

DEMOLISH ALL SPRINKLERS, ARMOVER, AND BRANCHLINE PIPING IN AREAS H AND K.
 EXISTING MAIN PIPING IS TO REMAIN. IF EXISTING MAIN IS IN CONFLICT WITH NEW MECHANICAL OR CEILINGS, REROUTE MAIN TO ACCOMMODATE NEW FEATURES.
 INSTALL NEW SPRINKLERS, BRANCHLINE, AND ARMOVER PIPING TO

MECHANICAL OR CEILINGS, REROUTE MAIN TO ACCOMMODATE NEW FEATURES.

3. INSTALL NEW SPRINKLERS, BRANCHLINE, AND ARMOVER PIPING TO
ACCOMMODATE NEW WALLS AND CEILING LAYOUT. COORDINATE SPRINKLER
HEAD LOCATIONS WITH ELECTRICAL, MECHANICAL AND ARCHITECTURAL
FEATURES.

4. COORDINATE THE CONSTRUCTION PHASING WITH THE GENERAL CONTRACTOR.

SEE GENERAL DEMO AND FIRE SUPPRESSION NOTES ON SHEET F-001.

KEYNOTE LEGEND

KEY

DESCRIPTION

INSTALL NEW INSTITUTIONAL STYLE SPRINKLERS IN SMOKE ZONES L AND K AND ASSOCIATED PIPING TO ACCOMMODATE NEW WALLS.

FX02

INSTALL NEW SEMI-RECESSED SPRINKLERS IN SMOKE ZONE H AND ASSOCIATED PIPING TO ACCOMMODATE NEW WALLS.

FX04 EXISTING AREA H VALVE ASSEMBLY LOCATED HERE.
FX08 CONTROL VALVE LOCATED HERE



HATCH LEGEND

LIGHT HAZARD
DENSITY: 0.10 GPM/SQFT OVER 1500 SQFT

ORDINARY HAZARD GROUP 1
DENSITY: 0.15 GPM/SQFT OVER 2500 SQFT

ORDINARY HAZARD GROUP 2
DENSITY: 0.20 GPM/SQFT OVER 2500 SQFT

NOT IN SCOPE

Professional Engineer
I hereby certify that this plan, specification, or report was prepared by me or under my direct supervision and that I am a duly Licensed Professional Engineer under the laws of the state of Minnesota.

Signature:

Typed or Printed Name: Melisa Ann Rodriguez

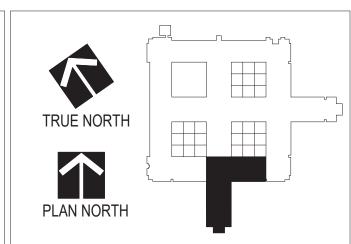
Date: 17/202 License Number: 47116

GENERAL CONTRACTOR AND/OR ALL SUBCONTRACTORS SHALL FIELD VERIFY ALL DIMENSIONS SHOWN ON THESE PLANS AND SHALL BE RESPONSIBLE FOR VARIATIONS BETWEEN PLAN DIMENSIONS AND ACTUAL FIELD DIMENSIONS. WHERE VARIATIONS ARE FOUND TO OCCUR, THE CONTRACTOR SHALL NOTIFY THE PROJECT ENGINEER IN WRITING PRIOR TO PROCEEDING WITH CONSTRUCTION; NO ADJUSTMENT TO THE WORK WILL BE MADE WITHOUT THE PRIOR APPROVAL OF THE PROJECT ENGINEER.

GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR GENERAL DEMOLITION INCLUDING REMOVAL OF WALLS, PARTITIONS, DOORS & CEILING & FLOORS. ANY AND ALL CUTTING OF CONCRETE FLOORS, WALLS OR STRUCTURE SHALL BE THE GENERAL CONTRACTOR'S RESPONSIBILITY OF THE SUBCONTRACTOR BY TRADE; FIRESTOPPING OF THESE OPENINGS SHALL BE DONE BY THE RESPONSIBILITY OF THE SUBCONTRACTOR. PATCHING AND REPAIR OF CONCRETE WALLS, FLOOR, OR STRUCTURE SHALL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR; THIS WILL BE ACCOMPLISHED UPON COMPLETION OF THE INSTALLATION OF ANY AND ALL UTILITIES INSTALLED BY THE VARIOUS SUBCONTRACTORS.

DATE





	FIRE SUPPRESSION PLAN AREA H PHASE 2
g Scale dicated	Approved: Division Chief
ale	Approved: Service Director

RENOVATE MH WARD
1L,1H, AND 1K

Location
1 Veterans Dr., Minneapolis, MN 55417

NSJ

Building Number
70

DRAWING NO.

1338 -

Office of Facilities Management



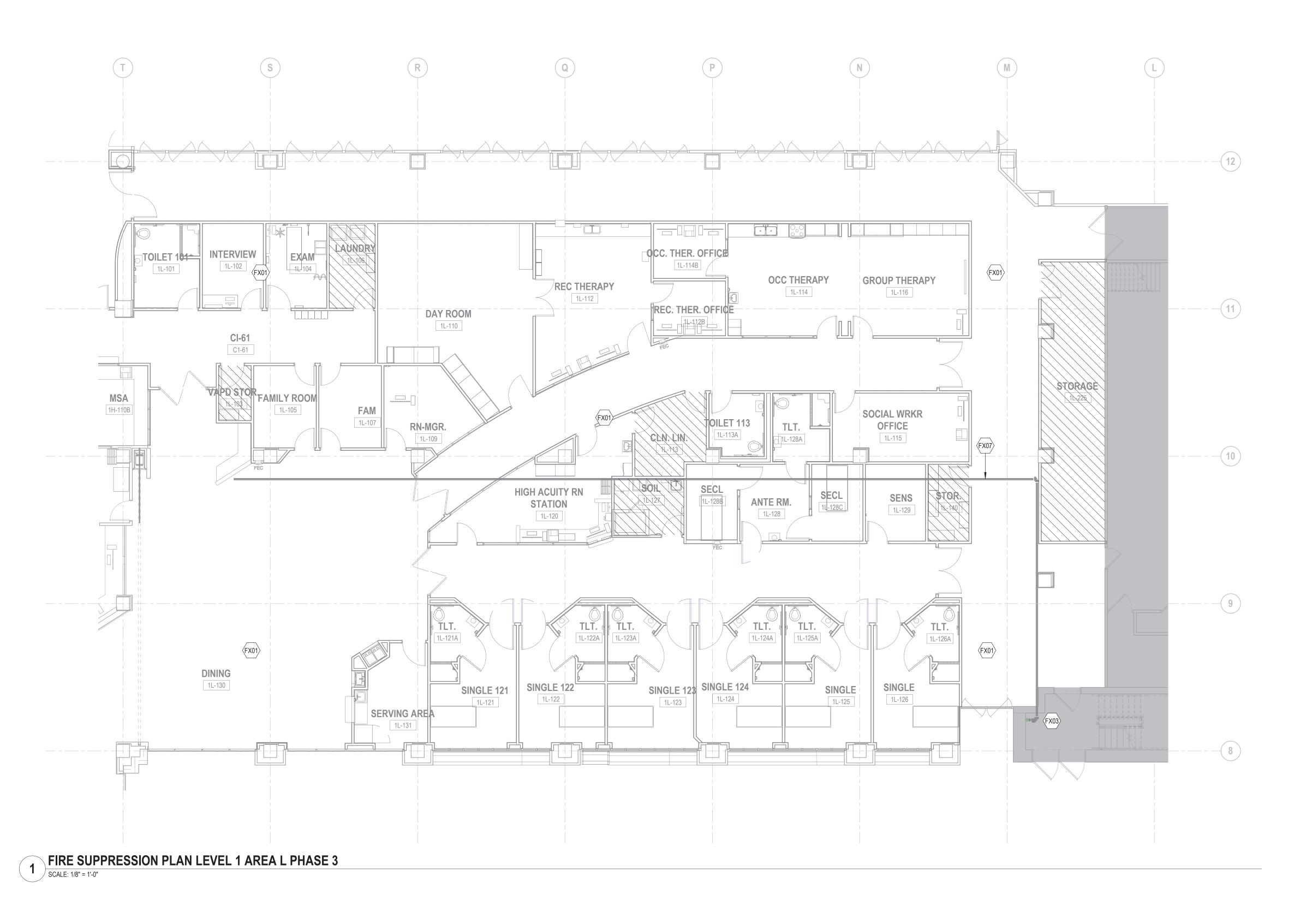


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 INSTALL NEW SPRINKLERS, BRANCHLINE, AND ARMOVER PIPING TO ACCOMMODATE NEW WALLS AND CEILING LAYOUT. COORDINATE SPRINKLER HEAD LOCATIONS WITH ELECTRICAL, MECHANICAL AND ARCHITECTURAL
- COORDINATE THE CONSTRUCTION PHASING WITH THE GENERAL CONTRACTOR.
 SEE GENERAL DEMO AND FIRE SUPPRESSION NOTES ON SHEET F-001.

EXISTING AREA L VALVE ASSEMBLY LOCATED HERE.

EXISTING SPRINKLER MAIN TO REMAIN. LOCATION IS APPROXIMATE.

KEYNOTE LEGEND DESCRIPTION INSTALL NEW INSTITUTIONAL STYLE SPRINKLERS IN SMOKE ZONES L AND K AND ASSOCIATED PIPING TO ACCOMMODATE NEW WALLS.



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NOT IN SCOPE

1338 -

Professional Engineer
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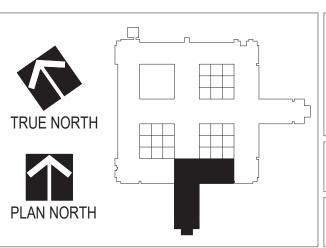
Typed or Printed Name: Melisa Ann Rodriguez

Date: 17/202 License Number: 47116

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	FIRE SUPPRESSION PLAN AREA L PHASE 3
wing Scale as indicated	Approved: Division Chief

Drawing Title

Approved: Service Director

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	Project Title
	RENOVATE MH WARD
	INCINOVATE WILL WAND
	1L,1H, AND 1K
	$ IL, III, \land IND IIX $
	Location

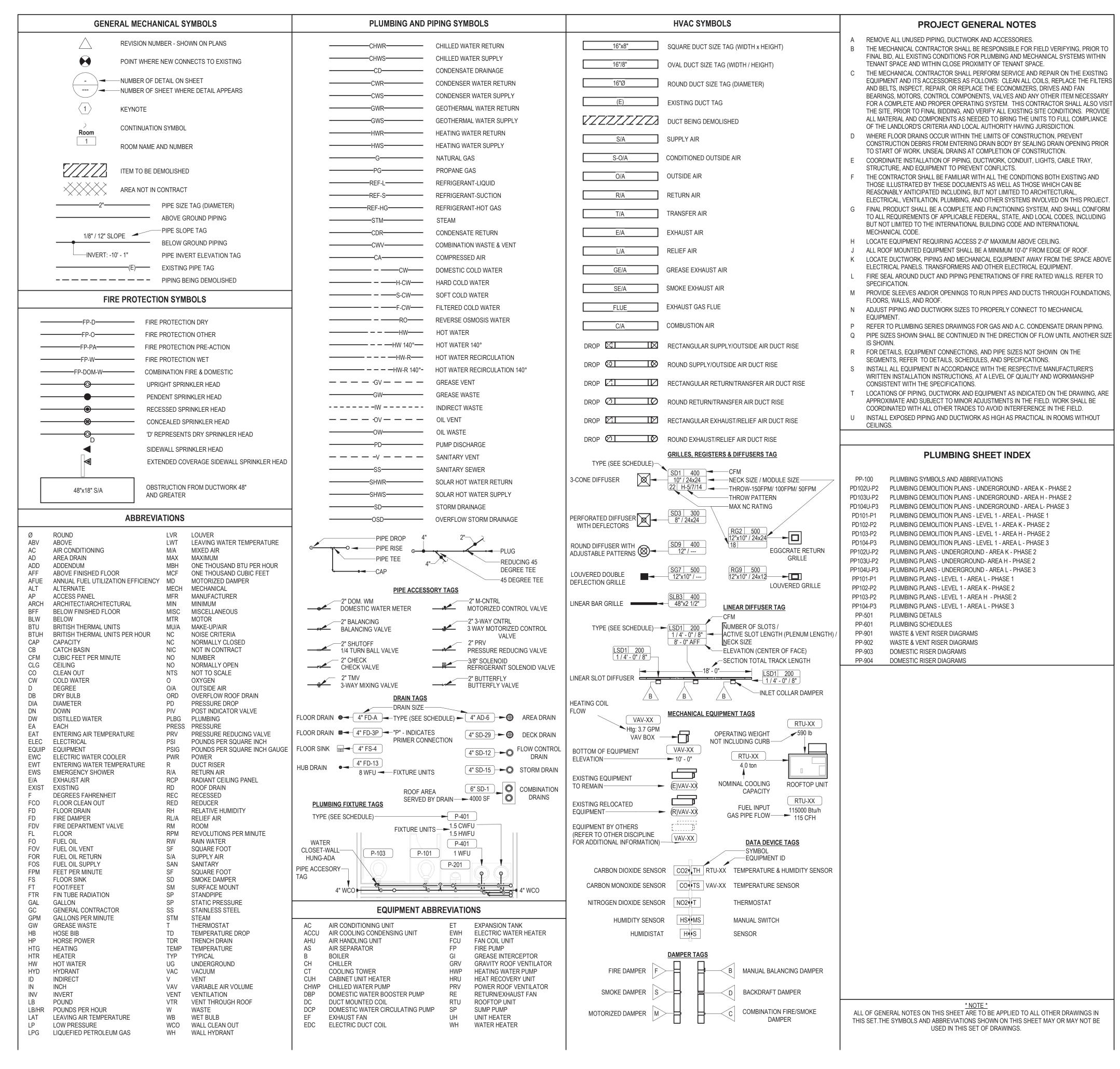
1 Veterans Dr., Minneapolis, MN 55417

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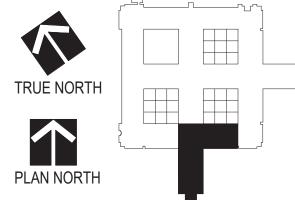
Project No. 618-17-127	Office
Building Number	Facili
70	Manage
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PLUMBING DEMOLITION NOTES A. CONTRACTOR TO FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO THE START OF CONSTRUCTION. REPORT ANY DISCREPANCIES TO THE PROJECT ENGINEER PRIOR TO START OF DEMOLITION OF CONSTRUCTION ACTIVITIES. B. SCOPE OF CONSTRUCTION FOR THIS PROJECT IS SERVED BY SYSTEMS THAT ALSO SERVE AREAS OUTSIDE OF THE SCOPE OF WORK. CONTRACTOR TO VERIFY THESE AREAS AND ENSURE THAT THESE AREAS ARE NOT DEPRIVED OF DOMESTIC OR SANITARY PIPING, ETC. UPON COMPLETION THESE SYSTEMS SHOULD BE RETURNED TO PREVIOUS WORKING ORDER. REMOVE EXISTING CONSTRUCTION WITHIN PROJECT LIMITS AS INDICATED OR AS REQUIRED TO COMPLETE WORK. VERIFY EXISTING CONDITIONS. REPORT ANY CONDITION DETRIMENTAL TO SUCCESSFUL COMPLETION OF THE PROJECT TO THE OWNER BEFORE PROCEEDING WITH THE WORK. D. WHEN DEMOLISHING PIPING ABOVE CEILINGS THAT PENETRATE WALLS, LEAVE SLEEVES WHERE APPLICABLE. CAP AND FIRE CAULK. E. REPAIR AND RESTORE EXISTING CONSTRUCTION DAMAGED BY DEMOLITION OPERATIONS. MATCH EXISTING CONDITIONS. EXTEND REPAIR AND RESTORATION TO BREAK IN PLAN OR TO FIRST MATERIAL JOINT BEYOND DAMAGE. . REQUIREMENT TO REPAIR OR RESTORE EXISTING CONSTRUCTION DAMAGED BY DEMOLITION EXTENDS TO EXISTING CONSTRUCTION DAMAGED BY ALTERATIONS TO MECHANICAL AND PLUMBING SYSTEMS, WHETHER OR NOT WORK IS WITHIN DEMOLITION AREAS SHOWING. G. COORDINATE DEMOLITION WITH SCHEDULES, CONSTRUCTION REQUIREMENTS AND SUBCONTRACTOR'S OPERATIONS. COORDINATE SEQUENCING WITH THE CONSTRUCTION MANAGER AND PROCEED ONLY AFTER OBTAINING THE OWNERS ACCEPTANCE OF DEMOLITION SCHEDULE. H. NO WORK SHALL BE STARTED WHICH AFFECTS EXISTING FACILITY OPERATIONS WITHOUT PRIOR COORDINATION AND APPROVAL OF THE WORK WITH THE OWNER. CONTRACTOR TO VERIFY ALL DIMENSIONS AND EXISTING CONDITIONS PRIOR TO THE START OF CONSTRUCTION. REPORT ANY DISCREPANCIES TO THE PROJECT ENGINEER PRIOR TO START OF DEMOLITION OF CONSTRUCTION ACTIVITIES. . REMOVAL OF WORK AT EXTERIOR OF BUILDING SHALL BE DONE IN SUCH A MANNER AS TO PREVENT MATERIALS FROM DAMAGING ADJACENT STRUCTURES OR STRUCTURES BELOW. K. CONTRACTOR SHALL NOT STORE MATERIALS OR EQUIPMENT ON THE PROVIDE FIRE PROTECTION EQUIPMENT (FIRE EXTINGUISHERS, ETC.) AS REQUIRED FOR DEMOLITION & CONSTRUCTION ACTIVITIES. M. FACILITY NEEDS TO BE KEPT WEATHER TIGHT REGARDLESS OF WEATHER CONDITIONS AT THE END OF EACH DAY. MAINTAIN WEATHER TIGHT CONDITIONS 24 HOURS A DAY FOR THE DURATION OF THE PROJECT. N. FOR ADDITIONAL DEMOLITION, SEE ARCHITECTURAL, HVAC, HVAC PIPING AND ELECTRICAL DRAWINGS. O. DEMO ALL PIPING NOTED TO BE DEMOLISHED BACK TO ITS SOURCE, DO NOT LEAVE DEAD ENDS. DO NOT ABANDON UNUSED PIPING. PLUMBING GENERAL NOTES . CONTRACTOR TO FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO THE START OF CONSTRUCTION, REPORT ANY DISCREPANCIES TO THE PROJECT ENGINEER PRIOR TO START OF DEMOLITION OF CONSTRUCTION ACTIVITIES. B. ALL WORK SHALL COMPLY WITH THE REQUIREMENTS OF NATIONAL AND LOCAL CODES, WHICHEVER IS MORE STRINGENT. COORDINATE DEMOLITION WITH SCHEDULES, CONSTRUCTION REQUIREMENTS AND SUBCONTRACTOR'S OPERATIONS. COORDINATE SEQUENCING WITH THE CONSTRUCTION MANAGER AND PROCEED ONLY AFTER OBTAINING THE OWNERS ACCEPTANCE OF DEMOLITION SCHEDULE. NO WORK SHALL BE STARTED WHICH AFFECTS EXISTING FACILITY OPERATIONS WITHOUT PRIOR COORDINATION AND APPROVAL OF THE WORK WITH THE PROVIDE FIRE PROTECTION EQUIPMENT (FIRE EXTINGUISHERS, ETC.) AS REQUIRED FOR DEMOLITION & CONSTRUCTION ACTIVITIES. FACILITY NEEDS TO BE KEPT WEATHER TIGHT REGARDLESS OF WEATHER CONDITIONS AT THE END OF EACH DAY. MAINTAIN WEATHER TIGHT CONDITIONS 24 HOURS A DAY FOR THE DURATION OF THE PROJECT. ALL PLUMBING EQUIPMENT, ACCESSORIES AND/OR PLUMBING FIXTURES WILL BE SECURED WITH VANDAL RESISTANT MOUNTING HARDWARE. INSTALL VERTICAL SANITARY AND VENT PIPING TRUE AND PLUMB. INSTALL ALL HORIZONTAL SANITARY PIPING SLOPED AT 1/4" PER FOOT. INSTALL HORIZONTAL SANITARY VENT PIPING SLOPED AT 1/8" PER FOOT. REFER TO ARCHITECTURAL PLANS FOR PIPING ACCESS PANEL LOCATIONS. REFER TO FIRE PROTECTION DRAWINGS FOR PIPING AND SPRINKLER HEAD LOCATIONS I. PROVIDE OFFSETS AS REQUIRED TO MEET SPACE REQUIREMENTS AND TO AVOID INTERFERENCE WITH OTHER TRADES. ROUTE ALL PIPING AS HIGH AS N. COORDINATE FINAL LOCATIONS OF NEW PIPING AND PLUMBING FIXTURES WITH EXISTING SYSTEMS, STRUCTURE, LIGHTING, ARCHITECTURAL ELEMENTS, DUCTWORK, PIPING AND SPRINKLERS. REFER TO PLUMBING DETAILS FOR ACCESSORIES AND FINAL CONNECTIONS TO PLUMBING EQUIPMENT. PROVIDE DRAIN VALVES WITH CAPPED HOSE END CONNECTIONS AT THE BOTTOM OF EACH RISER AND AT ALL LOW POINTS IN EACH PRESSURE PIPING SYSTEM. VERIFY WITH ACCESS PANEL LOCATIONS. PROVIDE SLEEVES AT EACH PENETRATION OF FIRE AND SMOKE RATED ASSEMBLIES AND SEAL WITH INTUMESCENT MATERIAL. CONNECT PIPE AND EQUIPMENT HANGERS TO TOP CHORD OF ROOF JOISTS. BEAM FLANGES OR CONCRETE FLOOR DECK BY APPROVED MEANS. . FOR PLUMBING PIPE SIZES, SEE RISER DIAGRAMS. ALL LAVATORIES AND HAND SINKS SHALL HAVE THERMOSTATIC MIXING VALVES BELOW THE SINKS TO MAINTAIN A MAXIMUM HOT WATER TEMPERATURE OF 110 DEGREES F. MIXING VALVE SHALL BE A WATTS SERIES LFUSG-B LEAD FREE OR REBALANCE THE BUILDING RECIRCULATED HOT WATER SYSTEM UPON COMPLETION OF NEW WORK. PROVIDE NEW, OR ADDITIONAL RECIRC. PUMP AS REQUIRED FOR A COMPLETE AND WORKING BUILDING CIRCULATED HOT WATER PROVIDE ISOLATION SHUT-OFF VALVES ON ALL PIPE RUNOUTS FROM MAINS TO PATIENT ROOMS ,FROM MAINS TO SINGLE PLUMBING FIXTURES, AND WEREVER SHOWN ON PLANS AND RISERS FIELD VERIFY ALL NEW WATER, WASTE, AND VENT CONNECTIONS, AND PROVIDE NEW CONNECTIONS AS REQUIRED FOR PROPERLY OPERATING SYSTEMS. . PITCH UNDERFLOOR SANITARY WASTE PIPING AT 1/4" PER FOOT, UNLESS NOTED OTHERWISE. WASTE AND VENT PIPING BELOW FLOOR AND THROUGH FLOOR SHALL BE 2" PROVIDE CLEANOUTS IN ACCESSIBLE LOCATIONS AT THE BASE OF ALL PLUMBING RISERS.



Professional Engineer I hereby certify that this plan, specification, or report was prepared by me or under my direct supervision and that I am a duly Licensed Professional Engineer under the laws of the state of Minnesota. That flething Typed or printed name: Chad Michael Eslinger Date: <u>01/07/2021</u> License Number: 48710





RENOVATE MH WARD 1L,1H, AND 1K

618-17-127 **Building Number**

DRAWING NO.

Office of Facilities Managemen



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1/8" = 1'-0" 1 Veterans Dr., Minneapolis, MN 55417 Plot Scale Approved: Service Director

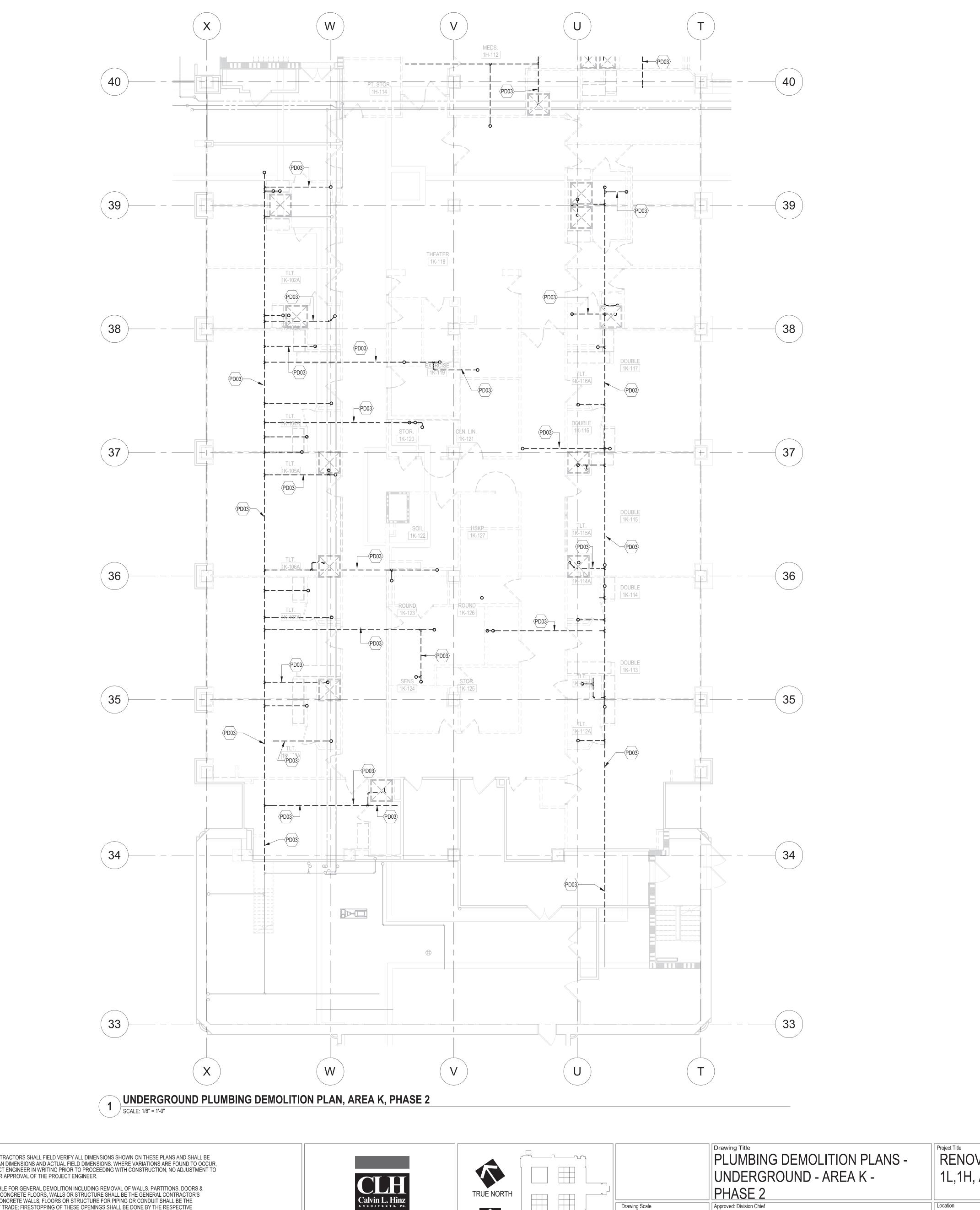
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DATE

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DESCRIPTION REMOVE ALL PIPING SHOWN AS DASHED. CAP PIPES BACK AT MAIN. VERIFY ALL PIPE SIZES AND LOCATIONS.

PLUMBING DEMOLITION NOTES

- . CONTRACTOR TO FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO THE START OF CONSTRUCTION. REPORT ANY DISCREPANCIES TO THE PROJECT ENGINEER PRIOR TO START OF DEMOLITION OF CONSTRUCTION ACTIVITIES.
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WITHOUT PRIOR COORDINATION AND APPROVAL OF THE WORK WITH THE

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- OR STRUCTURES BELOW. CONTRACTOR SHALL NOT STORE MATERIALS OR EQUIPMENT ON THE ROOF. PROVIDE FIRE PROTECTION EQUIPMENT (FIRE EXTINGUISHERS, ETC.) AS
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- AND ELECTRICAL DRAWINGS

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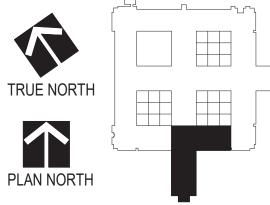
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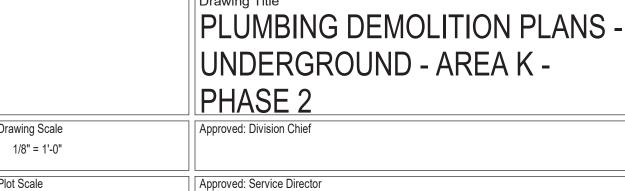
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one-eighth inch = one foot
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Plot Scale



RENOVATE MH WARD 1L,1H, AND 1K

GJH

1 Veterans Dr., Minneapolis, MN 55417

618-17-127 Building Number DRAWING NO.

1338 -

Office of **Facilities** Management

Typed or printed name: Chad Michael Eslinger Date: <u>01/07/2021</u> License Number: 48710



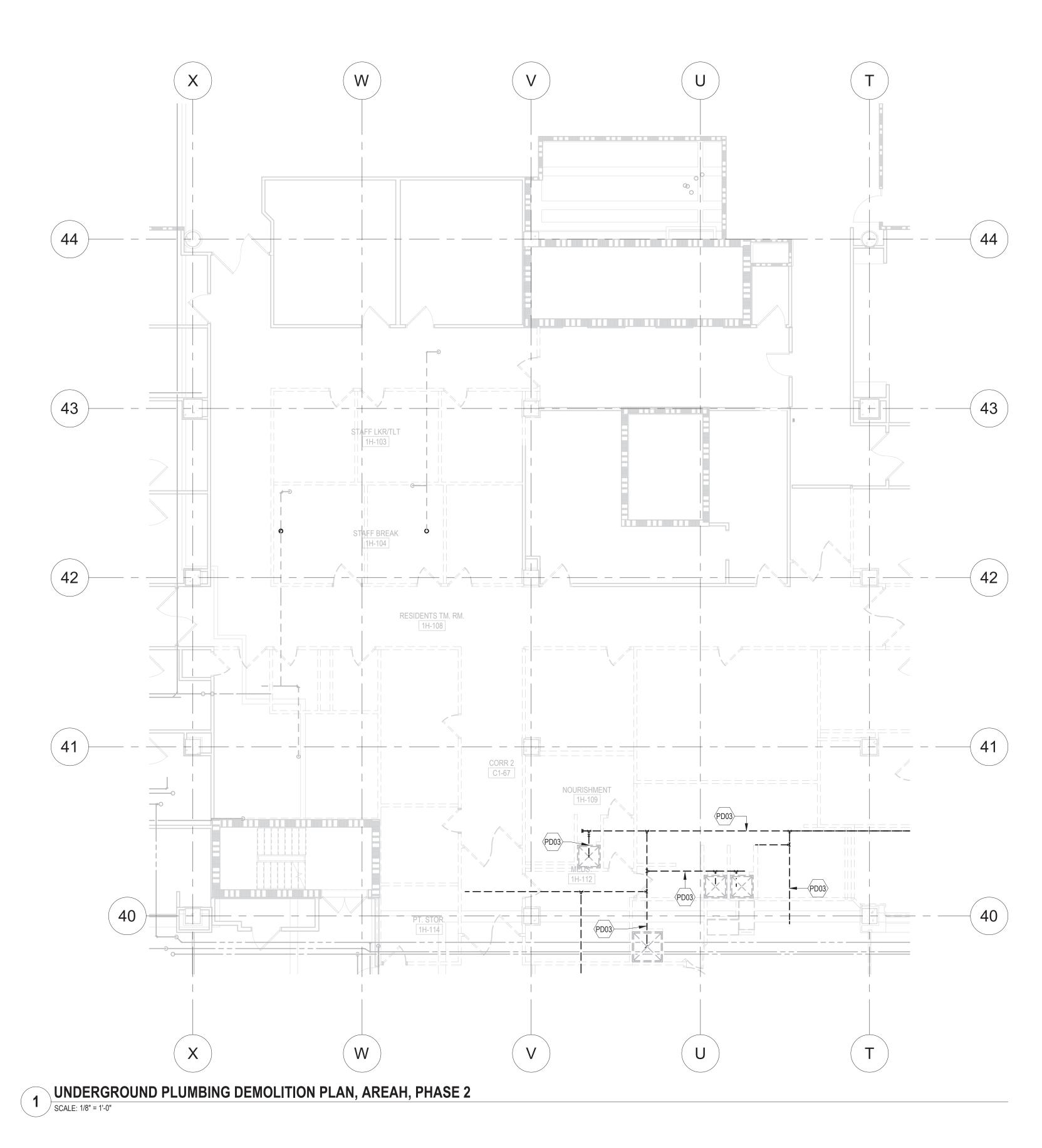
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ELECTRICAL DRAWINGS

CONDITIONS AT THE END OF EACH DAY. MAINTAIN WEATHER TIGHT CONDITIONS 24 HOURS A DAY FOR THE DURATION OF THE PROJECT. N. FOR ADDITIONAL DEMOLITION, SEE ARCHITECTURAL, HVAC, HVAC PIPING AND



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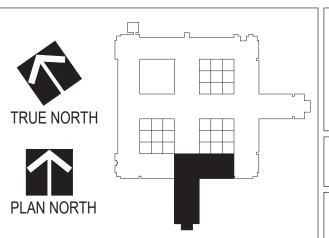
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16





	Drawing Title
	PLUMBING DEMOLITION PLANS - UNDERGROUND - AREA H -
	UNDERGROUND - AREA H -
	PHASE 2
ng Scale	Approved: Division Chief
3" = 1'-0"	

Approved: Service Director

RENOVATE MH WARD 1L,1H, AND 1K

1 Veterans Dr., Minneapolis, MN 55417

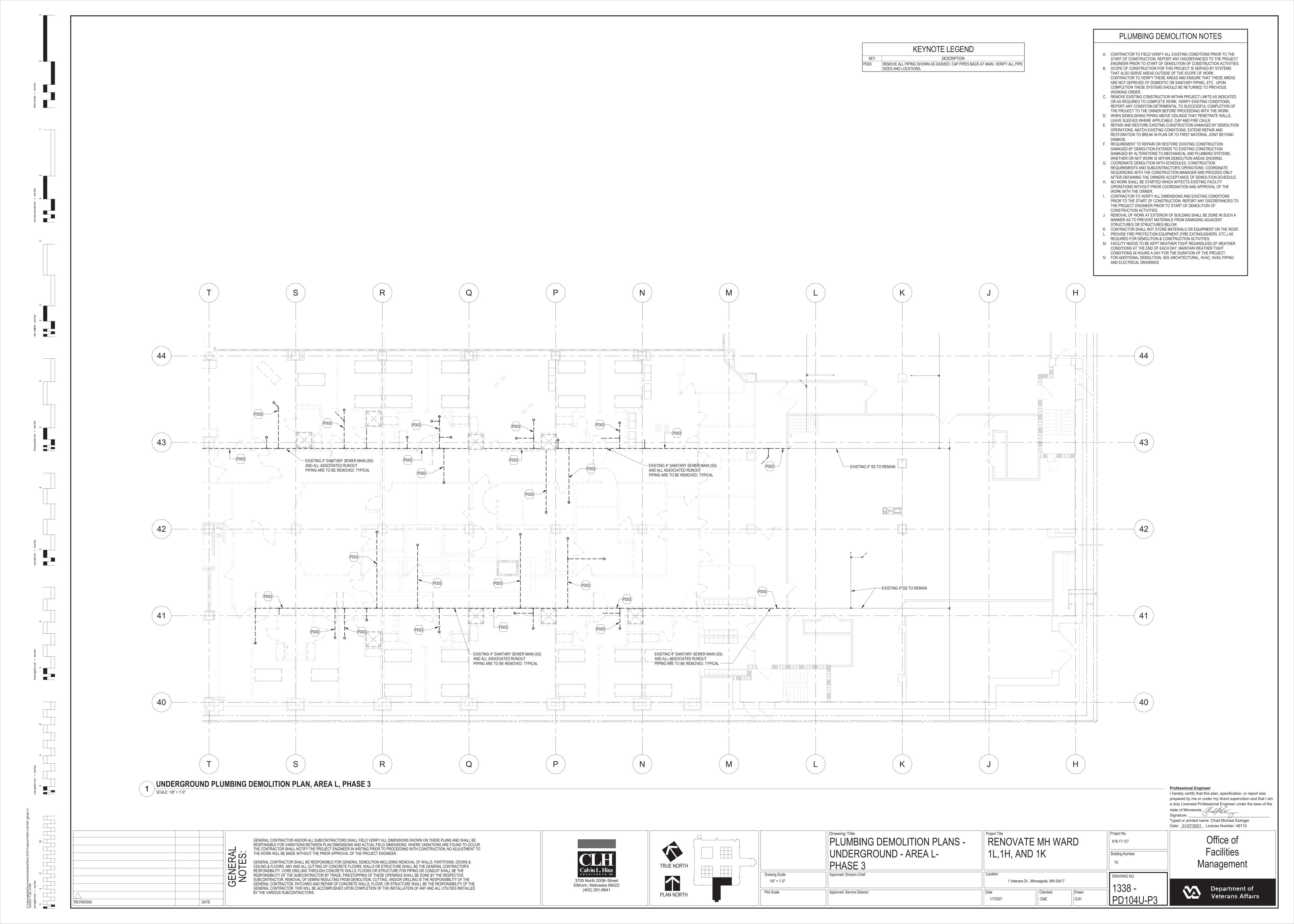
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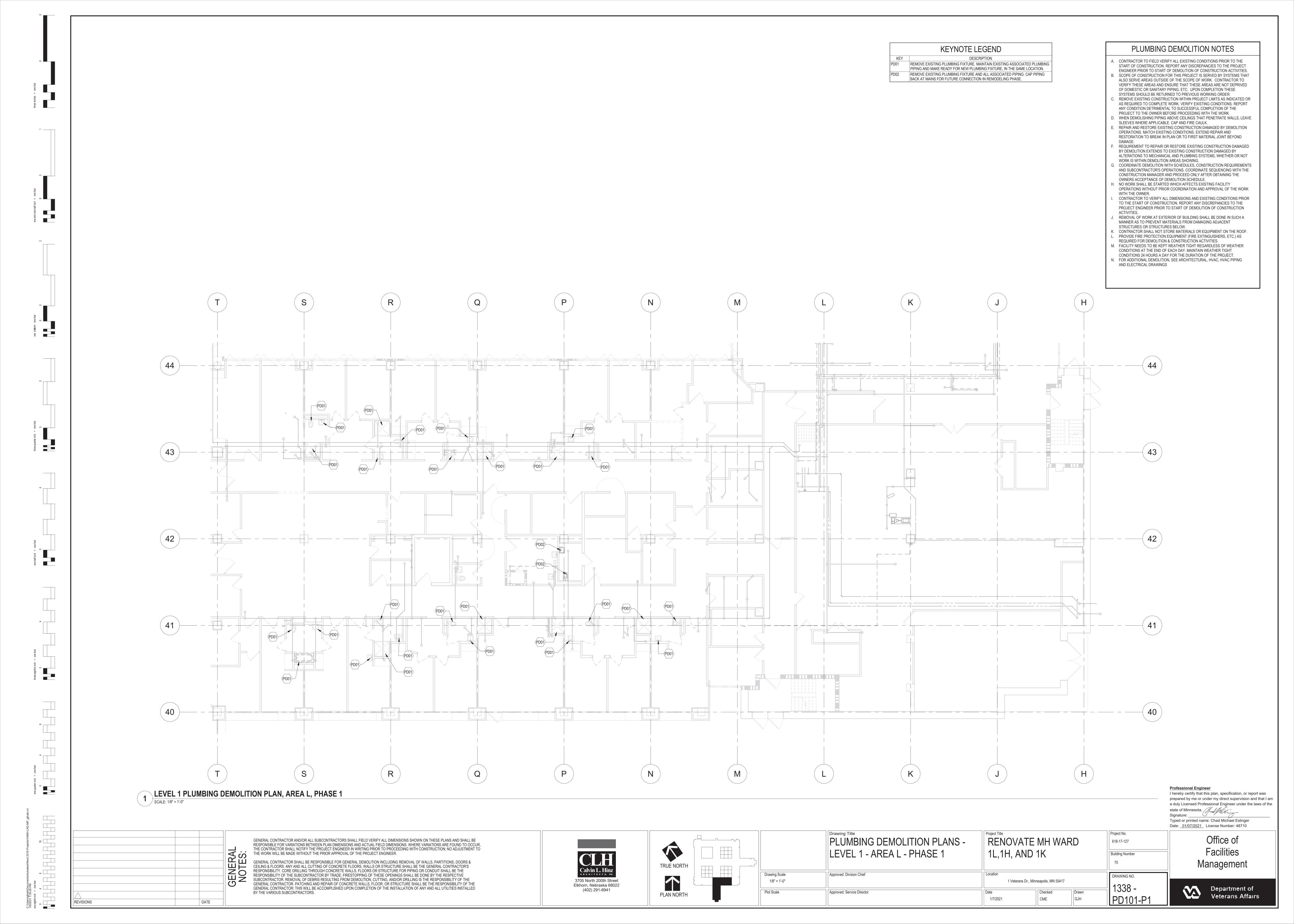
618-17-127 Building Number

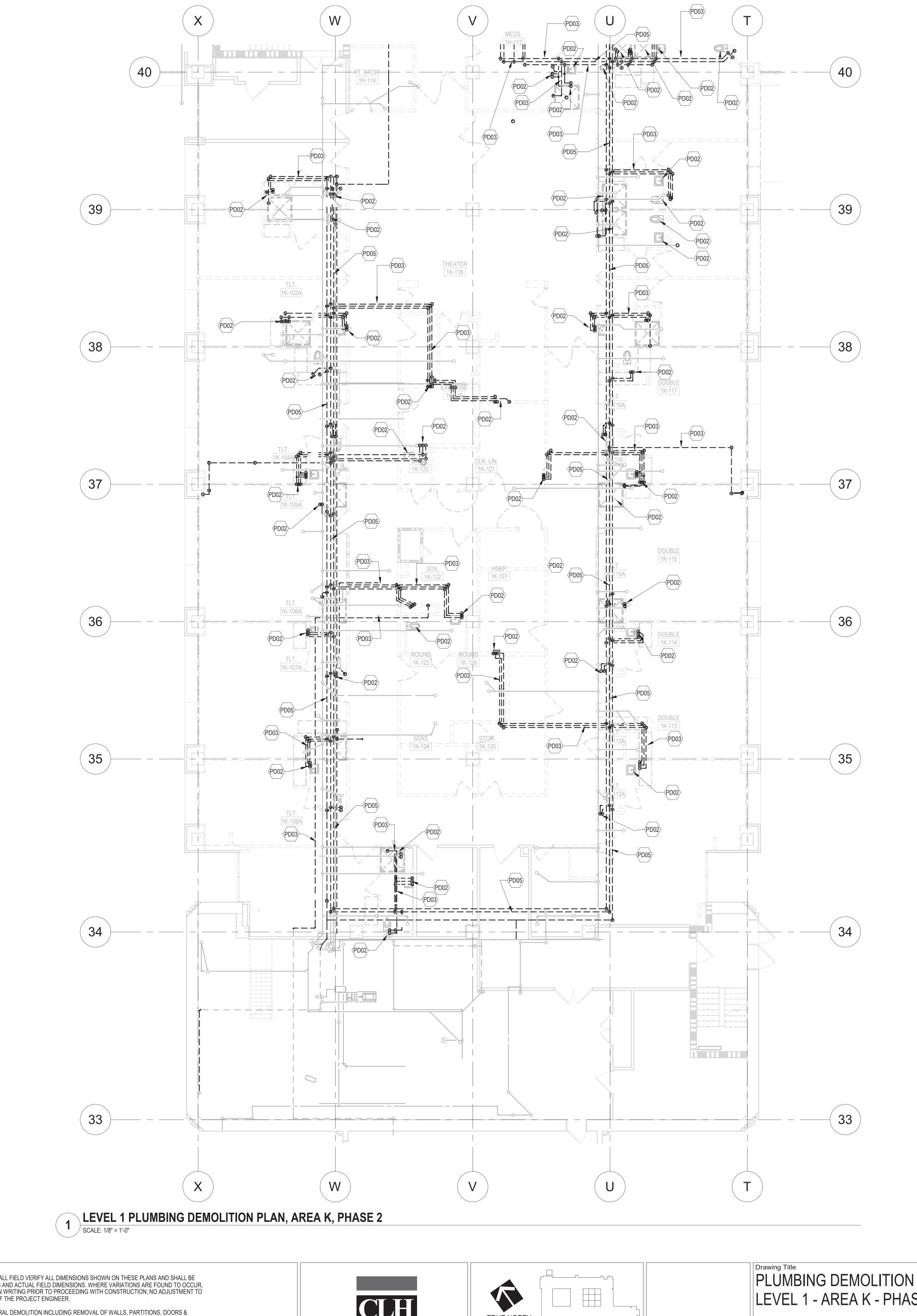
DRAWING NO.

1338 -









REMOVE EXISTING PLUMBING FIXTURE AND ALL ASSOCIATED PIPING. CAP PIPING BACK AT MAINS FOR FUTURE CONNECTION IN REMODELING PHASE. REMOVE ALL PIPING SHOWN AS DASHED. CAP PIPES BACK AT MAIN. VERIFY ALL PIPE SIZES AND LOCATIONS.

REMOVE EXISTING COLD WATER, HOT WATER, RECIRC HW AND SANITARY VENT MAINS AS SHOWN DASHED ON PLAN

PLUMBING DEMOLITION NOTES

- A. CONTRACTOR TO FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO THE START OF CONSTRUCTION. REPORT ANY DISCREPANCIES TO THE PROJECT ENGINEER PRIOR TO START OF DEMOLITION OF CONSTRUCTION ACTIVITIES.
- SCOPE OF CONSTRUCTION FOR THIS PROJECT IS SERVED BY SYSTEMS THAT ALSO SERVE AREAS OUTSIDE OF THE SCOPE OF WORK. CONTRACTOR TO VERIFY THESE AREAS AND ENSURE THAT THESE AREAS ARE NOT DEPRIVED OF DOMESTIC OR SANITARY PIPING, ETC. UPON COMPLETION THESE SYSTEMS SHOULD BE RETURNED TO PREVIOUS
- WORKING ORDER. REMOVE EXISTING CONSTRUCTION WITHIN PROJECT LIMITS AS INDICATED OR AS REQUIRED TO COMPLETE WORK. VERIFY EXISTING CONDITIONS. REPORT ANY CONDITION DETRIMENTAL TO SUCCESSFUL COMPLETION OF THE PROJECT TO THE OWNER BEFORE PROCEEDING WITH THE WORK.
- WHEN DEMOLISHING PIPING ABOVE CEILINGS THAT PENETRATE WALLS, LEAVE SLEEVES WHERE APPLICABLE. CAP AND FIRE CAULK. REPAIR AND RESTORE EXISTING CONSTRUCTION DAMAGED BY DEMOLITION OPERATIONS. MATCH EXISTING CONDITIONS. EXTEND REPAIR AND RESTORATION TO BREAK IN PLAN OR TO FIRST MATERIAL JOINT
- BEYOND DAMAGE. REQUIREMENT TO REPAIR OR RESTORE EXISTING CONSTRUCTION DAMAGED BY DEMOLITION EXTENDS TO EXISTING CONSTRUCTION DAMAGED BY ALTERATIONS TO MECHANICAL AND PLUMBING SYSTEMS,
- WHETHER OR NOT WORK IS WITHIN DEMOLITION AREAS SHOWING. COORDINATE DEMOLITION WITH SCHEDULES, CONSTRUCTION REQUIREMENTS AND SUBCONTRACTOR'S OPERATIONS. COORDINATE SEQUENCING WITH THE CONSTRUCTION MANAGER AND PROCEED ONLY AFTER OBTAINING THE OWNERS ACCEPTANCE OF DEMOLITION SCHEDULE.
- NO WORK SHALL BE STARTED WHICH AFFECTS EXISTING FACILITY OPERATIONS WITHOUT PRIOR COORDINATION AND APPROVAL OF THE WORK WITH THE OWNER. CONTRACTOR TO VERIFY ALL DIMENSIONS AND EXISTING CONDITIONS PRIOR TO THE START OF CONSTRUCTION. REPORT ANY DISCREPANCIES TO THE PROJECT ENGINEER PRIOR TO START OF DEMOLITION OF CONSTRUCTION ACTIVITIES.
- REMOVAL OF WORK AT EXTERIOR OF BUILDING SHALL BE DONE IN SUCH A MANNER AS TO PREVENT MATERIALS FROM DAMAGING ADJACENT
- STRUCTURES OR STRUCTURES BELOW. CONTRACTOR SHALL NOT STORE MATERIALS OR EQUIPMENT ON THE
- PROVIDE FIRE PROTECTION EQUIPMENT (FIRE EXTINGUISHERS, ETC.) AS
- REQUIRED FOR DEMOLITION & CONSTRUCTION ACTIVITIES. M. FACILITY NEEDS TO BE KEPT WEATHER TIGHT REGARDLESS OF WEATHER
- CONDITIONS AT THE END OF EACH DAY. MAINTAIN WEATHER TIGHT CONDITIONS 24 HOURS A DAY FOR THE DURATION OF THE PROJECT.
- N. FOR ADDITIONAL DEMOLITION, SEE ARCHITECTURAL, HVAC, HVAC PIPING AND ELECTRICAL DRAWINGS

Professional Engineer I hereby certify that this plan, specification, or report was prepared by me or under my direct supervision and that I am a duly Licensed Professional Engineer under the laws of the state of Minnesota. [Jud] Miching Typed or printed name: Chad Michael Eslinger

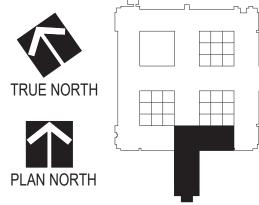
Date: <u>01/07/2021</u> License Number: 48710

GENERAL CONTRACTOR AND/OR ALL SUBCONTRACTORS SHALL FIELD VERIFY ALL DIMENSIONS SHOWN ON THESE PLANS AND SHALL BE RESPONSIBLE FOR VARIATIONS BETWEEN PLAN DIMENSIONS AND ACTUAL FIELD DIMENSIONS. WHERE VARIATIONS ARE FOUND TO OCCUR, THE CONTRACTOR SHALL NOTIFY THE PROJECT ENGINEER IN WRITING PRIOR TO PROCEEDING WITH CONSTRUCTION; NO ADJUSTMENT TO THE CONTRACTOR SHALL NOTIFY THE PROJECT ENGINEER IN WRITING PRIOR TO PROCEEDING WITH CONSTRUCTION; NO ADJUSTMENT THE WORK WILL BE MADE WITHOUT THE PRIOR APPROVAL OF THE PROJECT ENGINEER.

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DATE





1/8" = 1'-0"

Plot Scale



Approved: Service Director

RENOVATE MH WARD 1L,1H, AND 1K

1 Veterans Dr., Minneapolis, MN 55417

GJH

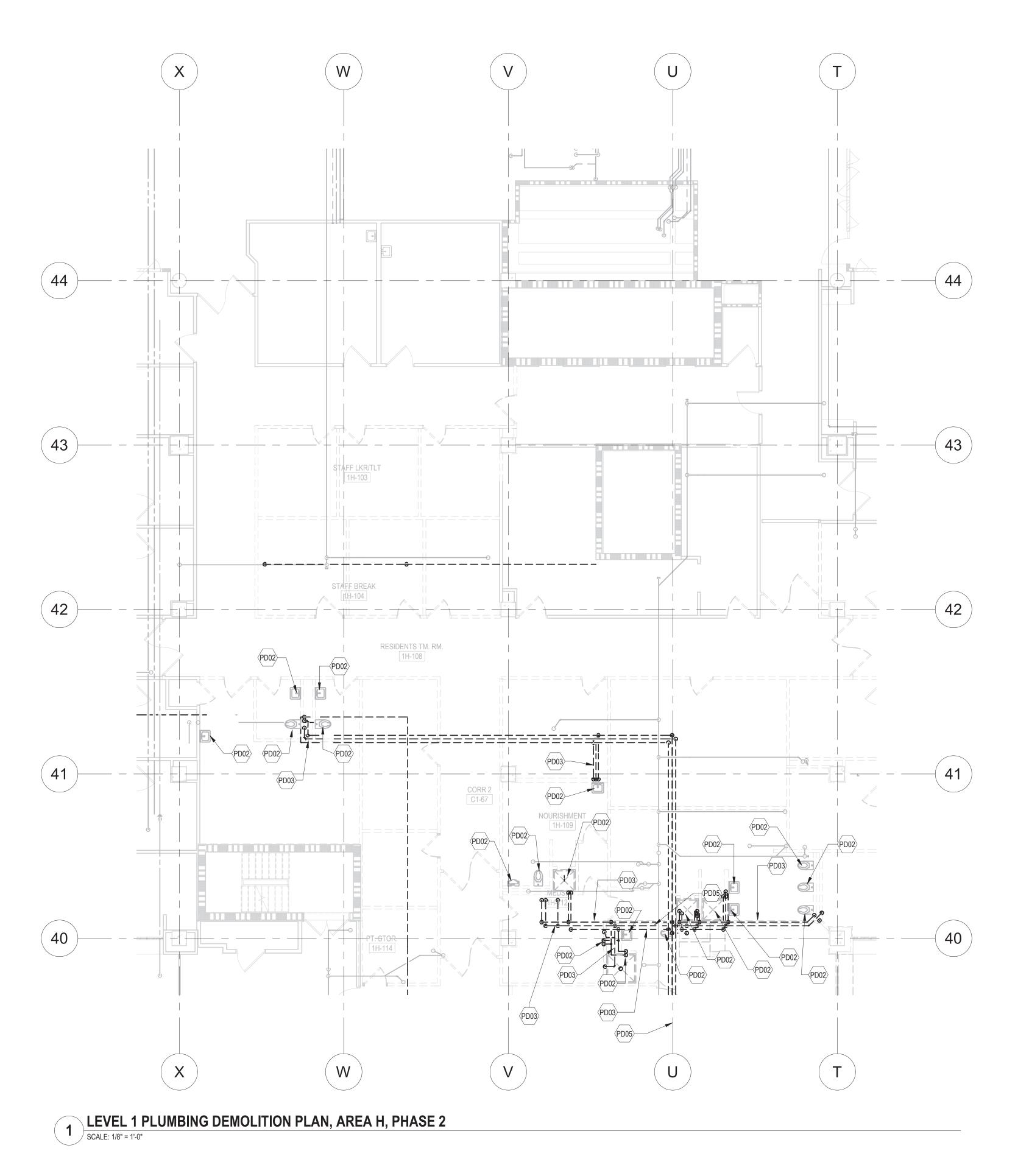
618-17-127 Building Number

DRAWING NO.

1338 -

Office of **Facilities** Management





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AND ELECTRICAL DRAWINGS

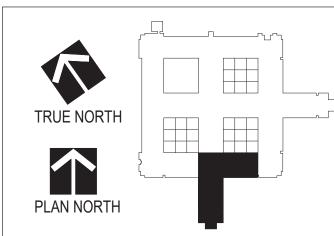
Professional Engineer I hereby certify that this plan, specification, or report was prepared by me or under my direct supervision and that I am a duly Licensed Professional Engineer under the laws of the state of Minnesota. [Jud] Miching Typed or printed name: Chad Michael Eslinger Date: <u>01/07/2021</u> License Number: 48710

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	PLUMBING DEMOLITION PLANS LEVEL 1 - AREA H - PHASE 2
awing Scale 1/8" = 1'-0"	Approved: Division Chief
ot Scale	Approved: Service Director

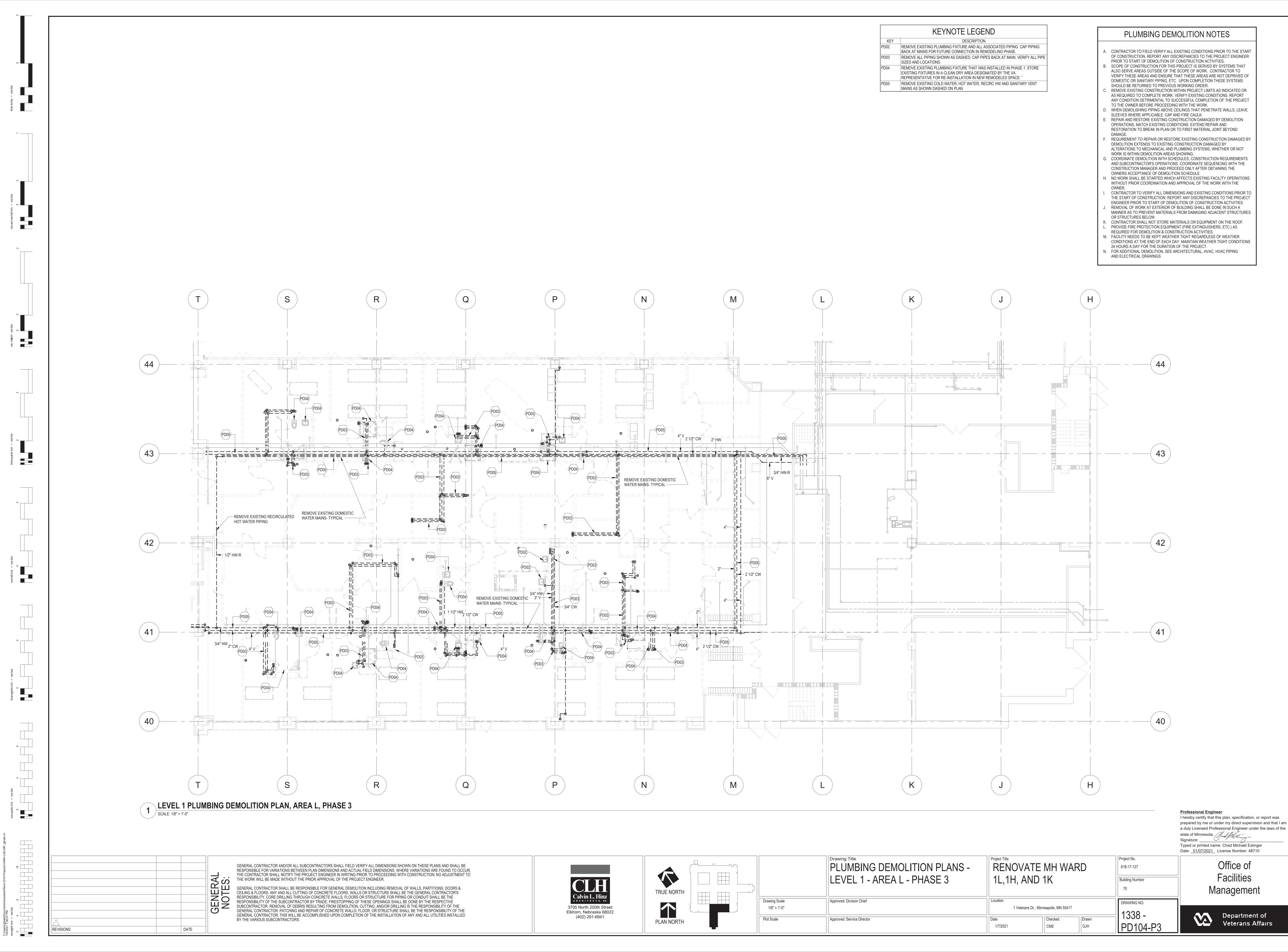
IS -	RENOVATE MH WARD 1L,1H, AND 1K
	Location
	1 Veterans Dr., Minneapolis, MN 55417

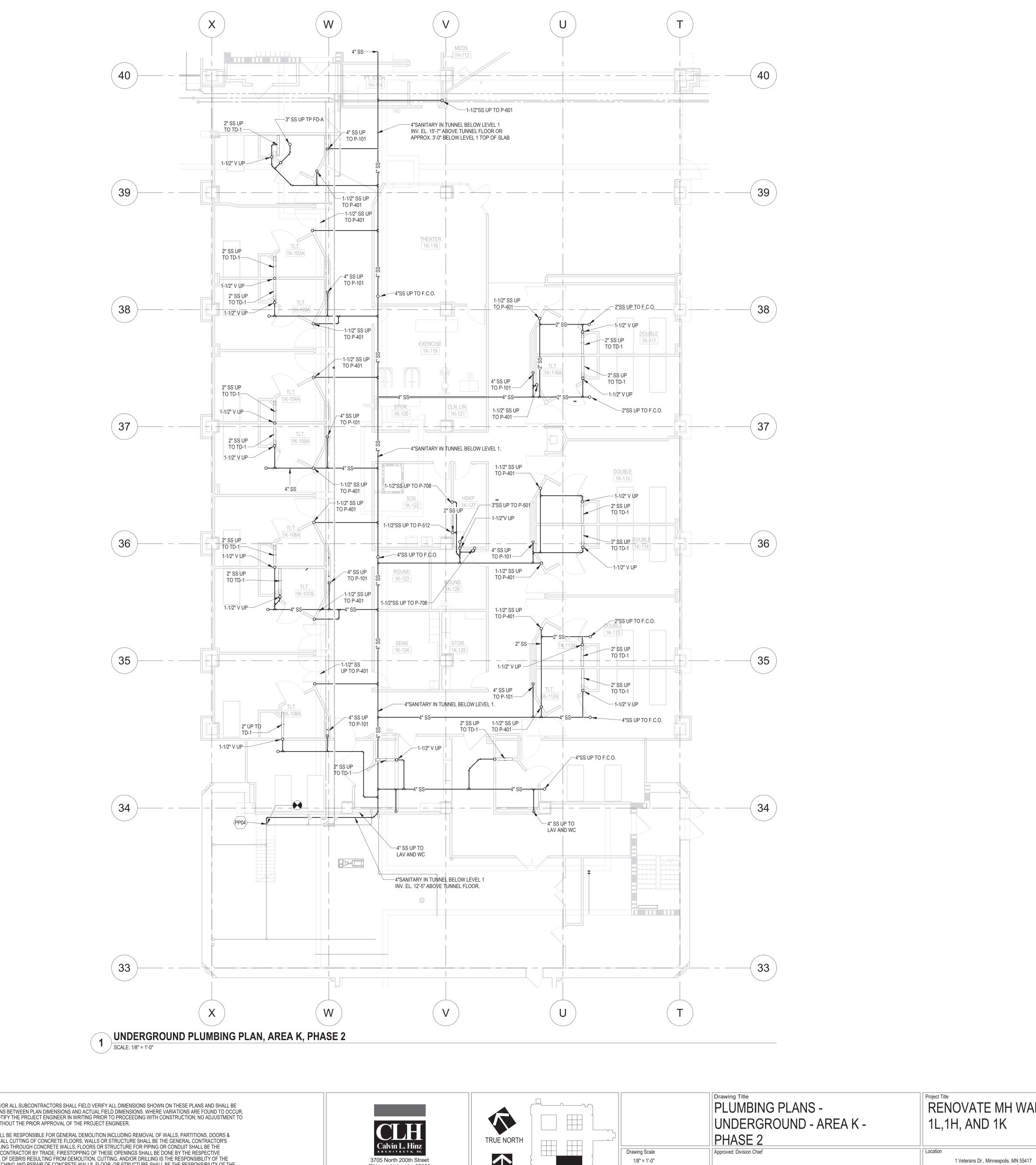
Project Title

618-17-127 Building Number

DRAWING NO.







DESCRIPTION CONNECT TO EXISTING MINIMUM 4" SANITARY SEWER. VERIFY INVERT ELEVATION AND DIRECTION OF FLOW BEFORE MAKING CONNECTIONS.

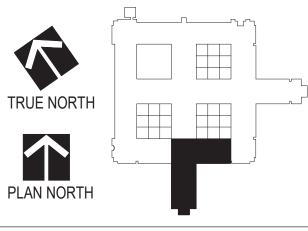
> Professional Engineer I hereby certify that this plan, specification, or report was prepared by me or under my direct supervision and that I am a duly Licensed Professional Engineer under the laws of the state of Minnesota. Jud Miching Typed or printed name: Chad Michael Eslinger Date: 01/07/2021 License Number: 48710

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	PLUMBING PLANS - UNDERGROUND - AREA K - PHASE 2
Scale = 1'-0"	Approved: Division Chief
le	Approved: Service Director

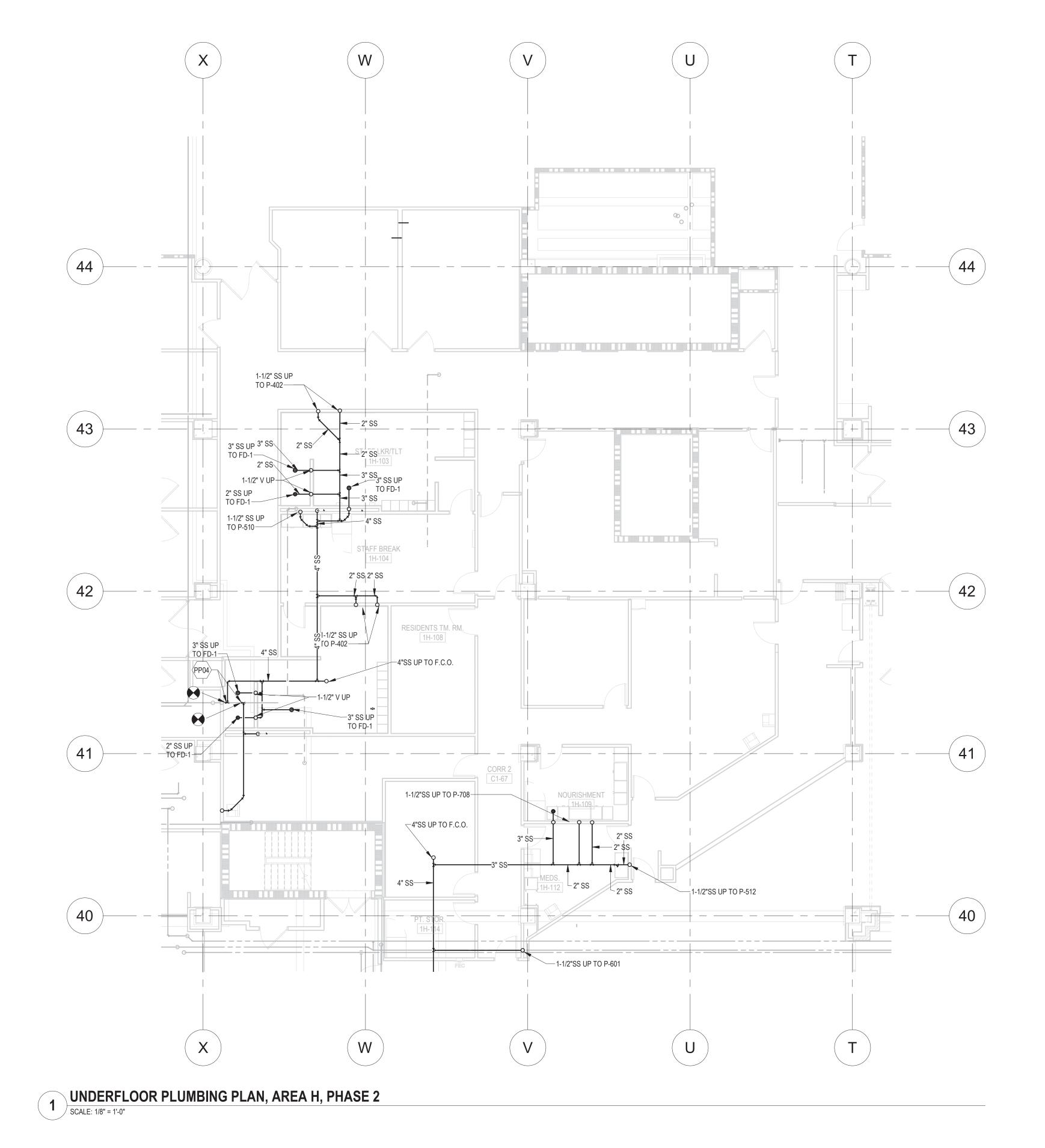
RENOVATE MH WARD 1L,1H, AND 1K

GJH

618-17-127 Building Number DRAWING NO.

1338 -





Professional Engineer
I hereby certify that this plan, specification, or report was prepared by me or under my direct supervision and that I am a duly Licensed Professional Engineer under the laws of the state of Minnesota.

Signature:

Typed or printed name: Chad Michael Eslinger
Date: 01/07/2021 License Number: 48710

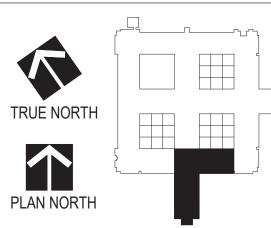
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DATE

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	PLUMBING PLANS - UNDERGROUND- AREA H - PHASE 2
awing Scale 1/8" = 1'-0"	Approved: Division Chief
ot Scale	Approved: Service Director

Project Title
RENOVATE MH WARD
1L,1H, AND 1K
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Location

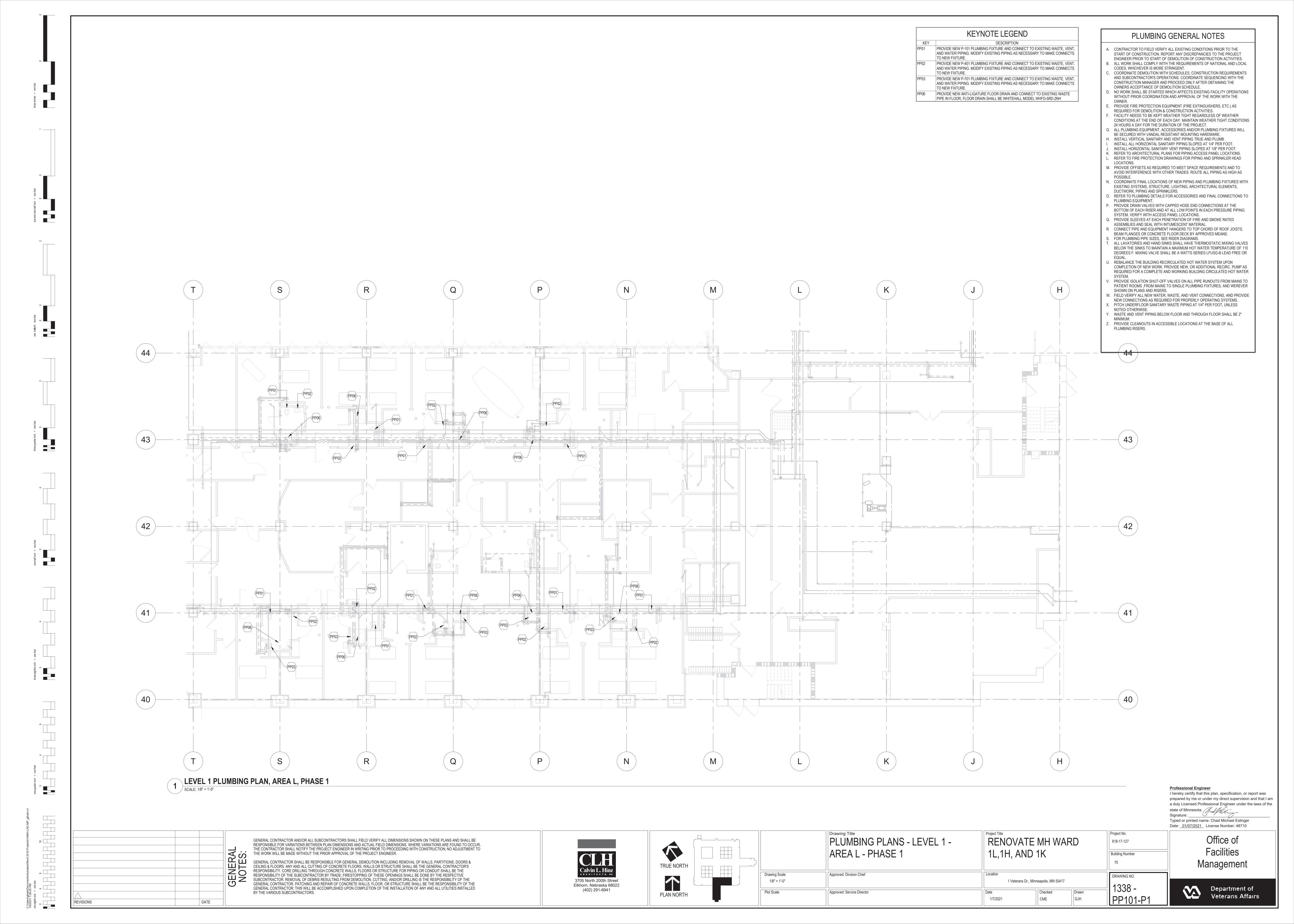
1 Veterans Dr., Minneapolis, MN 55417

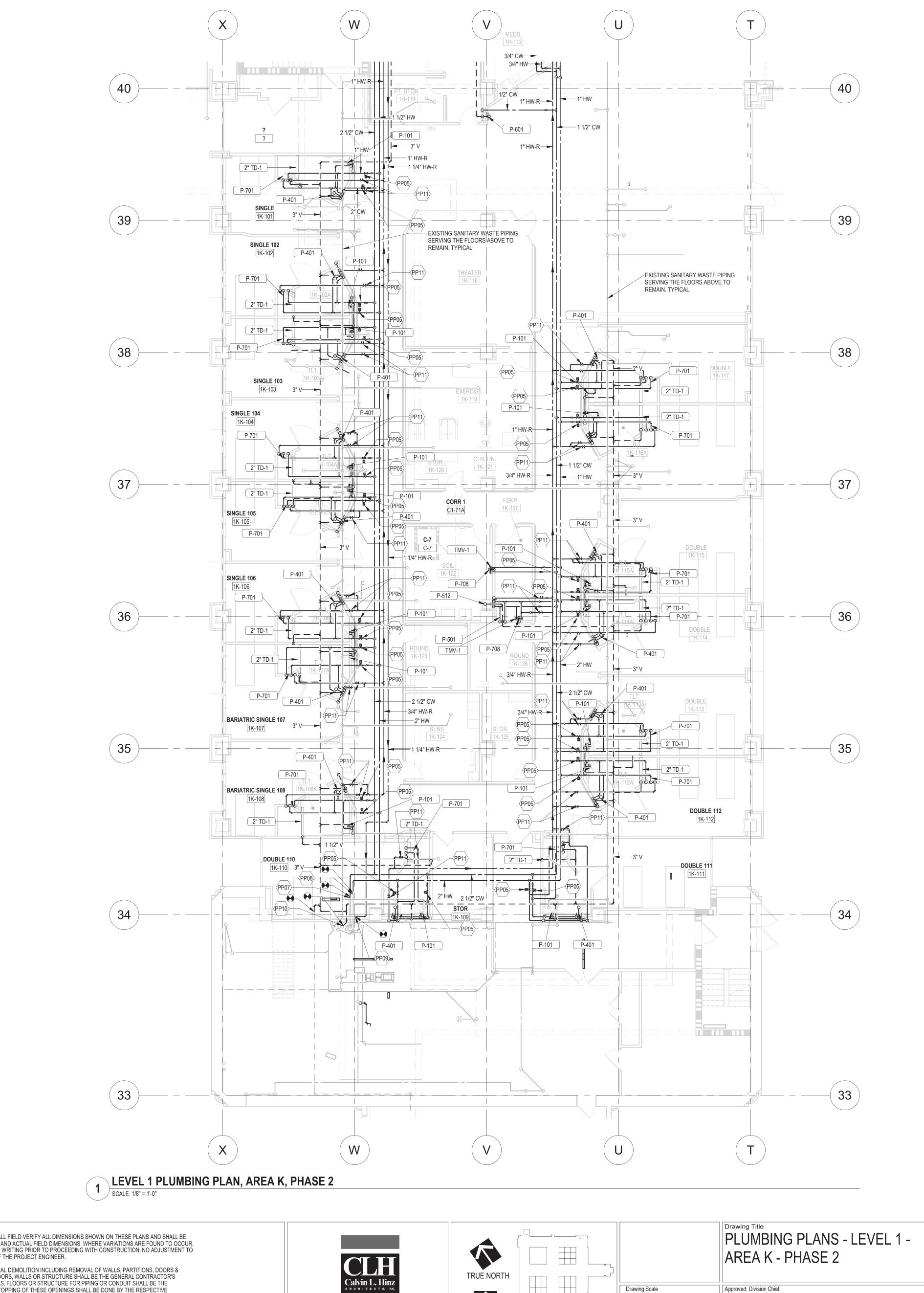
Project No.	
618-17-127	
Building Number	
70	
DRAWING NO.	

Office of Facilities

Management







- PROVIDE SOLENOID SHUT OFF VALVE ON EACH HOT AND COLD WATER LINE THAT SERVES AN INDIVIDUAL PATIENT ROOM. THE SOLENOID VALVE SHALL BE CONTROLLED BY A USER PROGRAMMABLE TOUCH SCREEN DIGITAL MONITOR LOCATED IN A PANEL BACK IN THE NURSES STATION.
- OF EXISTING PIPING. CONNECT TO EXISTING MINIMUM 2" HOT WATER MAIN. VERIFY SIZE AND LOCATION OF EXISTING PIPING. CONNECT TO EXISTING MINIMUM 1-1/2" RECIRCULATED HOT WATER MAIN. VERIFY

CONNECT TO EXISTING MINIMUM 3" COLD WATER MAIN. VERIFY SIZE AND LOCATION

- SIZE AND LOCATION OF EXISTING PIPING. CONNECT NEW SANITARY VENTS TO EXISTING VENT RISER. VERIFY SIZE AND LOCATION OF EXISTING RISER.
- PROVIDE BALANCE VALVE ON RECIRCULATED HOT WATER RETURNS . BALANCE FLOW TO .25 GPM

PLUMBING GENERAL NOTES

- A. CONTRACTOR TO FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO THE START OF CONSTRUCTION. REPORT ANY DISCREPANCIES TO THE PROJECT
- ENGINEER PRIOR TO START OF DEMOLITION OF CONSTRUCTION ACTIVITIES. B. ALL WORK SHALL COMPLY WITH THE REQUIREMENTS OF NATIONAL AND LOCAL CODES, WHICHEVER IS MORE STRINGENT.
- COORDINATE DEMOLITION WITH SCHEDULES, CONSTRUCTION REQUIREMENTS AND SUBCONTRACTOR'S OPERATIONS. COORDINATE SEQUENCING WITH THE CONSTRUCTION MANAGER AND PROCEED ONLY AFTER OBTAINING THE
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- CONDITIONS AT THE END OF EACH DAY. MAINTAIN WEATHER TIGHT CONDITIONS 24 HOURS A DAY FOR THE DURATION OF THE PROJECT. ALL PLUMBING EQUIPMENT, ACCESSORIES AND/OR PLUMBING FIXTURES WILL
- BE SECURED WITH VANDAL RESISTANT MOUNTING HARDWARE. INSTALL VERTICAL SANITARY AND VENT PIPING TRUE AND PLUMB.
- INSTALL ALL HORIZONTAL SANITARY PIPING SLOPED AT 1/4" PER FOOT. INSTALL HORIZONTAL SANITARY VENT PIPING SLOPED AT 1/8" PER FOOT. K. REFER TO ARCHITECTURAL PLANS FOR PIPING ACCESS PANEL LOCATIONS.
- . REFER TO FIRE PROTECTION DRAWINGS FOR PIPING AND SPRINKLER HEAD LOCATIONS. PROVIDE OFFSETS AS REQUIRED TO MEET SPACE REQUIREMENTS AND TO
- AVOID INTERFERENCE WITH OTHER TRADES. ROUTE ALL PIPING AS HIGH AS I. COORDINATE FINAL LOCATIONS OF NEW PIPING AND PLUMBING FIXTURES WITH
- EXISTING SYSTEMS, STRUCTURE, LIGHTING, ARCHITECTURAL ELEMENTS, DUCTWORK, PIPING AND SPRINKLERS.
- REFER TO PLUMBING DETAILS FOR ACCESSORIES AND FINAL CONNECTIONS TO PLUMBING EQUIPMENT.
- PROVIDE DRAIN VALVES WITH CAPPED HOSE END CONNECTIONS AT THE
- BOTTOM OF EACH RISER AND AT ALL LOW POINTS IN EACH PRESSURE PIPING SYSTEM. VERIFY WITH ACCESS PANEL LOCATIONS.
- PROVIDE SLEEVES AT EACH PENETRATION OF FIRE AND SMOKE RATED ASSEMBLIES AND SEAL WITH INTUMESCENT MATERIAL. CONNECT PIPE AND EQUIPMENT HANGERS TO TOP CHORD OF ROOF JOISTS,
- BEAM FLANGES OR CONCRETE FLOOR DECK BY APPROVED MEANS. FOR PLUMBING PIPE SIZES, SEE RISER DIAGRAMS. ALL LAVATORIES AND HAND SINKS SHALL HAVE THERMOSTATIC MIXING VALVES BELOW THE SINKS TO MAINTAIN A MAXIMUM HOT WATER TEMPERATURE OF 110
- DEGREES F. MIXING VALVE SHALL BE A WATTS SERIES LFUSG-B LEAD FREE OR REBALANCE THE BUILDING RECIRCULATED HOT WATER SYSTEM UPON
- COMPLETION OF NEW WORK. PROVIDE NEW, OR ADDITIONAL RECIRC. PUMP AS REQUIRED FOR A COMPLETE AND WORKING BUILDING CIRCULATED HOT WATER
- PROVIDE ISOLATION SHUT-OFF VALVES ON ALL PIPE RUNOUTS FROM MAINS TO PATIENT ROOMS ,FROM MAINS TO SINGLE PLUMBING FIXTURES, AND WEREVER SHOWN ON PLANS AND RISERS.
- FIELD VERIFY ALL NEW WATER, WASTE, AND VENT CONNECTIONS, AND PROVIDE NEW CONNECTIONS AS REQUIRED FOR PROPERLY OPERATING SYSTEMS. PITCH UNDERFLOOR SANITARY WASTE PIPING AT 1/4" PER FOOT, UNLESS
- NOTED OTHERWISE. WASTE AND VENT PIPING BELOW FLOOR AND THROUGH FLOOR SHALL BE 2"
- MINIMUM. PROVIDE CLEANOUTS IN ACCESSIBLE LOCATIONS AT THE BASE OF ALL

PLUMBING RISERS.

Professional Engineer I hereby certify that this plan, specification, or report was prepared by me or under my direct supervision and that I am a duly Licensed Professional Engineer under the laws of the state of Minnesota. [Jud] Miching Typed or printed name: Chad Michael Eslinger Date: <u>01/07/2021</u> License Number: 48710

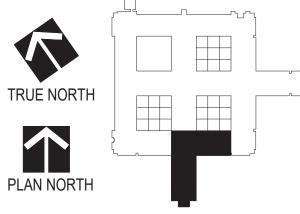
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DATE

16





	PLUMBING PLANS AREA K - PHASE 2
Drawing Scale 1/8" = 1'-0"	Approved: Division Chief
Plot Scale	Approved: Service Director

RENOVATE MH WARD 1L,1H, AND 1K 1 Veterans Dr., Minneapolis, MN 55417

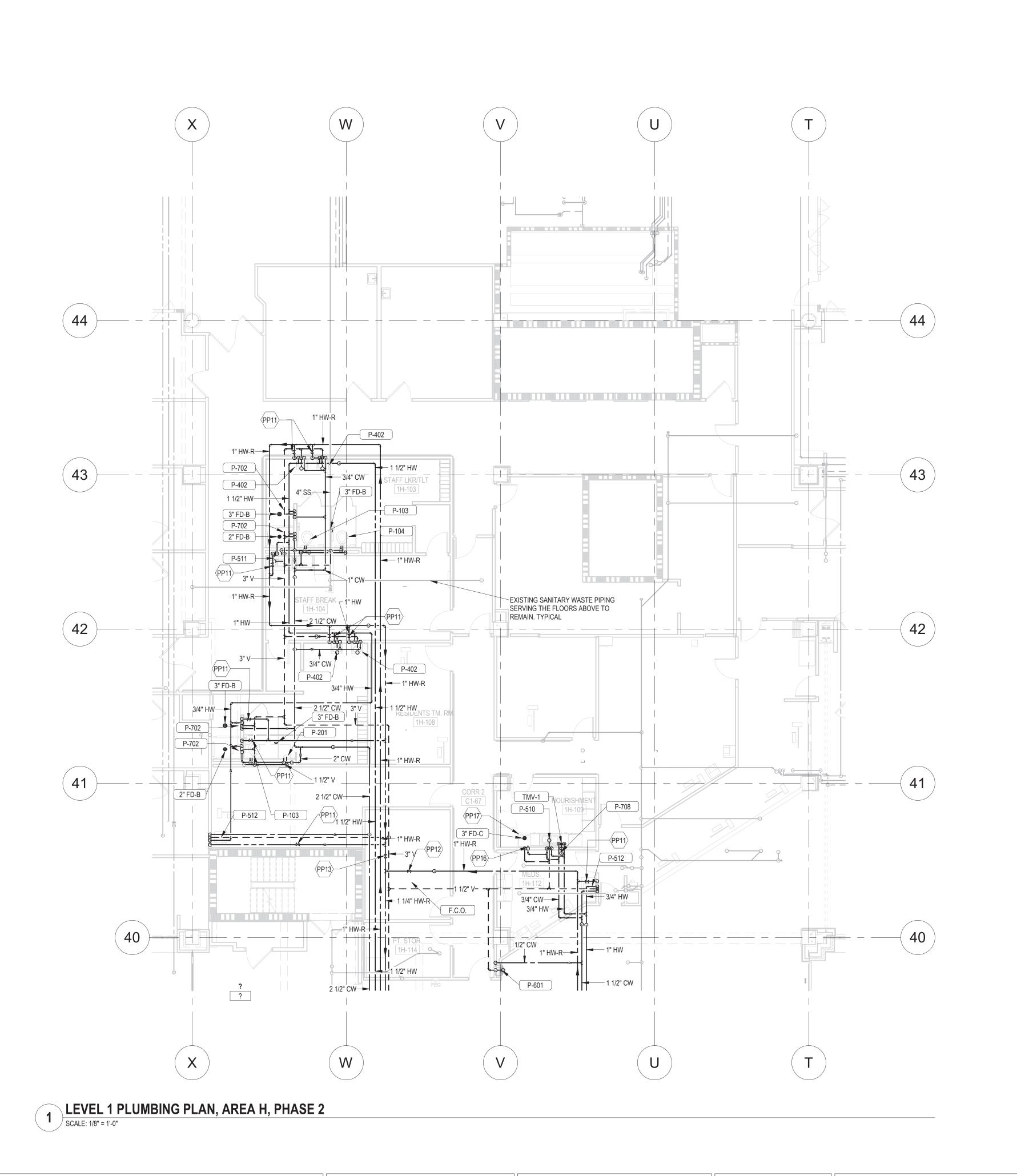
618-17-127 Building Number DRAWING NO.

1338 -

GJH

Office of **Facilities** Management





- 1 PROVIDE BALANCE VALVE ON RECIRCULATED HOT WATER RETURNS . BALANCE FLOW TO .25 GPM
- PP12 PROVIDE BALANCE VALVE ON RECIRCULATED HOT WATER RETURN MAIN. BALANCE FLOW TO 4.5 GPM
- PP13 PROVIDE BALANCE VALVE ON RECIRCULATED HOT WATER RETURN MAIN. BALANCE FLOW TO 5.75 GPM
 PP16 1/2" CW DOWN TO ICE/WATER DISPENSER. STUB OUT OF WALL AND PROVIDE BALL
- VALVE, BACKFLOW PREVENTER AND WATER FILTER.

 PROVIDE 3/4" COPPER DRAIN FROM ICE/WATER DISPENSER DRAIN CONNECTION DOWN TO FUNNEL FLOOR DRAIN BELOW COUNTER. PROVIDE 1" MINIMUM AIR GAP.

PLUMBING GENERAL NOTES

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 COORDINATE DEMOLITION WITH SCHEDULES, CONSTRUCTION REQUIREMENTS AND SUBCONTRACTOR'S OPERATIONS. COORDINATE SEQUENCING WITH THE
- CONSTRUCTION MANAGER AND PROCEED ONLY AFTER OBTAINING THE OWNERS ACCEPTANCE OF DEMOLITION SCHEDULE.

 D. NO WORK SHALL BE STARTED WHICH AFFECTS EXISTING FACILITY OPERATIONS
- WITHOUT PRIOR COORDINATION AND APPROVAL OF THE WORK WITH THE OWNER.
- E. PROVIDE FIRE PROTECTION EQUIPMENT (FIRE EXTINGUISHERS, ETC.) AS REQUIRED FOR DEMOLITION & CONSTRUCTION ACTIVITIES.
- F. FACILITY NEEDS TO BE KEPT WEATHER TIGHT REGARDLESS OF WEATHER CONDITIONS AT THE END OF EACH DAY. MAINTAIN WEATHER TIGHT CONDITIONS 24 HOURS A DAY FOR THE DURATION OF THE PROJECT
- 24 HOURS A DAY FOR THE DURATION OF THE PROJECT.
 G. ALL PLUMBING EQUIPMENT, ACCESSORIES AND/OR PLUMBING FIXTURES WILL
- BE SECURED WITH VANDAL RESISTANT MOUNTING HARDWARE.

 I. INSTALL VERTICAL SANITARY AND VENT PIPING TRUE AND PLUMB.
- INSTALL ALL HORIZONTAL SANITARY PIPING SLOPED AT 1/4" PER FOOT.
 INSTALL HORIZONTAL SANITARY VENT PIPING SLOPED AT 1/8" PER FOOT.
- K. REFER TO ARCHITECTURAL PLANS FOR PIPING ACCESS PANEL LOCATIONS.

 L. REFER TO FIRE PROTECTION DRAWINGS FOR PIPING AND SPRINKLER HEAD
- M. PROVIDE OFFSETS AS REQUIRED TO MEET SPACE REQUIREMENTS AND TO
- AVOID INTERFERENCE WITH OTHER TRADES. ROUTE ALL PIPING AS HIGH AS POSSIBLE
- N. COORDINATE FINAL LOCATIONS OF NEW PIPING AND PLUMBING FIXTURES WITH EXISTING SYSTEMS, STRUCTURE, LIGHTING, ARCHITECTURAL ELEMENTS,
- DUCTWORK, PIPING AND SPRINKLERS.

 O. REFER TO PLUMBING DETAILS FOR ACCESSORIES AND FINAL CONNECTIONS TO
- PLUMBING DETAILS FOR ACCESSORIES AND FINAL CONNECTIONS
 PLUMBING EQUIPMENT.
- P. PROVIDE DRAIN VALVES WITH CAPPED HOSE END CONNECTIONS AT THE BOTTOM OF EACH RISER AND AT ALL LOW POINTS IN EACH PRESSURE PIPING
- SYSTEM. VERIFY WITH ACCESS PANEL LOCATIONS.

 Q. PROVIDE SLEEVES AT EACH PENETRATION OF FIRE AND SMOKE RATED
- ASSEMBLIES AND SEAL WITH INTUMESCENT MATERIAL.

 R. CONNECT PIPE AND EQUIPMENT HANGERS TO TOP CHORD OF ROOF JOISTS,
- BEAM FLANGES OR CONCRETE FLOOR DECK BY APPROVED MEANS.

 S. FOR PLUMBING PIPE SIZES, SEE RISER DIAGRAMS.

 T. ALL LAVATORIES AND HAND SINKS SHALL HAVE THERMOSTATIC MIXING VALVES BELOW THE SINKS TO MAINTAIN A MAXIMUM HOT WATER TEMPERATURE OF 110
- U. REBALANCE THE BUILDING RECIRCULATED HOT WATER SYSTEM UPON COMPLETION OF NEW WORK. PROVIDE NEW, OR ADDITIONAL RECIRC. PUMP AS REQUIRED FOR A COMPLETE AND WORKING BUILDING CIRCULATED HOT WATER

DEGREES F. MIXING VALVE SHALL BE A WATTS SERIES LFUSG-B LEAD FREE OR

- V. PROVIDE ISOLATION SHUT-OFF VALVES ON ALL PIPE RUNOUTS FROM MAINS TO PATIENT ROOMS ,FROM MAINS TO SINGLE PLUMBING FIXTURES, AND WEREVER SHOWN ON PLANS AND RISERS.
- SHOWN ON PLANS AND RISERS.

 W. FIELD VERIFY ALL NEW WATER, WASTE, AND VENT CONNECTIONS, AND PROVIDE NEW CONNECTIONS AS DECLURED FOR PROPERTY OPERATING SYSTEMS.
- NEW CONNECTIONS AS REQUIRED FOR PROPERLY OPERATING SYSTEMS.

 X. PITCH UNDERFLOOR SANITARY WASTE PIPING AT 1/4" PER FOOT, UNLESS
- NOTED OTHERWISE.

 Y. WASTE AND VENT PIPING BELOW FLOOR AND THROUGH FLOOR SHALL BE 2"
 MINIMUM
- Z. PROVIDE CLEANOUTS IN ACCESSIBLE LOCATIONS AT THE BASE OF ALL PLUMBING RISERS.

Professional Engineer
I hereby certify that this plan, specification, or report was prepared by me or under my direct supervision and that I am a duly Licensed Professional Engineer under the laws of the state of Minnesota.

Signature:

Typed or printed name: Chad Michael Eslinger

Date: <u>01/07/2021</u> License Number: 48710

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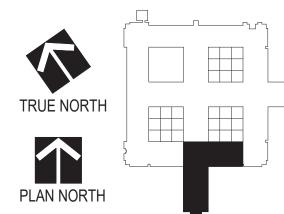
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DATE

one eight inch = one look

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PLUMBING PLANS - LEVEL 1 - AREA H - PHASE 2

Approved: Division Chief

RENOVATE MH WARD 1L,1H, AND 1K

1 Veterans Dr., Minneapolis, MN 55417

RD 618

GJH

618-17-127

Building Number

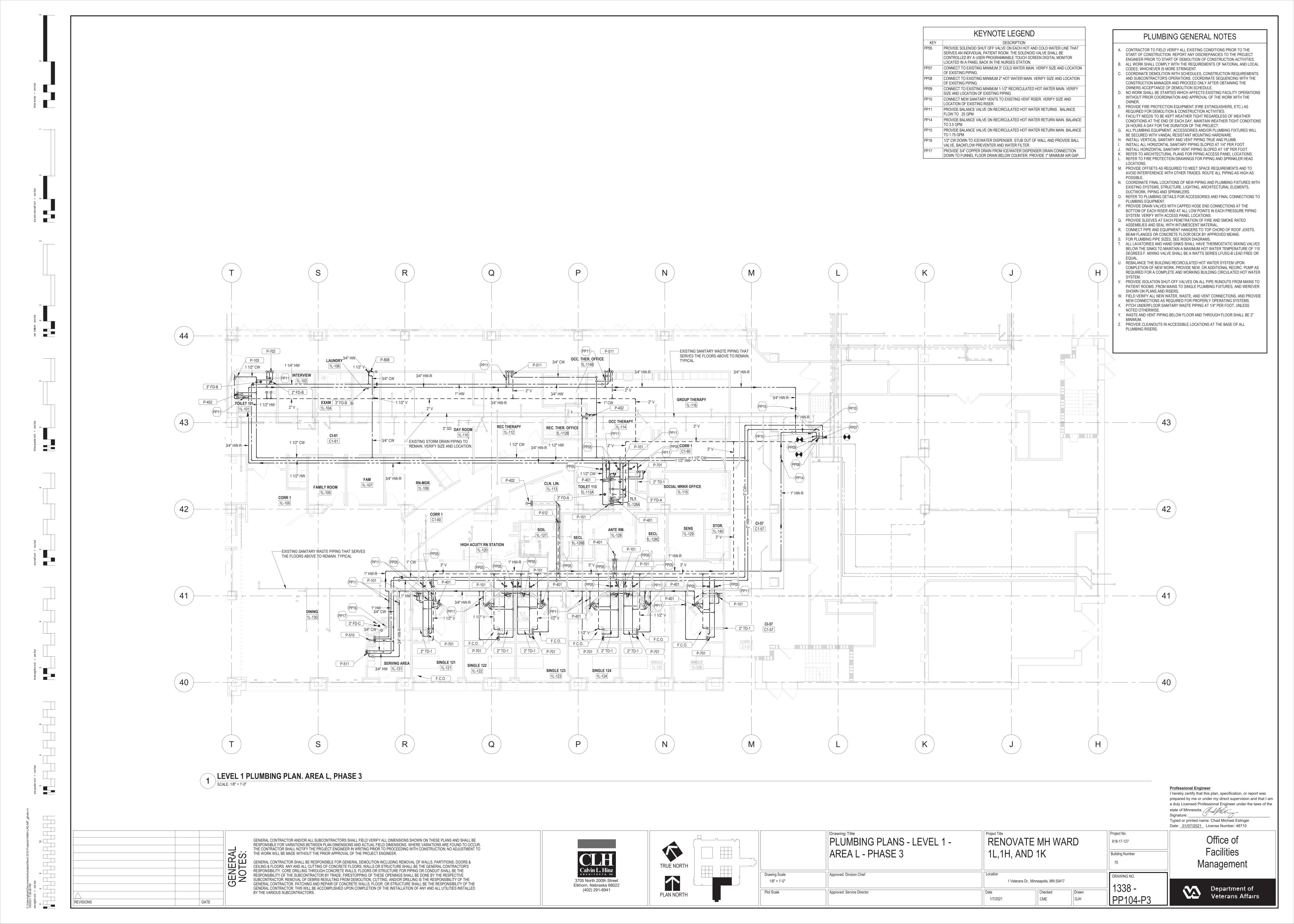
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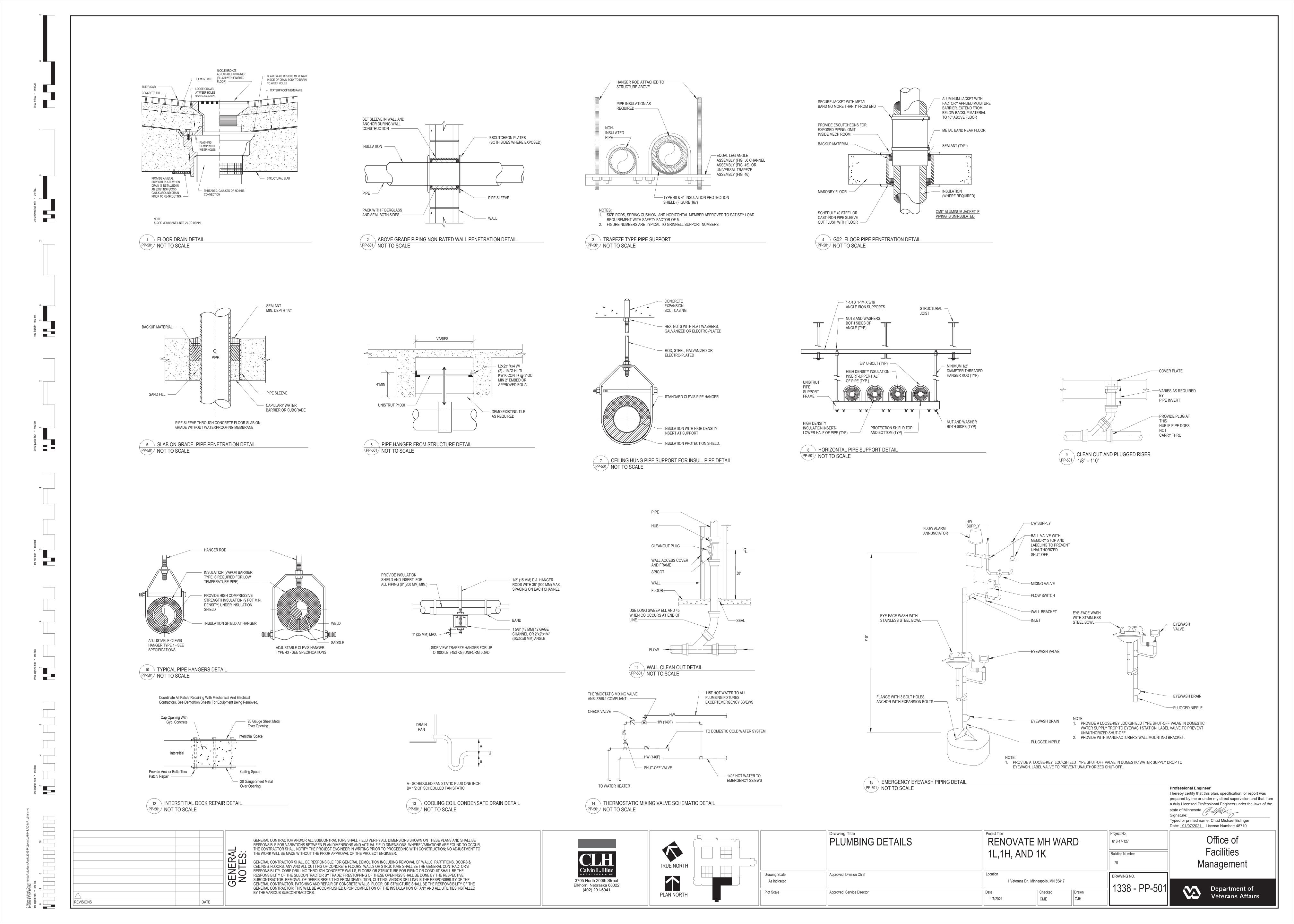
DRAWING NO.

1338 -

Office of Facilities Management







				CASTIRON					NO HUB OUTLET.
FD-B	FLOOR DRAIN	WATTS	FD-1100-A	EPOXY COATED CAST IRON	NICKEL BRONZE	No	3"	2"	 EPOXY COATED CAST IRON FLOOR DRAIN WITH ANCHOR FLANGE, REVERSIBLE CLAMPING COLLAR WITH PRIMARY AND SECONDARY WEEPHOLES, ADJUSTABLE ROUND HEEL PROOF NICKLE BRONZE STRAINER, AND NO HUB OUTLET.
FD-C	FLOOR DRAIN	WATTS	FD-100-EF	EPOXY COATED CAST IRON	NICKEL BRONZE	No	3"	2"	 EPOXY COATED CAST IRON FLOOR DRAIN WITH ANCHOR FLANGE, REVERSIBLE CLAMPING COLLAR WITH PRIMARY & SECONDARY WEEPHOLES, ADJUSTABLE HEEL PROOF NICKEL BRONZE STRAINER 4" DIA. NICKEL BRONZE FUNNEL, AND NO HUB OUTLET.
TD-1	TRENCH DRAIN	WHITEHALL MFRG	WHLD-48F	STAINLESS STEEL			2"		PRE-SLOPED TRENCH DRAIN SYSTEM WITH 2-1/4"WIDE X 48" LONG STAINLESS STEEL FRAME, 5-1/4" FLASHING FLANGE WITH 2" NO HUB BOTTOM CENTER OUTLET, LINEAR DRAIN COVER WITHOUT PERFORATIONS TO PREVENT LIGATURE POINTS.
Grand total: 36		'					-		

	THERMOSTATIC MIXING VALVE SCHEDULE															
LOCATION									FLUII	D PROPER	ΓIES				LVE ERTIES	
חו	NAME	NO.	MANUFACTURER	MODEL	MATERIAL	FINISH	TYPE	LWT SETPOINT	HOT	VT COLD	FLOW	MIN FLOW	MAX PD	INLET SIZE	OUTLET SIZE	REMARKS
TMV-1	MEDICATION	1H-112:	LAWLER	911 E/F	LEAD FREE BRASS	ROUGH BRONZE	DOM. WATER	90 °F	140 °F	40 °F	3.0 GPM	0.5 GPM	10.0 psi	3/4"	3/4"	ASSE 1017 COMPLIANT
TMV-1	SOILED UTILITY	1K-122	LAWLER	911 E/F	LEAD FREE BRASS	ROUGH BRONZE	DOM. WATER	90 °F	140 °F	40 °F	3.0 GPM	0.5 GPM	10.0 psi	3/4"	3/4"	ASSE 1017 COMPLIANT
TMV-1	HOUSEKEEPING	1K-127	LAWLER	911 E/F	LEAD FREE BRASS	ROUGH BRONZE	DOM. WATER	90 °F	140 °F	40 °F	3.0 GPM	0.5 GPM	10.0 psi	3/4"	3/4"	ASSE 1017 COMPLIANT
Grand total	: 3				1	1					ı			1	1	

Professional Engineer
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Signature:

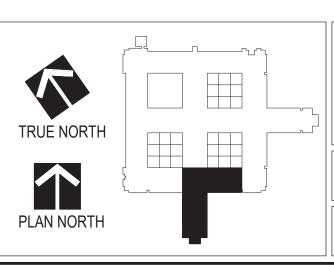
Typed or printed name: Chad Michael Eslinger
Date: 01/07/2021 License Number: 48710

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DATE

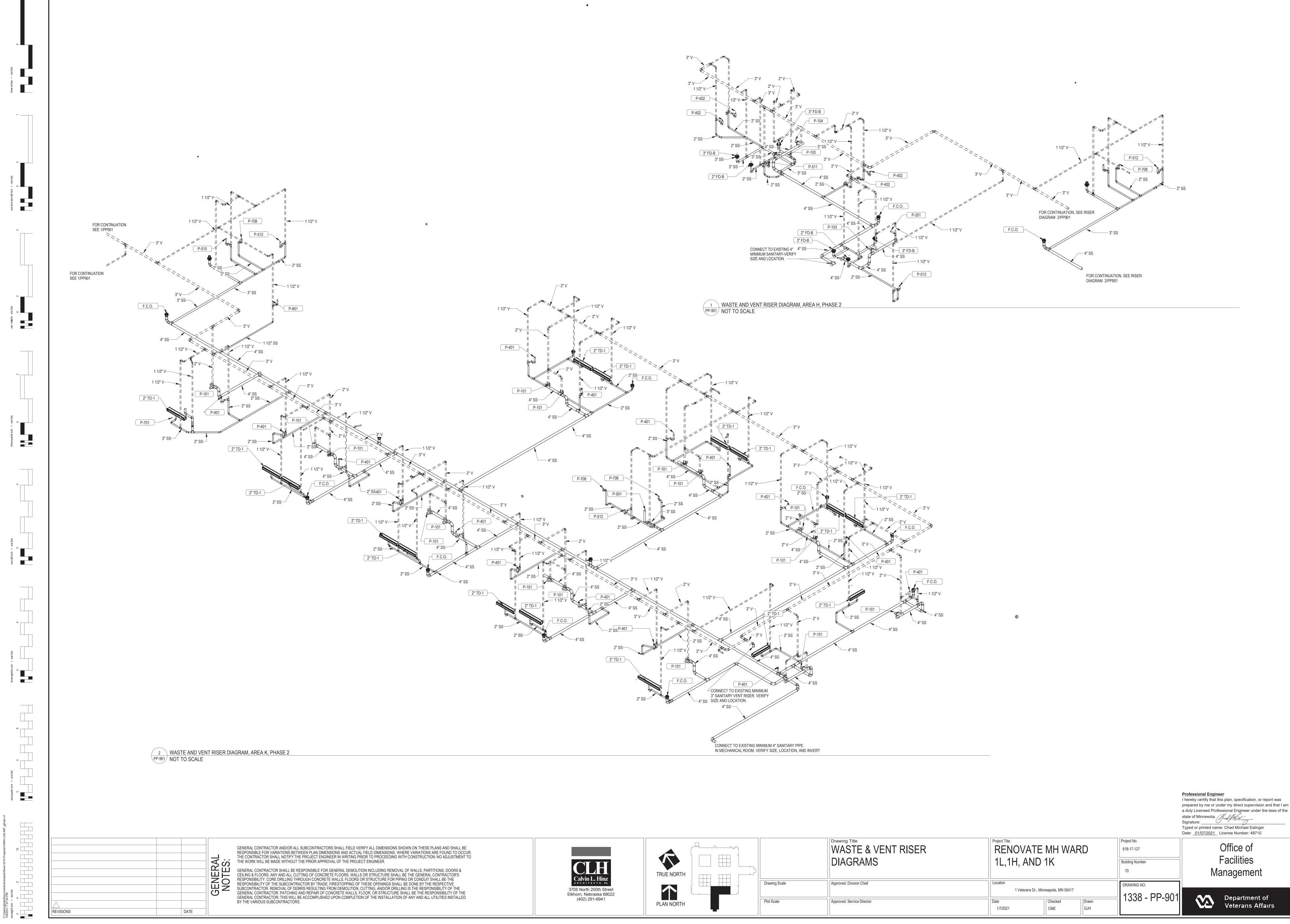




PLUMBING SCHEDULES	RENOVATE 1L,1H, AND		RD	Project No. 618-17-127 Building Number 70
Scale Approved: Division Chief	Location 1 Veterans Dr., Minneapolis, MN 55417		DRAWING NO. 1338 -	
Approved: Service Director	Date 1/7/2021	Checked CME	Drawn GJH	1330 -

Office of Facilities Management





3705 North 200th Street

Elkhorn, Nebraska 68022

(402) 291-6941

BY THE VARIOUS SUBCONTRACTORS.

DATE

Department of Veterans Affairs

1338 - PP-901

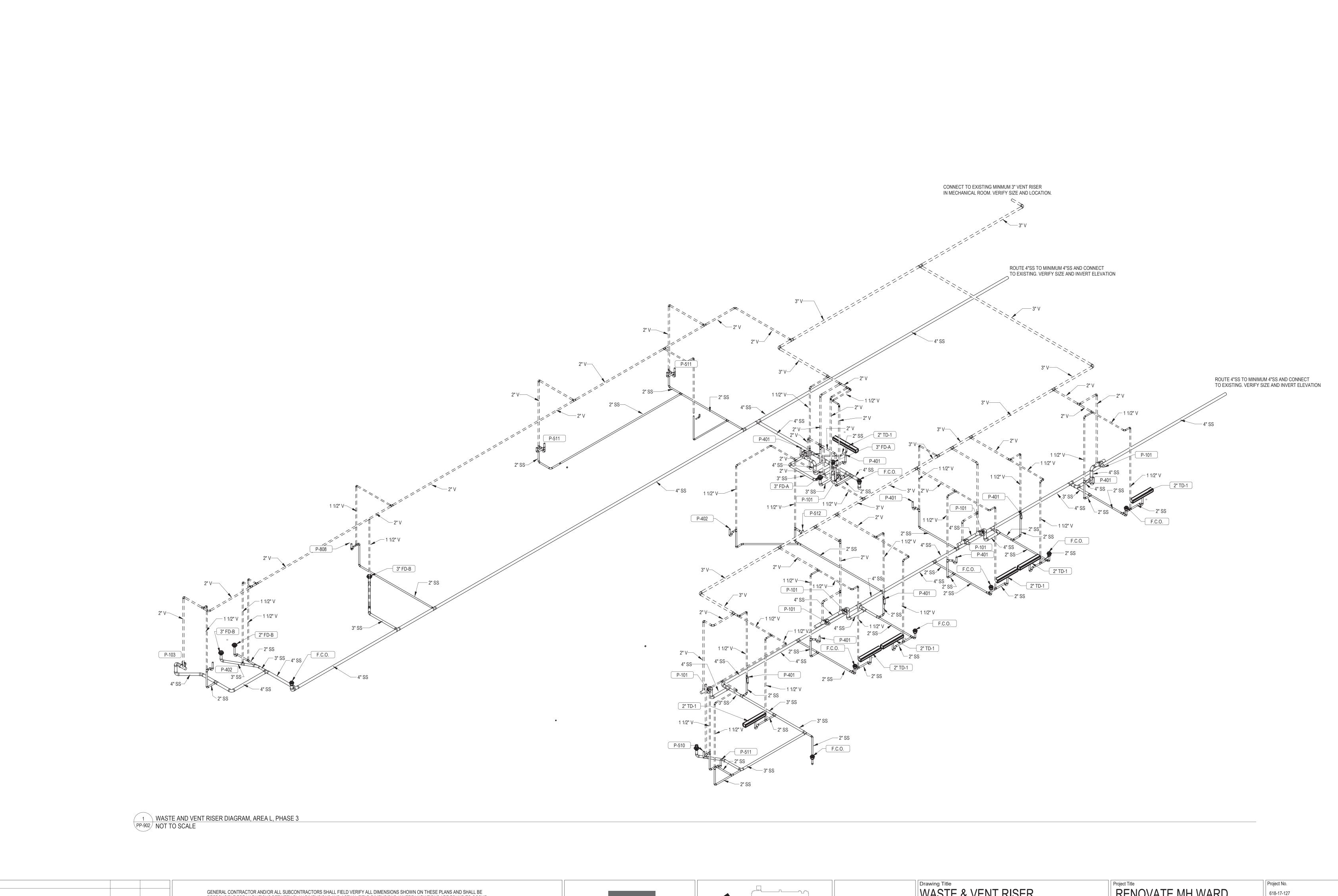
1 Veterans Dr., Minneapolis, MN 55417

Drawn

GJH

Approved: Service Director

Plot Scale



Professional Engineer
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Signature:

Typed or printed name: Chad Michael Eslinger
Date: 01/07/2021 License Number: 48710

Building Number

DRAWING NO.

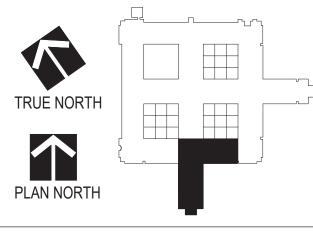
1338 - PP-902

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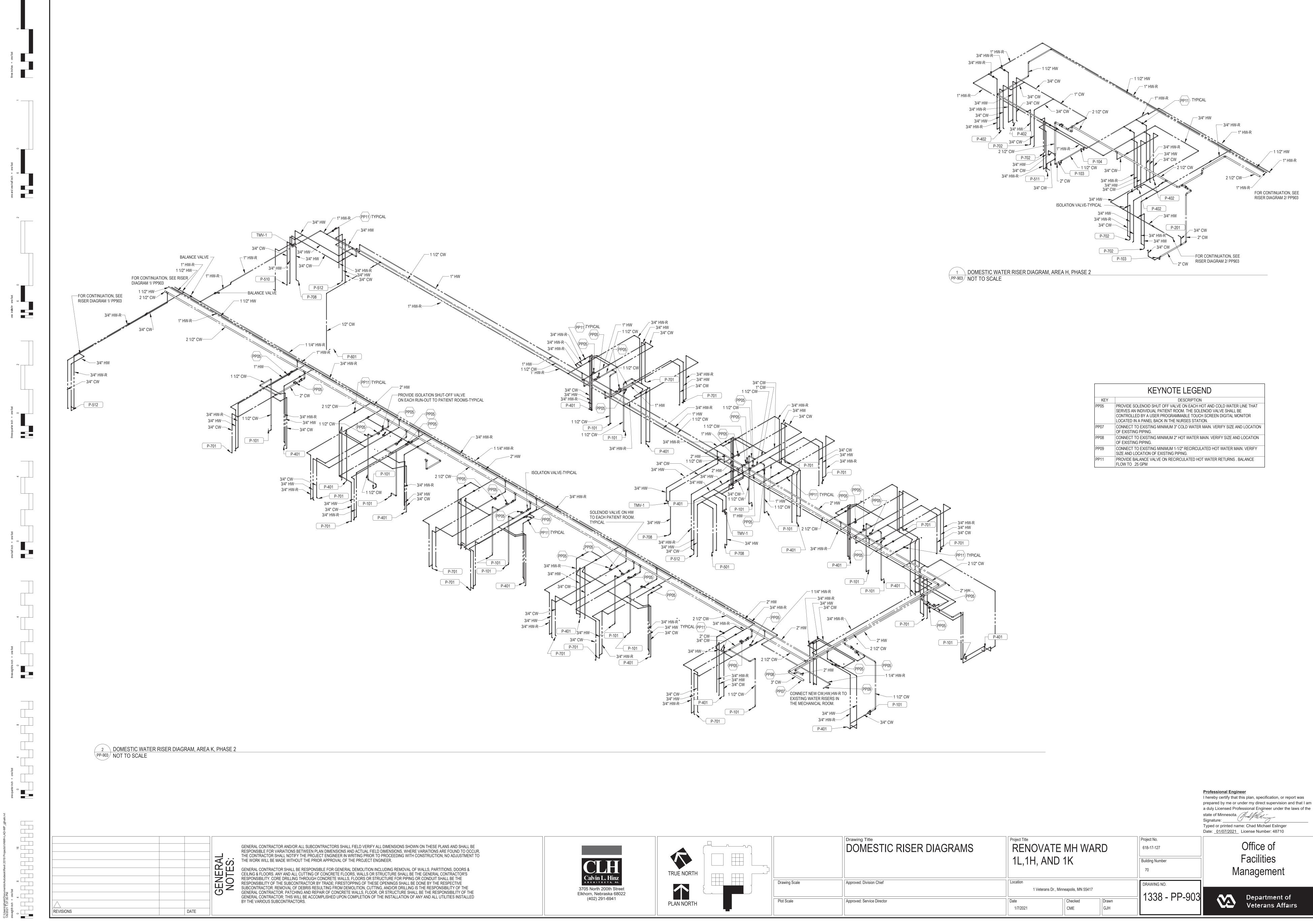




	DIAGRAMS	1L,1H, AND		D
Drawing Scale	Approved: Division Chief	Location		
		1 Veterans Dr., Minr	neapolis, MN 55417	
Plot Scale	Approved: Service Director	Date	Checked	Drawn
		1/7/2021	CME	GJH

Office of Facilities Management





DRAWING NO.

1338 - PP-903

1 Veterans Dr., Minneapolis, MN 55417

CME

Drawn

GJH

Approved: Division Chief

Approved: Service Director

Drawing Scale

Plot Scale

PLAN NORTH

3705 North 200th Street

Elkhorn, Nebraska 68022

(402) 291-6941

GENERAL CONTRACTOR; THIS WILL BE ACCOMPLISHED UPON COMPLETION OF THE INSTALLATION OF ANY AND ALL UTILITIES INSTALLED

BY THE VARIOUS SUBCONTRACTORS.

DATE

Department of Veterans Affairs

PROVIDE SOLENOID SHUT OFF VALVE ON EACH HOT AND COLD WATER LINE THAT SERVES AN INDIVIDUAL PATIENT ROOM. THE SOLENOID VALVE SHALL BE CONTROLLED BY A USER PROGRAMMABLE TOUCH SCREEN DIGITAL MONITOR LOCATED IN A PANEL BACK IN THE NURSES STATION.

PROVIDE BALANCE VALVE ON RECIRCULATED HOT WATER RETURNS . BALANCE FLOW TO .25 GPM

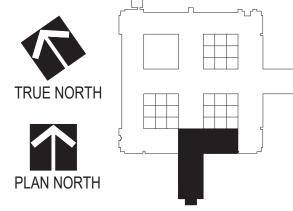
Professional Engineer I hereby certify that this plan, specification, or report was prepared by me or under my direct supervision and that I am a duly Licensed Professional Engineer under the laws of the state of Minnesota. Jud Miching Typed or printed name: Chad Michael Eslinger

Date: 01/07/2021 License Number: 48710

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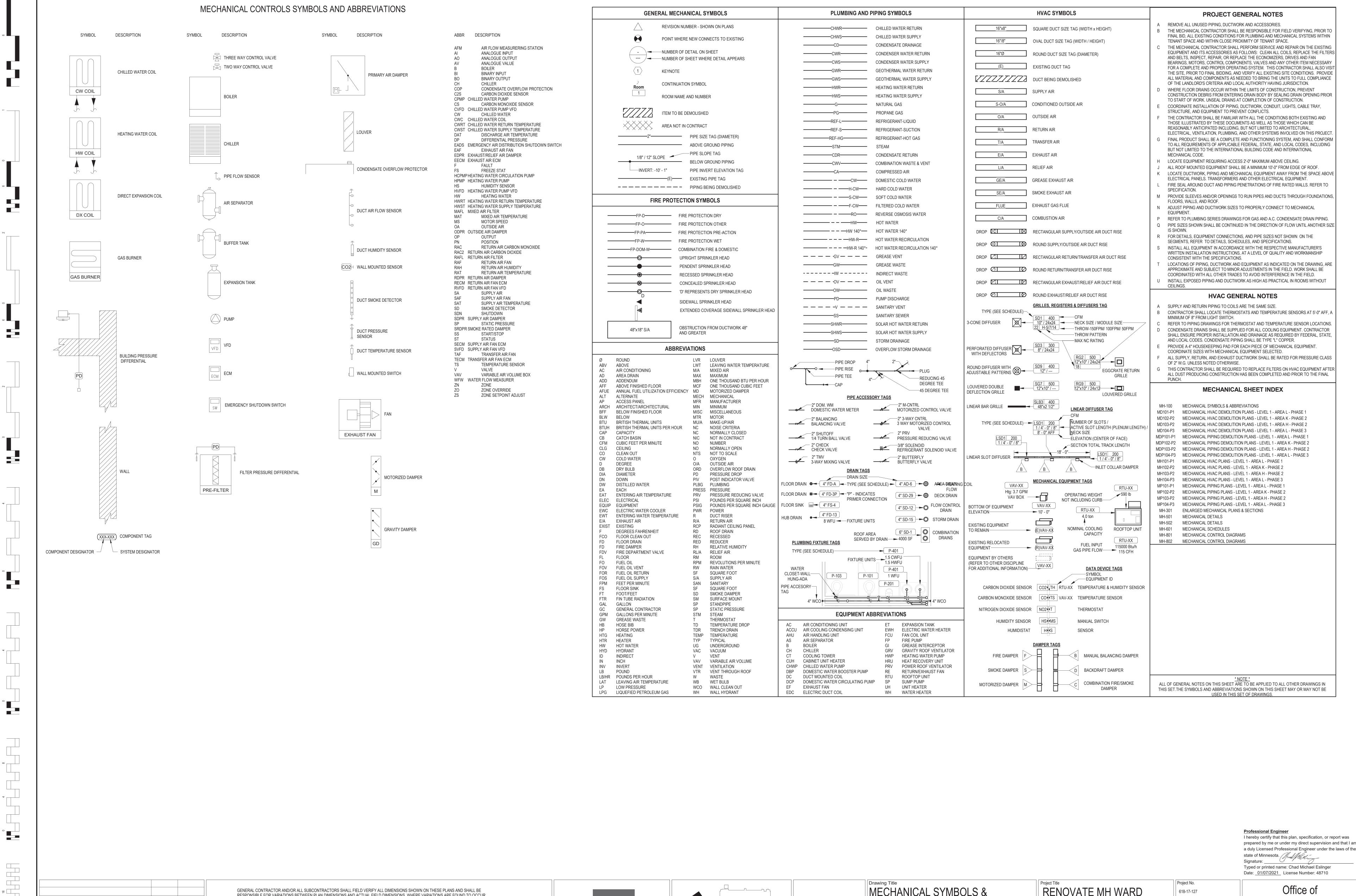
	DOMESTIC RISER DIAGRAMS	RENOVATE 1L,1H, AND	
Drawing Scale	Approved: Division Chief	Location 1 Veterans Dr., Minr	neapolis, MN 55417
Plot Scale	Approved: Service Director	Date 1/7/2021	Checked CME

Office of Building Number DRAWING NO.

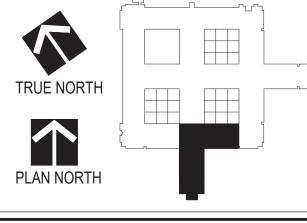
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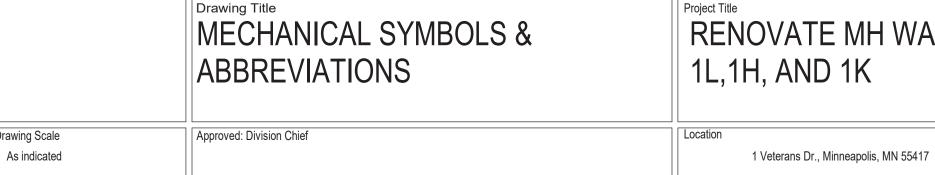




3705 North 200th Street Elkhorn, Nebraska 68022 (402) 291-6941



Plot Scale



Approved: Service Director

RENOVATE MH WARD 1L,1H, AND 1K

GJH

Typed or printed name: Chad Michael Eslinger Date: <u>01/07/2021</u> License Number: 48710 Office of 618-17-127 Facilities **Building Number**

DRAWING NO.

1338 -

Management



GENERAL CONTRACTOR; THIS WILL BE ACCOMPLISHED UPON COMPLETION OF THE INSTALLATION OF ANY AND ALL UTILITIES INSTALLED

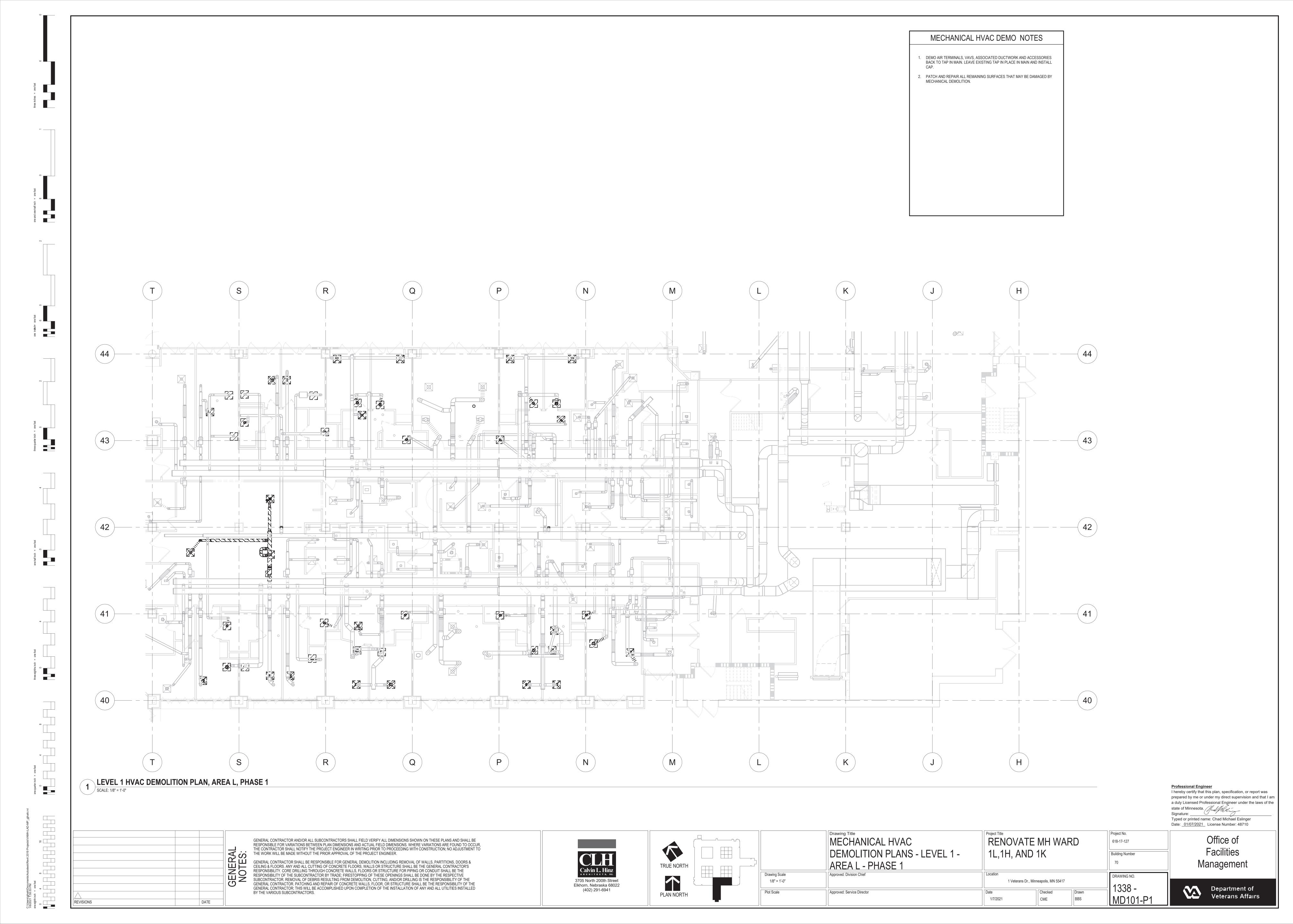
BY THE VARIOUS SUBCONTRACTORS.

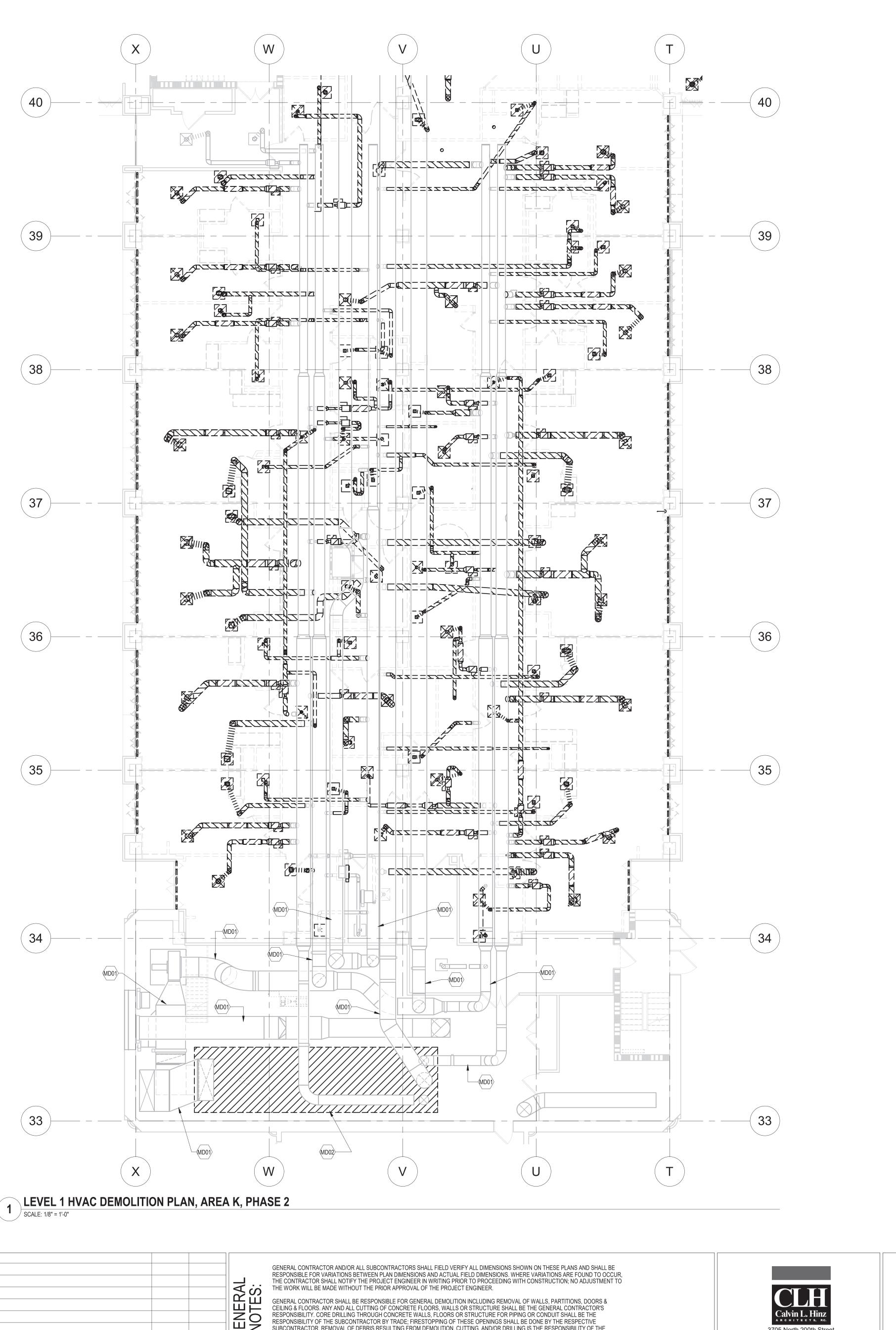
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RESPONSIBLE FOR VARIATIONS BETWEEN PLAN DIMENSIONS AND ACTUAL FIELD DIMENSIONS. WHERE VARIATIONS ARE FOUND TO OCCUR





MECHANICAL HVAC DEMO NOTES

DEMO AIR TERMINALS, VAVS, ASSOCIATED DUCTWORK AND ACCESSORIES BACK TO TAP IN MAIN. LEAVE EXISTING TAP IN PLACE IN MAIN AND INSTALL

2. PATCH AND REPAIR ALL REMAINING SURFACES THAT MAY BE DAMAGED BY MECHANICAL DEMOLITION.

KEYNOTE LEGEND

TAKE AIR FLOW MEASUREMENTS AND STATIC PRESSURE READINGS BEFORE BEGINNING ANY WORK. TURN THE RESULTS OVER TO THE ARCHITECT/ENGINEER FOR THEIR REVIEW. REMOVE AND REPLACE AIR HANDLING UNIT. PROVIDE TEMPORARY COOLING AND HEATING OF SPACES OUTSIDE OF THE CONSTRUCTION LIMITS THAT ARE TO REMAIN

IN OPERATION.

Professional Engineer I hereby certify that this plan, specification, or report was prepared by me or under my direct supervision and that I am a duly Licensed Professional Engineer under the laws of the

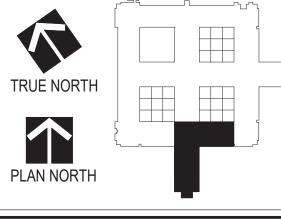
state of Minnesota. [Jud] Micking Typed or printed name: Chad Michael Eslinger Date: 01/07/2021 License Number: 48710

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RENOVATE MH WARD 1L,1H, AND 1K

1 Veterans Dr., Minneapolis, MN 55417

BBS

618-17-127 Building Number DRAWING NO.

1338 -

Office of **Facilities** Management



MECHANICAL HVAC DEMO NOTES

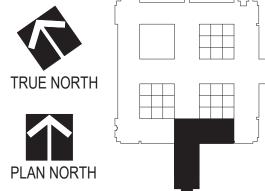
. DEMO AIR TERMINALS, VAVS, ASSOCIATED DUCTWORK AND ACCESSORIES BACK TO TAP IN MAIN. LEAVE EXISTING TAP IN PLACE IN MAIN AND INSTALL

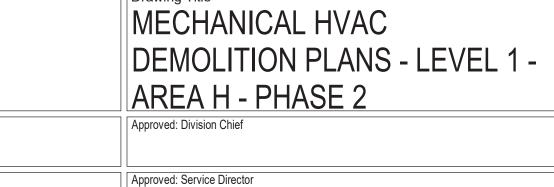
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> Professional Engineer I hereby certify that this plan, specification, or report was prepared by me or under my direct supervision and that I am a duly Licensed Professional Engineer under the laws of the state of Minnesota. The Michael Eslinger
>
> Typed or printed name: Chad Michael Eslinger

Date: 01/07/2021 License Number: 48710







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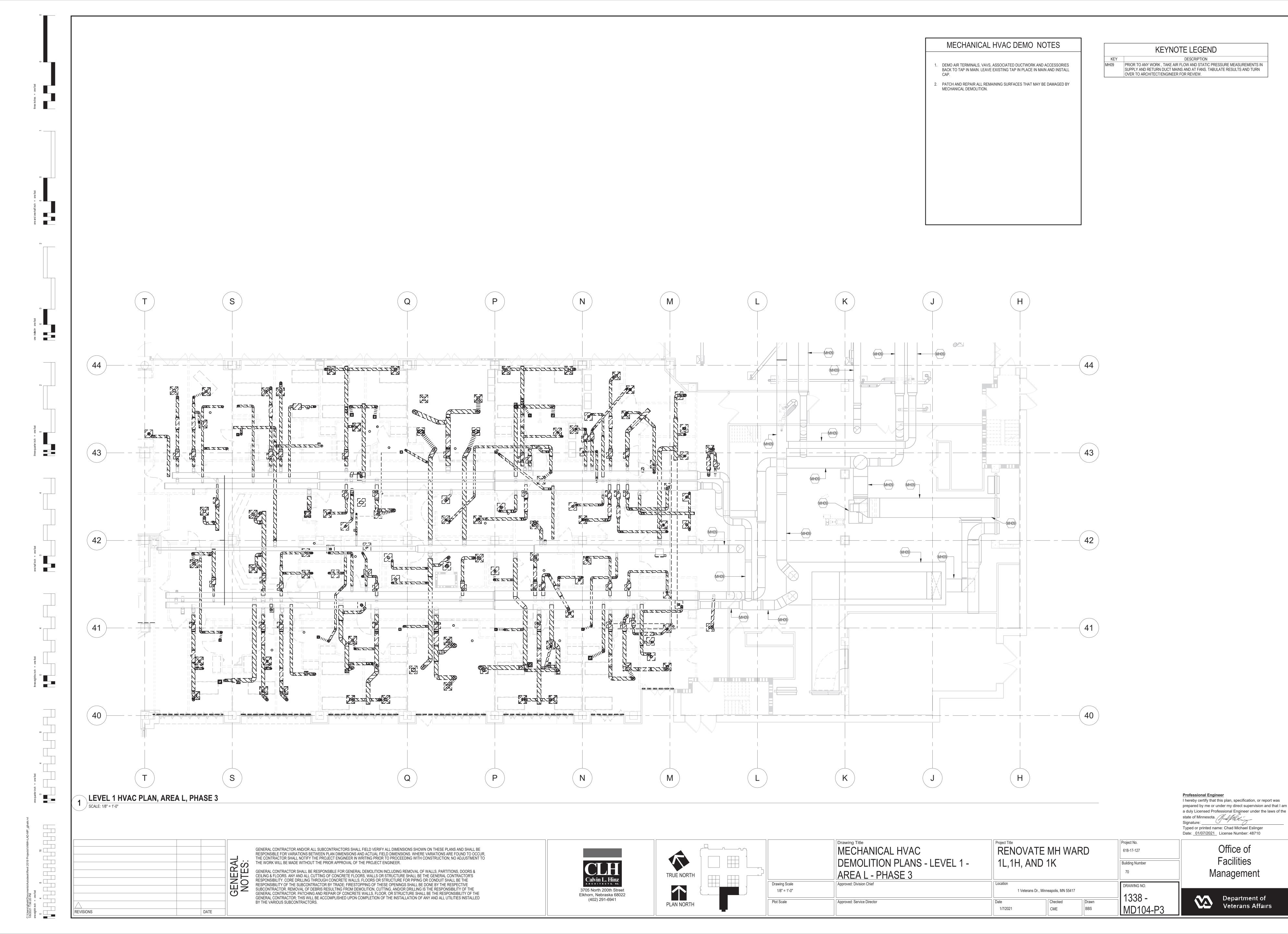
Office of **Facilities** Management

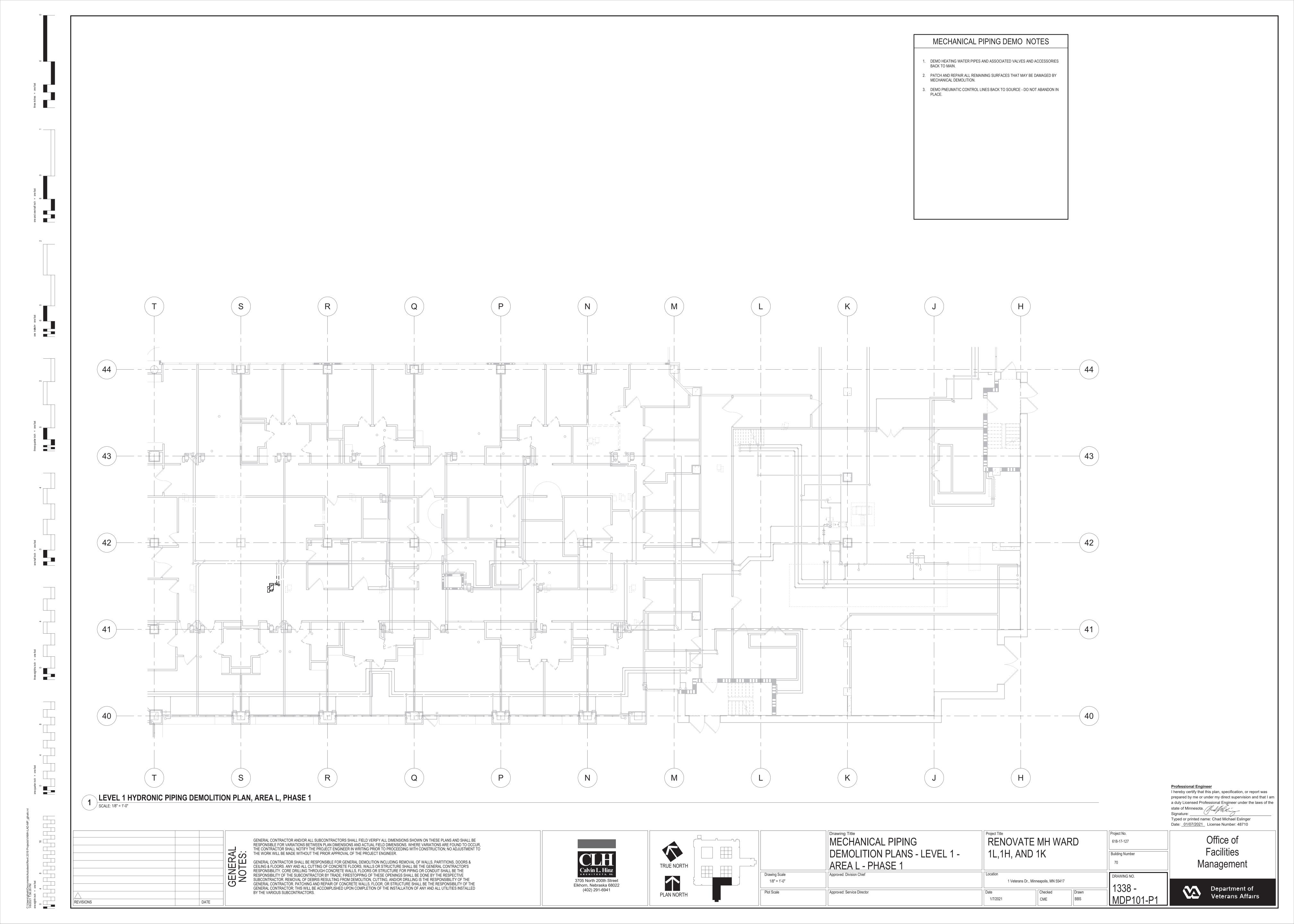


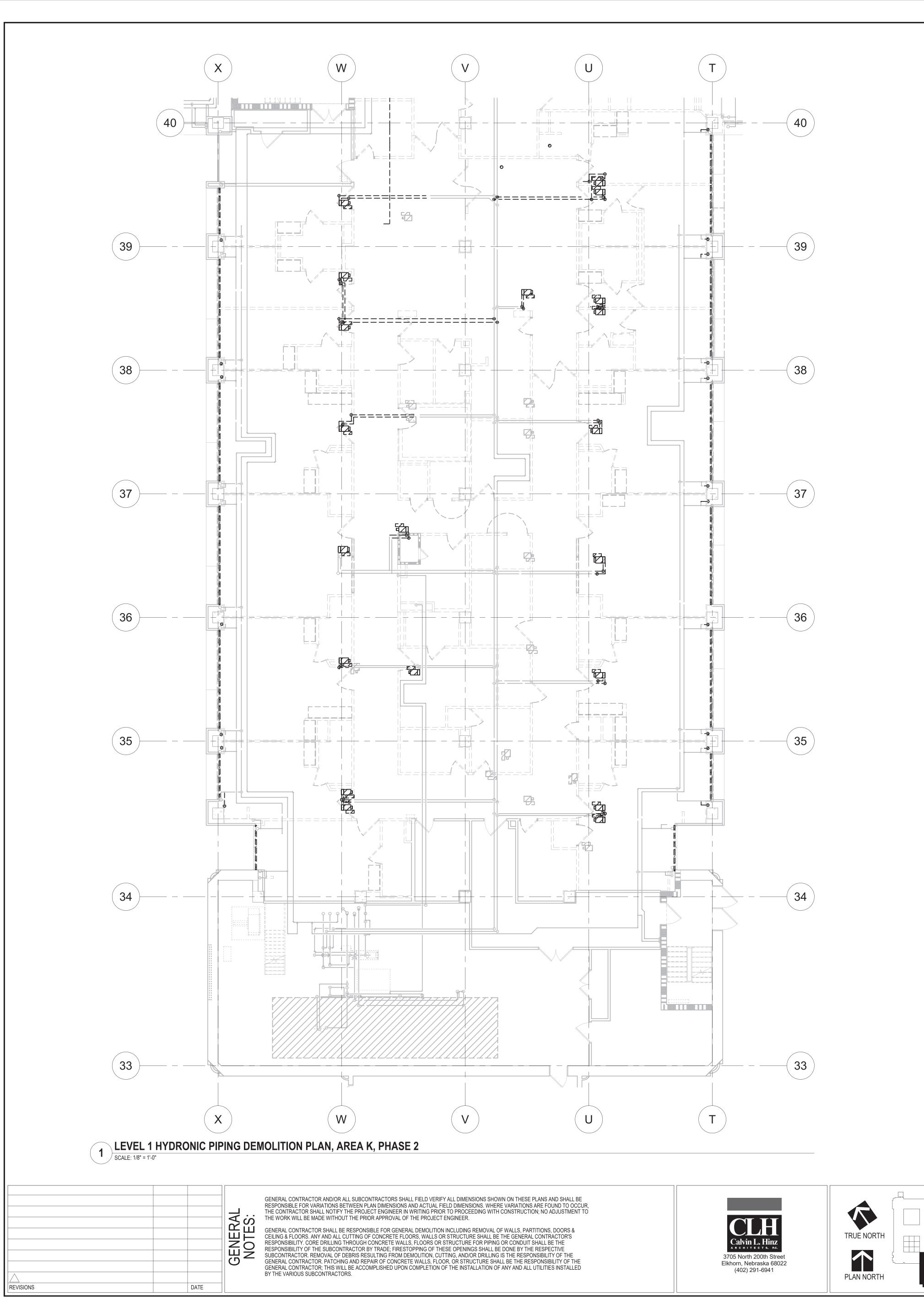
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one-eighth inch = one foot
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1338 -BBS







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MECHANICAL PIPING DEMO NOTES

1. DEMO HEATING WATER PIPES AND ASSOCIATED VALVES AND ACCESSORIES BACK TO MAIN.

2. PATCH AND REPAIR ALL REMAINING SURFACES THAT MAY BE DAMAGED BY MECHANICAL DEMOLITION.

3. DEMO PNEUMATIC CONTROL LINES BACK TO SOURCE - DO NOT ABANDON IN

MECHANICAL PIPING

AREA K - PHASE 2

Approved: Division Chief

Approved: Service Director

1/8" = 1'-0"

Plot Scale

DEMOLITION PLANS - LEVEL 1 -

RENOVATE MH WARD

1 Veterans Dr., Minneapolis, MN 55417

BBS

1L,1H, AND 1K

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DRAWING NO.

1338 -

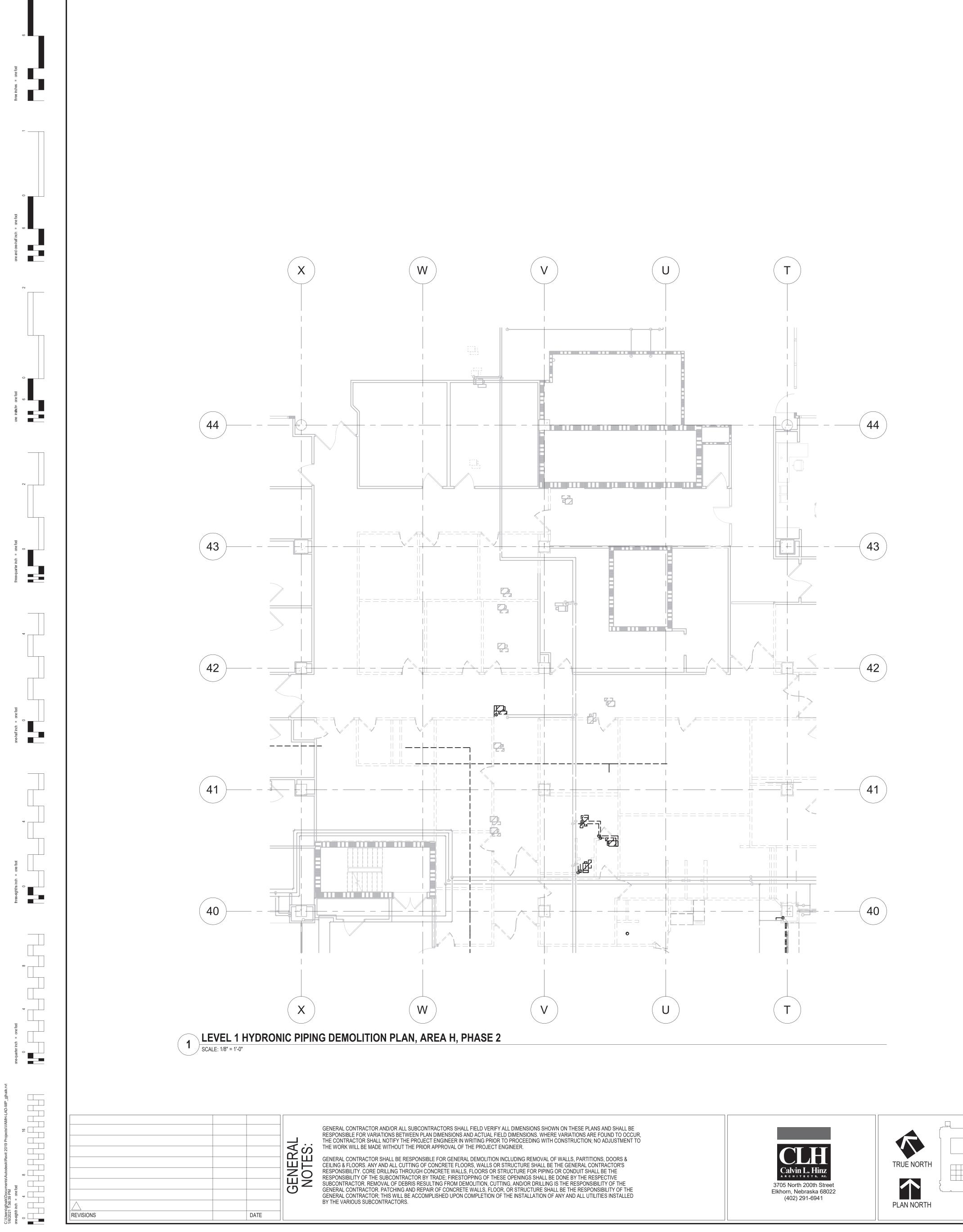
Professional Engineer I hereby certify that this plan, specification, or report was prepared by me or under my direct supervision and that I am a duly Licensed Professional Engineer under the laws of the state of Minnesota. [Jud] Micking

Typed or printed name: Chad Michael Eslinger Date: 01/07/2021 License Number: 48710

> Office of **Facilities** Management



Department of Veterans Affairs Department of



GENERAL CONTRACTOR; THIS WILL BE ACCOMPLISHED UPON COMPLETION OF THE INSTALLATION OF ANY AND ALL UTILITIES INSTALLED

BY THE VARIOUS SUBCONTRACTORS.

DATE

MECHANICAL PIPING DEMO NOTES

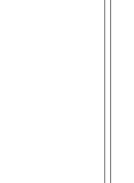
1. DEMO HEATING WATER PIPES AND ASSOCIATED VALVES AND ACCESSORIES

2. PATCH AND REPAIR ALL REMAINING SURFACES THAT MAY BE DAMAGED BY MECHANICAL DEMOLITION.

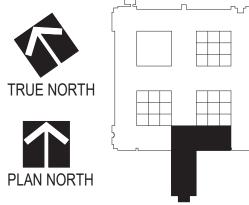
3. DEMO PNEUMATIC CONTROL LINES BACK TO SOURCE - DO NOT ABANDON IN

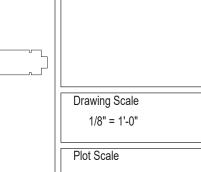
Professional Engineer I hereby certify that this plan, specification, or report was prepared by me or under my direct supervision and that I am a duly Licensed Professional Engineer under the laws of the state of Minnesota. That Micking

Typed or printed name: Chad Michael Eslinger Date: 01/07/2021 License Number: 48710









Drawing Title
MECHANICAL PIPING DEMOLITION PLANS - LEVEL 1 -
DEMOLITION PLANS - LEVEL 1 -
DEMOCITION LANG - LEVEL 1 -
AREA H - PHASE 2
ANLA II - I IIAOL Z
Approved: Division Chief

Approved: Service Director

RENOVATE MH WARD 1L,1H, AND 1K	
Location	_

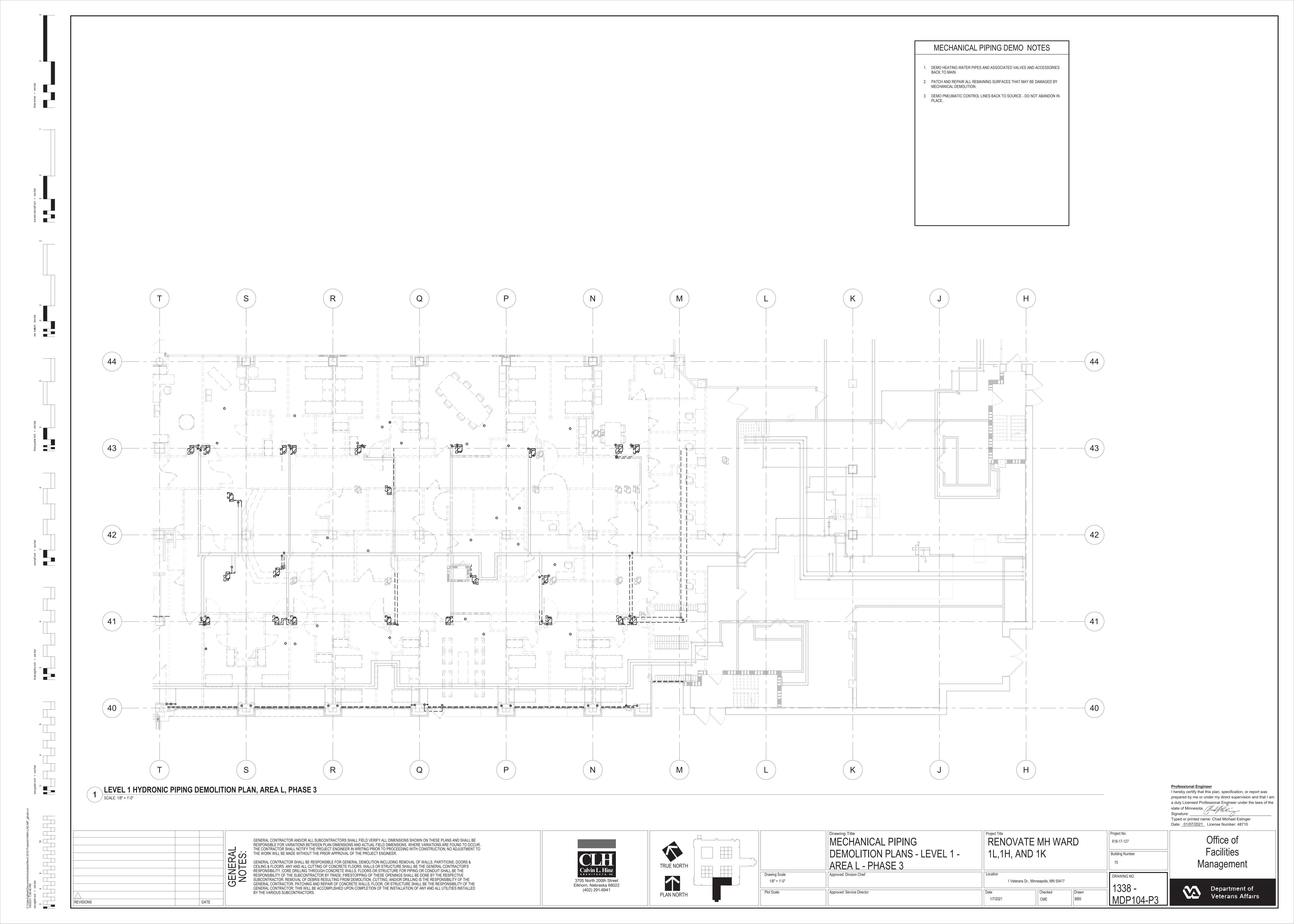
1 Veterans Dr., Minneapolis, MN 55417

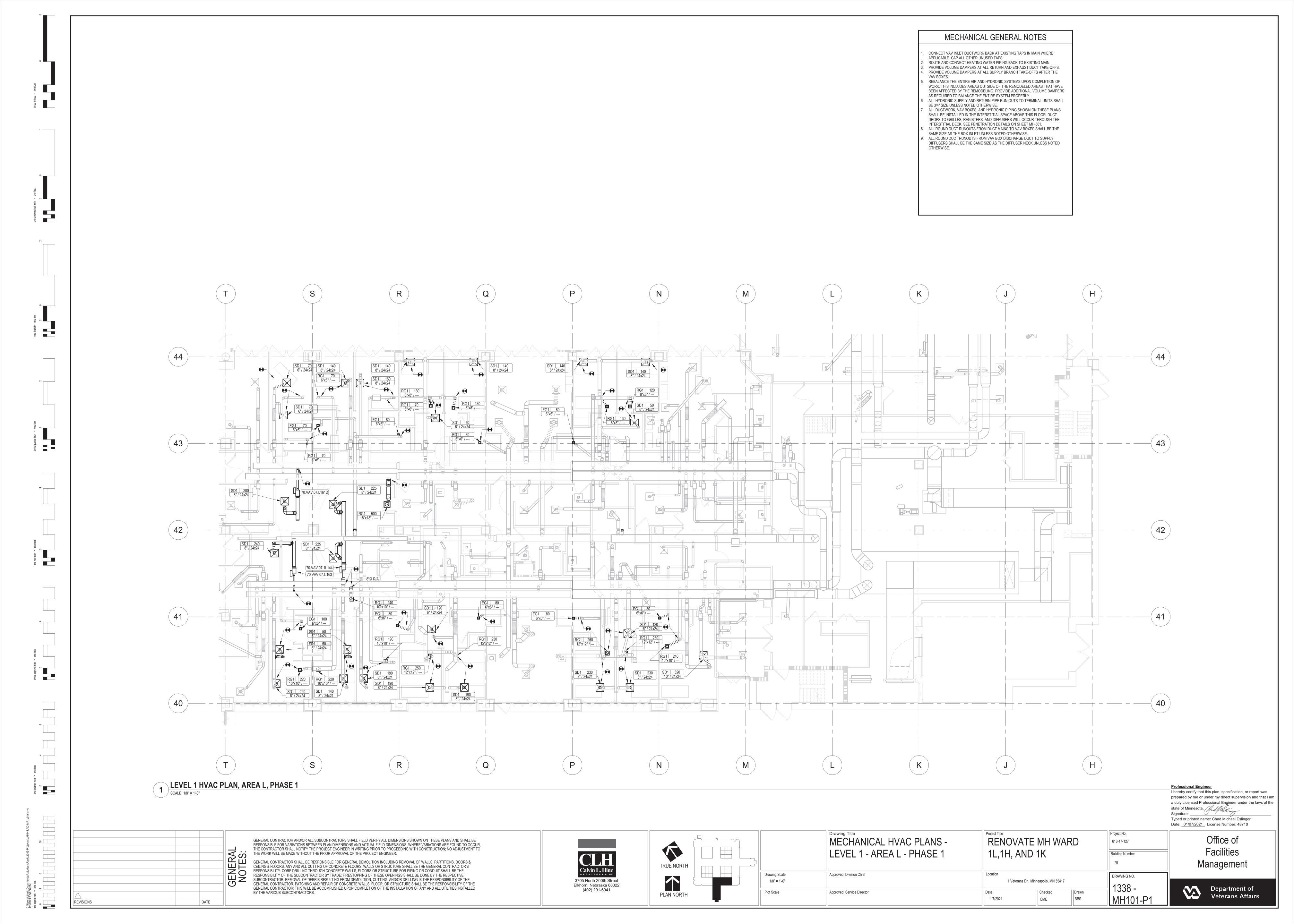
BBS

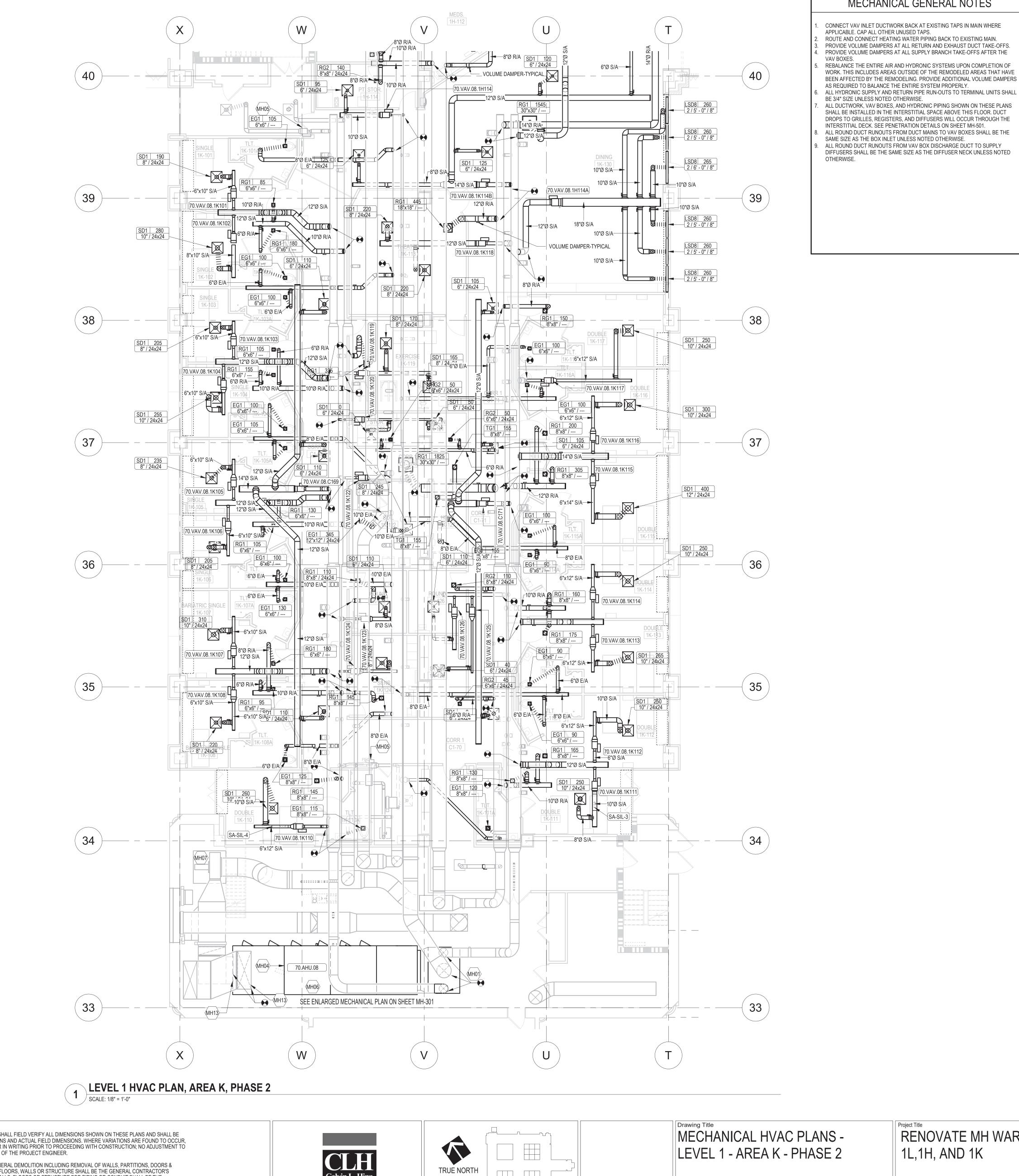
Project No.
618-17-127
Building Number
70

DRAWING NO.









RECONNECT EXISTING DUCTWORK TO NEW AHU PLENUM DISCHARGE DUCT..VERIFY

SIZES AND LOCATIONS OF ALL EXISTING SUPPLY DUCTS. NEW REPLACEMENT AIR HANDLING UNIT IS A PART OF THIS PROJECT. PROVIDE TEMPORARY COOLING AND HEATING TO ANY SPACES THAT ARE NOT IN THE LIMITS OF THE CONSTRUCTION WHILE THE NEW UNIT IS BEING INSTALLED.

MECHANICAL GENERAL NOTES

FIELD INSTALL NEW DDC CONTROLS ON ALL EXISTING 70.AHU.08 VAV'S THAT ARE TO REMAIN WITHIN THE NEW WORK SCOPE AND ALL VAV BOXES THAT ARE OUTSIDE THE WORK AREA, THAT ARE SERVED BY THIS UNIT. RE-BALANCE EXISTING BOXES TO THEIR ORIGINAL MINIMUM AND MAXIMUM AIR FLOWS. PROVIDE TEMPORARY RENTAL AHU WITH SUFFICIENT CAPACITY TO SERVE VAV'S ON

70.AHU.08 OUTSIDE OF WARD IN THIS SCOPE (PRIMARILY VAV'S PLAN NORTH OF REPLACE EXISTING 70.RF.08 FAN MOTOR WITH WITH NEW FAN MOTOR WITH

VFD. VERIFY EXISTING MOTOR SIZE AND REPLACE WITH SAME MOTOR SIZE. REBALANCE FAN AFTER ALL WORK IS COMPLETE. CONNECT EXISTING RETURN AND OUTSIDE AIR DUCTWORK TO NEW AHU. REVISE

EXISTING DUCTWORK AS NECESSARY TO MAKE NEW CONNECTIONS.

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Typed or printed name: Chad Michael Eslinger Date: 01/07/2021 License Number: 48710

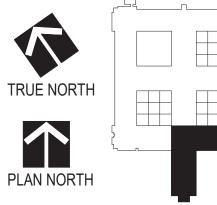
GENERAL CONTRACTOR AND/OR ALL SUBCONTRACTORS SHALL FIELD VERIFY ALL DIMENSIONS SHOWN ON THESE PLANS AND SHALL BE RESPONSIBLE FOR VARIATIONS BETWEEN PLAN DIMENSIONS AND ACTUAL FIELD DIMENSIONS. WHERE VARIATIONS ARE FOUND TO OCCUR, THE CONTRACTOR SHALL NOTIFY THE PROJECT ENGINEER IN WRITING PRIOR TO PROCEEDING WITH CONSTRUCTION; NO ADJUSTMENT TO THE CONTRACTOR SHALL NOTIFY THE PROJECT ENGINEER IN WRITING PRIOR TO PROCEEDING WITH CONSTRUCTION; NO ADJUSTMENT THE WORK WILL BE MADE WITHOUT THE PRIOR APPROVAL OF THE PROJECT ENGINEER.

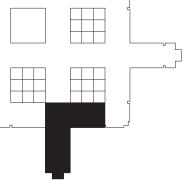
GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR GENERAL DEMOLITION INCLUDING REMOVAL OF WALLS, PARTITIONS, DOORS & CEILING & FLOORS. ANY AND ALL CUTTING OF CONCRETE FLOORS, WALLS OR STRUCTURE SHALL BE THE GENERAL CONTRACTOR'S RESPONSIBILITY. CORE DRILLING THROUGH CONCRETE WALLS, FLOORS OR STRUCTURE FOR PIPING OR CONDUIT SHALL BE THE RESPONSIBILITY OF THE SUBCONTRACTOR BY TRADE; FIRESTOPPING OF THESE OPENINGS SHALL BE DONE BY THE RESPONSIBILITY OF THE SUBCONTRACTOR. REMOVAL OF DEBRIS RESULTING FROM DEMOLITION, CUTTING, AND/OR DRILLING IS THE RESPONSIBILITY OF THE GENERAL CONTRACTOR: THIS WILL BE ACCOMPLISHED UPON COMPLETION OF THE INSTALLATION OF ANY AND ALL UTILITIES INSTALLED. RESPONSIBILITY. CORE DRILLING THROUGH CONCRETE WALLS, FLOORS OR STRUCTURE FOR PIPING OR CONDUIT SHALL BE THE RESPONSIBILITY OF THE SUBCONTRACTOR BY TRADE; FIRESTOPPING OF THESE OPENINGS SHALL BE DONE BY THE RESPECTIVE SUBCONTRACTOR. REMOVAL OF DEBRIS RESULTING FROM DEMOLITION, CUTTING, AND/OR DRILLING IS THE RESPONSIBILITY OF THE GENERAL CONTRACTOR. PATCHING AND REPAIR OF CONCRETE WALLS, FLOOR, OR STRUCTURE SHALL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR; THIS WILL BE ACCOMPLISHED UPON COMPLETION OF THE INSTALLATION OF ANY AND ALL UTILITIES INSTALLED BY THE VARIOUS SUBCONTRACTORS.

DATE

C:\Users\ginan\painta\p







1/8" = 1'-0"

Plot Scale

LEVEL 1 - AREA K - PHASE 2
Approved: Division Chief

Approved: Service Director

RENOVATE MH WARD 1L,1H, AND 1K

1 Veterans Dr., Minneapolis, MN 55417

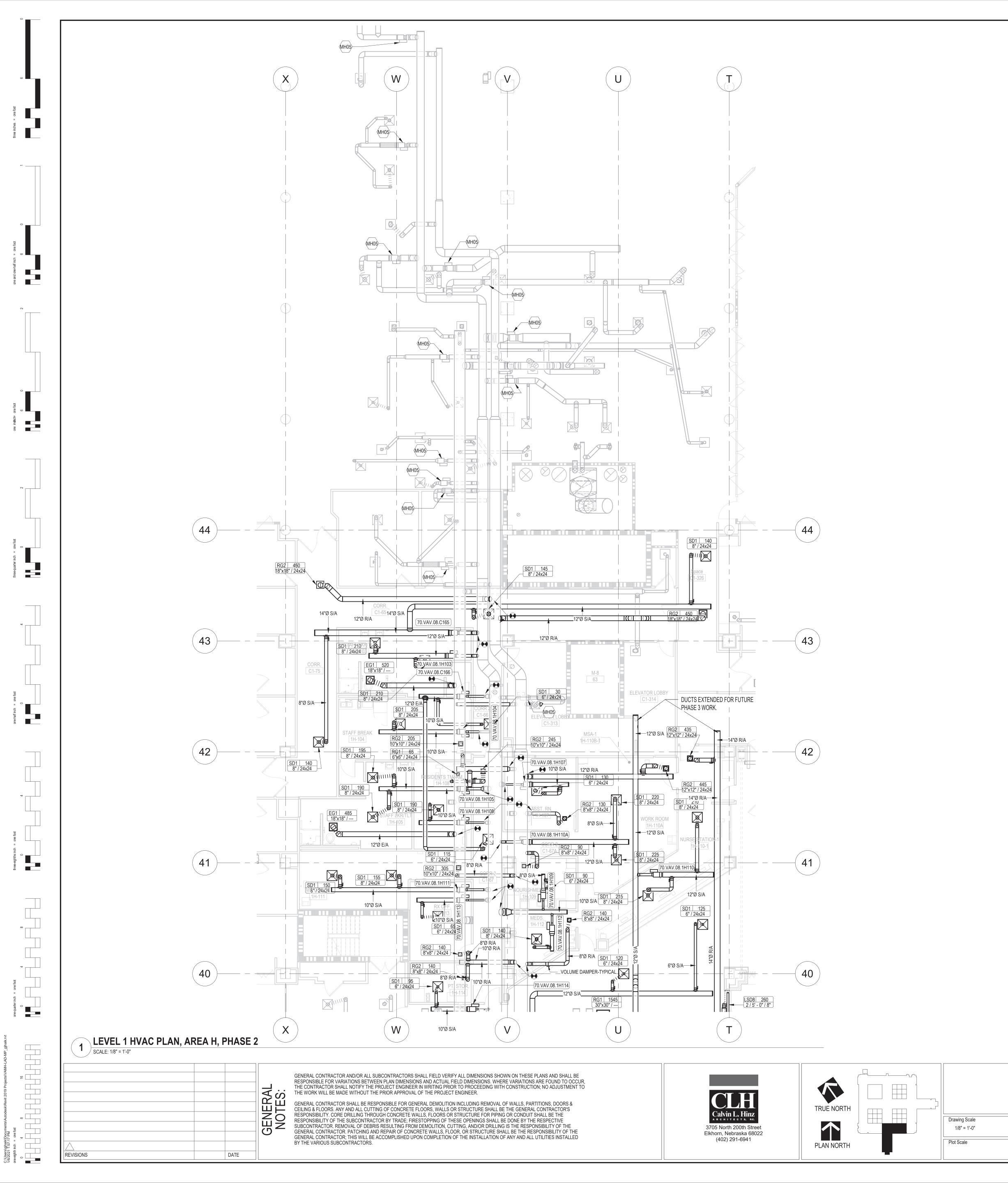
BBS

618-17-127 Building Number

DRAWING NO.

1338 -





MECHANICAL GENERAL NOTES

CONNECT VAV INLET DUCTWORK BACK AT EXISTING TAPS IN MAIN WHERE

APPLICABLE. CAP ALL OTHER UNUSED TAPS. ROUTE AND CONNECT HEATING WATER PIPING BACK TO EXISTING MAIN. PROVIDE VOLUME DAMPERS AT ALL RETURN AND EXHAUST DUCT TAKE-OFFS. PROVIDE VOLUME DAMPERS AT ALL SUPPLY BRANCH TAKE-OFFS AFTER THE

REBALANCE THE ENTIRE AIR AND HYDRONIC SYSTEMS UPON COMPLETION OF WORK. THIS INCLUDES AREAS OUTSIDE OF THE REMODELED AREAS THAT HAVE BEEN AFFECTED BY THE REMODELING. PROVIDE ADDITIONAL VOLUME DAMPERS AS REQUIRED TO BALANCE THE ENTIRE SYSTEM PROPERLY. ALL HYDRONIC SUPPLY AND RETURN PIPE RUN-OUTS TO TERMINAL UNITS SHALL

BE 3/4" SIZE UNLESS NOTED OTHERWISE. ALL DUCTWORK, VAV BOXES, AND HYDRONIC PIPING SHOWN ON THESE PLANS SHALL BE INSTALLED IN THE INTERSTITIAL SPACE ABOVE THIS FLOOR. DUCT DROPS TO GRILLES, REGISTERS, AND DIFFUSERS WILL OCCUR THROUGH THE INTERSTITIAL DECK. SEE PENETRATION DETAILS ON SHEET MH-501. ALL ROUND DUCT RUNOUTS FROM DUCT MAINS TO VAV BOXES SHALL BE THE

SAME SIZE AS THE BOX INLET UNLESS NOTED OTHERWISE. ALL ROUND DUCT RUNOUTS FROM VAV BOX DISCHARGE DUCT TO SUPPLY DIFFUSERS SHALL BE THE SAME SIZE AS THE DIFFUSER NECK UNLESS NOTED OTHERWISE.

KEYNOTE LEGEND

FIELD INSTALL NEW DDC CONTROLS ON ALL EXISTING 70.AHU.08 VAV'S THAT ARE TO REMAIN WITHIN THE NEW WORK SCOPE AND ALL VAV BOXES THAT ARE OUTSIDE THE WORK AREA, THAT ARE SERVED BY THIS UNIT. RE-BALANCE EXISTING BOXES TO THEIR ORIGINAL MINIMUM AND MAXIMUM AIR FLOWS.

> Professional Engineer I hereby certify that this plan, specification, or report was prepared by me or under my direct supervision and that I am a duly Licensed Professional Engineer under the laws of the state of Minnesota. That Micking

Typed or printed name: Chad Michael Eslinger Date: 01/07/2021 License Number: 48710

MECHANICAL HVAC PLANS -RENOVATE MH WARD 618-17-127 LEVEL 1 - AREA H - PHASE 2 1L,1H, AND 1K Building Number DRAWING NO.

1 Veterans Dr., Minneapolis, MN 55417

BBS

1338 -

Approved: Division Chief

Approved: Service Director

Office of **Facilities** Management

Department of Veterans Affairs

