

DEPARTMENT OF VETERANS AFFAIRS MEDICAL CENTER - WADE PARK

10701 EAST BLVD. CLEVELAND, OH. 44106

Repair Outdoor Ductwork Insulation

PROJECT NO. 514-18-511

Veterans Administration Medical Center

100% CONSTRUCTION DOCUMENT SUBMISSION
OCTOBER 12, 2018

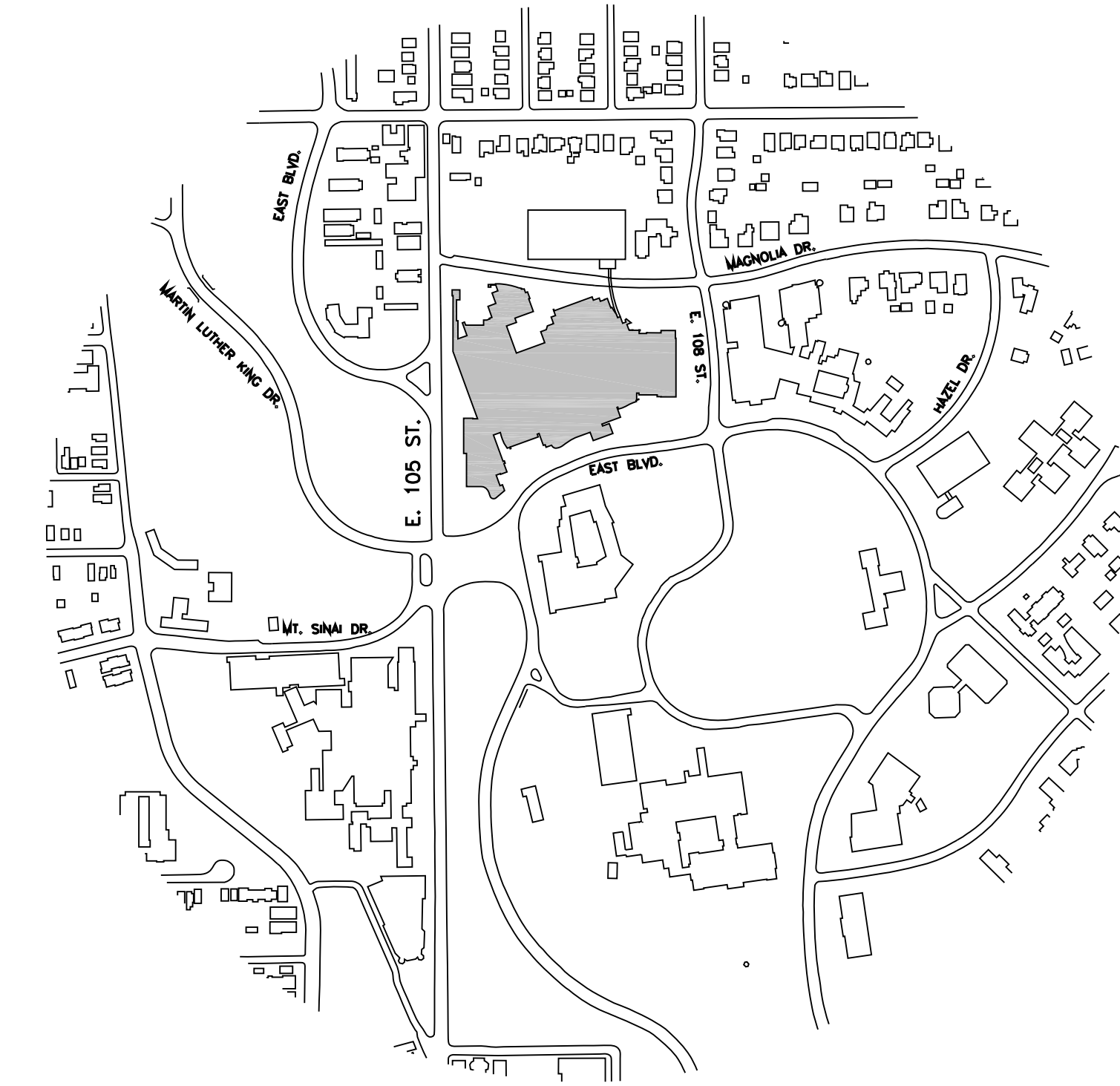


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CODE INFORMATION

DESIGN CODES / CRITERIA:
 2018 Life Safety Code
 2018 IBC
 2017 VA HVAC Design Manual
 TYPE OF CONSTRUCTION (LSC A.8.2.1.2):
 Type II (222)
 FLOOR - CEILING ASSEMBLIES: (LSC A.8.2.1.2)
 2 HOURS
 ROOF - CEILING ASSEMBLIES: (LSC A.8.2.1.2)
 1 HOUR



KEY PLAN
 ARCH. JOB NO.: 18-098



REFER TO KEY PLANS ON MECHANICAL DRAWINGS

PHASING GENERAL NOTES:

- The Work shall be accomplished in one phase, however, work shall be sequenced such that traffic on newly completed areas is minimized.
- Construction schedule is to include days of inclement weather, at no additional cost to the Owner.
- Contractor shall coordinate all work with the entire set of documents.
- Contractor shall cooperate with the Owner's occupancy of the facility and shall execute the Work so as to interfere as little as possible with normal functioning of the Medical Center. See also Specification 01 00 00.

PROJECT DURATION:

	Duration in Calendar Days	Days from Notice to Proceed (NTP)
Preconstruction activities	60	Days 1 - 60
Construction	140	Days 61 - 201
Total project duration is 200 days from Notice to Proceed.		

LIFE SAFETY GENERAL NOTES:

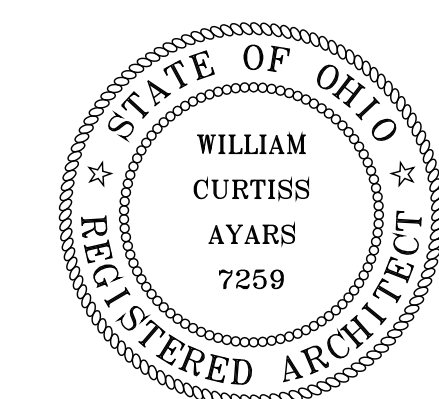
- No revisions to existing rated walls, paths of egress or travel distances are anticipated as a result of this project.

Perspectus Architecture LLC

Architect 13212 Shaker Square, Cleveland, Ohio 44120

Fredrick, Fredrick & Heller Engineers, Inc.

Mechanical & Electrical Engineer 672 East Royalton Road, Broadview Heights, Ohio 44147

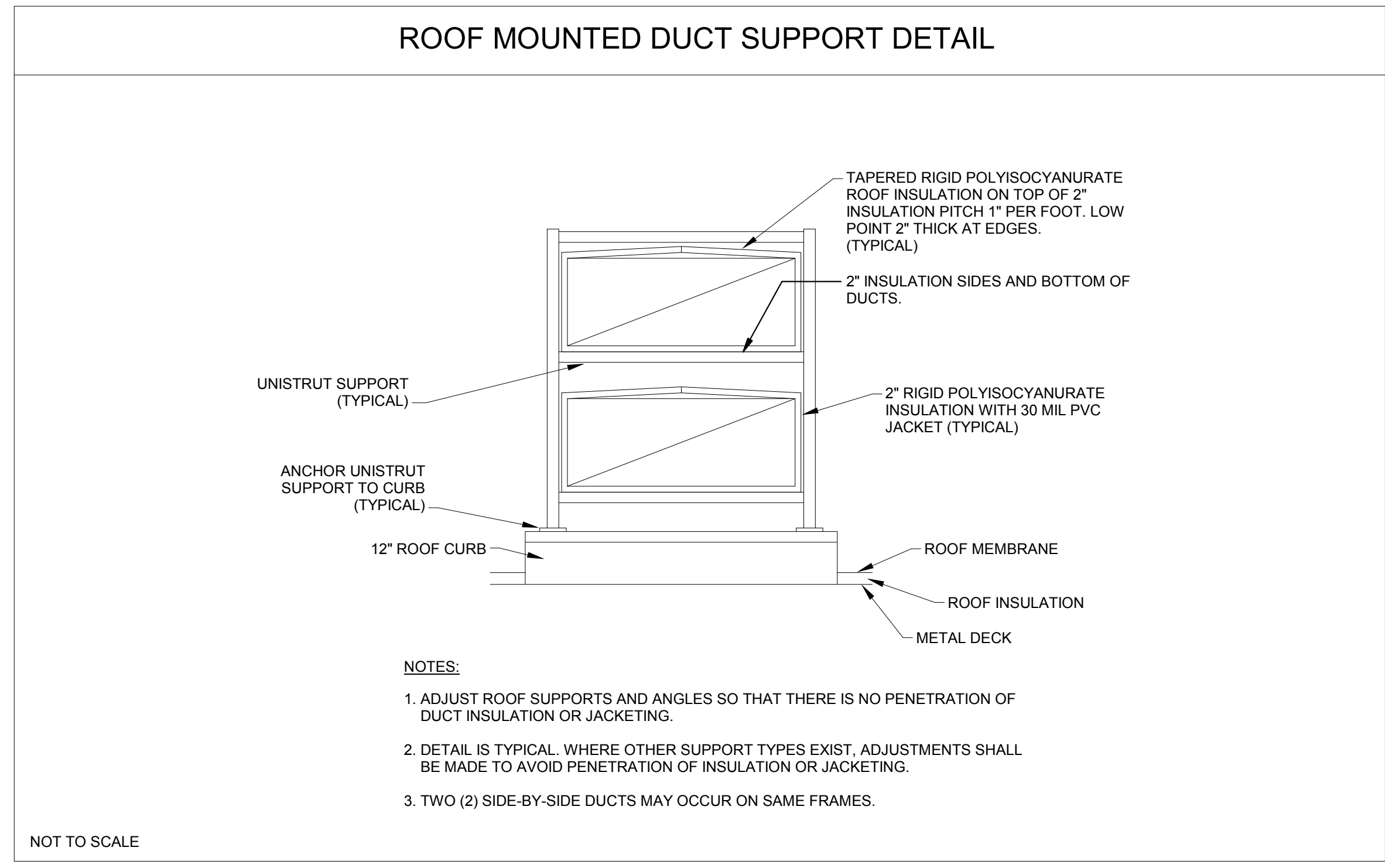
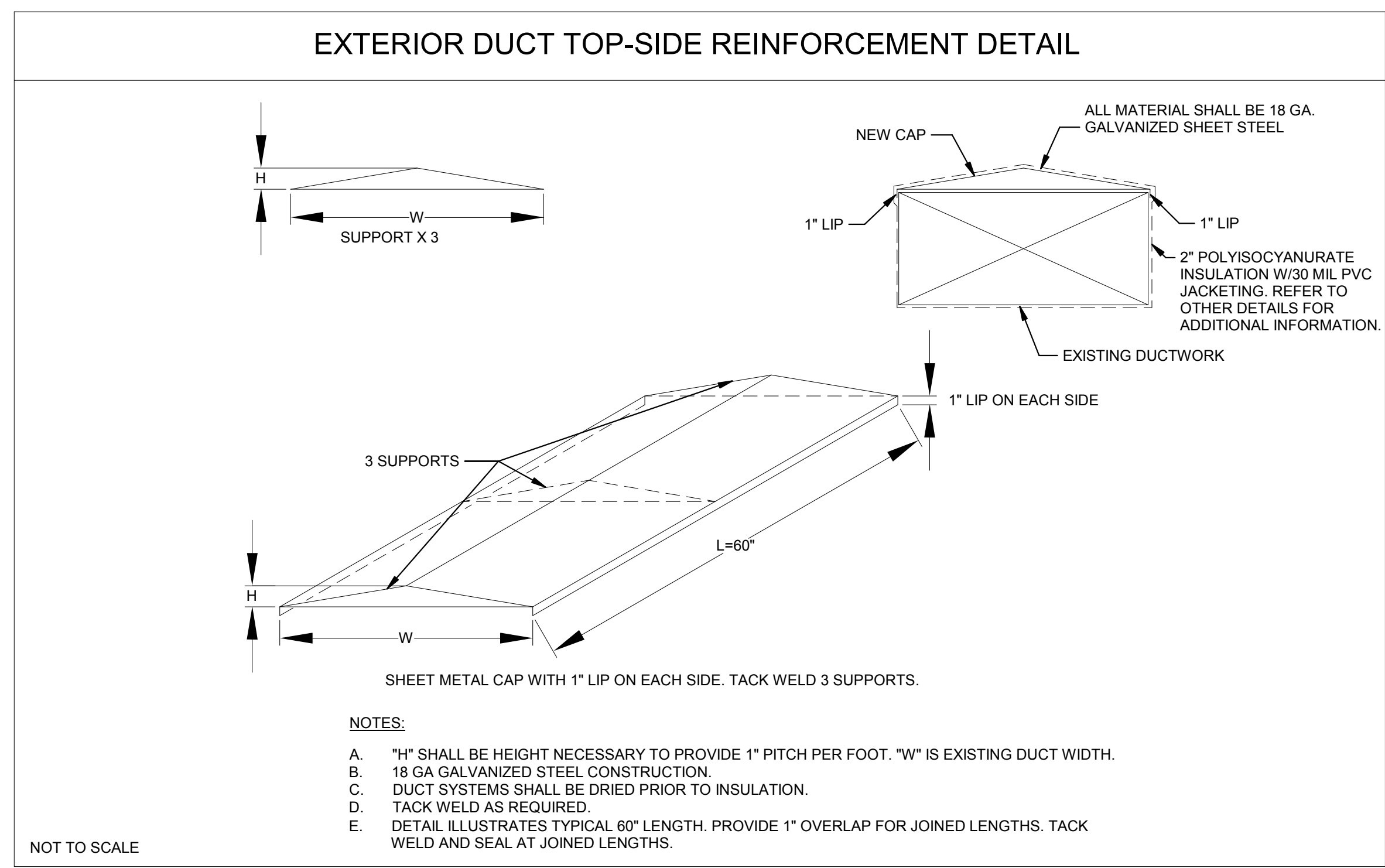


William Curtiss Ayars, License #7259
 Expiration Date 12/31/2019

FULLY SPRINKLERED

Revisions	APPROVALS	DATE	APPROVALS	DATE	APPROVALS	DATE	Drawing Title COVER SHEET	Project Title REPAIR OUTDOOR DUCTWORK INSULATION	Date 10-12-2018	Office of Facilities Management	
	DIRECTOR 00		CHIEF Planning and Construction		FACILITY MANAGER		Approved: Division Chief	Building Number 1	Checked		Drawn
	ASSOCIATE DIRECTOR 00A (B)		CHIEF, Occupational Health & Safety		SHOP FOREMAN 138		Approved: Service Director	Location 10701 EAST BLVD. CLEVELAND, OHIO	DRAWING NO. 1-X.1		Dwg. Of
	CHIEF, ENGINEERING 138		CHIEF, IRM							Department of Veterans Affairs	

three eighths inch = one foot
 one eighth inch = one foot
 one quarter inch = one foot
 three eighths inch = one foot
 one half inch = one foot
 one inch = one foot
 one and one half inch = one foot
 two inches = one foot
 three inches = one foot
 four inches = one foot
 five inches = one foot
 six inches = one foot
 seven inches = one foot
 eight inches = one foot
 nine inches = one foot
 ten inches = one foot
 eleven inches = one foot
 twelve inches = one foot
 one foot = one foot
 one and one eighth inch = one foot
 one and one quarter inch = one foot
 one and one half inch = one foot
 one and three quarters inch = one foot
 two feet = one foot
 three feet = one foot
 four feet = one foot
 five feet = one foot
 six feet = one foot
 seven feet = one foot
 eight feet = one foot
 nine feet = one foot
 ten feet = one foot
 eleven feet = one foot
 twelve feet = one foot
 one yard = one foot
 one and one half yards = one foot
 two yards = one foot
 three yards = one foot
 four yards = one foot
 five yards = one foot
 six yards = one foot
 seven yards = one foot
 eight yards = one foot
 nine yards = one foot
 ten yards = one foot
 eleven yards = one foot
 twelve yards = one foot
 one mile = one foot
 one and one half miles = one foot
 two miles = one foot
 three miles = one foot
 four miles = one foot
 five miles = one foot
 six miles = one foot
 seven miles = one foot
 eight miles = one foot
 nine miles = one foot
 ten miles = one foot
 eleven miles = one foot
 twelve miles = one foot



DEDUCT ALTERNATE NOTES:

A. REFER TO DWG 1-M3 FOR NOTES REGARDING DEDUCT ALTERNATE NO. 1.
 B. REFER TO DWG 1-M2A FOR NOTES REGARDING DEDUCT ALTERNATE NO. 2.
 C. AS PART OF DEDUCT ALTERNATE NO. 3, DELETE ALL TOPSIDE REINFORCEMENT OF DUCT (SEE DETAIL) THAT IS INDICATED ON PLANS. IN LIEU OF TOPSIDE REINFORCEMENT, PROVIDE TAPERED INSULATION AND JACKET ONLY (PER ROOF MOUNTED DUCT SUPPORT DETAIL).

HVAC GENERAL NOTES

A. LOCATIONS AND ROUTING OF EXISTING PIPING, DUCTWORK AND EQUIPMENT IS PRESUMED FROM EXISTING DRAWINGS. AND FIELD SURVEYING MECHANICAL CONTRACTOR SHALL FIELD VERIFY ALL PRIOR TO COMMENCEMENT OF CONSTRUCTION. NOTIFY ENGINEER OF ANY CONDITIONS WHICH WILL NOT PERMIT THE WORK TO BE PERFORMED AS INDICATED ON THESE DRAWINGS.
 B. COORDINATE ALL SHUT-DOWNS OF EXISTING MECHANICAL SYSTEMS WITH VA A MINIMUM OF SEVEN WORKING DAYS IN ADVANCE.
 C. PROVIDE ADEQUATE SERVICE CLEARANCE FOR ALL MECHANICAL EQUIPMENT.
 D. CONTRACTOR SHALL TAKE NECESSARY PRECAUTIONS WHILE PERFORMING WORK ON ROOF. CONTRACTOR SHALL MAINTAIN ROOFING WARRANTY. CONTACT VA C.O.R. FOR ROOFING WARRANTY/CONTRACTOR INFORMATION.

MECHANICAL LEGEND

NOTE: THIS LEGEND IS INTENDED TO AID IN THE UNDERSTANDING OF SHORTHAND, SYMBOLS AND ABBREVIATIONS SHOWN IN THESE CONSTRUCTION DOCUMENTS. IT IS NOT THE INTENTION TO DESCRIBE THE PROJECT SCOPE OF WORK, FOR DETAILED SCOPE OF WORK PLEASE REFER TO THE SUBSEQUENT DRAWINGS.

CALL OUTS:

EQUIPMENT TYPE: REFERENCE TO CODED NOTE
 EQUIPMENT OR FIXTURE MARK
 UNIT NUMBER

DETAIL NO.: SECTION / DETAIL / ELEVATION MARK

DRAWING:

DEMOLITION SYMBOLS:

X EXISTING TO REMAIN
 XR EXISTING TO BE REMOVED
 XRL EXISTING TO BE RELOCATED
 XNL EXISTING NEW LOCATION

DUCTWORK SYMBOLS:

24x18 RECTANGULAR DUCT SIZE
 12" ROUND DUCT SIZE
 MANUAL BALANCING DAMPER ON DUCT TO BE MOUNTED OVER ACCESSIBLE CEILING
 RETURN AIR DUCT
 EXHAUST AIR DUCT
 SUPPLY AIR DUCT

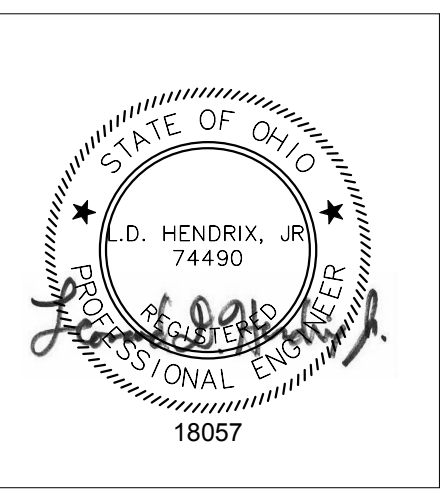
ABBREVIATIONS:

RO ROOF OPENING
 CTE CONNECT TO EXISTING
 LOD LIMIT OF DEMOLITION
 PC PLUMBING CONTRACTOR
 FC FIRE SUPPRESSION CONTRACTOR
 HC HVAC CONTRACTOR
 TC TEMPERATURE CONTROL CONTRACTOR
 GC GENERAL TRADES CONTRACTOR
 EC ELECTRICAL CONTRACTOR
 TCP TEMPERATURE CONTROL PANEL
 SA SUPPLY AIR
 RA RETURN AIR
 EA EXHAUST AIR
 AFF ABOVE FINISHED FLOOR
 AD ACCESS DOOR
 TO OPENING IN TOP OF DUCT. SHALL BE A MINIMUM 1.5 TIMES GREATER THAN THE CROSS-SECTIONAL AREA OF DUCT.
 MOD MOTOR OPERATED DAMPER
 FDD FIRE DAMPER IN DUCT
 FSD COMBINATION FIRE/SMOKE DAMPER IN DUCT

100% CD SUBMISSION	10/12/18
Revisions:	Date

CONSULTANTS:

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 ENGINEERS, INC.
 672 EAST ROYALTON ROAD
 BROADVIEW HTS., OHIO 44147
 TEL: (440) 546-9696
 FAX: (440) 546-9696



CONSULTANTS:

Perspectus
 architecture

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 P. 216.752.1800 F. 216.752.3833

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Drawing Title
MECHANICAL LEGEND, GENERAL NOTES, AND DETAILS

Approved: _____

Project Title
REPAIR OUTDOOR DUCTWORK INSULATION

Location
VAMC - WADE PARK

Date 10/12/18 Checked LDH Drawn DML

Project Number 541-18-511 Building Number 1 Drawing Number 1-M0 Dwg. of

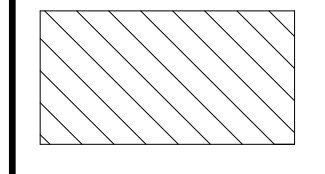
FULLY SPRINKLERED

Office of Facilities Management

Department of Veterans Affairs

three inches = one foot
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 one quarter inch = one foot
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 one eighth inch = one foot
 one quarter inch = one foot
 one eighth inch = one foot
 one quarter inch = one foot
 one eighth inch = one foot

DEDUCT ALTERNATE NO. 2 NOTE:
 A. AS PART OF DEDUCT ALTERNATE NO. 2, ALL WORK ON THIS PLAN SHALL BE DELETED.

LEGEND
 REMOVE EXISTING EXTERIOR INSULATION AND JACKETING COMPLETELY. INSTALL NEW 2" THICK POLYISOCYANURATE CLOSED CELL RIGID INSULATION. ON TOP SURFACE, PROVIDE TAPERED POLYISOCYANURATE ROOF INSULATION, PITCHED FROM THE MIDDLE. PROVIDE 30 MIL THICK PVC JACKETING ON EXTERIOR OF INSULATION, WHITE COLOR. DUCT SUPPORTS, UNISTRUT, ETC. SHALL NOT PENETRATE JACKET OR INSULATION. ADJUST SUPPORT / UNISTRUT AS NEEDED.

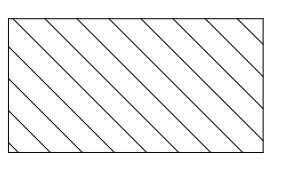


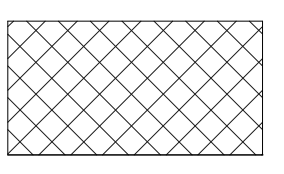
PARTIAL ROOF / SECOND FLOOR DUCTWORK PLAN - AREA A
 1/8" = 1'-0"
 0' 4' 8' 16' 32'

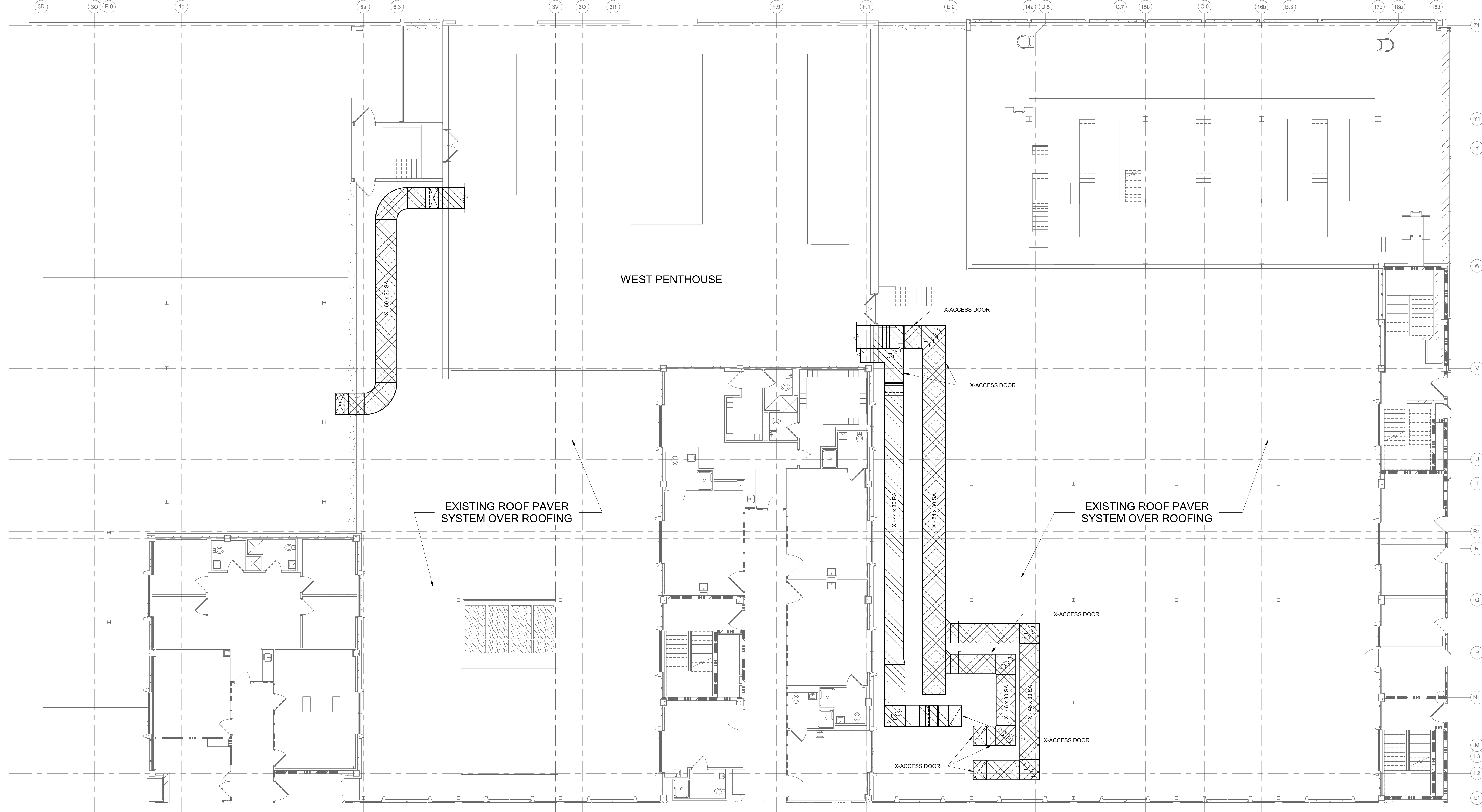
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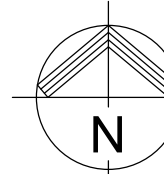
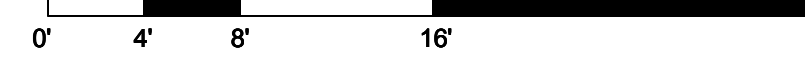
CONSULTANTS:  FREDRICK, FREDRICK & HELLER ENGINEERS, INC. 672 EAST ROYALTON ROAD BROADVIEW HTS., OHIO 44147 TEL: (440) 546-9600 FAX: (440) 546-9606				ARCHITECT:  13212 Shaker Square Suite 204 Cleveland, Ohio 44120 P. 216.752.1800 F. 216.752.3833 <small>DESIGN AND CONSTRUCTION DOCUMENTS AS INSTRUMENTS OF SERVICE ARE GIVEN IN CONFIDENCE AND REMAIN THE PROPERTY OF PERSPECTUS ARCHITECTURE. THE USE OF THIS DOCUMENT FOR ANY OTHER PURPOSES WITHOUT THE EXPRESS WRITTEN CONSENT OF PERSPECTUS ARCHITECTURE. COPYRIGHT © 2004.</small>		Drawing Title PARTIAL ROOF / SECOND FLOOR DUCTWORK PLAN - AREA A		Project Title REPAIR OUTDOOR DUCTWORK INSULATION		Project Number 541-18-511		Office of Facilities Management 	
Revisions:						Approved:		Location VAMC - WADE PARK		Building Number 1		Drawing Number 1-M2A	
100% CD SUBMISSION 10/12/18								Date 10/12/18		Checked LDH		Drawn DML	
Date										Dwg. of			

LEGEND

 REMOVE EXISTING EXTERIOR INSULATION AND JACKETING COMPLETELY. INSTALL NEW 2" THICK POLYISOCYANURATE CLOSED CELL RIGID INSULATION ON TOP SURFACE. PROVIDE TAPERED POLYISOCYANURATE ROOF INSULATION, PITCHED FROM THE MIDDLE. PROVIDE 30 MIL THICK PVC JACKETING ON EXTERIOR OF INSULATION, WHITE COLOR. DUCT SUPPORTS, UNISTRUT, ETC. SHALL NOT PENETRATE JACKET OR INSULATION. ADJUST SUPPORT / UNISTRUT AS NEEDED.

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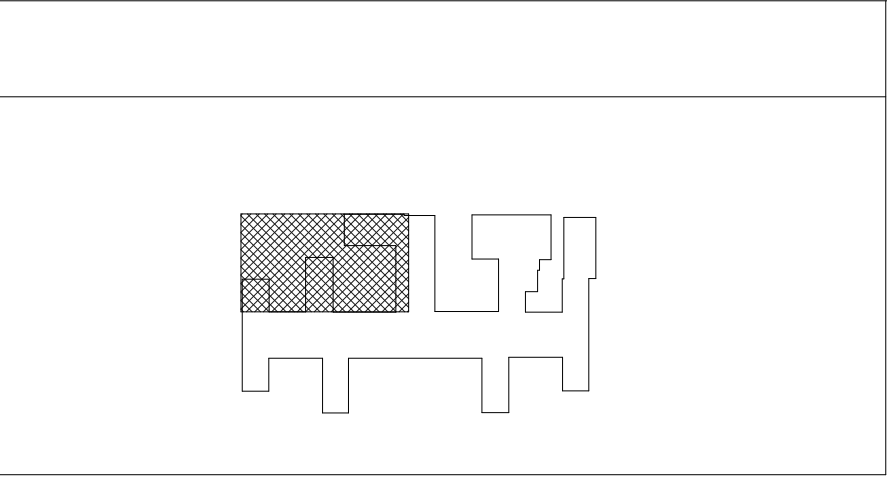


PARTIAL ROOF / SECOND FLOOR DUCTWORK PLAN - AREA B
 1/8" = 1'-0"




100% CD SUBMISSION	10/12/18
Revisions:	Date

CONSULTANTS:

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 BROADVIEW HTS., OHIO 44147
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CONSULTANTS:

 **Perspectus** architecture
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Drawing Title
PARTIAL ROOF / SECOND FLOOR DUCTWORK PLAN - AREA B

Approved:

Project Title
REPAIR OUTDOOR DUCTWORK INSULATION

Location
VAMC - WADE PARK

Date
 10/12/18

Checked
 LDH

Drawn
 DML

FULLY SPRINKLERED


Project Number
 541-18-511

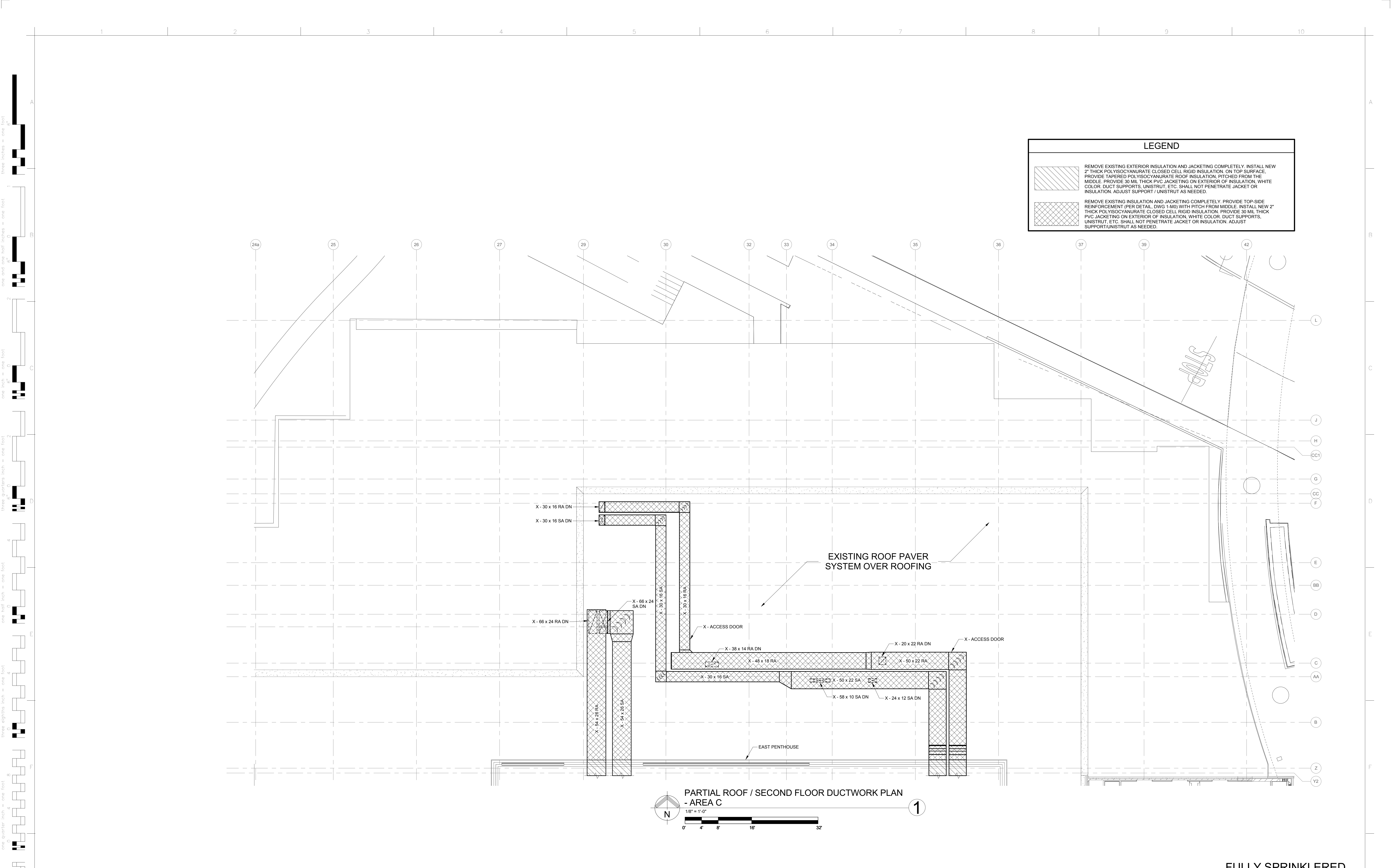
Building Number
 1

Drawing Number
1-M2B

Dwg. of

Office of Facilities Management

 Department of Veterans Affairs



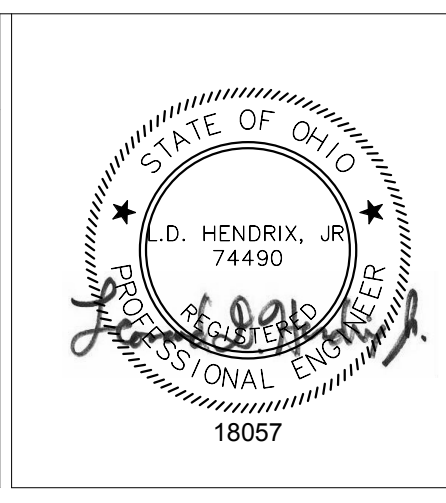
LEGEND	
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PARTIAL ROOF / SECOND FLOOR DUCTWORK PLAN
- AREA C
1/8" = 1'-0"
N

100% CD SUBMISSION	10/12/18
Revisions:	Date

CONSULTANTS:

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Drawing Title
PARTIAL ROOF / SECOND FLOOR DUCTWORK PLAN - AREA C

Approved:

Project Title
REPAIR OUTDOOR DUCTWORK INSULATION

Location
VAMC - WADE PARK

Date
10/12/18

Checked
LDH

Drawn
DML

Project Number
541-18-511

Building Number
1

Drawing Number
1-M2C


Dwg. of

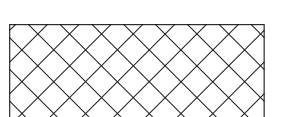
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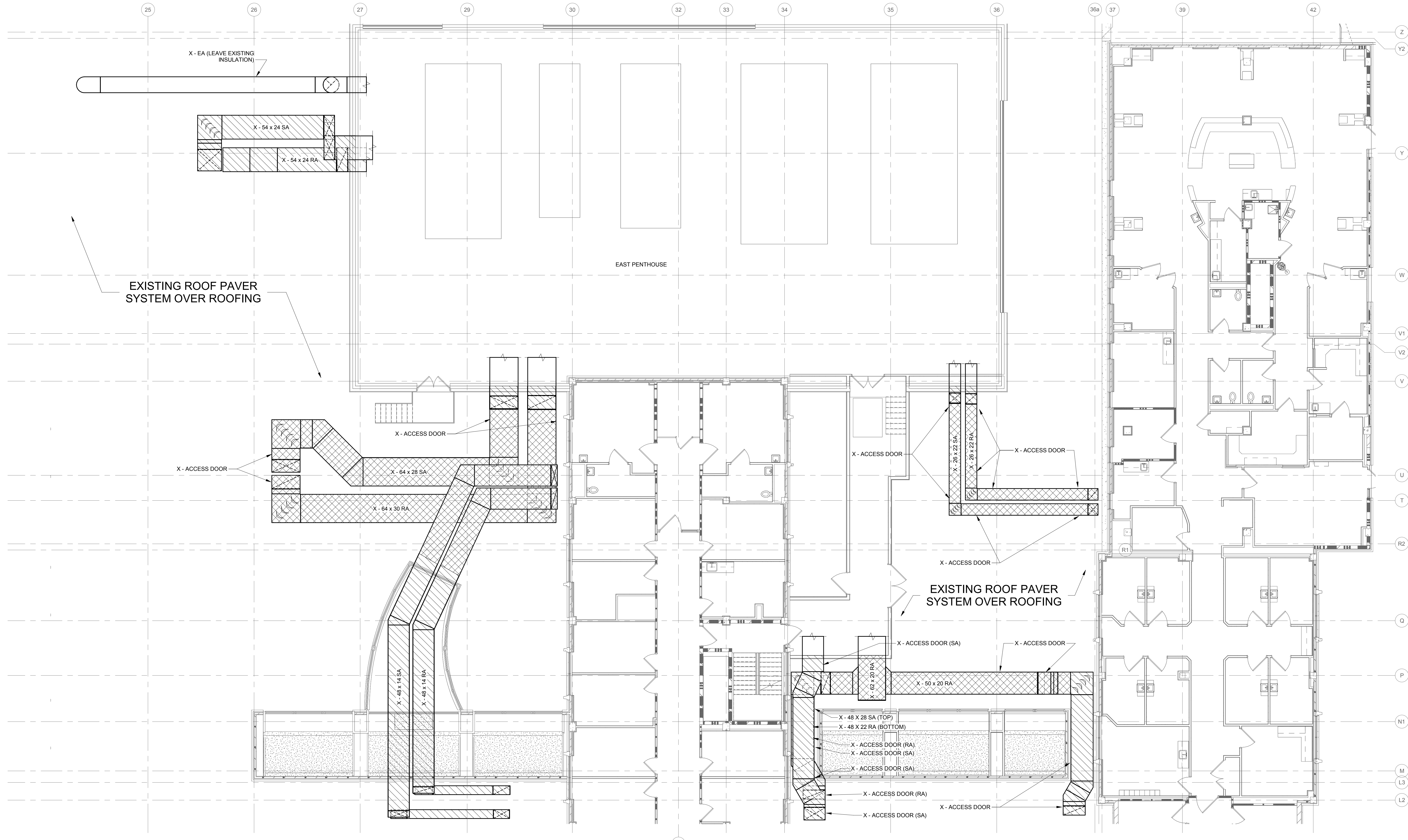
Office of Facilities Management

Department of Veterans Affairs

LEGEND

 REMOVE EXISTING EXTERIOR INSULATION AND JACKETING COMPLETELY. INSTALL NEW 2" THICK POLYISOCYANURATE CLOSED CELL RIGID INSULATION, ON TOP SURFACE. PROVIDE TAPERED POLYISOCYANURATE ROOF INSULATION, PITCHED FROM THE MIDDLE. PROVIDE 30 MIL THICK PVC JACKETING ON EXTERIOR OF INSULATION, WHITE COLOR. DUCT SUPPORTS, UNISTRUT, ETC. SHALL NOT PENETRATE JACKET OR INSULATION. ADJUST SUPPORT / UNISTRUT AS NEEDED.


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PARTIAL ROOF / SECOND FLOOR DUCTWORK PLAN - AREA D
 1/8" = 1'-0"
 0' 4' 8' 16' 32'

100% CD SUBMISSION	10/12/18
Revisions:	Date

CONSULTANTS:

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 BROADVIEW HTS., OHIO 44147
 TEL: (440) 546-9690
 FAX: (440) 546-9699



CONSULTANTS:

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Drawing Title
PARTIAL ROOF / SECOND FLOOR DUCTWORK PLAN - AREA D

Approved: _____

Project Title
REPAIR OUTDOOR DUCTWORK INSULATION

Location
VAMC - WADE PARK

Date
 10/12/18

Checked
 LDH

Drawn
 DML

Project Number
 541-18-511

Building Number
 1

Drawing Number
1-M2D

Dwg. of _____

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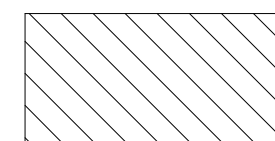
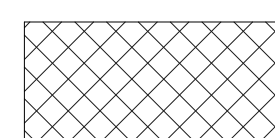
Office of Facilities Management

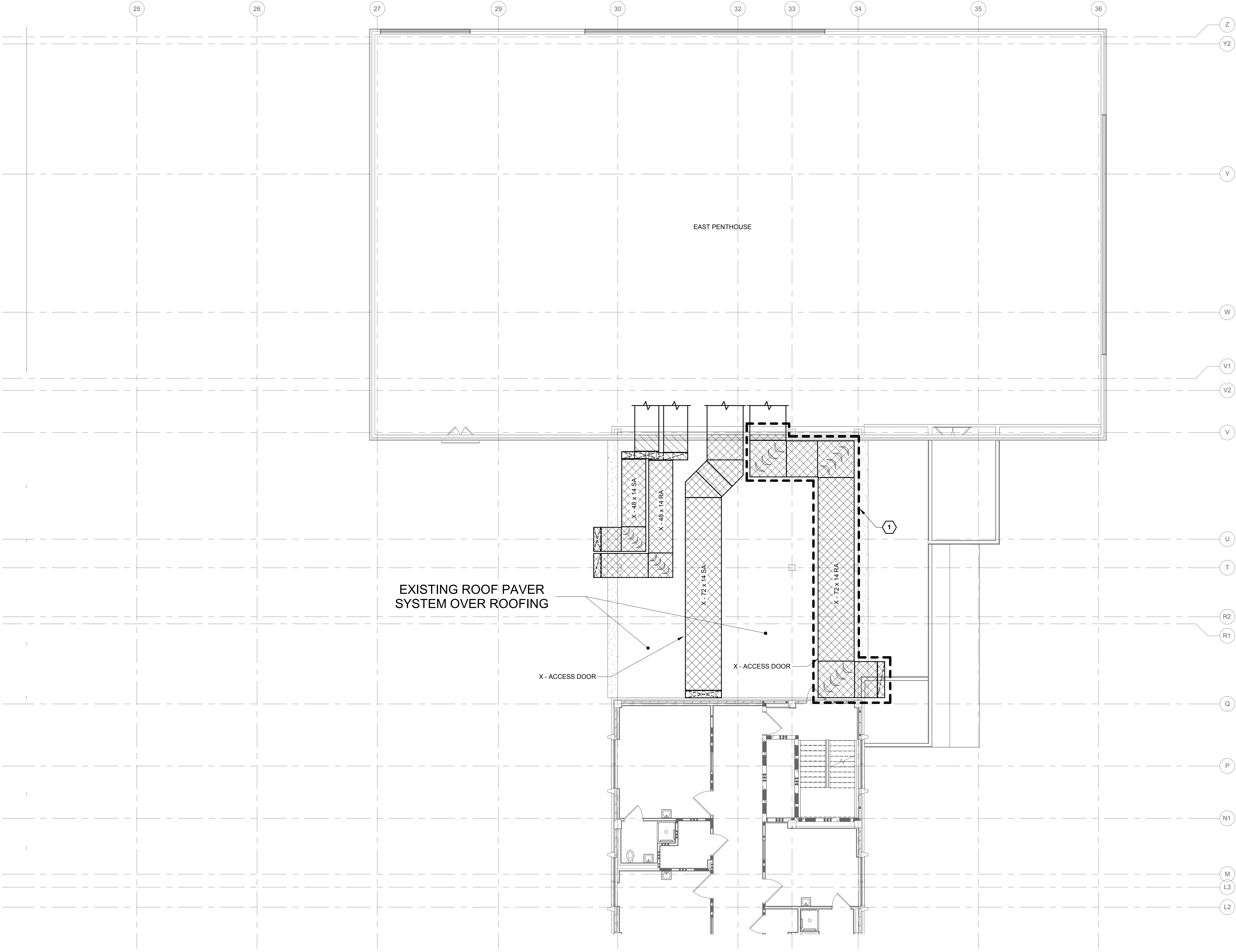
 **Department of Veterans Affairs**

DEDUCT ALTERNATE NO. 1 NOTE:

1 AS PART OF DEDUCT ALTERNATE NO. 1, DELETE WORK INDICATED BY CODED NOTE #1.

LEGEND

-  REMOVE EXISTING EXTERIOR INSULATION AND JACKETING COMPLETELY. INSTALL NEW 2" THICK POLYISOCYANURATE CLOSED CELL RIGID INSULATION ON TOP SURFACE. PROVIDE TAPERED POLYISOCYANURATE ROOF INSULATION, PITCHED FROM THE MIDDLE. PROVIDE 30 MIL THICK PVC JACKETING ON EXTERIOR OF INSULATION, WHITE COLOR. DUCT SUPPORTS, UNISTRUT, ETC. SHALL NOT PENETRATE JACKET OR INSULATION. ADJUST SUPPORT / UNISTRUT AS NEEDED.
-  REMOVE EXISTING INSULATION AND JACKETING COMPLETELY. PROVIDE TOP-SIDE REINFORCEMENT (PER DETAIL DWG 1-M0) WITH PITCH FROM MIDDLE. INSTALL NEW 2" THICK POLYISOCYANURATE CLOSED CELL RIGID INSULATION. PROVIDE 30 MIL THICK PVC JACKETING ON EXTERIOR OF INSULATION, WHITE COLOR. DUCT SUPPORTS, UNISTRUT, ETC. SHALL NOT PENETRATE JACKET OR INSULATION. ADJUST SUPPORT/UNISTRUT AS NEEDED.

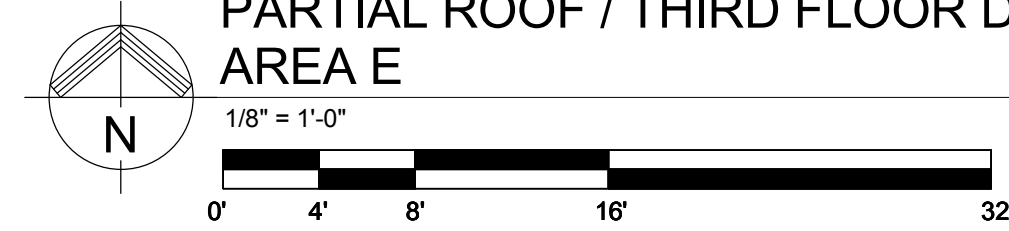


EXISTING ROOF PAVER SYSTEM OVER ROOFING

X - ACCESS DOOR

X - ACCESS DOOR

PARTIAL ROOF / THIRD FLOOR DUCTWORK PLAN - AREA E

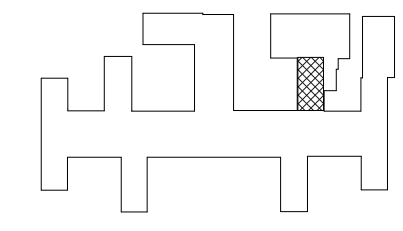


1

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PARTIAL ROOF / THIRD FLOOR DUCTWORK PLAN - AREA E

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Project Title
REPAIR OUTDOOR DUCTWORK INSULATION

Location
VAMC - WADE PARK

Date
10/12/18

Checked
LDH

Drawn
DML

FULLY SPRINKLERED

Project Number
541-18-511

Building Number
1

Drawing Number
1-M3

Dwg. of

Office of Facilities Management

