O.N., EXACT DEVICE SPEC SHALL BE COORDINATED WITH LIGHT FIXTURE DIMMING CAPABILITIES
	POWER PACK MOUNTED IN JUNCTION BOX LOCATED ABOVE FINISHED CEILING LUTRON #RMJS-16R-DV-B
	POWER PACK MOUNTED IN JUNCTION BOX LOCATED ABOVE FINISHED CEILING LUTRON #RMJS-16R-DV-B-EM
	0-10V DIMMING MODULE MOUNTED IN JUNCTION BOX LOCATED ABOVE FINISHED CEILING, LUTRON #RMJS-8T-DV-B
	0-10V EMERGENCY DIMMING MODULE MOUNTED IN JUNCTION BOX LOCATED ABOVE FINISHED CEILING, LUTRON #RMJS-8T-DV-B-EM
	CFL/LED PLENUM RATED MAESTRO WIRELESS DIMMER MOUNTED IN JUNCTION BOX LOCATED ABOVE FINISHED CEILING, LUTRON #MRF2S-6CL-GR
	WIRELESS OCCUPANCY SENSOR, CEILING MOUNTED, LUTRON #LRF2-0CR2B-P-WH
	DUAL TECHNOLOGY OCCUPANCY SENSOR, WALL MTD. LUTRON #MS-B102
	DUAL TECHNOLOGY VACANCY SENSOR, WALL MTD. LUTRON #MS-B102
	WIRELESS DAYLIGHT SENSOR, CEILING MOUNTED, LUTRON #LRF2-DCRB-WH
	WALL MTD WIRELESS OCCUPANCY SENSOR, LUTRON #LRF2-O-W-LB-P-WH
	WIRELESS 2-BUTTON SWITCH, LUTRON #PJ2-2B-GWH-L01 + #CW-1-WH
	WIRELESS 3-BUTTON RAISE/LOWER SWITCH, LUTRON #PJ2-3BRL-GWH-L01 + #CW-1-WH
	COMBINATION DUAL TECH VACANCY SENSOR SWITCH, WALL MOUNTED
	REMOTE TIMED OVERRIDE SWITCH TORK #SSA200R-24
	DIGITAL TIME CLOCK TORK DLC SERIES #DLC400BP
	SINGLE FIXTURE GENERATOR TRANSFER DEVICE, PHILLIPS BODINE #GTD
	SINGLE CIRCUIT GENERATOR TRANSFER DEVICE WITH OVERRIDE, PHILLIPS BODINE #BLCD-20B
	SINGLE CIRCUIT GENERATOR TRANSFER DEVICE WITH DIMMING CONTROL AND OVERRIDE, PHILLIPS BODINE #GTD-20A

ELECTRICAL ABBREVIATIONS

(NOT ALL SYMBOLS SHOWN ARE NECESSARILY USED ON THIS PROJECT)

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
A	AMPERE	KCM	THOUSAND CIRCULAR MILS
AC	ABOVE COUNTER	KV	KILOVOLT
AFF	ABOVE FINISHED FLOOR	KVA	KILOVOLT AMPERE
AIC	AMP INTERRUPTING CAPACITY	KW	KILOWATT
ATS	AUTOMATIC TRANSFER SWITCH	KWH	KILOWATT HOUR
AUTO	AUTOMATIC	LTG	LIGHTING
AWG	AMERICAN WIRE GAUGE	MAX	MAXIMUM
BLDG	BUILDING	MCB	MAIN CIRCUIT BREAKER
C	CONDUIT	MCC	MOTOR CONTROL CENTER
CB	CIRCUIT BREAKER	MIN	MINIMUM
CCTV	CLOSED CIRCUIT TELEVISION	MTD	MOUNTED
CKT	CIRCUIT	N	NEUTRAL
CO	CARBON MONOXIDE	NIC	NOT IN CONTRACT
COMM	COMMUNICATION	NTS	NOT TO SCALE
CT	CURRENT TRANSFORMER	OC	ON CENTER
CU	COPPER	P	POLE
DEG	DEGREE	Ø or PH	PHASE
DGP	DATA GATHERING PANEL	PNL	PANEL
DISC	DISCONNECT	PWR	POWER
DN	DOWN	R	RELOCATED
DWG	DRAWING	RECEPT	RECEPTACLE
E/EX	EXISTING TO REMAIN	TEL	TELEPHONE
EC	ELECTRICAL CONTRACTOR	TOS	TOP OF SHAFT
EM	EMERGENCY	TV	TELEVISION
ER	EXISTING TO BE REMOVED	TYP	TYPICAL
FA	FIRE ALARM	UON	UNLESS OTHERWISE NOTED
FACP	FIRE ALARM CONTROL PANEL	V	VOLT OR VOLTAGE
FL	FLOOR	VA	VOLT AMPERE
FT	FEET OR FOOT	VIF	VERIFY IN FIELD
GRD	GROUND	W	WATT
GFI	GROUND FAULT INTERRUPTER	WP	WEATHERPROOF
HID	HIGH INTENSITY DISCHARGE	WT	WATERTIGHT
HP	HORSE POWER	XP	EXPLOSION PROOF
HZ	HERTZ		
JB	JUNCTION BOX		

CONNECTICUT STATE CODES & STANDARDS

- 2018 CONNECTICUT STATE BUILDING CODE
- 2018 SUPPLEMENT TO CONNECTICUT BUILDING CODE
- 2015 INTERNATIONAL EXISTING BUILDING CODE
- 2015 INTERNATIONAL PLUMBING CODE
- 2015 INTERNATIONAL MECHANICAL CODE
- 2017 NATIONAL ELECTRICAL CODE (NFPA 70)
- LOCAL FIRE DEPARTMENT/FIRE MARSHAL
- ALL OTHER LOCAL AUTHORITIES HAVING JURISDICTION

CONNECTICUT STATE ENERGY CODES

- 2015 INTERNATIONAL ENERGY CONSERVATION CODE

REFERENCED STANDARDS

APPLICABLE REFERENCE STANDARDS SHALL BE AS REFERENCED BY ALL STATE AND LOCAL CODES. THE LIST BELOW IS FOR QUICK REFERENCE AND DOES NOT INCLUDE ALL APPLICABLE REFERENCE STANDARDS.

- 2013 NFPA 13 - STANDARD FOR THE INSTALLATION OF SPRINKLER SYSTEMS
- 2013 NFPA 14 - STANDARD FOR THE INSTALLATION OF STANDPIPE AND HOSE SYSTEMS
- 2013 NFPA 20 - STANDARD FOR THE INSTALLATION OF STATIONARY PUMPS FOR FIRE PROTECTION
- 2015 NFPA 54 - NATIONAL FUEL GAS CODE
- 2017 NFPA 70 - NATIONAL ELECTRICAL CODE
- 2013 NFPA 72 - NATIONAL FIRE ALARM AND SIGNALING CODE

ELECTRICAL DRAWING LIST

E-001	ELECTRICAL SYMBOLS, ABBREVIATIONS AND DRAWING LIST
E-002	ELECTRICAL GENERAL NOTES
E-010	ELECTRICAL SITE PLAN
E-100	ELECTRICAL BASEMENT PLAN
E-101a	ELECTRICAL 1ST FLOOR POWER PLAN
E-101b	ELECTRICAL 1ST FLOOR LIGHTING PLAN
E-102	ELECTRICAL ATTIC PLAN
E-401	ELECTRICAL RISER DIAGRAM & PANEL SCHEDULES
E-501	ELECTRICAL DETAILS (SHEET 1 OF 3)
E-502	ELECTRICAL DETAILS (SHEET 2 OF 3)
E-503	ELECTRICAL DETAILS (SHEET 3 OF 3)
E-601	ELECTRICAL SPECIFICATIONS (SHEET 1 OF 2)
E-602	ELECTRICAL SPECIFICATIONS (SHEET 2 OF 2)

Revisions

#	DATE	ISSUE/REVISION DESCRIPTION

PHASE

ISSUED FOR PERMIT/BID



PROJECT NAME

OFFUTT EDUCATION CENTER
AT LACHAT FARM
106 GODFREY, ROAD
WESTON, CT

JOB NO.: MEA.2021.00011

DRAWN BY: CHECK BY:
DATE: 02/16/2022 SCALE/NTS

DRAWING TITLE
ELECTRICAL SYMBOLS,
ABBREVIATIONS &
DRAWING LIST

DRAWING #

E-001

C:\USERS\JOSEPH\Desktop\WORK\MEIA_PROJECTS\2021\MEIA_2021_00011_LACHAT_FARMS_EDU_CENTER\DESIGN\DRAWINGS\ELEMENTS\MEIA_36X24_DWG 9/1/2021 9:50 AM Job: Mastroluca

ELECTRICAL GENERAL NOTES

- 1. ALL WORK SHALL COMPLY WITH REQUIREMENTS OF THE NATIONAL ELECTRIC CODE... 2. PRIOR TO SUBMISSION OF BID, THIS CONTRACTOR SHALL VISIT THE JOB SITE... 3. DRAWINGS ARE DIAGRAMMATIC AND INDICATE GENERAL ARRANGEMENT OF WORK... 4. PRIOR TO SUBMISSION OF BID, THIS CONTRACTOR SHALL REVIEW ALL DRAWINGS... 5. ANY EQUIPMENT, PARTS, MATERIALS, ACCESSORIES, OR LABOR THAT IS NECESSARY FOR PROPER PERFORMANCE OF THE ELECTRICAL WORK... 6. ALL MATERIALS AND WORKMANSHIP SHALL BE GUARANTEED FOR A PERIOD OF ONE YEAR FROM DATE OF FINAL ACCEPTANCE OF THIS WORK... 7. CONTRACTOR SHALL PROVIDE ALL LABOR, MATERIALS, EQUIPMENT, AND CONTRACTOR'S SERVICES NECESSARY FOR THE COMPLETE AND SAFE INSTALLATION OF ALL ELECTRICAL WORK... 8. THIS CONTRACTOR IS TO OBTAIN A COPY OF THE BUILDING RULES AND REGULATIONS PRIOR TO BID SUBMISSION... 9. "THE GENERAL CONDITIONS OF THE CONTRACT FOR CONSTRUCTION" AIA DOCUMENT A201 LATEST EDITION, OR AS REQUIRED BY THE ARCHITECTS DOCUMENTS AND/OR THE STRUCTURAL ENGINEERS DOCUMENTS, AS APPLICABLE, ARE PART OF THIS DOCUMENT... 10. SUBMIT SHOP DRAWINGS CERTIFIED BY ALL TRADES THAT COORDINATION HAS BEEN ESTABLISHED... 11. SUBMIT (4) LOOSE-LEAF BOUND OPERATING AND MAINTENANCE MANUALS WITH INDEX AND INDEX TABS TO INCLUDE ALL SHOP DRAWINGS AND OPERATING AND MAINTENANCE INSTRUCTIONS ON ALL SYSTEMS... 12. CONTRACTOR SHALL REVISE SHOP DRAWINGS TO CONFORM TO RECORD DRAWINGS AND SUBMIT AN AS-BUILT CONDITION... 13. NO SUBSTITUTE MATERIAL OR MANUFACTURER OF EQUIPMENT SHALL BE PERMITTED WITHOUT A FORMAL WRITTEN SUBMITTAL... 14. THIS CONTRACTOR SHALL SUBMIT FOR APPROVAL, A PLAN INDICATING THE SIZE AND LOCATION OF ALL ACCESS DOORS REQUIRED FOR OPERATION AND MAINTENANCE OF ALL CONCEALED EQUIPMENT, DEVICES, JUNCTION BOXES, PULL BOXES, ETC.

ELECTRICAL GENERAL NOTES (CONTINUED)

- 15. REMOVAL, TEMPORARY CONNECTIONS, AND RELOCATION OF CERTAIN EXISTING WORK WILL BE NECESSARY FOR THE INSTALLATION OF THE NEW SYSTEMS... 16. PLAN INSTALLATION OF NEW WORK AND CONNECTIONS TO EXISTING WORK TO INSURE MINIMUM INTERFERENCE WITH REGULAR OPERATION OF EXISTING FACILITIES... 17. DISCONNECTS SHALL BE "QUICK-BREAK" HEAVY DUTY TYPE IN NEMA 1 ENCLOSURE FUSED OR UN-FUSED AS INDICATED ON THE DRAWINGS... 18. CIRCUIT BREAKERS SHALL BE "THERMAL MAGNETIC" TYPE, QUICK-MAKE, QUICK-BREAK WITH NON-WELDING CONTACTS COMPENSATED FOR AMBIENT TEMPERATURES... 19. CONDUIT SHALL BE RIGID THREADED REGARDLESS OF SIZE... 20. ALL CONDUCTORS SHALL BE COPPER, TYPE THHN/THWN INSULATED... 21. BRANCH CIRCUIT WIRE SIZE: THE MINIMUM WIRE SIZE FOR BRANCH CIRCUITS SHALL BE NO. 12 AWG EXCEPT 120V CIRCUITS OVER 80 FEET IN LENGTH SHALL BE 10 AWG... 22. PULL BOXES, JUNCTION BOXES, AND OUTLET BOXES SHALL BE MANUFACTURED FROM GALVANIZED INDUSTRY STANDARD STEEL... 23. PROVIDE PULL BOXES AND JUNCTION BOXES IN LONG STRAIGHT RUNS OF RACEWAY TO ASSURE THAT CABLES ARE NOT DAMAGED WHEN THEY ARE PULLED... 24. PULL BOXES AND JUNCTION BOXES SHALL BE SIZED SO THAT THE MINIMUM BENDING RADIUS CRITERIA SPECIFIED FOR THE WIRES AND CABLE ARE MAINTAINED... 25. ALL EQUIPMENT, DEVICE BOXES, JUNCTION BOXES, PULL BOXES, AND OUTLET BOXES SHALL BE INSTALLED SO AS TO ALLOW ACCESS TO THE BOX... 26. OPENINGS AROUND ELECTRICAL PENETRATION THROUGH FIRE RESISTANCE RATED WALL, PARTITIONS, FLOOR OR CEILING SHALL BE FIRE STOPPED USING APPROVED METHODS... 27. HEIGHTS OF OUTLETS FROM FINISHED FLOOR TO CENTERLINE OF OUTLET: RECEPTACLES AND TELEPHONES 1' 6" GENERALLY 3' 6" OVER WORK BENCHES 4' 0" WALL SWITCHES 4' 0" WALL FIXTURES 6' 0" MOTOR CONTROLLERS 5' 0" FIRE ALARM PULL STATIONS 6' 0" FIRE ALARM HORN/SPEAKER/STROBES 6' 8" AFF OR 6" BELOW CEILING (WHICHEVER IS GREATER) EXCEPTIONS: AT JUNCTION BOXES OF DIFFERENT WALL FINISH MATERIALS, ON MOLDING OR BREAK IN WALL SURFACE, IN VIOLATION OF CODE REQUIREMENTS, AS NOTED OR DIRECTED... 28. PROVIDE WEIGHTS, LOCATIONS, AND DIMENSIONS OF EQUIPMENT IN EXCESS OF 200 LBS... 29. THE ELECTRICAL CONTRACTOR SHALL COORDINATE HIS WORK WITH HVAC, PLUMBING, FIRE PROTECTION, TELECOM/AV/SECURITY, AND OTHER TRADES... 30. PROVIDE PRICING FOR EXTENDED WARRANTIES (2-5 YEARS) FOR THE SYSTEMS NOTED ON THE ELECTRICAL DRAWINGS AND SPECIFICATIONS... 31. EXTERIOR RECEPTACLES SHALL BE PROVIDED WITH WEATHERPROOF "WHILE IN USE" COVERS... 32. COORDINATION WITH BUILDING MANAGEMENT THIS CONTRACTOR IS TO OBTAIN A COPY OF THE BUILDING RULES AND REGULATIONS PRIOR TO BID SUBMISSION TO DETERMINE THE REQUIREMENTS AND THE EXTENT OF PREMIUM TIME WORK REQUIRED BY THE BUILDING... THIS CONTRACTOR IS RESPONSIBLE FOR ADHERING TO THE BUILDING OWNER'S RULES AND REGULATIONS... COORDINATE WITH BUILDING OWNER FOR ANY SERVICE INTERRUPTION OF EXISTING SYSTEMS AND GIVE NOTICE AS REQUIRED BY BUILDING RULES AND REGULATIONS, OR CONTRACTOR TO PROVIDE A MINIMUM OF TWO (2) DAYS NOTICE PRIOR TO ANY WORK BEING PERFORMED... CONTRACTOR IS TO PERFORM WORK ON PREMIUM TIME, IF SO DIRECTED BY BUILDING OWNER, SO AS NOT TO DISTURB EXISTING TENANTS ON OTHER FLOORS... ALL NEW ELECTRICAL DEVICES SHALL MATCH THE BASE BUILDING STANDARD.

ELECTRICAL POWER NOTES

- A. CONTRACTOR SHALL COORDINATE WITH ARCHITECTURAL DRAWINGS AND ARCHITECT IN FIELD FOR EXACT LOCATION, QUANTITY AND ELEVATION OF POWER AND TELEPHONE/DATA OUTLETS PRIOR TO INSTALLATION... B. RECEPTACLES SHALL BE CIRCUITED IN ACCORDANCE WITH CIRCUIT NUMBER INDICATED ADJACENT TO EACH DEVICE... C. ALL RECEPTACLES SPECIFIED FOR PERSONAL COMPUTERS, LASER PRINTERS AND SIMILAR TYPES OF EQUIPMENT SHALL BE PROVIDED WITH A SEPARATE NEUTRAL AND GROUND CONDUCTOR... D. THE ELECTRICAL CONTRACTOR SHALL CONFIRM THE CONFIGURATION TYPE FOR ALL SPECIAL RECEPTACLES FOR COPIERS, DATA PROCESSING EQUIPMENT... E. CIRCUIT NUMBERS ARE INDICATED FOR INTENT ONLY... F. MECHANICAL EQUIPMENT IS LOCATED ABOVE THE HUNG CEILING UNLESS OTHERWISE NOTED... G. COORDINATE LOCATION FOR ALL MOTORIZED DAMPERS, DUCT MOUNTED SMOKE DETECTORS & MECHANICAL EQUIPMENT WITH THE MECHANICAL CONTRACTOR... H. WHERE APPLICABLE, RUN 1" EMPTY CONDUIT TO NEAREST ACCESSIBLE HUNG CEILING WITH GROMMET END FITTINGS FOR TELEPHONE/DATA & PROVIDE DRAG LINES FOR PULLING CABLE... I. COORDINATE THE HARDWARE REQUIREMENTS FOR THE DOORS WITH THE ARCHITECT & SECURITY CONSULTANT... J. ALL BRANCH CIRCUIT HOME RUNS SHALL BE 2#12 & 1#12 GND IN 3/4" CONDUIT OR MC CABLE TO PANEL & CIRCUIT INDICATED... K. MULTIWIRE BRANCH CIRCUITS SUPPLYING POWER TO FURNITURE PARTITIONS SHALL BE PROVIDED WITH MEANS TO DISCONNECT POWER SIMULTANEOUSLY... L. ALL POWER AND LIGHTING CIRCUITS, AND LOW VOLTAGE CABLING (VOICE/DATA, FIRE ALARM, LIGHTING CONTROLS, AUDIO/VISUAL, HVAC CONTROLS, ETC.) Routed THROUGH EXPOSED CEILING SHALL BE IN EMT CONDUIT...

ELECTRICAL LIGHTING NOTES

- A. FOR EXACT LOCATION, QUANTITY AND ELEVATION OF LIGHTING FIXTURES AND SWITCHES REFER TO ARCHITECTURAL DRAWINGS AND COORDINATE WITH ARCHITECT IN THE FIELD... B. LIGHTING FIXTURES SHALL BE CIRCUITED IN ACCORDANCE WITH CIRCUIT NUMBER INDICATED ADJACENT TO EACH FIXTURE... C. ALL JUNCTION OR OUTLET BOXES SHALL BE INSTALLED SO AS TO ALLOW ACCESS TO COVER... D. PRIOR TO ORDERING LIGHTING FIXTURES, COORDINATE WITH ARCHITECTURAL DRAWINGS AND SPECIFICATIONS... E. CIRCUIT NUMBERS ARE INDICATED FOR INTENT ONLY... F. MULTIPLE SWITCHES SHOWN IN SAME LOCATION SHALL BE GANGED TOGETHER WITH A COMMON FACEPLATE... G. ALL LIGHTING FIXTURES UTILIZING ELECTRONIC BALLASTS SHALL BE PROVIDED WITH A DEDICATED NEUTRAL OR AN OVERSIZED NEUTRAL WHEN SHARED... H. ALL LIGHTING FIXTURES CONTROLLED BY DIMMER SWITCHES SHALL BE PROVIDED WITH DEDICATED NEUTRAL CONDUCTOR... I. ELECTRICAL CONTRACTOR SHALL PROVIDE 0-10V CONVERTERS FOR LIGHTING FIXTURES WITHOUT 0-10V DIMMING DRIVERS... J. ALL NIGHT LIGHTS AND STAIR LIGHTS SHALL BE UNSWITCHED AND CIRCUITED DIRECTLY TO ASSOCIATED ELECTRICAL PANELS... K. BRANCH CIRCUIT BREAKERS FEEDING STAIR LIGHTS SHALL BE LOCKED IN "ON" POSITION... L. ALL LIGHT FIXTURES DESIGNATED WITH "EM" OR "EM/NL" SHALL BE PROVIDED WITH EMERGENCY BATTERY BACKUP CAPABLE OF FULL LIGHT OUTPUT FOR MINIMUM 90 MINUTES...

ELECTRICAL DEMOLITION NOTES

- 1. GENERAL 1.1. SEE ARCHITECTURAL DEMOLITION DRAWINGS FOR NUMBER OF LIGHTING FIXTURES AND DEVICES TO BE REMOVED AND OR RELOCATED... 1.2. SEE HVAC DRAWINGS FOR HVAC EQUIPMENT TO BE REMOVED... 1.3. SEE PLUMBING DRAWINGS FOR PLUMBING EQUIPMENT TO BE REMOVED... 1.4. FOR EQUIPMENT TO BE REMOVED DISCONNECT POWER AND REMOVE CONDUIT/WIRING BACK TO PANEL... 1.5. REMOVE ALL DRYWALL MOUNTED DUPLEX RECEPTACLES AND ASSOCIATED CIRCUITING... 1.6. CONTRACTOR SHALL PROVIDE LABOR AND MATERIALS AS REQUIRED TO BUNDLE, NEATEN, AND CLEAN UP EXISTING LOOSE CABLING... 1.7. REMOVE ALL CLIPS AND HANGERS FROM CEILING SLAB... 2. FLOOR OUTLETS - POWER 2.1. ALL FLOOR OUTLETS SERVICE FITTINGS SHALL BE REMOVED WITH WIRE... 2.2. REMOVE FLOOR AFTERSET INSERT... 3. FLOOR OUTLETS - LOW TENSION 3.1. ALL FLOOR OUTLET SERVICE FITTINGS SHALL BE REMOVED WITH DATA/TELEPHONE CABLE... 3.2. REMOVE FLOOR AFTERSET INSERT... 4. EXISTING CONDUIT 4.1. THIS CONTRACTOR SHALL REMOVE ALL WALL CONDUITS, BOXES, CEILING CONDUITS LEFT AFTER WALL DEMOLITION... 5. EXISTING ELECTRICAL PANELS 5.1. CONTRACTOR SHALL USE CARE IN DISCONNECTING WIRING FROM PANELS... 6. EXISTING HEADERDUCT 6.1. CLEAN OUT EXISTING HEADERDUCT FROM ALL EXISTING WIRING... 6.2. CONTRACTOR SHALL BE RESPONSIBLE FOR TRENCHHEADER ACCESS COVER PLATES... 6.3. ELECTRICAL CONTRACTOR SHALL REMOVE ALL EXISTING TELEPHONE AND ELECTRICAL CABLING... 7. EXISTING LIGHTING FIXTURES 7.1. REMOVE AND/OR RELOCATE LIGHTING FIXTURES... 7.2. CONTRACTOR SHALL PULL OUT ALL WIRING AND REMOVE ALL CONDUIT... 7.3. REMOVE ALL ASSOCIATED CONDUIT, WIRE, SWITCHES, BOXES... 7.4. DISCONNECT POWER AND REMOVE CONDUIT/WIRING BACK TO PANEL... 8. EXISTING FIRE ALARM 8.1. NO EXISTING SMOKE DETECTOR, PUBLIC ADDRESS SPEAKER, FIRE ALARM BOX... 8.2. NO ACTIVE SMOKE DETECTOR SHALL BE COVERED... 8.3. ALL ACTIVE SMOKE DETECTION, PUBLIC ADDRESS AND FIRE ALARM SYSTEM SHALL BE MAINTAINED... 8.4. DURING DEMOLITION WORK CONTRACTOR IS TO PROTECT FIRE ALARM DEVICES... 9. TEMPORARY LIGHTING AND POWER 9.1. FURNISH AND INSTALL WIRING FOR ADEQUATE LIGHT AND SMALL POWER TOOLS... 9.2. MAINTAIN THE SYSTEM IN GOOD AND ADEQUATE WORKING CONDITIONS... 9.3. FURNISH AND INSTALL ALL LAMPS, BREAKERS, AND FUSING... 9.4. REPLACE BURNED OUT LAMPS, DEFECTIVE BREAKERS, OR BLOWN FUSES... 9.5. TEMPORARY MAINTENANCE FOR THE ABOVE SHALL BE BASED ON OPERATION 1/2 HOUR BEFORE START OF FIRST TRADE... 9.6. TEMPORARY LIGHT AND POWER SHALL BE INSTALLED IN ACCORDANCE WITH CODES AND AUTHORITIES HAVING JURISDICTION.



51 ZEPHYR RD TRUMBULL CT 06611 203-581-3838 JMASTROLUCA.MEA@GMAIL.COM

Table with 3 columns: #, DATE, ISSUE/REVISION DESCRIPTION. It is currently empty.

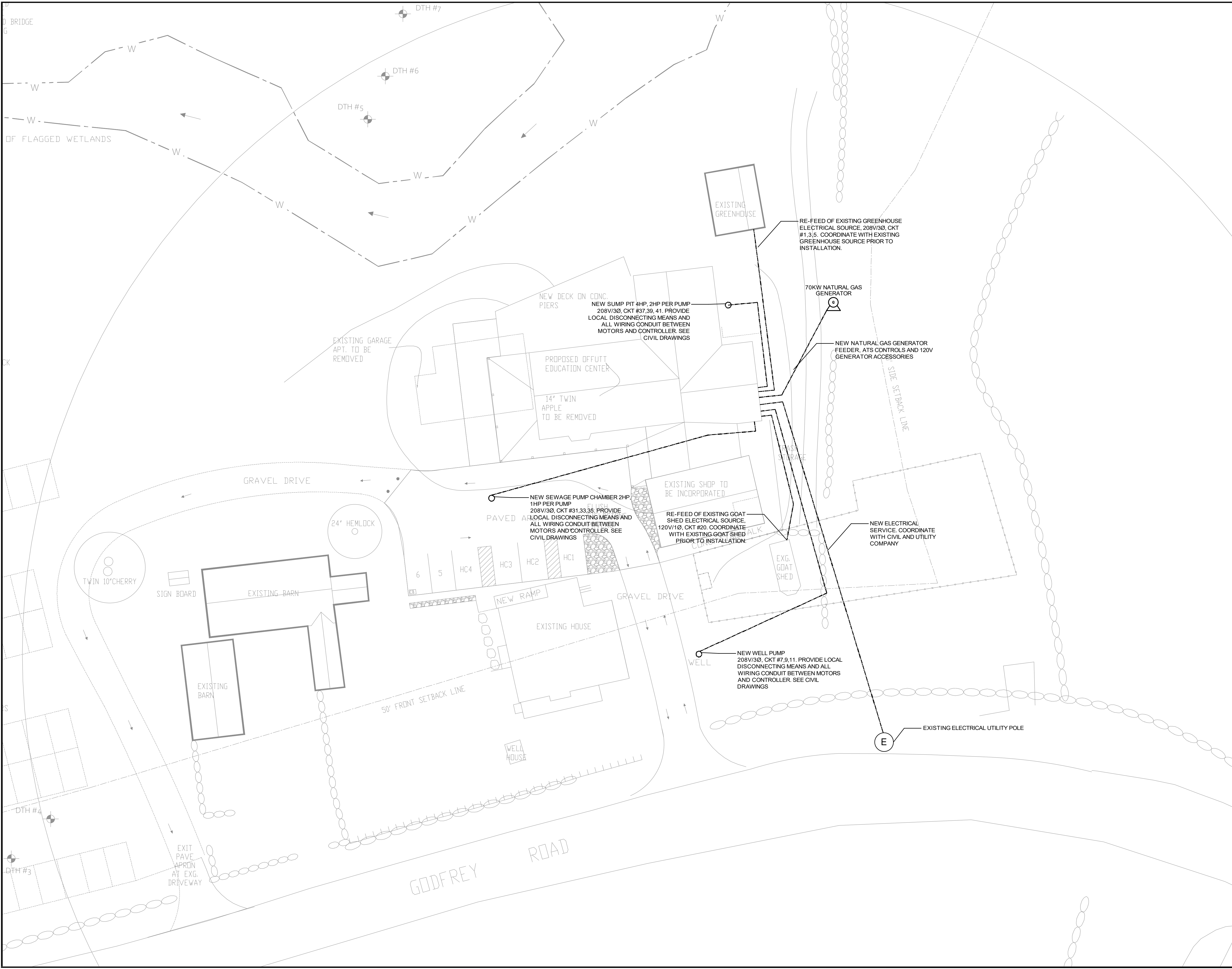
PHASE ISSUED FOR PERMIT/BID



PROJECT NAME OFFUTT EDUCATION CENTER AT LACHAT FARM 106 GODFREY, ROAD WESTON, CT JOB NO.: MEA.2021.00011 DRAWN BY: CHECK BY: DATE: 02/16/2022 SCALE: NTS

DRAWING TITLE ELECTRICAL GENERAL NOTES

DRAWING # E-002



Revisions

#	DATE	ISSUE/REVISION DESCRIPTION

PHASE
ISSUED FOR PERMIT/BID



PROJECT NAME
OFFUTT EDUCATION CENTER AT LACHAT FARM
106 GODFREY ROAD
WESTON, CT

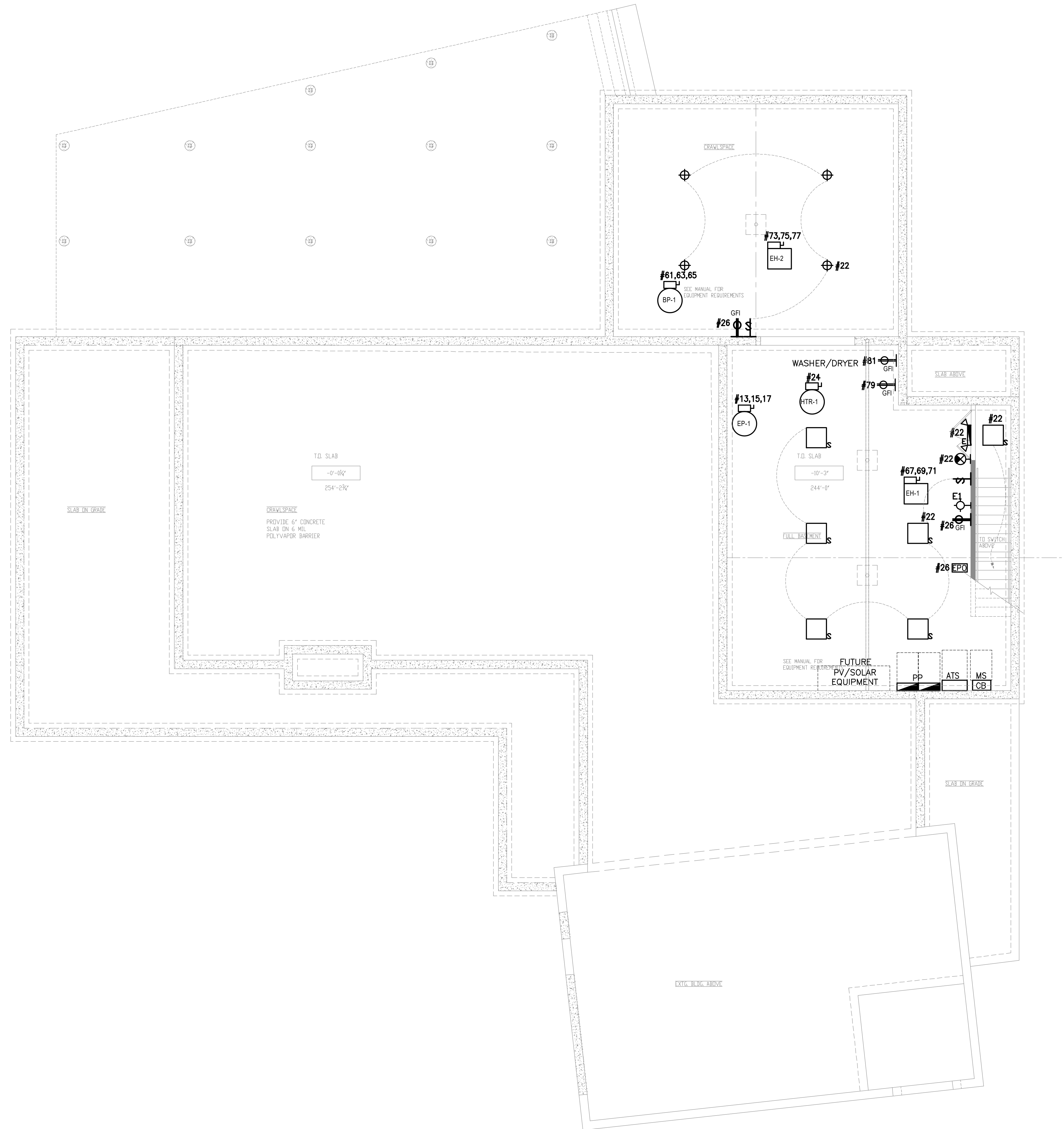
JOB NO.: MEA.2021.00011
DRAWN BY: _____ CHECK BY: _____
DATE: 02/16/2022 SCALE: 1/16" = 1'-0"

DRAWING TITLE
ELECTRICAL SITE PLAN

DRAWING #
E-010

9/1/2021 9:50 AM Joe Mastroluca C:\USERS\JOSE\Desktop\WORK\ME\PROJECTS\2021\MEA.2021.00011\LACHAT_FARM_EDU_CENTER\DESIGN\DRAWINGS\ELEMENTS\MEA_36X24_DWG

9/1/2021 9:50 AM Joe Mastroiuca C:\USERS\JOSEPH\DESKTOP\WORK\MEA_PROJECTS\2021\MEA_2021\00011_LACHAT_FARMS_EDU_CENTER\DESIGN\DRAWINGS\ELEMENTS\MEA_30X24_DWG



Revisions

#	DATE	ISSUE/REVISION DESCRIPTION

PHASE
ISSUED FOR PERMIT/BID



PROJECT NAME
OFFUTT EDUCATION CENTER AT LACHAT FARM
106 GODFREY, ROAD
WESTON, CT

JOB NO.: MEA.2021.00011
DRAWN BY: CHECK BY:
DATE: 02/16/2022 SCALE: 3/16" = 1'-0"

DRAWING TITLE
ELECTRICAL BASEMENT PLAN

DRAWING #
E-100



9/1/2021 9:50 AM Joe Mastroluca C:\USERS\JOSE\DESKTOP\WORK\ME\A_PROJECTS\2021\ME\A_2021\00011_LACHAT_FARMS_EDU_CENTER\DESIGN\DRAWINGS\ELEMENTS\ME\A_36X24_DWG



ELECTRICAL NOTES:

1. ALL WIRING DEVICES AND ELECTRICAL EQUIPMENT IS NEW UNLESS OTHERWISE NOTED.
2. COORDINATE DEVICE/FIXTURE LOCATIONS, HEIGHTS, MOUNTING, ETC. WITH ARCHITECTURAL DRAWINGS AND SPECIFICATIONS PRIOR TO INSTALLATION.
3. ALL RECEPTACLES LOCATED IN PUBLIC SPACES SHALL BE TAMPER-RESISTANT TYPE DEVICES.
4. ALL POWER CIRCUITS INSTALLED WITHIN 6' FROM WATER SOURCE - PROVIDE GFI OUTLET (CAN BE ACCESSIBLE) OR GFI CIRCUIT BREAKER (CANNOT BE ACCESSIBLE).
5. SEE DRAWING E-001/E-002 AND SPECIFICATIONS FOR GENERAL NOTES AND INFORMATION.
6. ALL ELECTRICAL CIRCUITS TO BE FED FROM NEW PANELBOARD, PP. SEE PANEL SCHEDULES FOR BRANCH CIRCUIT WIRING.

KEY NOTES:

- ① PROVIDE GAS SOLENOID VALVE TO ANY GAS KITCHEN EQUIPMENT AND SHUNT TRIP CIRCUIT BREAKERS TO CIRCUITS SERVING KITCHEN EQUIPMENT UNDER THE HOOD. IN THE EVENT OF FIRE, THE SOLENOID VALVE SHALL SHUT OFF GAS AND SHUNT TRIP SHALL TRIP POWER TO ALL KITCHEN EQUIPMENT UNDER THE HOOD. PROVIDE ADDITIONAL RELAY/CONTROL AS REQUIRED. COORDINATE WITH HOOD MANUFACTURE FOR ADDITIONAL REQUIREMENTS. PROVIDE ADDITIONAL 120V FOR CONTROL FROM POWER PANEL.
- ② PROVIDE SHUNT-TRIP CIRCUIT BREAKERS FOR CIRCUIT BREAKERS FEEDING KITCHEN EQUIPMENT UNDER THIS HOOD.
- ③ REFER TO FINAL KITCHEN ROUGH-IN PLAN, KITCHEN SCHEDULE, KITCHEN EQUIPMENT CUTS FOR ADDITIONAL INFORMATION.
- ④ EPO - EMERGENCY PUSH OFF BUTTON FOR SOLENOID GAS VALVE AND SHUT TRIP CIRCUIT BREAKERS - TURN OFF THE GAS AND POWER SERVING KITCHEN EQUIPMENT UNDER HOOD.
- ⑤ EXHAUST FAN ON ROOF - SHOWN FOR CIRCUITING. REFER TO KITCHEN CONSULTANT DRAWINGS FOR EQUIPMENT SCHEDULE AND LOCATION.

Revisions		
#	DATE	ISSUE/REVISION DESCRIPTION

PHASE
ISSUED FOR PERMIT/BID



PROJECT NAME
OFFUTT EDUCATION CENTER AT LACHAT FARM
106 GODFREY ROAD
WESTON, CT

JOB NO.: MEA.2021.00011
DRAWN BY: CHECK BY:
DATE: 02/16/2022 SCALE: 3/16" = 1' - 0"

DRAWING TITLE
ELECTRICAL 1ST FLOOR POWER PLAN

DRAWING #
E-101a

9/1/2021 9:50 AM Joe Mastroiucca C:\USERS\JOSE\DESKTOP\WORK\MEIA_PROJECTS\2021\MEIA_2021\00011_LACHAT_FARMS_EDU_CENTER\DESIGN\DRAWINGS\ELEMENTS\MEIA_36X24_DWG



Revisions

#	DATE	ISSUE/REVISION DESCRIPTION

PHASE
ISSUED FOR PERMIT/BID



PROJECT NAME
OFFUTT EDUCATION CENTER AT LACHAT FARM
106 GODFREY, ROAD
WESTON, CT

JOB NO.: MEA.2021.00011
DRAWN BY: _____ CHECK BY: _____
DATE: 02/16/2022 SCALE: 3/16" = 1' - 0"

DRAWING TITLE
ELECTRICAL 1ST FLOOR LIGHTING PLAN

DRAWING #
E-101b

© 2022 MASTROLUCA ENGINEERING ASSOCIATES, LLC
These drawings, concepts, designs and ideas are the property of MASTROLUCA ENGINEERING ASSOCIATES, LLC. They may not be copied, reproduced, disclosed to others, or used in connection with any work other than the specified project for which they were prepared, in whole or in part, without prior written consent of MASTROLUCA ENGINEERING ASSOCIATES, LLC.

9/1/2021 9:50 AM Joe Mastroiuca C:\USERS\JOSE\DESKTOP\WORK\MEA_PROJECTS\2021\MEA.2021.00011_LACHAT_FARMS_EDU_CENTER\DESIGN\DRAWINGS\ELEMENTS\MEA_36X24_DWG



Revisions		
#	DATE	ISSUE/REVISION DESCRIPTION

PHASE
ISSUED FOR PERMIT/BID



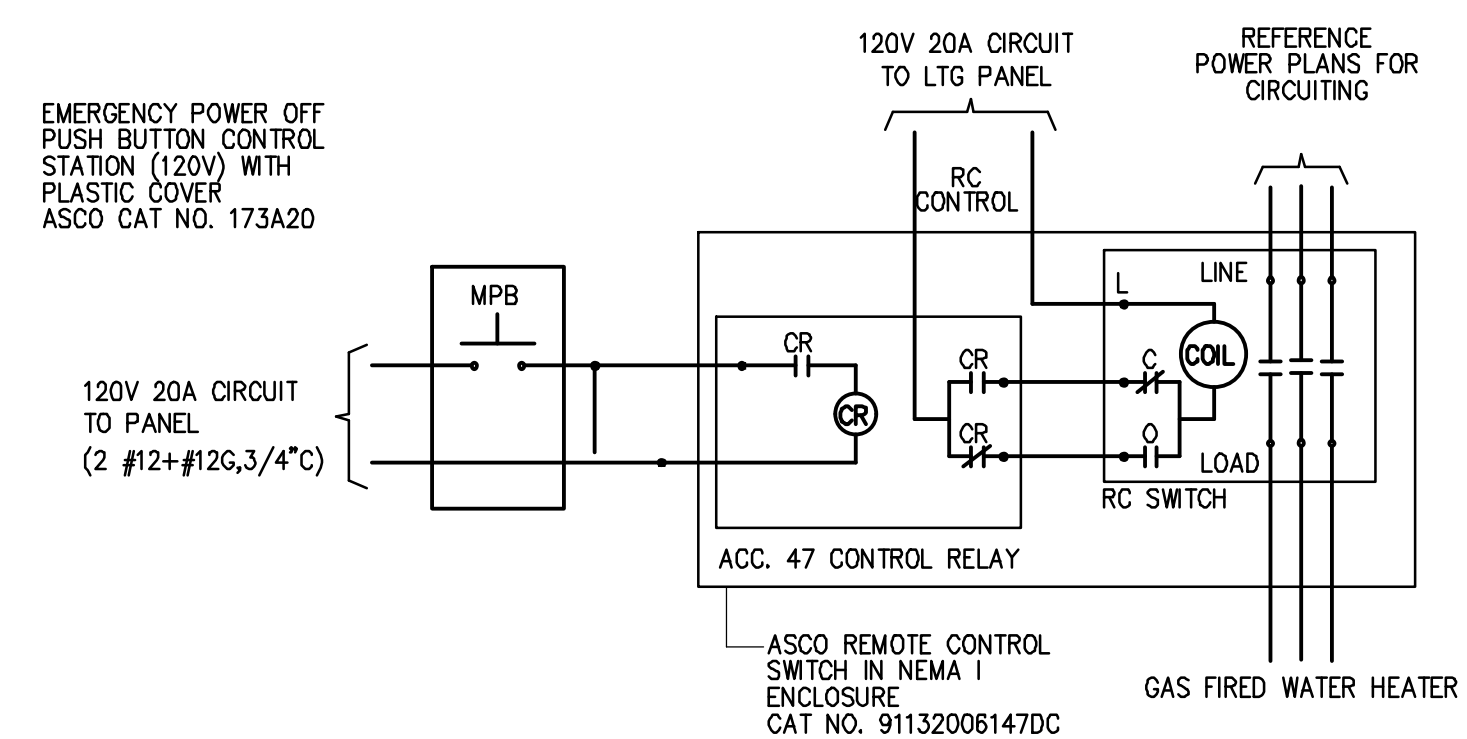
PROJECT NAME
OFFUTT EDUCATION CENTER AT LACHAT FARM
106 GODFREY, ROAD
WESTON, CT

JOB NO.: MEA.2021.00011

DRAWN BY: _____ CHECK BY: _____
DATE: 02/16/2022 SCALE: 3/16" = 1' - 0"

DRAWING TITLE
ELECTRICAL ATTIC PLAN

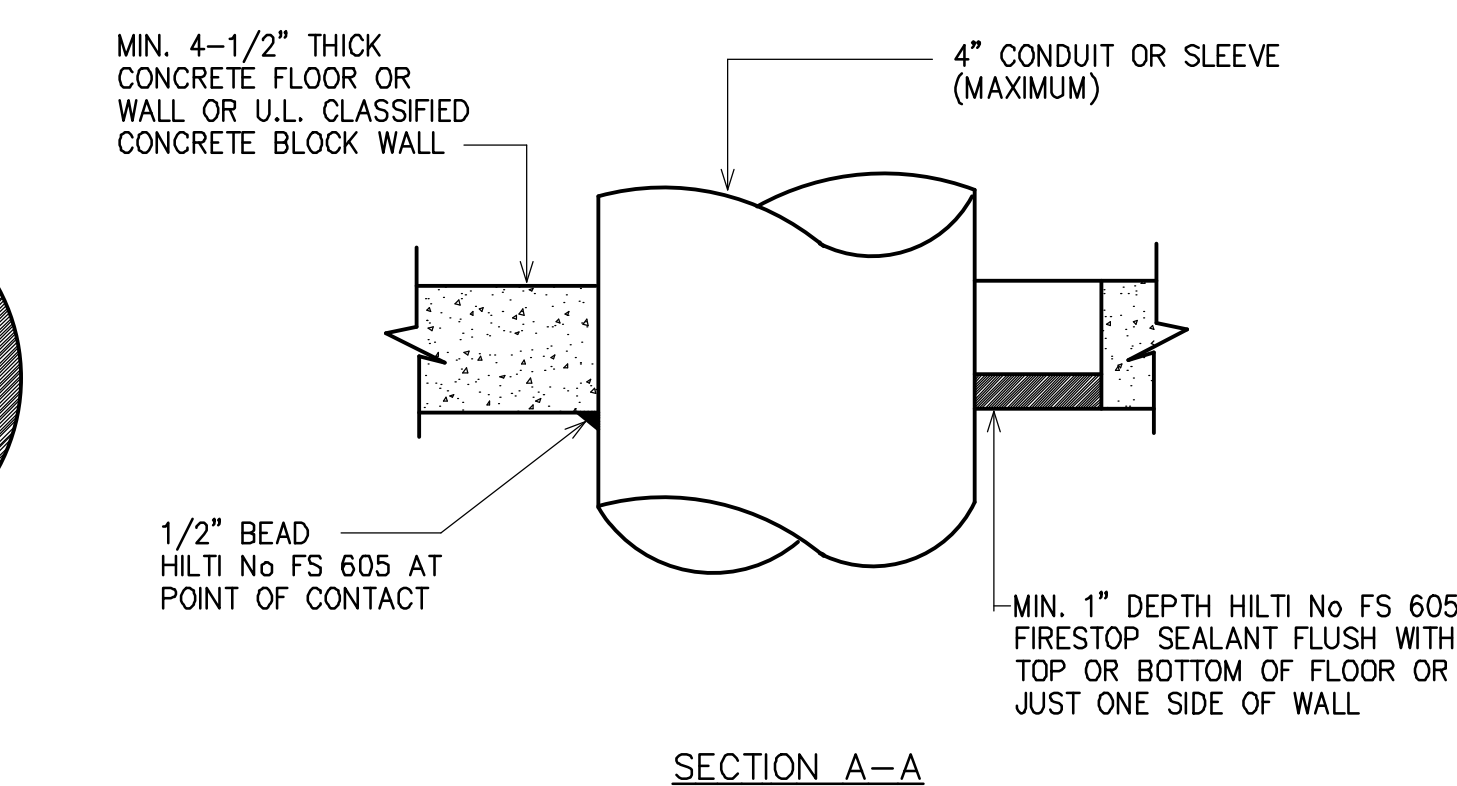
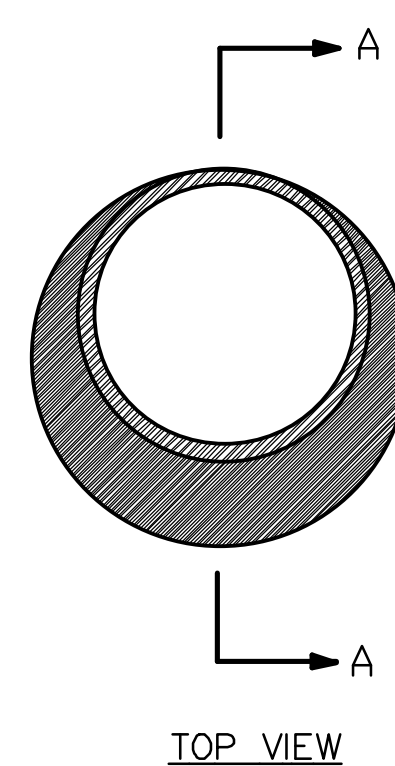
DRAWING #
E-102



EMERGENCY POWER SHUTDOWN DETAIL

NOTES:

1. PROVIDE ALL WIRING AS PER APPROVED MANUFACTURERS SHOP DRAWINGS.
2. ALL WIRING SHALL BE IN CONDUIT, U.O.N.
3. PROVIDE QUANTITY OF ASCO 917 RELAYS WITH REQUIRED NUMBER OF RELAY CONTACTS AS REQUIRED PLUS FOUR (4) SPARE.
4. PROVIDE ENGRAVED BAKELITE (RED WITH WHITE LETTERS) MOUNTED ABOVE EPO MARKED AS FOLLOWS "LAN ROOM EMERGENCY POWER SHUTDOWN".

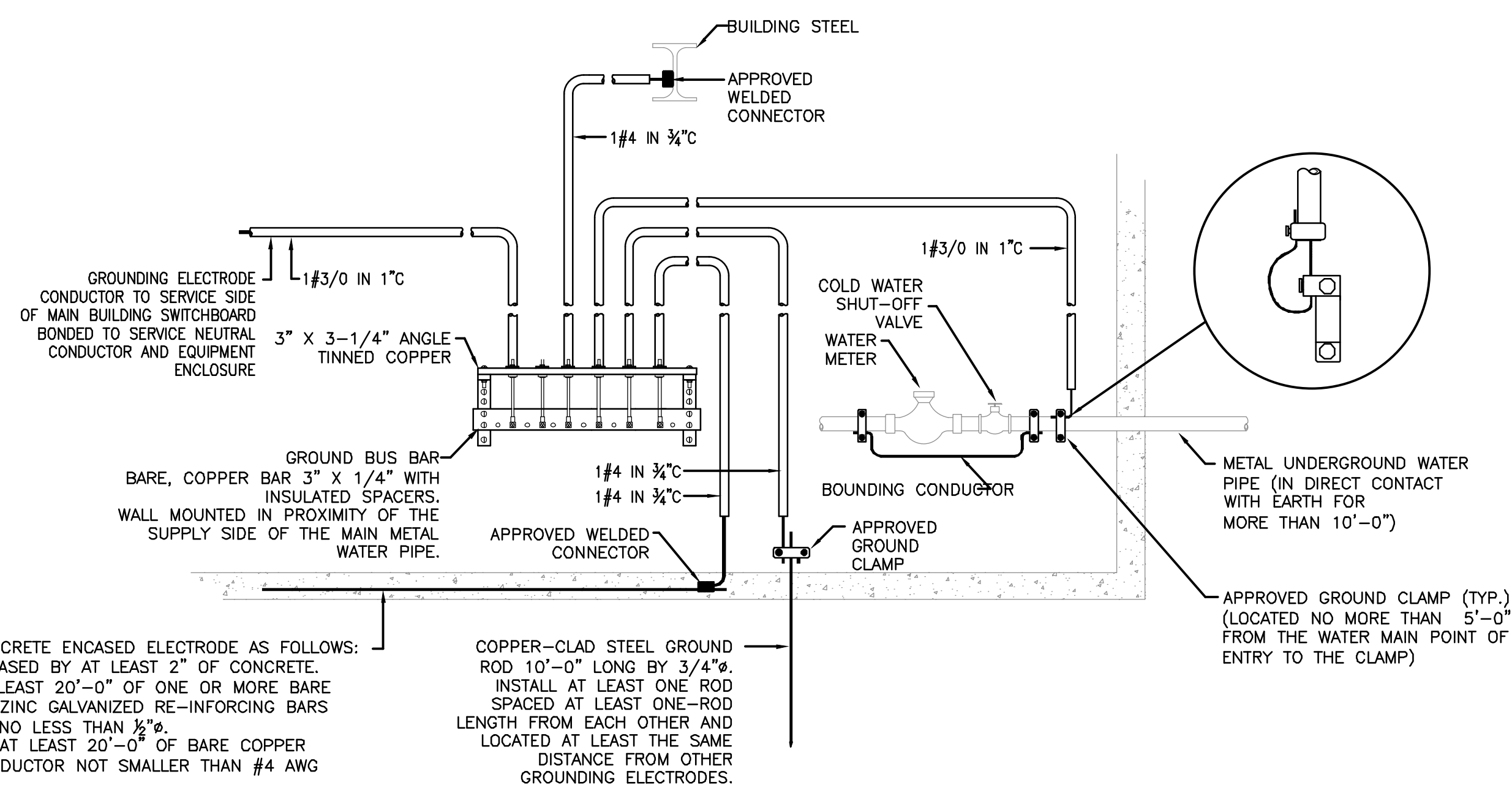


DETAIL OF CONDUIT THROUGH CONCRETE FLOOR/WALL OR BLOCK WALL

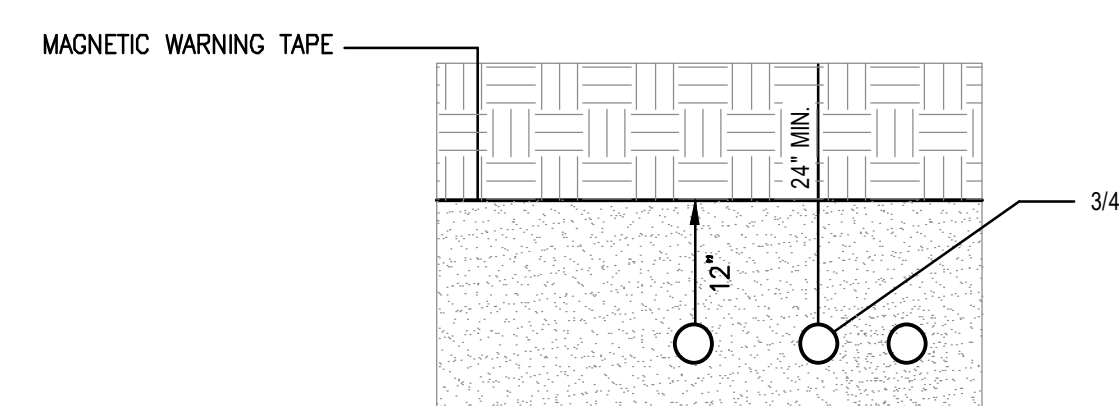
N.T.S.

NOTES:

1. CONDUIT MAY BE CENTERED OR OFFSET IN HOLE. MAXIMUM DIAMETER OF HOLE OPENING IS 14 INCHES.
2. TEMPORARY FORMS MAY BE REQUIRED TO SUPPORT THE FIRESTOP SEALANT WHILE IT CURES.
3. FOR CONDUIT SLEEVE INSTALLATIONS PROVIDE AROUND CONDUCTORS WITHIN SLEEVE.



GROUNDING ELECTRODE SYSTEM DETAIL



INSTALLATION IN TRENCH

- ALL CONDUIT SHALL BE INSTALLED AT A DEPTH OF AT LEAST 24" IN THE FOLLOWING ORDER:

1. ENSURE THAT THE BOTTOM OF THE TRENCH IS WELL-TAMPED AND FREE OF ROCKS.
2. INSTALL THE CONDUIT.
3. BACKFILL WITH 12 INCHES OF SAND.
5. INSTALL CABLE WARNING TAPE 12 INCHES OVER THE CONDUIT.
6. FILL IN THE REMAINDER OF THE TRENCH WITH NATIVE BACKFILL.

TRENCH DETAIL

Revisions		
#	DATE	ISSUE/REVISION DESCRIPTION

PHASE
ISSUED FOR PERMIT/BID



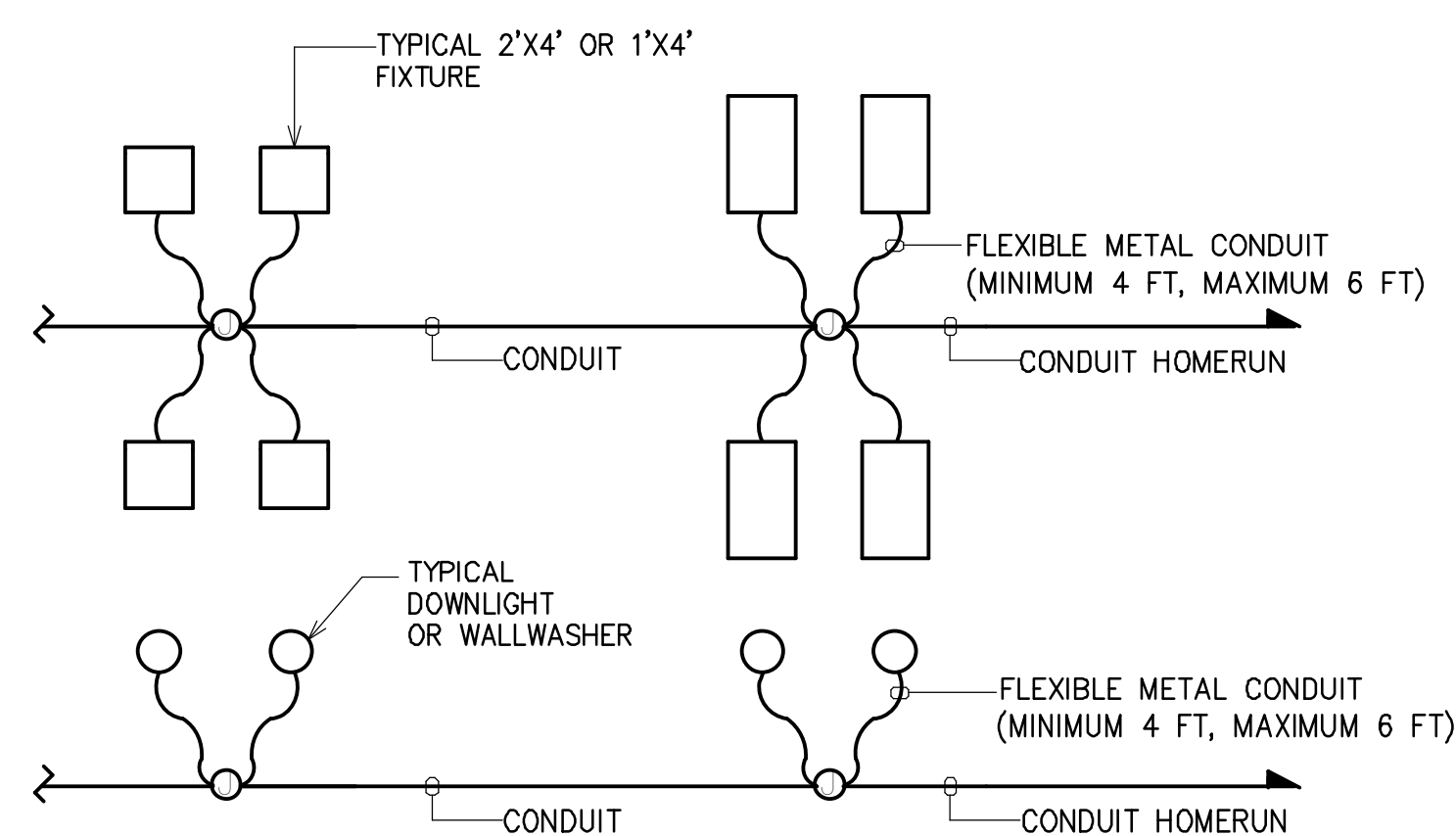
PROJECT NAME
OFFUTT EDUCATION CENTER AT LACHAT FARM
106 GODFREY, ROAD
WESTON, CT

JOB NO.: MEA.2021.00011
DRAWN BY: CHECK BY:
DATE: 02/16/2022 SCALE: NONE

DRAWING TITLE
ELECTRICAL DETAILS (SHEET 1 OF 3)

DRAWING #
E-501

9/1/2021 9:50 AM Joe Mastroluca C:\USERS\JOSEPH\DESKTOP\WORK\MEIA_PROJECTS\2021\MEIA_2021\00011_LACHAT_FARM_EDU_CENTER\DESIGN\DRAWINGS\ELEMENTS\MEIA_36X24_DWG

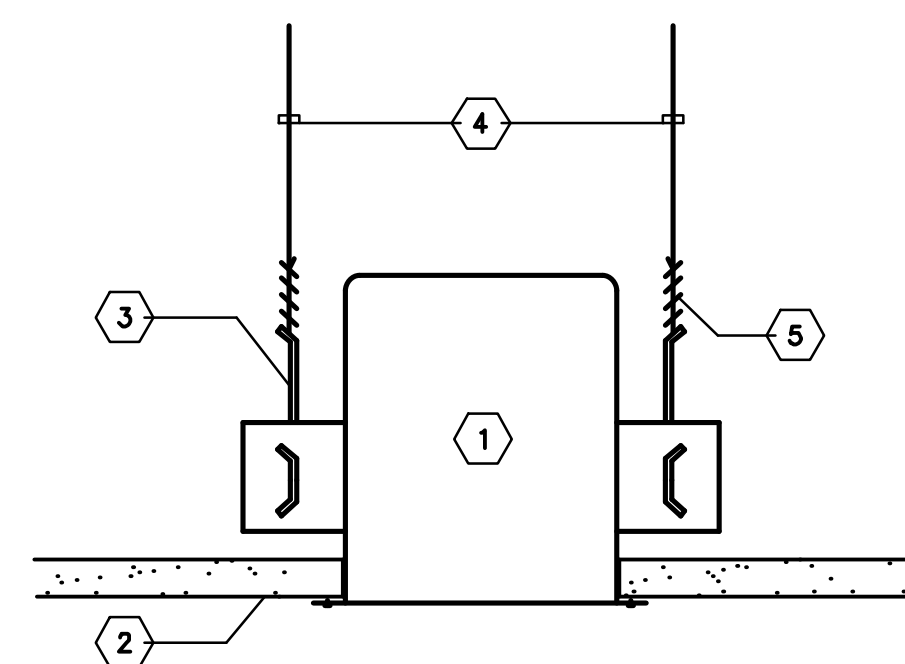


TYPICAL LIGHTING FIXTURE CIRCUITING DETAIL

N.T.S.

NOTE:

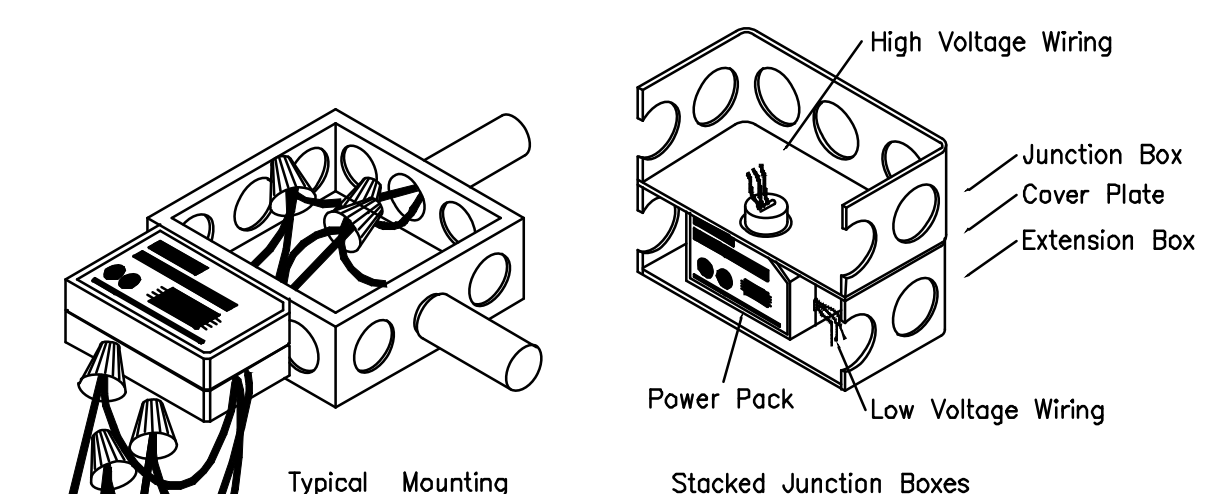
1. LIGHTING FIXTURES SHALL BE CIRCUITED IN ACCORDANCE WITH CIRCUIT NUMBER INDICATED ADJACENT TO EACH FIXTURE ON THE LIGHTING DRAWINGS.
2. ARMORED CABLE MAYBE PROPOSED AS AN ALTERNATE TO CONDUIT. REFER TO SPECIFICATION.



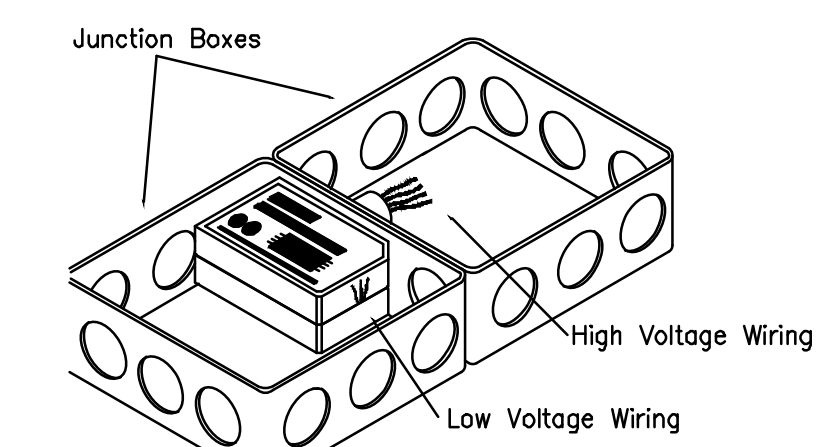
- NOTES:
- 1 RECESSED DOWNLIGHT FIXTURE
 - 2 GYPSUM BOARD OR TILE CEILING
 - 3 FIXTURE MOUNTING BRACKET
 - 4 #12 AWG HANGER WIRE CONNECTED TO BUILDING STRUCTURAL MEMBER
 - 5 MINIMUM 4 TURNS WITHIN 1-1/2" OF FIXTURE (TYPICAL)

RECESSED DOWNLIGHT SEISMIC BRACING

N.T.S.

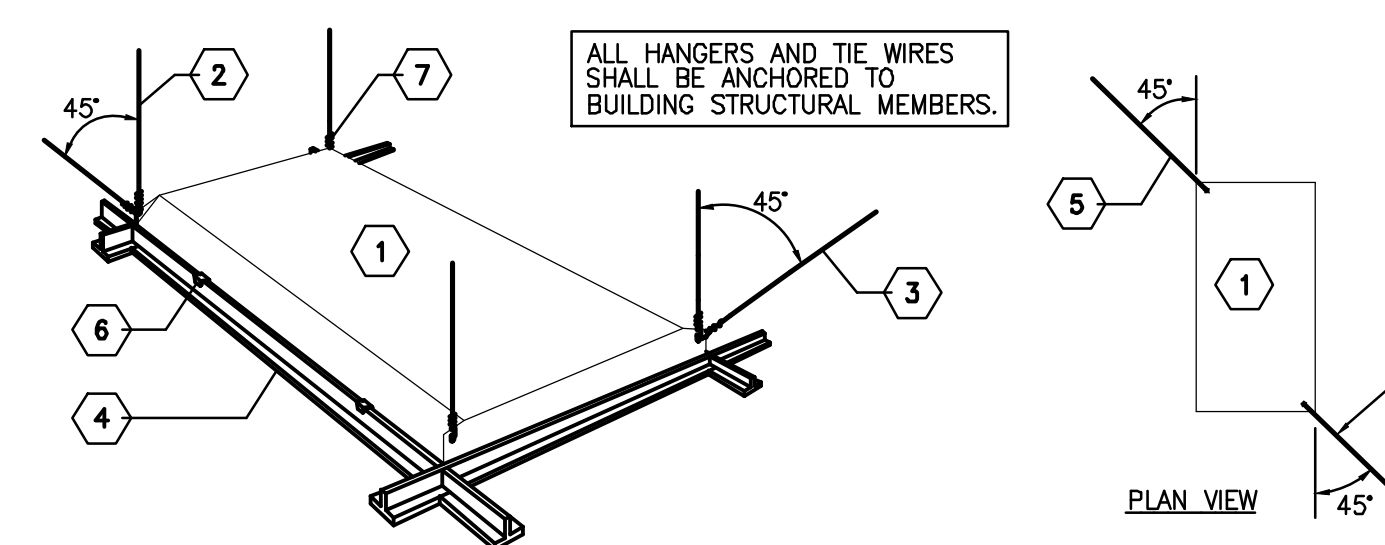


Do Not Mount Power Packs Closer Than 6-12 Inches From Sensor.



POWER PACK INSTALLATION DETAIL

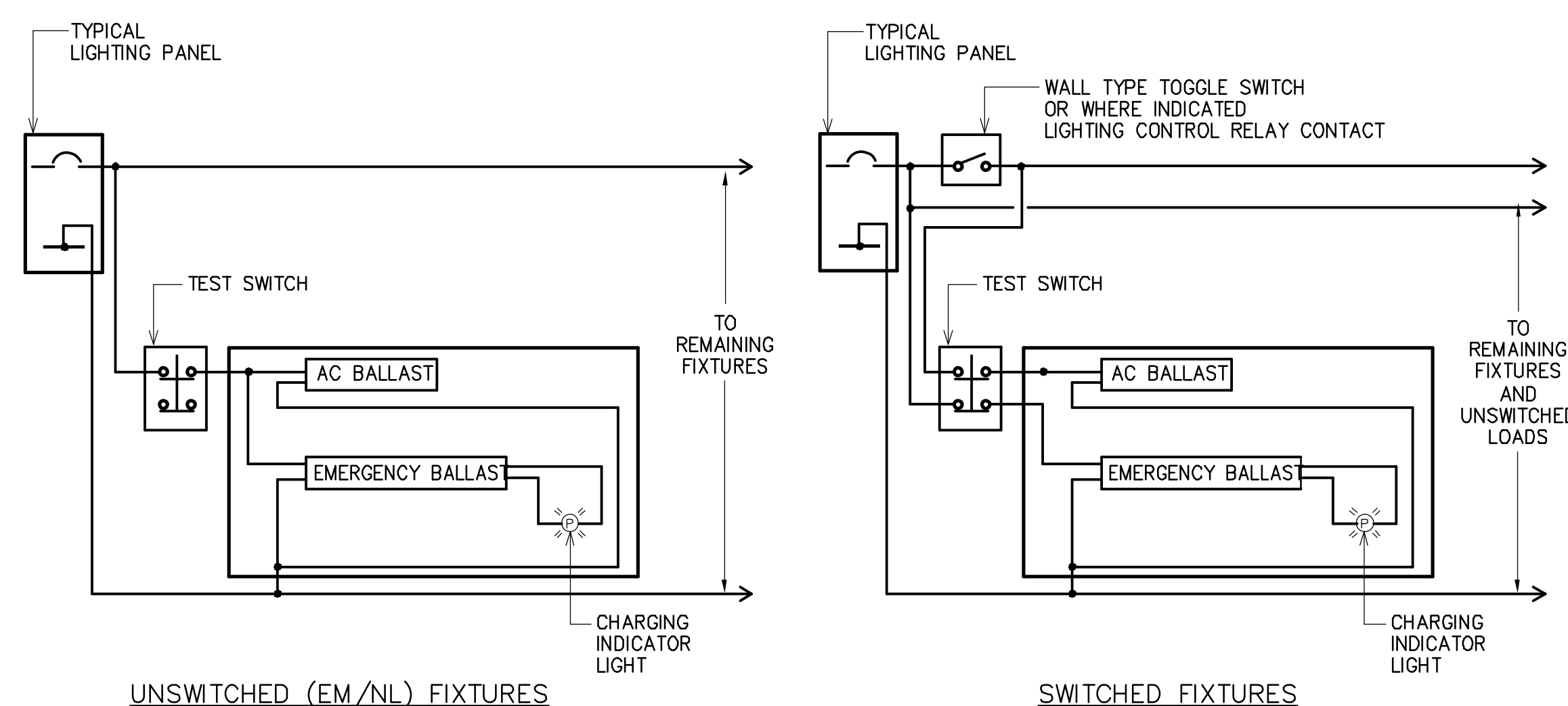
N.T.S.



- NOTES:
- 1 RECESSED FLUORESCENT LIGHT FIXTURE
 - 2 #12 AWG HANGER WIRE (VERTICAL AT FOUR CORNERS)
 - 3 #12 AWG TIE WIRE (45° DIAGONAL AT OPPOSITE CORNERS)
 - 4 T-BAR GRID (TYPICAL)
 - 5 TIE WIRE
 - 6 CADDY T-BAR CLIP FOR SECURING FIXTURE TO T-BAR GRID (4/FIXT.)
 - 7 MINIMUM 4 TURNS WITHIN FIRST 1-1/2" (VERTICAL)

RECESSED LAY-IN FIXTURE SEISMIC BRACING

N.T.S.



TYPICAL EMERGENCY LIGHTING FIXTURE WIRING DIAGRAM

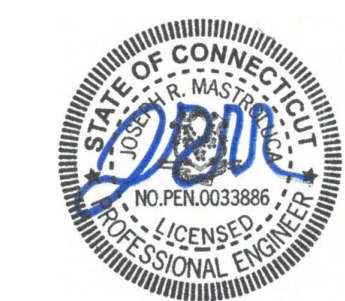
N.T.S.

NOTES:

1. WIRING DIAGRAMS ARE APPLICABLE TO 'T-5', 'T-8' AND COMPACT FLUORESCENT TYPE EMERGENCY BALLAST AS MODIFIED BY FOLLOWING NOTES.
2. FOR FIXTURES WITH COMPACT FLUORESCENT TYPE LAMPS, CHARGEING INDICATOR LIGHT IS WIRED ADJACENT TO FIXTURE, WITH TEST BUTTON ON COMMON FACEPLATE.
3. ALL WIRING INDICATED EXTERNAL TO FIXTURE IS BRANCH CIRCUIT WIRING TO BE RUN IN CONDUIT. TEST SWITCH AND CHARGEING INDICATOR LIGHT SHALL BE WIRED IN ACCORDANCE WITH MANUFACTURERS WIRING DIAGRAMS.
4. EMERGENCY BALLAST SHALL BE BODINE CAT.#B30 FOR T-8 AND T-12 LAMPS, BODINE CAT.# B426 FOR 2 PIN COMPACT LAMPS, BODINE CAT.# B413 FOR 2 PIN TWIN TUBE AND QUAD LAMPS, AND BODINE CAT.# 94C FOR 4 PIN LAMPS W/O STARTER.

Revisions		
#	DATE	ISSUE/REVISION DESCRIPTION

PHASE
ISSUED FOR PERMIT/BID



PROJECT NAME
OFFUTT EDUCATION CENTER AT LACHAT FARM
106 GODFREY, ROAD
WESTON, CT

JOB NO.: MEA.2021.00011
DRAWN BY: CHECK BY:
DATE: 02/16/2022 SCALE: NONE

DRAWING TITLE
ELECTRICAL DETAILS (SHEET 2 OF 3)

DRAWING #
E-502

9/1/2021 9:50 AM Joe Mastroluca C:\USERS\JOSEPH\DESKTOP\WORK\ME\PROJECTS\2021\ME\2021.00011_LACHAT_FARMS_EDU_CENTER\DESIGN\DRAWINGS\ELEMENTS\ME\36X24_DWG

9/1/2021 9:50 AM Job: Mastroluca C:\USERS\JOSEPH\DESKTOP\WORK\MEA_PROJECTS\2021\MEA_2021\00011_LACHAT_FARMS_EDU_CENTER\DESIGN\DRAWINGS\ELEMENTS\MEA_36X24_DWG

- 2.12 GROUNDING:
 - A. PROVIDE A GREEN GROUND CONDUCTOR IN CIRCUIT CONDUITS AS INDICATED.
 - B. PROVIDE SUPPLEMENTARY GROUND BONDING WHERE METALLIC CONDUITS TERMINATE AT METAL CLAD EQUIPMENT (OR AT THE METAL PULL BOX OF EQUIPMENT) FOR WHICH A GROUND BUS IS SPECIFIED. ACCOMPLISH THIS BY EQUIPPING THE CONDUITS WITH A BUSHING OF THE GROUNDING TYPE CONNECTED INDIVIDUALLY TO GROUND BUS.
 - C. ALL GROUND WIRES SHALL BE SUITABLY PROTECTED FROM MECHANICAL INJURY.

- 2.13 TEMPORARY LIGHTING AND POWER
 - A. FURNISH AND INSTALL WIRING FOR ADEQUATE LIGHT AND SMALL TOOLS POWER FOR THE PROJECT. THIS SHALL INCLUDE INSTALLING ALL LAMPS, BREAKERS, AND FUSING, AS IS NECESSARY.
 - B. TEMPORARY MAINTENANCE FOR THE ABOVE SHALL BE BASED ON OPERATION 1/2 HOUR BEFORE START OF FIRST TRADE THROUGH 1/2 HOUR AFTER END OF LAST TRADE'S NORMAL WORK DAY.
 - C. TEMPORARY LIGHT AND POWER SHALL BE INSTALLED AND MAINTAINED IN ACCORDANCE WITH CODES AND AUTHORITIES HAVING JURISDICTION.

- 2.14 FIRE ALARM SYSTEM:
 - A. THE ELECTRICAL CONTRACTOR SHALL FURNISH NEW FIRE ALARM EQUIPMENT AS SHOWN AND CONNECT TO THE EXISTING FIRE ALARM SYSTEM. COORDINATE WITH BUILDING MANAGEMENT AND FIRE ALARM SYSTEM VENDOR PRIOR TO ANY WORK. THE CONTRACTOR'S BID SHALL INCLUDE ANY FIRE ALARM VENDOR'S COST FOR TIE-INS, PROGRAMMING, PARTS, ETC.
 - B. WHERE CONSTRUCTION INTERFERES WITH EXISTING FIRE ALARM EQUIPMENT, OR IT IS LOCATED ON EXISTING WALLS TO BE DEMOLISHED, IT SHALL BE THE RESPONSIBILITY OF THIS CONTRACTOR TO NOTIFY THE BUILDING OWNER AND RELOCATE AT OWNER'S DIRECTION.
 - C. IT IS THIS CONTRACTOR'S RESPONSIBILITY TO MAINTAIN FIRE ALARM SPEAKERS, STROBES, SMOKE DETECTORS, FIRE WARDEN STATIONS AND OTHER FIRE SAFETY DEVICES IN OPERATION AT ALL TIMES.
 - D. AT THE COMPLETION OF THE LIFE SAFETY SYSTEM INSTALLATION THE CONTRACTOR SHALL TEST ALL FIRE ALARM DEVICES AND EMERGENCY LIGHTING DEVICES AND SUBMIT A REPORT TO THE ENGINEER VERIFYING THAT THE SYSTEMS ARE FULLY OPERATIONAL.
 - E. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS THAT INCLUDE MANUFACTURER'S CUT SHEETS THAT INCLUDE EQUIPMENT MODEL NUMBERS, BATTERY CALCULATIONS, CONDUCTOR TYPE AND SIZES, AND VOLTAGE DROP CALCULATIONS.

- 2.15 LIGHT FIXTURES
 - A. ALL LIGHT FIXTURE MOUNTING HARDWARE SHALL MATCH AND BE COORDINATED WITH THE NEW OR EXISTING CEILING SYSTEM TYPE.
 - B. NOT USED.
 - C. ELECTRONIC BALLASTS SHALL BE HIGH-FREQUENCY, FULL OUTPUT TYPE FOR USE ON 265 MA RAPID START T-8 LAMPS. THEY SHALL HAVE A 'A' SOUND RATING OR BETTER. ALL ELECTRONIC BALLASTS SHALL HAVE LESS THAN 20 PERCENT TOTAL HARMONIC DISTORTION (THD). BALLASTS SHALL MEET OR EXCEED FCC REGULATIONS PART 18. ELECTRONIC BALLASTS FOR 1, 2, 3, OR 4 LAMP COMBINATIONS SHALL BE USED AS REQUIRED TO ACCOMMODATE THE FIXTURE DESCRIBED IN THE FIXTURE SCHEDULE.
 - D. PROVIDE LAMPS SUITABLE FOR LIGHTING FIXTURES IN WHICH THEY ARE USED AND AS INDICATED ON THE DRAWINGS. FLUORESCENT LAMPS SHALL BE "RAPID START" AND SHALL DELIVER NOT LESS THAN 3150 LUMENS. COLOR SHALL BE WARM WHITE UNLESS OTHERWISE NOTED. INCANDESCENT LAMPS SHALL BE INSIDE FROSTED AND RATED AT 130 VOLTS UNLESS OTHERWISE SPECIFIED. LAMPS SHALL BE AS MANUFACTURED BY G.E., PENNSYLVANIA, PHILIPS UNLESS OTHERWISE SPECIFIED ON DRAWINGS.
 - E. REFER TO LIGHTING FIXTURE SCHEDULE FOR TYPES.

- 2.16 TRANSFORMERS
 - A. THREE PHASE TRANSFORMERS SHALL BE 480 VOLT DELTA PRIMARY AND 208/120 VOLT WYE SECONDARY UNLESS OTHERWISE NOTED. TRANSFORMERS SHALL HAVE A MINIMUM OF TWO 2-1/2% FULL CAPACITY PRIMARY TAPS ABOVE AND FOUR 2-1/2% FULL CAPACITY PRIMARY TAPS BELOW NORMAL PRIMARY VOLTAGE.
 - B. TRANSFORMERS 15 KVA AND ABOVE SHALL BE 115 DEGREE CENTIGRADE TEMPERATURE RISE ABOVE 40 DEGREES CENTIGRADE AMBIENT. ALL INSULATING MATERIALS TO BE IN ACCORDANCE WITH NEMA.
 - C. ALL COILS SHALL BE OF CONTINUOUS WOUND COPPER CONSTRUCTION AND IMPREGNATED WITH NON-HYDROSCOPIC, THERMO-SETTING VARNISH. ALL CORES TO BE CONSTRUCTED OF HIGH GRADE, NON AGING SILICON STEEL WITH HIGH MAGNETIC PERMEABILITY AND LOW HYSTERESIS AND EDDY CURRENT LOSSES.
 - D. THE TRANSFORMERS SHALL BE IN A HEAVY GAUGE, SHEET METAL VENTILATED ENCLOSURE.
 - E. IN ADDITION TO THE ABOVE TRANSFORMERS SUPPLYING PERSONAL COMPUTERS, LASER PRINTERS AND SIMILAR TYPE OF EQUIPMENT SHALL HAVE THE FOLLOWING CHARACTERISTICS TO COMPENSATE FOR NON-LINEAR LOAD CONDITIONS:
 - 1. THE TRANSFORMER SHALL HAVE A U.L. K-FACTOR RATING OF NOT LESS THAN K-13.
 - 2. AN ELECTROSTATIC SHIELD SHALL BE INSERTED BETWEEN THE PRIMARY AND SECONDARY WINDING TO ATTENUATE HIGH FREQUENCY HARMONICS.
 - 3. THE SECONDARY NEUTRAL SHALL BE 200% RATED WITH DOUBLE LUGS.
 - F. TRANSFORMERS SHALL BE MANUFACTURED BY ITE, WESTINGHOUSE, GENERAL ELECTRIC OR SQUARE 'D'.

PART 3 - EXECUTION

- 3.1 GENERAL
 - A. ALL CONTROL WIRING ASSOCIATED WITH MECHANICAL EQUIPMENT IS THE RESPONSIBILITY OF THE MECHANICAL CONTRACTOR.
 - B. ALL DATA/VOICE/COMMUNICATION WIRING SHALL BE INSTALLED BY OTHERS. COORDINATE WITH THE RESPECTIVE INSTALLER.
 - C. OPENINGS AROUND ELECTRICAL PENETRATIONS THROUGH FIRE RESISTANCE RATED WALLS, PARTITIONS, FLOORS OR CEILINGS SHALL BE FIRE STOPPED USING APPROVED METHODS. ALL SLEEVES SHALL HAVE BUSHINGS. SEALANT SHALL BE 3 HOUR.

- D. PREPARE "AS-BUILT" TRACINGS SHOWING ALL CHANGES IN WIRE SIZE, CIRCUIT NUMBERING, CIRCUIT ROUTING, EQUIPMENT LOCATIONS AND ELECTRICAL WORK AS ACTUALLY INSTALLED. SUBMIT "AS-BUILTS" ALONG WITH THREE (3) COPIES OF ALL APPROPRIATE MAINTENANCE AND OPERATIONS MANUALS TO THE OWNER.
- E. ALL WORK SHALL BE GUARANTEED AGAINST DEFECTS FOR A PERIOD OF ONE YEAR FROM THE DATE OF FINAL ACCEPTANCE OF THE INSTALLATION.
- F. FURNISH 480 VOLT DANGER SIGNS AT ALL 480/277 VOLT EQUIPMENT PER CODE.
- G. AT COMPLETION OF ELECTRICAL WORK ALL "IN SLAB" TRENCH DUCT COVERS SHALL BE REPLACED.
- H. COORDINATE WITH BUILDING MANAGER FOR ANY SERVICE INTERRUPTION OF EXISTING LIGHTING OR POWER PANELS AND GIVE NOTICE TWO (2) DAYS PRIOR TO ANY WORK. ELECTRICAL CONTRACTOR TO DO WORK ON PREMIUM TIME SO AS NOT TO DISTURB EXISTING TENANTS ON OTHER FLOORS.
- I. ALL PANELBOARD COVERS SHALL BE REPLACED AT THE COMPLETION OF EACH DAYS WORK.
- J. MAINTAIN GROUND CONTINUITY THROUGHOUT ALL SYSTEMS.
- K. THE CONTRACTOR SHALL REMOVE AND/OR RELOCATE ANY EXISTING ELECTRICAL WORK WHICH INTERFERES WITH THE NEW INSTALLATION. ALL EXPOSED ABANDONED CONDUIT AND WIRING SHALL BE REMOVED. THE CONTRACTOR SHALL CUT BACK ALL ABANDONED CONDUIT AND WIRING TO FLOOR, WALL, OR HUNG CEILING. THIS WORK MAY NOT BE REPRESENTED ON THE DRAWINGS, BUT SHOULD BE TAKEN INTO ACCOUNT BY THE CONTRACTOR IN HIS PROPOSAL.
- L. INSULATION RESISTANCE TESTS SHALL BE PERFORMED ON ALL EXISTING CONDUCTORS AND EQUIPMENT DESIGNATED TO REMAIN. MEASURED INSULATION RESISTANCE SHALL CONFORM TO REQUIREMENTS OF THE LATEST EDITION OF THE CODE.
- M. ELECTRICAL CONTRACTOR SHALL MAINTAIN CONTINUITY OF CIRCUITRY FOR EXISTING EQUIPMENT AND DEVICES THAT ARE TO REMAIN. WHERE OUTLETS ARE REMOVED AND ARE NOT AT THE CIRCUIT DEAD END, EXTEND CIRCUITRY AS REQUIRED TO MAINTAIN INTEGRITY OF ORIGINAL CIRCUIT. WHERE A WIRING DEVICE IS TO BE REMOVED AND THAT WALL IS TO REMAIN THE ELECTRICAL CONTRACTOR SHALL REMOVE BRANCH CIRCUITRY FROM ITS SOURCE AND FILL-IN OUTLET BOX. BLANK PLATES WILL NOT BE PERMITTED.
- N. PRIOR TO ANY CHASING, CHOPPING, OR CORE DRILLING IS PERFORMED, THE CONTRACTOR SHALL FIELD INVESTIGATE CONDITIONS AND COORDINATE WITH ALL APPROPRIATE TRADES TO ENSURE THAT WORK WILL BE IN HARMONY WITH OTHER WORK AND NOT AFFECT ANY EXISTING BUILDING SYSTEMS. THIS WORK MUST BE APPROVED BY BUILDING MANAGEMENT PRIOR TO PROCEEDING.

3.2 SHOP DRAWINGS

- A. SUBMIT SIX (6) SETS OF SHOP DRAWINGS FOR THE FOLLOWING:
 1. PANELBOARDS
 2. LIGHTING FIXTURES.
 3. DEVICES.
 4. FIRE ALARM SYSTEM EQUIPMENT.

3.3 IDENTIFICATION OF EQUIPMENT

- A. ALL PANELBOARDS, CONTROL PANELS, AND CABINETS SPECIFIED HEREIN SHALL BE CLEARLY IDENTIFIED WITH THE EQUIPMENT DESIGNATION, VOLTAGE AND AMPERE RATING, EQUIPMENT SERVED AND ORIGIN OF THE INCOMING FEED. CONTROL PANELS SHALL BE IDENTIFIED WITH SYSTEM NAME. IDENTIFICATION SHALL BE BY WHITE ON BLACK PLASTIC NAMEPLATE WITH 1/2" MINIMUM LETTERING ATTACHED BY SCREWS.
- B. JUNCTION BOXES, SPLICE BOXES, ETC., SHALL BE IDENTIFIED WITH PANEL AND CIRCUIT NUMBERS, FOR CIRCUITS CONTAINED THEREIN. FACEPLATE OF SWITCHES FOR EQUIPMENT SUCH AS PANTRY EXHAUST FANS, MOTORIZED SCREENS, ETC., SHALL BE IDENTIFIED WITH THE NAME OF THE DEVICE CONTROLLED. IDENTIFICATION SHALL BE BY INDELIBLE MARKER IN CONCEALED LOCATIONS AND ADHESIVE ("P" TOUCH TYPE) LABELS IN EXPOSED LOCATIONS. EMERGENCY DEVICES SHALL BE IDENTIFIED IN RED AND UPS DEVICES IN BLUE.
- C. EMPTY CONDUITS SHALL BE IDENTIFIED WITH TAGS AT BOTH ENDS INDICATING THE LOCATION OF TERMINATION OF THE OPPOSITE END.
- D. FIRE ALARM SYSTEM JUNCTION BOXES SHALL BE PAINTED FIRE DEPARTMENT RED. APPROVED IDENTIFICATION CARDS SHALL BE FURNISHED ADJACENT TO ALL CONTROL PANELS AND MANUAL STATIONS.



Revisions		
#	DATE	ISSUE/REVISION DESCRIPTION

PHASE
ISSUED FOR PERMIT/BID



PROJECT NAME
**OFFUTT EDUCATION CENTER
AT LACHAT FARM**
106 GODFREY, ROAD
WESTON, CT

JOB NO.: MEA.2021.00011
DRAWN BY: _____ CHECK BY: _____
DATE: 02/16/2022 SCALE: NONE

DRAWING TITLE
**ELECTRICAL
SPECIFICATIONS
(SHEET 2 OF 2)**

DRAWING #
E-602