

STERLING HALL SCHOOL - PHASE 1 MASTER PLAN ADDITION

99 Cartwright Ave, North York, ON M6A 1V4

If this sheet is not 46 7/8" x 33 1/8" (1189 x 841 mm) It is a reduced print
- Read dwg. accordingly.

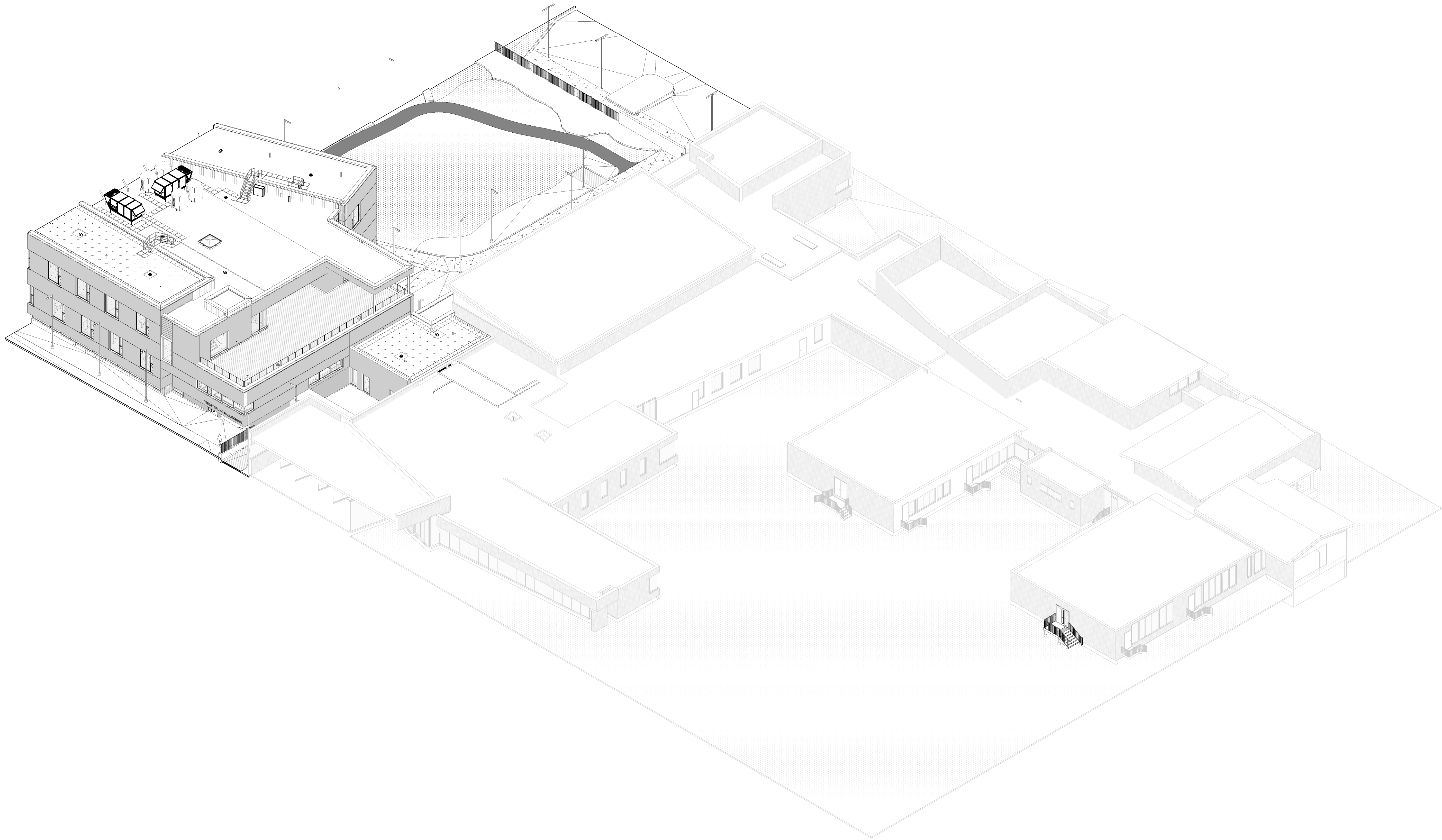
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Drawings should not be scaled.

No	Date	Revision/Issued
1	2025-11-05	15% CLIENT REVIEW
2	2025-12-15	30% CONSTRUCTION DOCUMENTS
3	2026-03-13	ISSUED FOR PERMIT
4	2026-04-10	75% CONSTRUCTION DOCUMENTS
5	2026-05-15	90% CONSTRUCTION DOCUMENTS
6	2026-07-08	ISSUED FOR TENDER

MECHANICAL DRAWING LIST		
SHEET No.	SHEET NAME	SCALE
M-001	COVER & DRAWING LIST - MECHANICAL	
M-002	MECHANICAL LEGENDS	
M-003	MECHANICAL STANDARD DETAILS	
M-004	MECHANICAL STANDARD DETAILS	
M-005	MECHANICAL DETAILS	
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M-200	HEATING SYSTEM SCHEMATICS	
M-201	HYD SYSTEM SCHEMATICS	
M-300	LOWER LEVEL - PLUMBING AND DRAINAGE	
M-301	GROUND FLOOR - PLUMBING & DRAINAGE	
M-302	SECOND FLOOR - PLUMBING & DRAINAGE	
M-400	LOWER LEVEL - HVAC	
M-401	GROUND FLOOR - HVAC	
M-402	SECOND FLOOR - HVAC	
M-500	LOWER LEVEL - MECHANICAL PIPING	
M-501	GROUND FLOOR - MECHANICAL PIPING	
M-502	SECOND FLOOR - MECHANICAL PIPING	
M-600	MECHANICAL ROOF PLAN	
M-700	PART PLANS	
M-701	PART PLANS AND SECTIONS	
M-800	MECHANICAL SCHEDULES	
MSD-708.01	EXPANSION TANK PIPING SCHEMATIC	



consultants	
architect	CS&P Architects Inc. 2345 Yonge St., Suite 200 Toronto, ON, M4P 2E5 Phone 416.482.5002 Fax 416.482.5040
civil engineer	SCS Consulting Group Ltd. 30 Centurion Drive, Suite 100 Markham, ON, L3R 8B8 Phone 905.475.1800 Fax 905.475.8335
structural engineer	LEA Consulting Ltd. 40 University Ave., Suite 503 Toronto, ON, M5J 1T1 Phone 905.470.0015
mechanical engineer	Smith + Andersen 4211 Yonge Street Toronto, ON, M2P 2A9 Phone 416.487.8151
electrical engineer	Smith + Andersen 4211 Yonge Street Toronto, ON, M2P 2A9 Phone 416.487.8151
landscape architect	Quinn Design Associates Inc. 180 John Street Toronto, ON, M5T 1X5 Phone 416.962.8700



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COVER & DRAWING LIST - MECHANICAL

scale:
date: 2025-12-15
drawn: PS
checked by: AD
project number: 00036-010.M.001
drawing number: M-001
Revision: 6

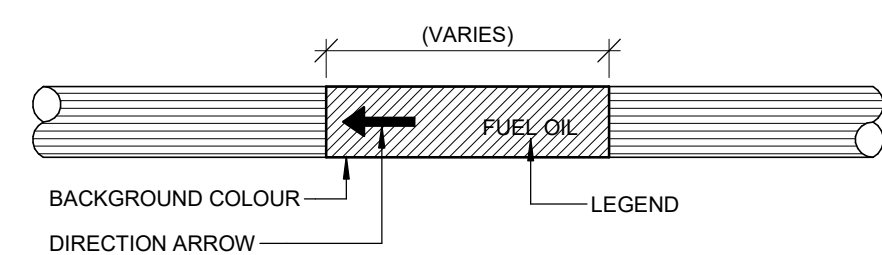


Smith + Andersen
1100 - 100 Sheppard Ave. East, Toronto ON M2N 6N5
416-467-8151 smithandersen.com

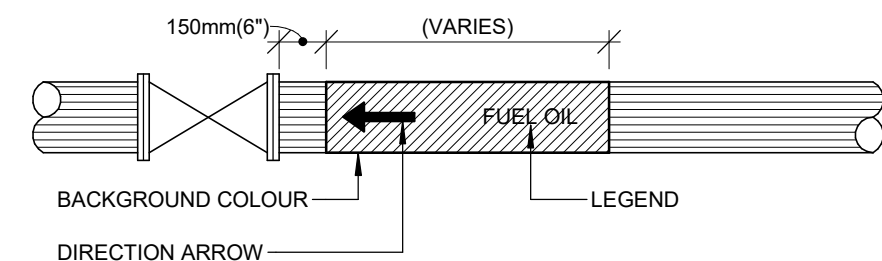
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IDENTIFICATION FOR STRAIGHT PIPE RUNS



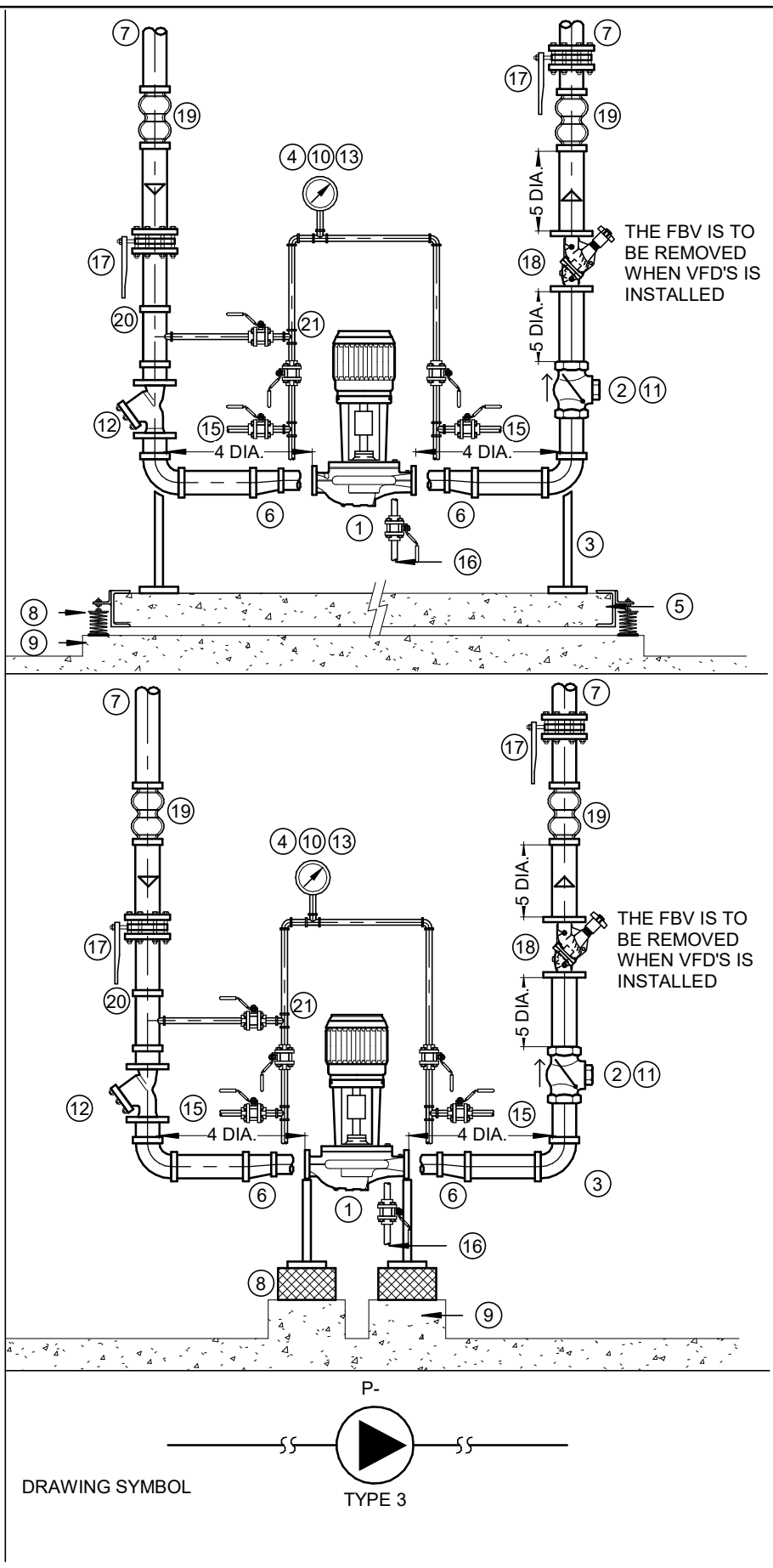
IDENTIFICATION AT VALVES AND EQUIPMENT
EXACT COLOURS SHALL CONFORM TO INDUSTRY STANDARD AS OUTLINED IN SPECIFICATIONS

MATERIAL CLASSIFICATION	BACKGROUND COLOUR
HAZARDOUS	YELLOW, 505-101
INHERENTLY LOW HAZARD	GREEN, 505-107
FIRE PROTECTION	RED, 505-102
MATERIAL CLASSIFICATION	LEGEND COLOUR
HAZARDOUS	BLACK, 513-101
INHERENTLY LOW HAZARD	WHITE, 513-101
FIRE PROTECTION	WHITE, 513-101

1 PIPE IDENTIFICATION

M-003/ N.T.S.

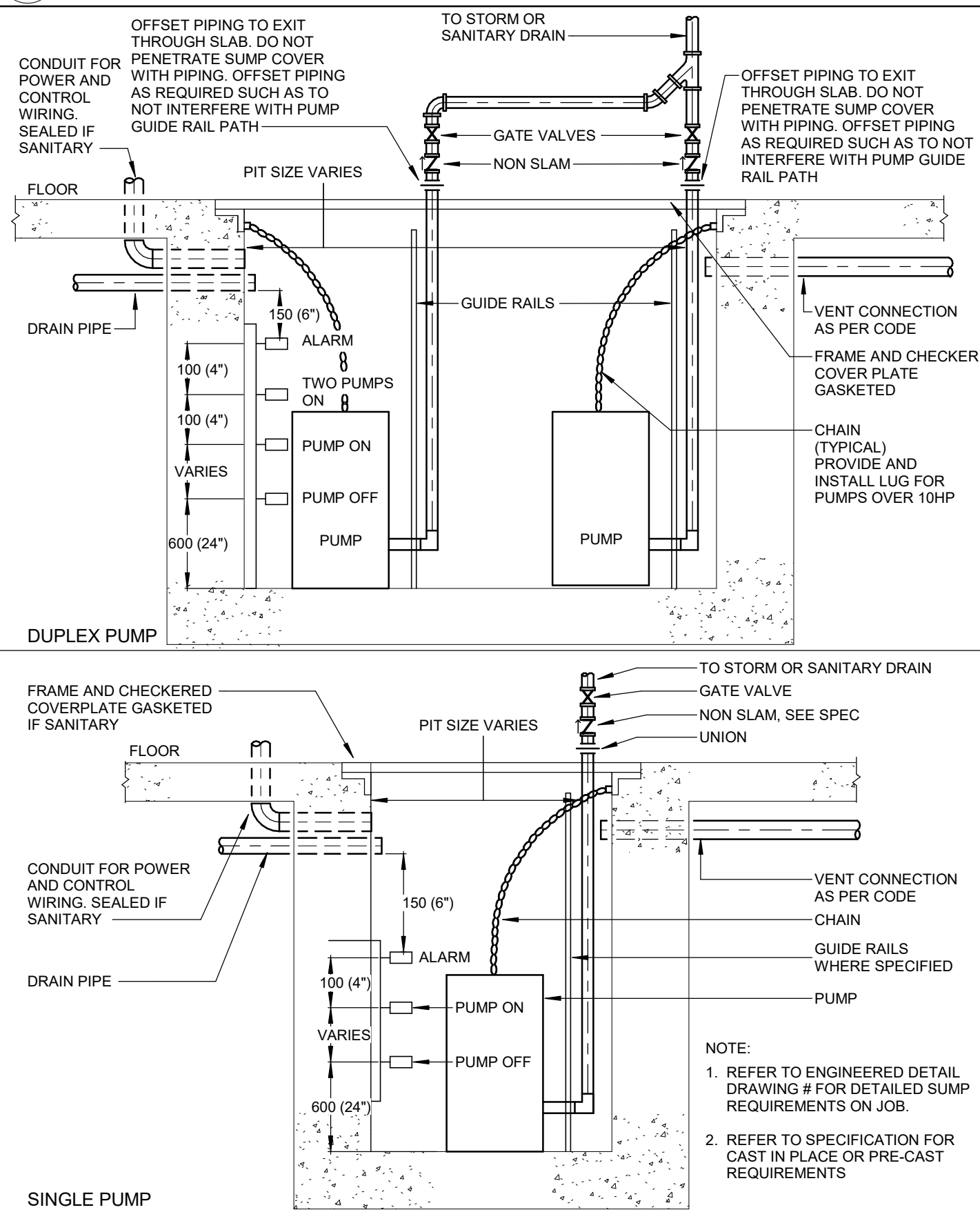
- NOTES:
- PUMP.
 - CHECK VALVE.
 - BASE ELBOW SUPPORT.
 - PRESSURE GAUGE WITH ANTI-PULSATION SHROUDER.
 - BASE: REFER TO SPECIFICATIONS AND SCHEDULES FOR VIBRATION ISOLATION.
 - ECCENTRIC OR CONCENTRIC FITTING. REFER TO MANUFACTURERS' RECOMMENDED TYPE TO BE INSTALLED DEPENDING ON PUMP CONFIGURATION.
 - PIPE SIZES AS SHOWN ON DRAWINGS.
 - VIBRATION ISOLATION REFER TO SPECIFICATION AND SCHEDULES.
 - HOUSEKEEPING PAD.
 - FOR OPEN SYSTEMS USE INDIVIDUAL PRESSURE GAUGES ON PUMP SUCTION, STRAINER AND PUMP DISCHARGE.
 - CHECK VALVE IS NOT REQUIRED ON SINGLE PUMPS IN A CLOSED SYSTEM.
 - STRAINERS ARE NOT REQUIRED ON DOMESTIC WATER SYSTEMS.
 - PRESSURE GAUGES ARE NOT REQUIRED ON DOMESTIC HOT WATER HEATING PUMPS.
 - TAPPINGS ON PUMP CASING (WHERE PROVIDED) TO BE USED FOR PRESSURE GAUGE CONNECTIONS.
 - CONNECTION TO DIFFERENTIAL PRESSURE SWITCH AS REQUIRED BY CONTROL SECTION.
 - DRAIN LINE TO FLOOR DRAIN.
 - SHUT-OFF VALVE.
 - FLOW BALANCING VALVE.
 - SPHERICAL RUBBER FLEXIBLE CONNECTION.
 - COURTAINS (FLEXIBLE IF GROOVED SYSTEM).
 - TO OFFSET PG TUBING TO ALLOW REMOVAL/MAINTENANCE OF PUMP.



DRAWING SYMBOL
TYPE 3

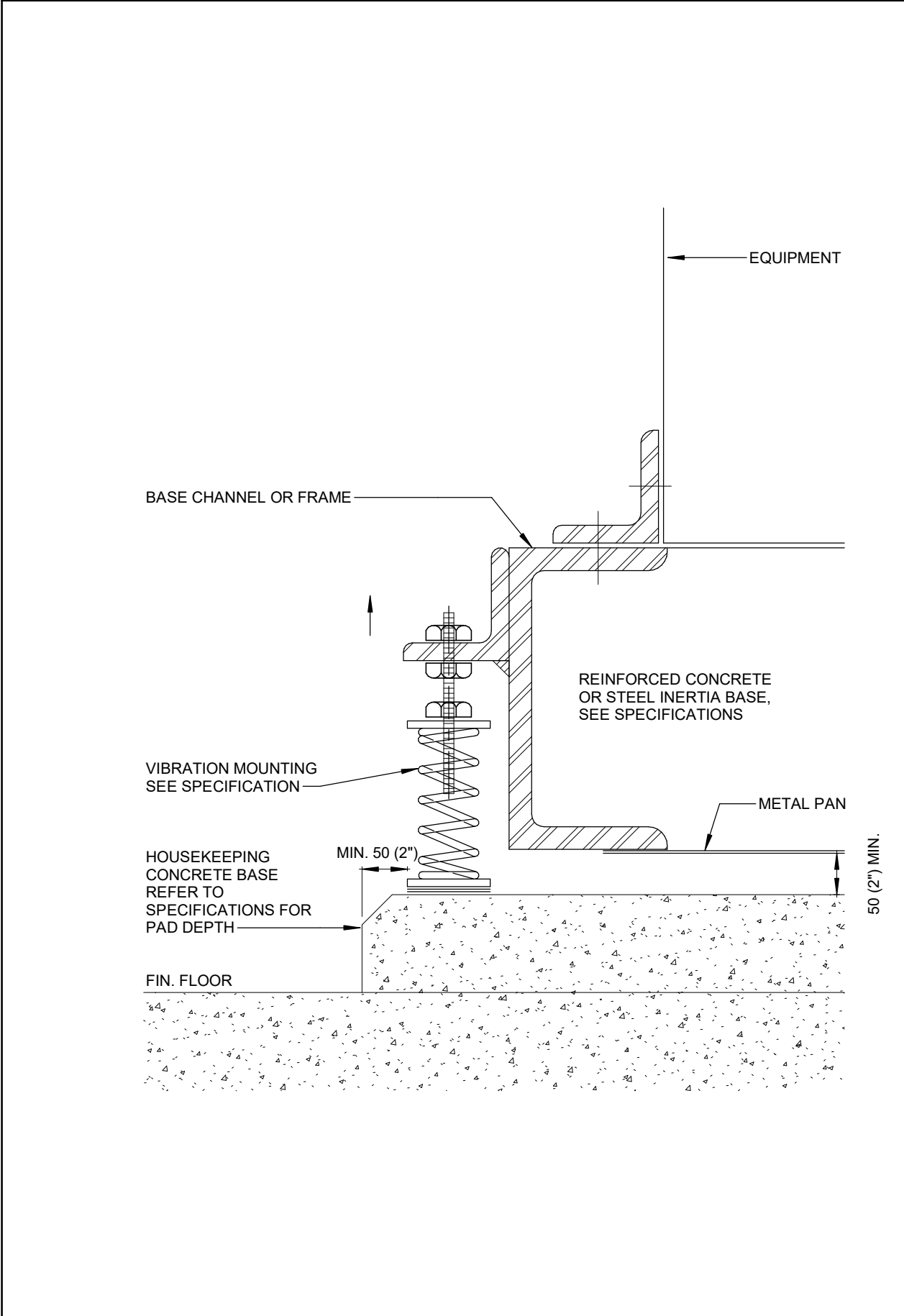
2 FLOOR SUPPORTED IN-LINE PUMPS TYPE 3

M-003/ N.T.S.



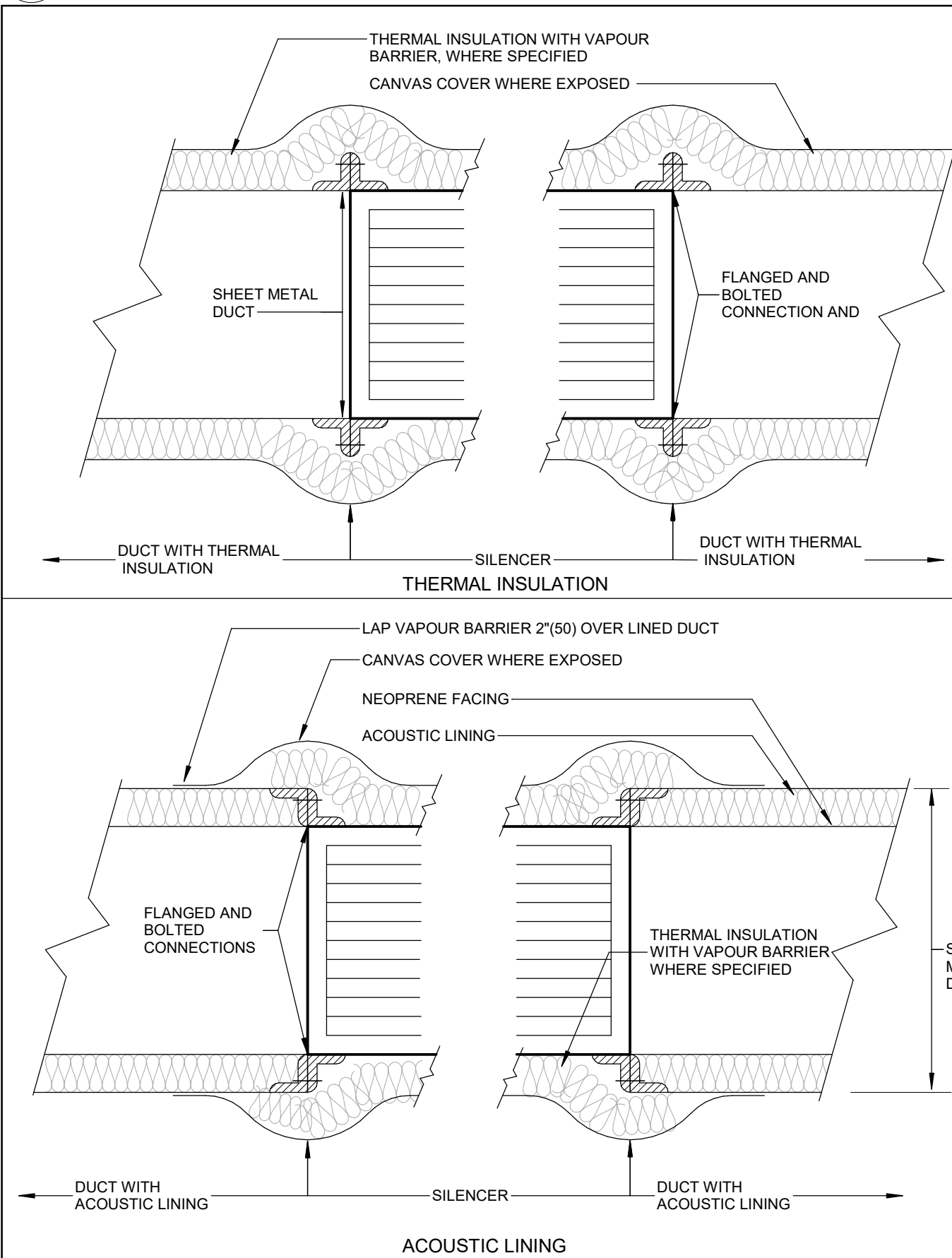
3 SUBMERSIBLE SUMP PUMPS

M-003/ N.T.S.



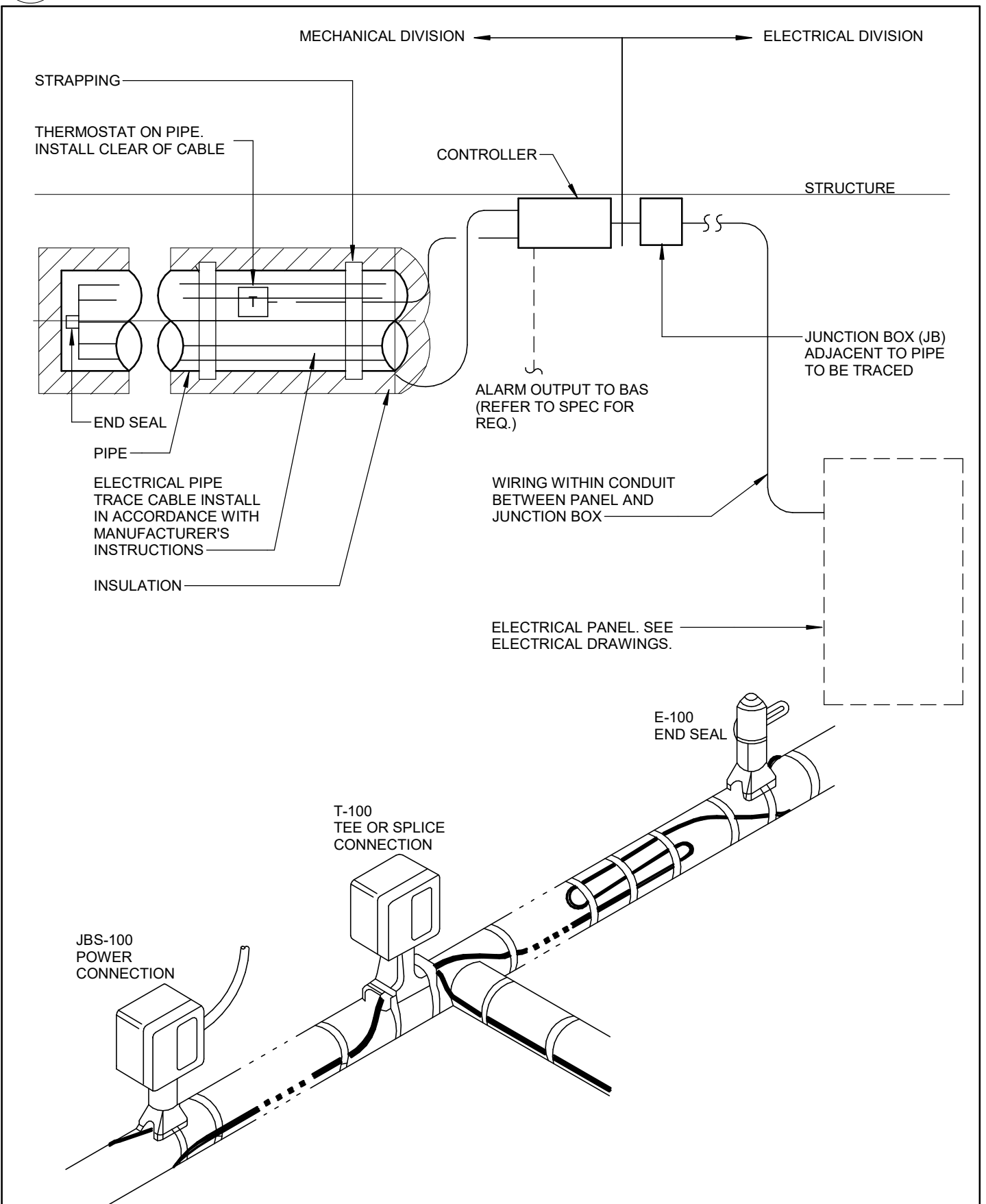
4 TYPICAL UNIT BASE WITH VIBRATION ISOLATORS

M-003/ N.T.S.



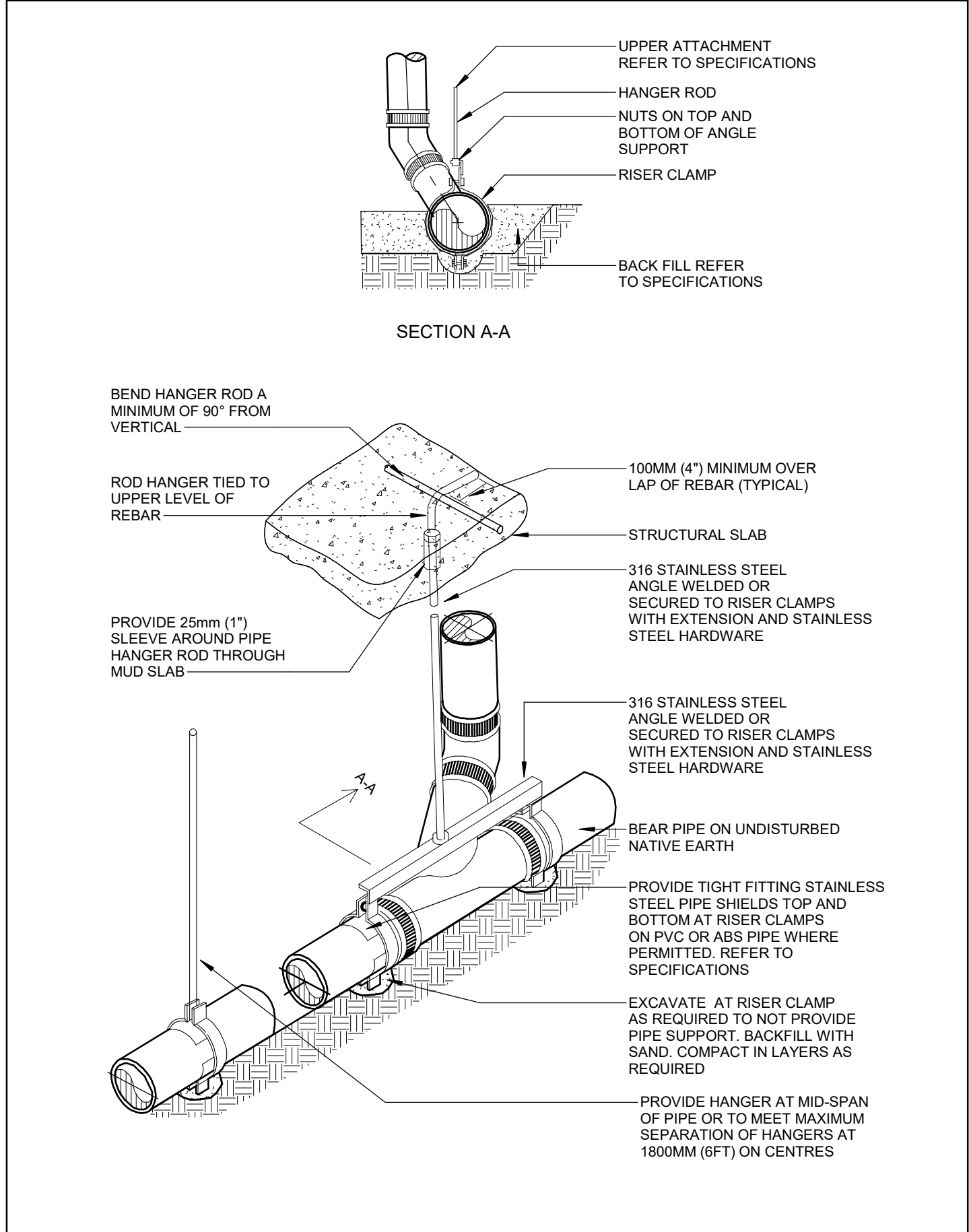
5 SILENCER INSULATION

M-003/ N.T.S.



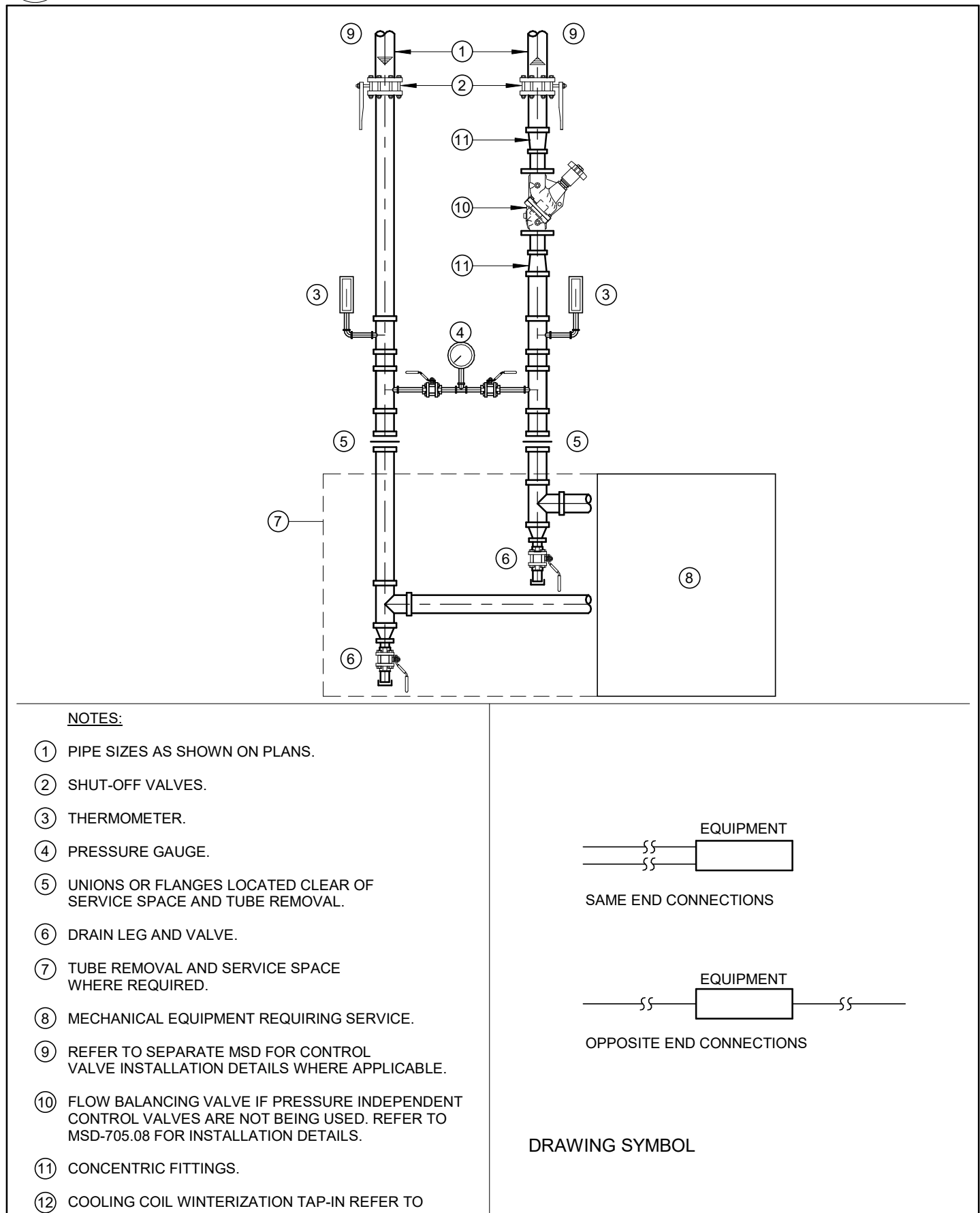
6 ELECTRIC PIPE TRACING

M-003/ N.T.S.



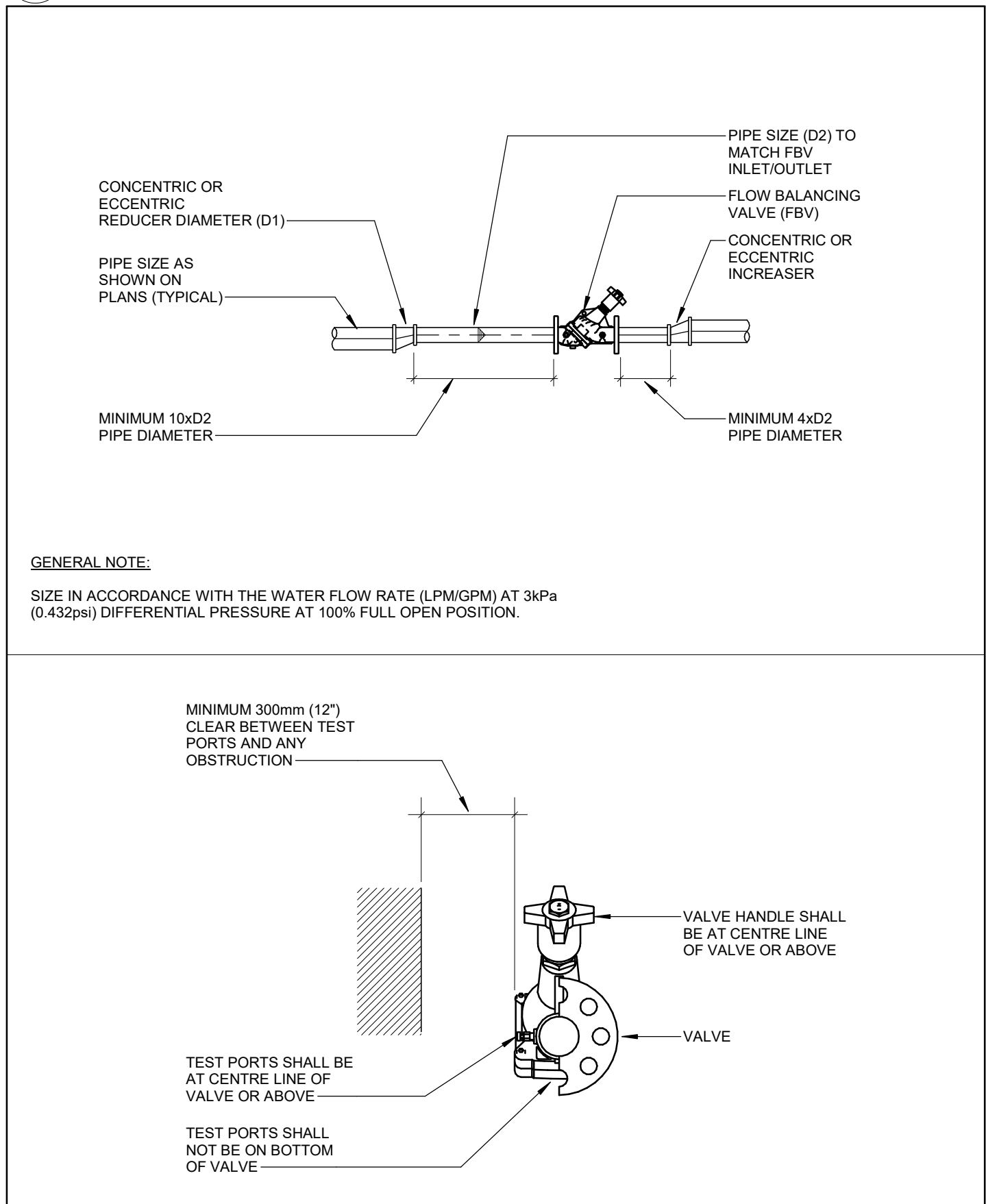
7 BURIED DRAINAGE PIPE BELOW STRUCTURAL SLAB

M-003/ N.T.S.



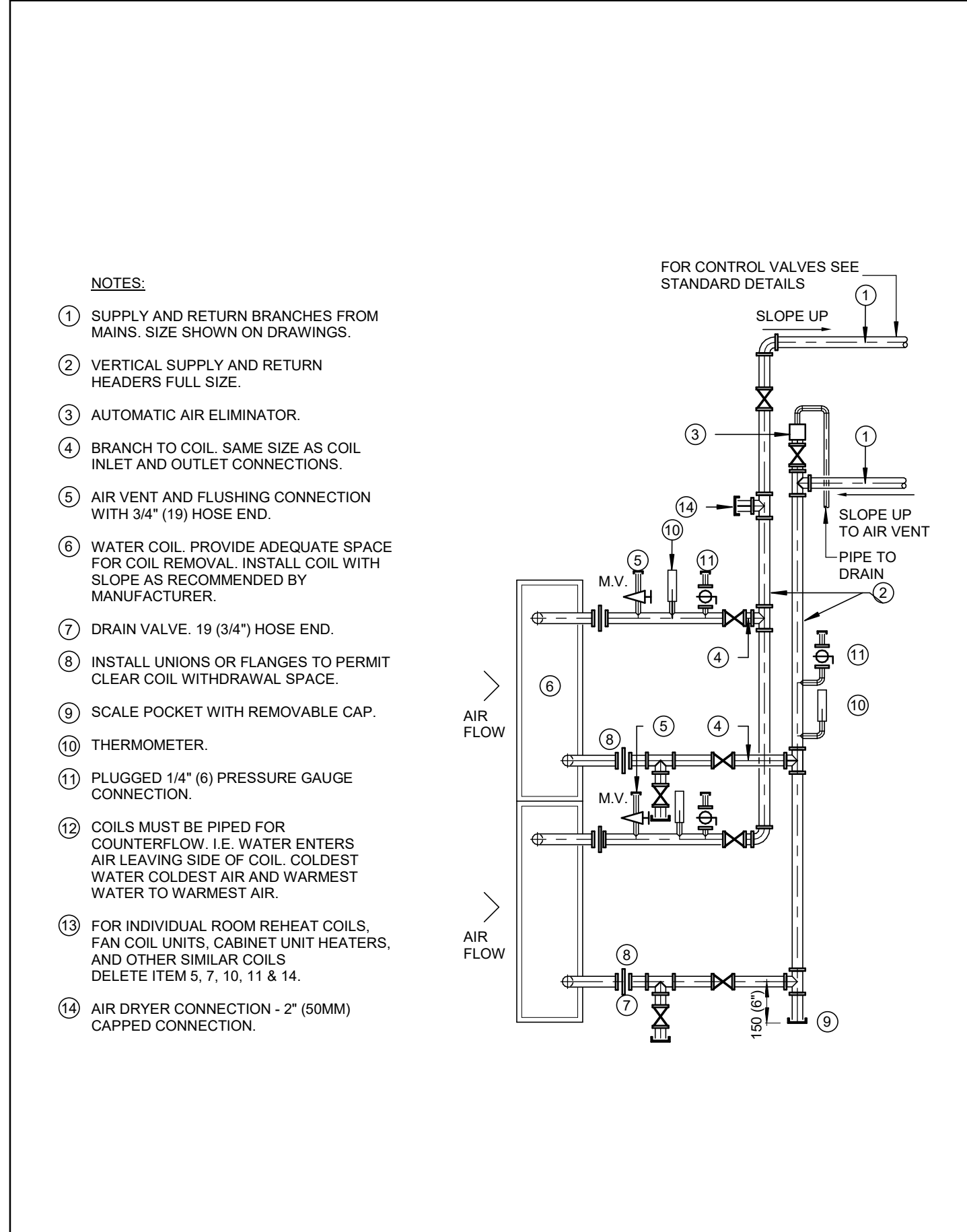
8 EQUIPMENT INSTALLATION

M-003/ N.T.S.



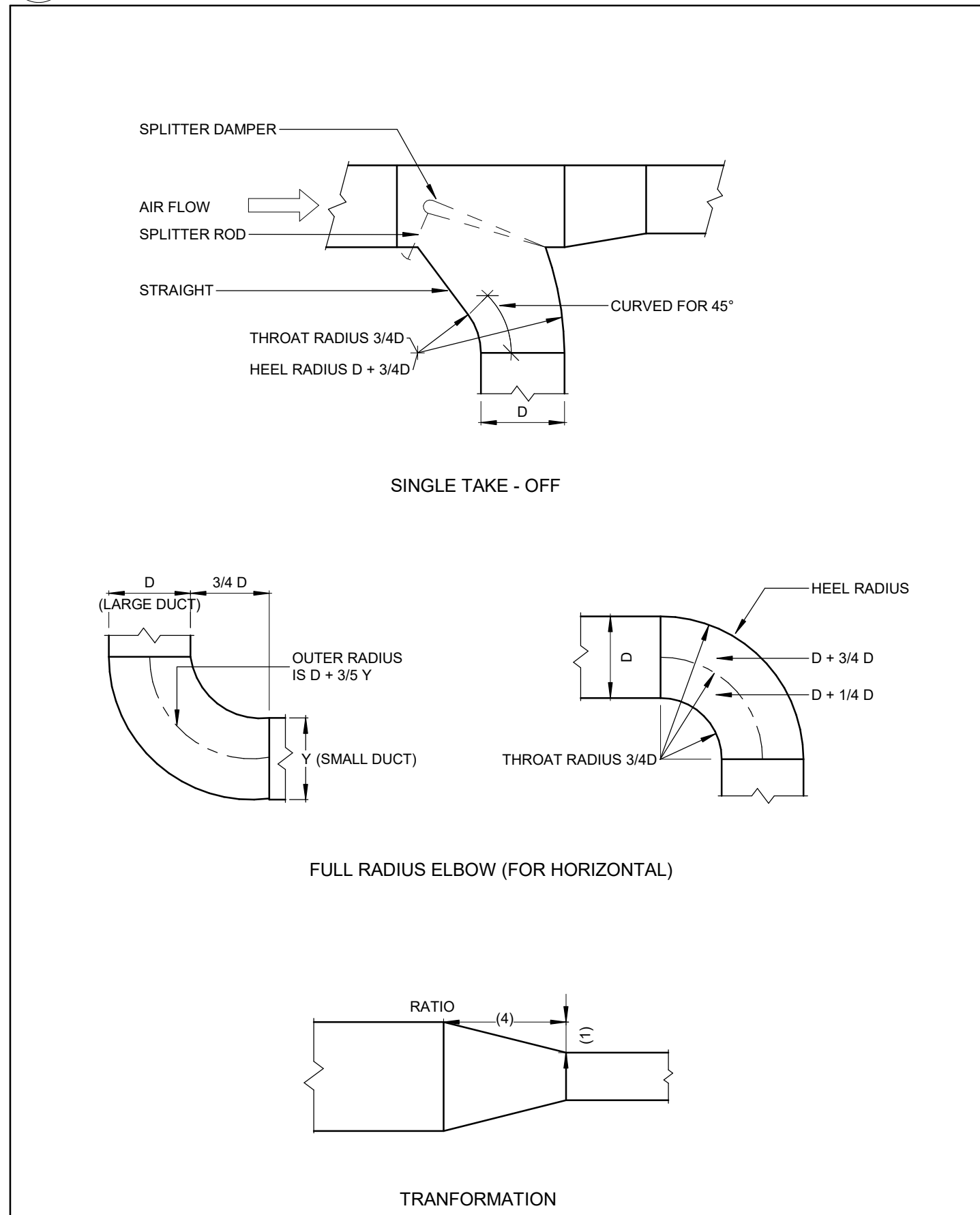
9 TYPICAL FLOW BALANCING VALVE INSTALLATION

M-003/ N.T.S.



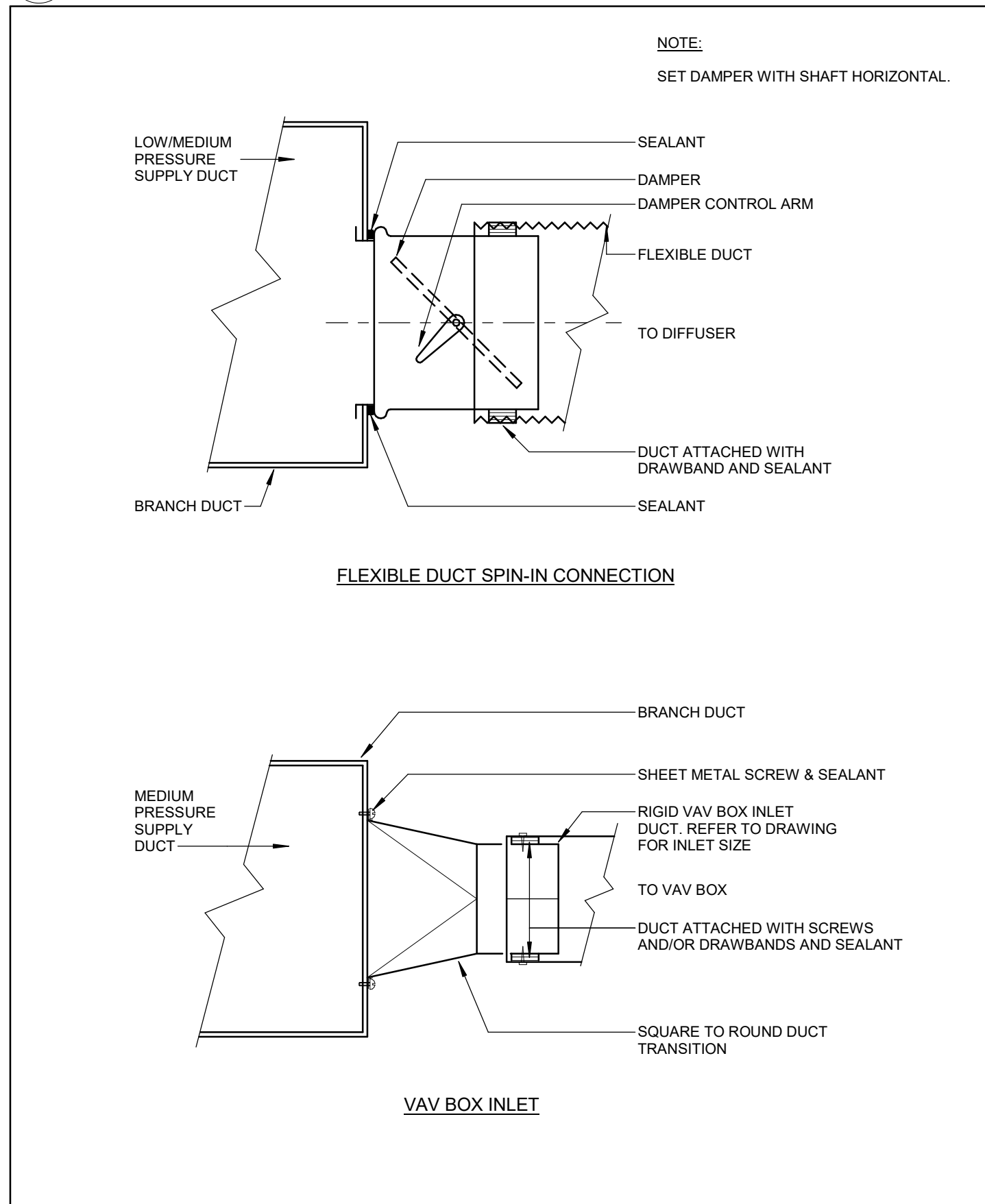
10 WATER COIL CONNECTION

M-003/ N.T.S.



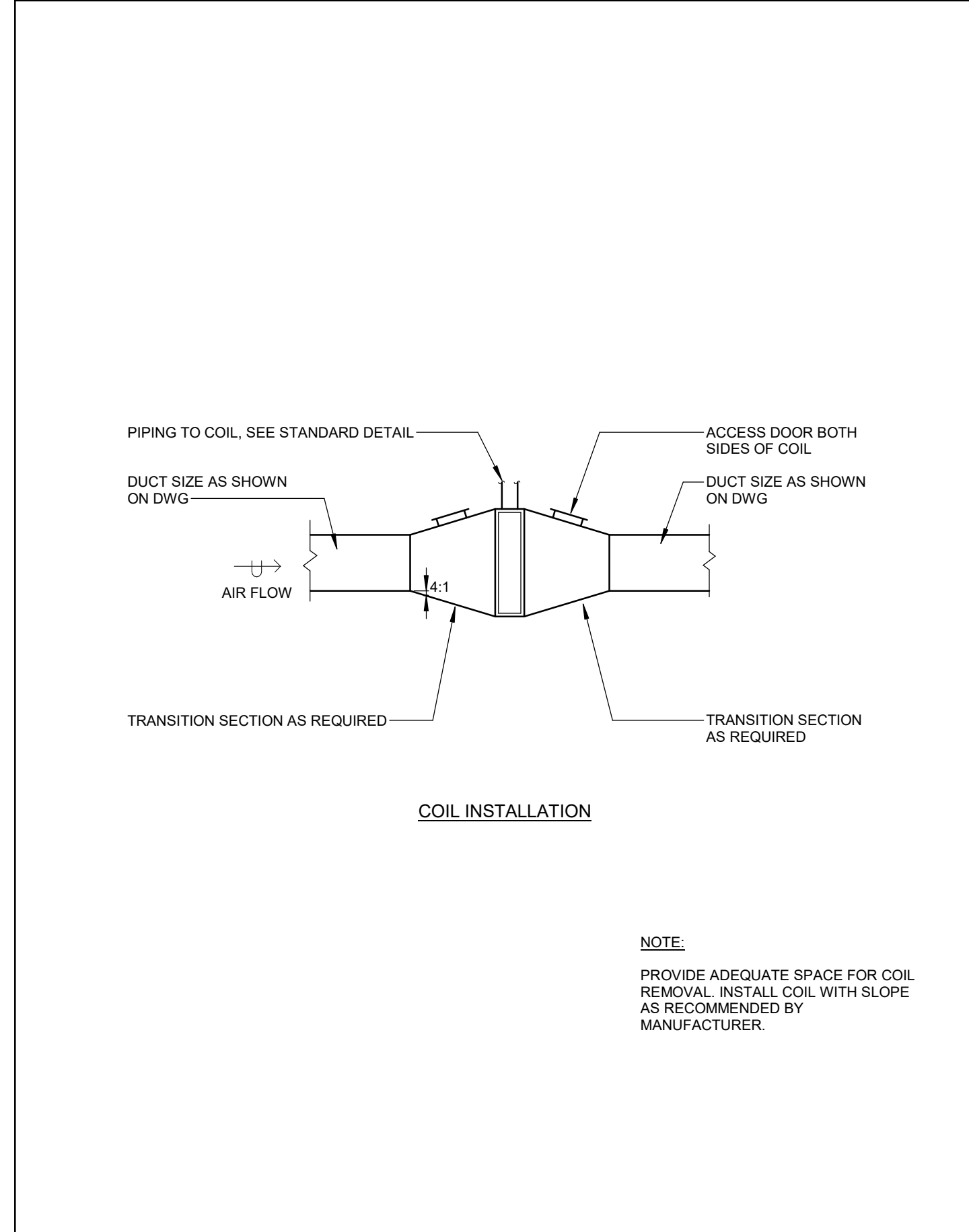
11 DUCT DETAILS

M-003/ N.T.S.



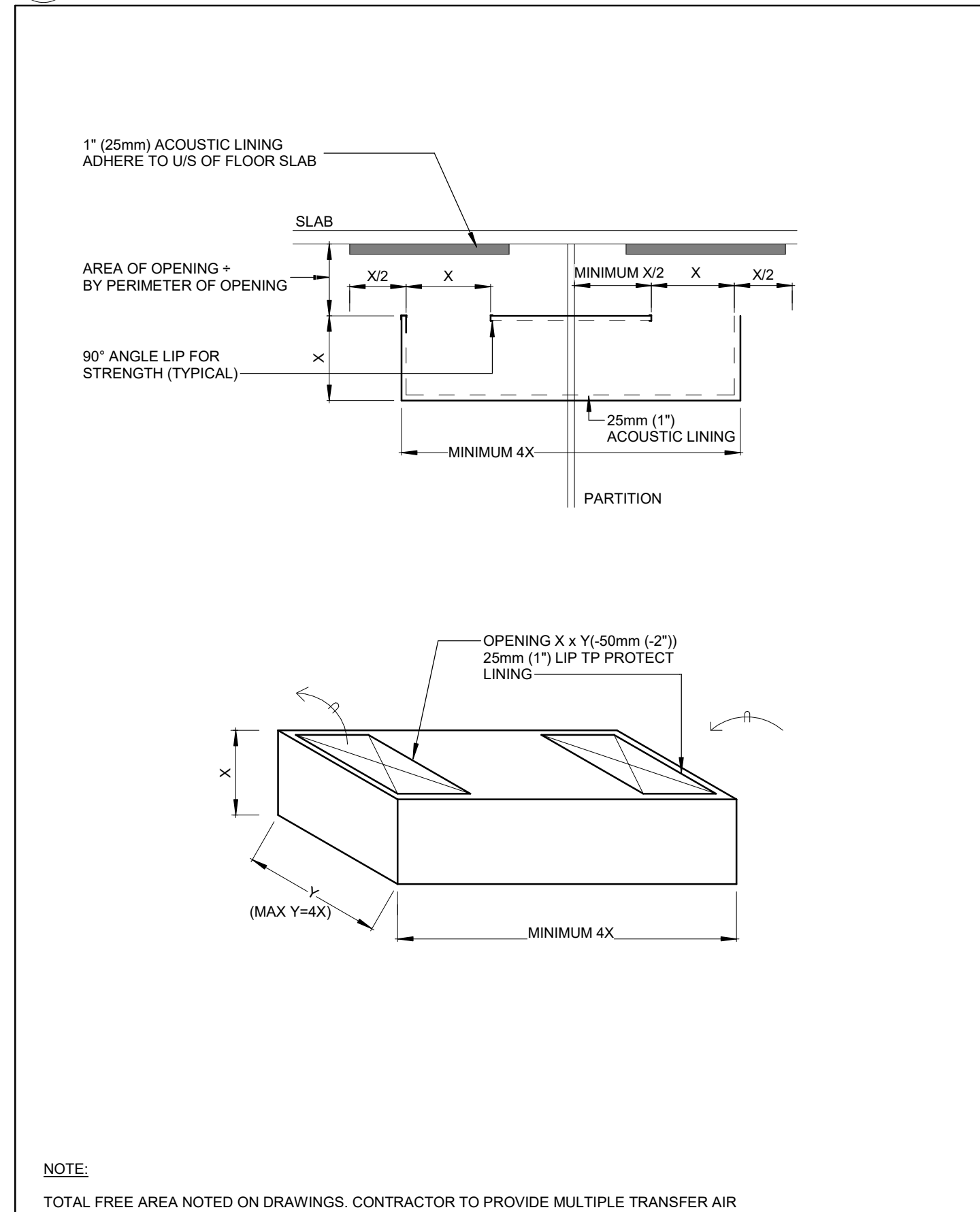
12 FLEXIBLE DUCT CONNECTIONS

M-003/ N.T.S.



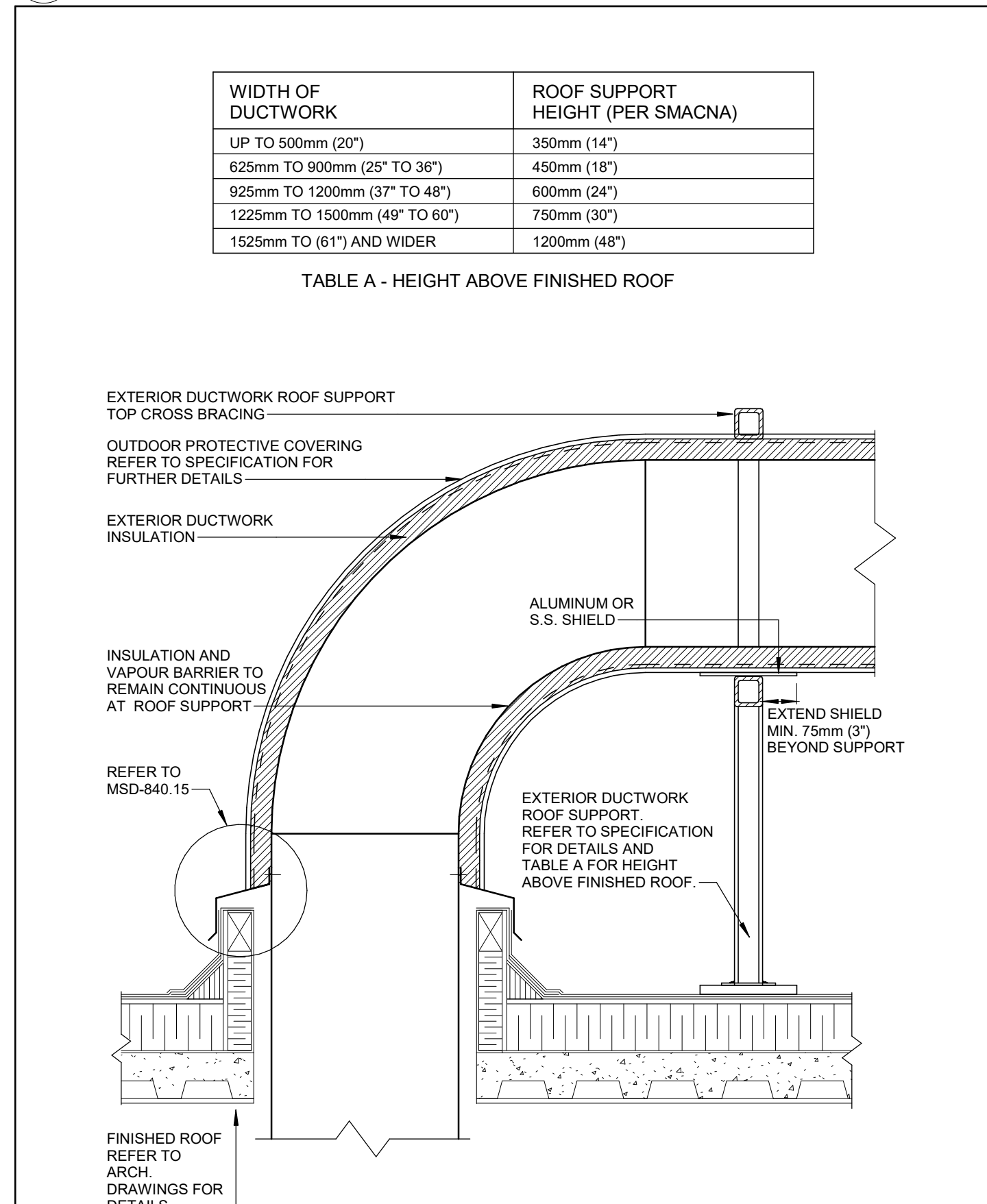
13 WIP DUCT COIL INSTALLATION

M-003/ N.T.S.



14 ACOUSTICALLY LINED TRANSFER DUCT

M-003/ N.T.S.



15 EXTERIOR DUCTWORK ROOF PENETRATION

M-003/ N.T.S.

consultants	CS&P Architects Inc. 2345 Yonge St., Suite 200 Toronto, ON, M4P 2E5 Phone 416.462.5002 Fax 416.462.5040
architect	CS&P Architects Inc. 2345 Yonge St., Suite 200 Toronto, ON, M4P 2E5 Phone 416.462.5002 Fax 416.462.5040
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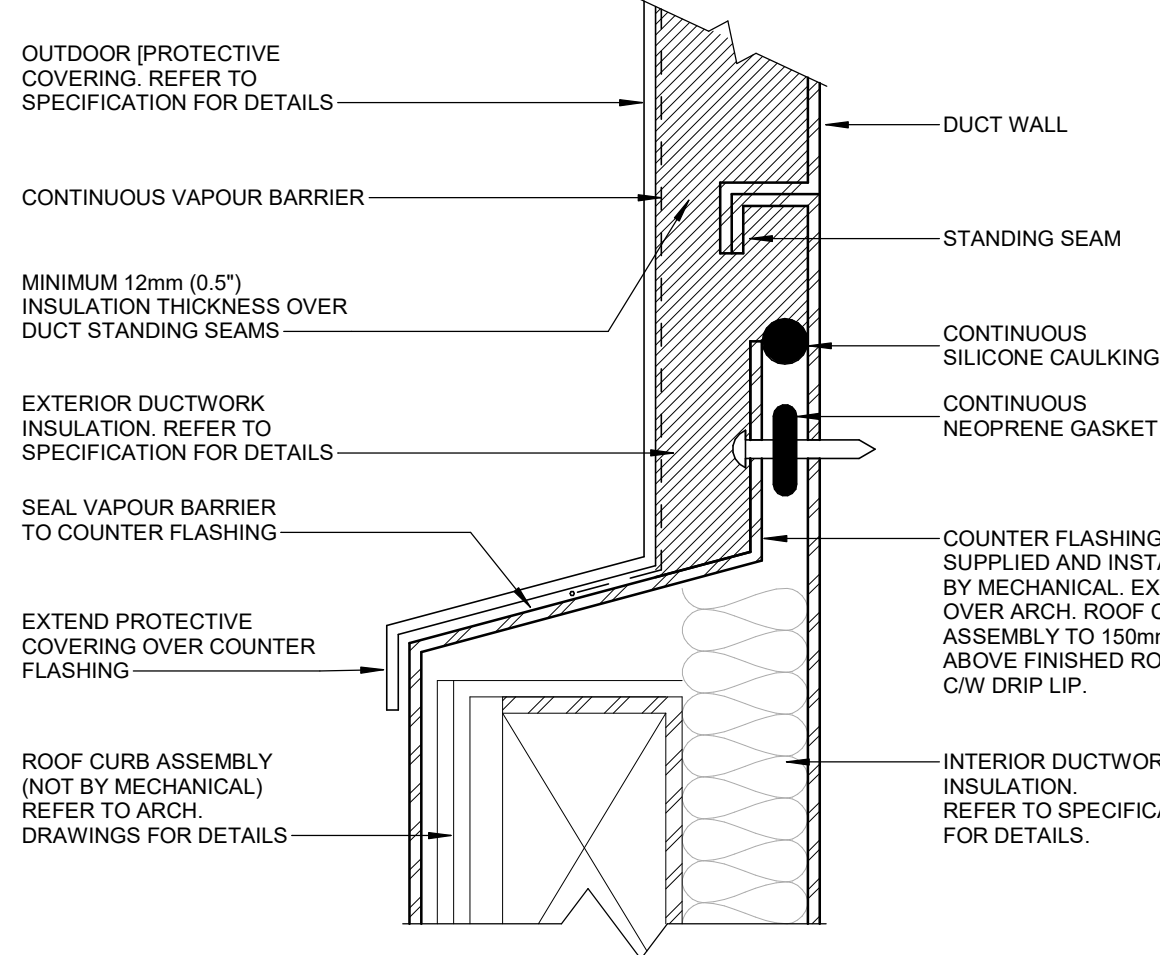


CS&PArchitects

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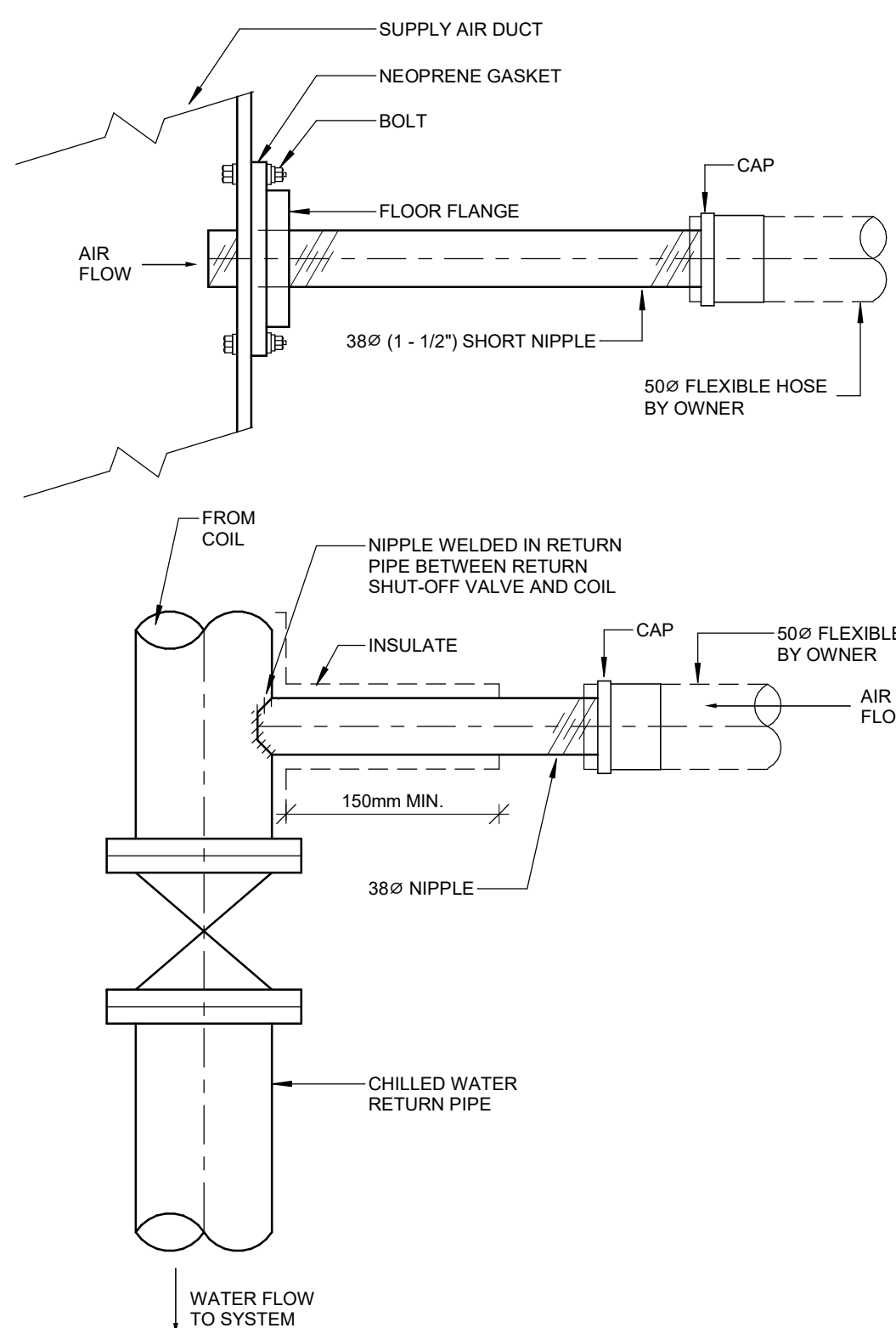
MECHANICAL STANDARD DETAILS

scale: N.T.S.
date: 2025-12-15
drawn: Author
checked by: Checker
project number: 00036-010.M.001
drawing number: M-003
Revision: 5



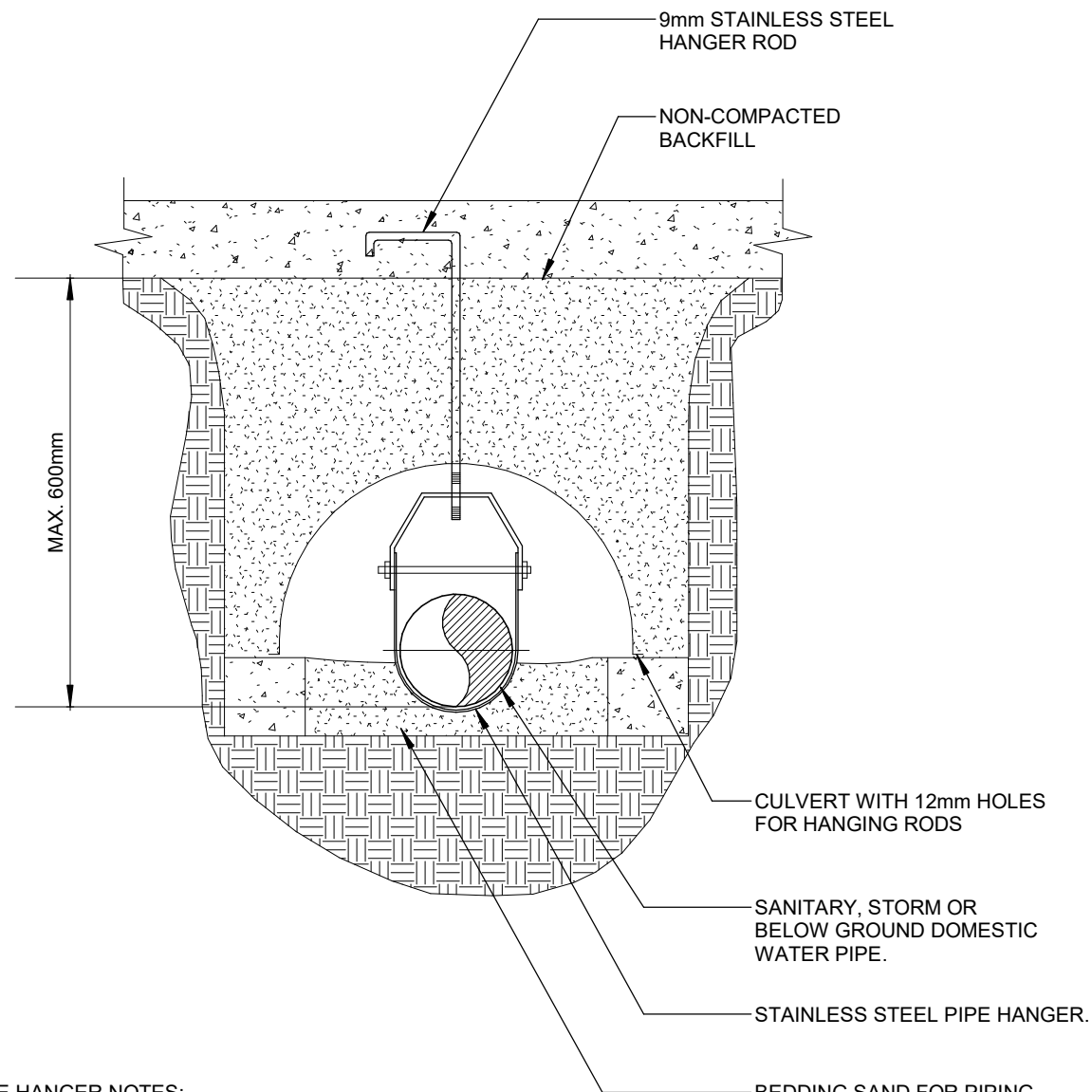
13. COUNTER FLASHING AT EXTERIOR DUCTWORK ROOF PENETRATION

M-004/ N.T.S.



14. COOLING COIL WINTERIZATION

M-004/ N.T.S.



DEEP PIPE HANGER NOTES:

- HANGER AND PIPE INSTALLATIONS IS TO BE INSPECTED PRIOR TO BACKFILL OF PIPING AND AGAIN TO SLAB POUR.
- PIPE HANGERS TO BE MINIMUM OF 2 PER PIPE LENGTH OR MAXIMUM 1524mm ON CENTER.
- REFER TO SHALLOW UNDERGROUND PIPE HANGER DETAIL IF BURIED AT DEPTH BELOW 600mm.

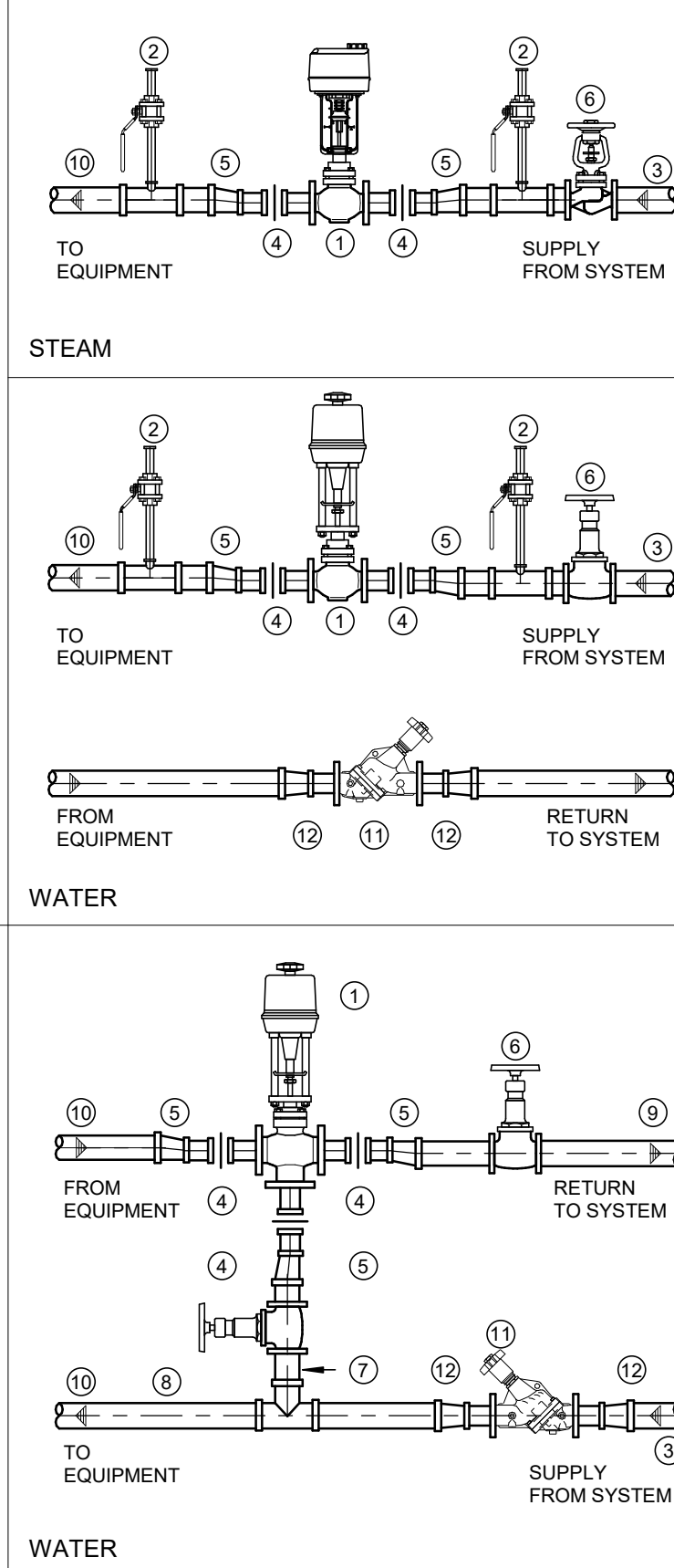
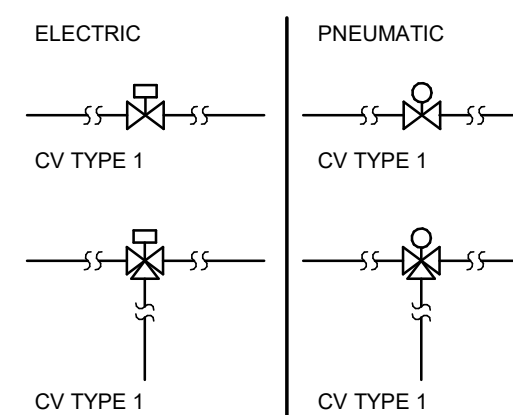
10. BURIED DRAINAGE PIPE BELOW STRUCTURAL SLAB

M-004/ N.T.S.

NOTES:

- CONTROL VALVE (ELECTRIC OR PNEUMATIC REFER TO DRAWING SYMBOLS)
- PLUGGED 6mm (1/4 in.) PRESSURE GAUGE CONNECTION WITH VALVE
- SUPPLY PIPE SIZE AS SHOWN ON PLANS
- UNION OR FLANGE
- ECCENTRIC FITTINGS
- SHUT-OFF VALVE
- BY-PASS FULL SIZE OF SUPPLY PIPE
- GLOBE OR FLOW BALANCING VALVE. REFER TO SPECIFICATION FOR DETAILS
- RETURN PIPE SIZE AS SHOWN ON PLANS
- PIPING TO EQUIPMENT SAME SIZE AS SUPPLY AND/OR RETURN PIPE
- FLOW BALANCING VALVE. REFER TO MSD-FOR INSTALLATION DETAILS. SUBSTITUTE SHUT-OFF VALVE WHERE PRESSURE INDEPENDENT CONTROL VALVE USED. VALVE SHALL BE FULL OF RETURN PIPE
- CONCENTRIC FITTINGS

DRAWING SYMBOL

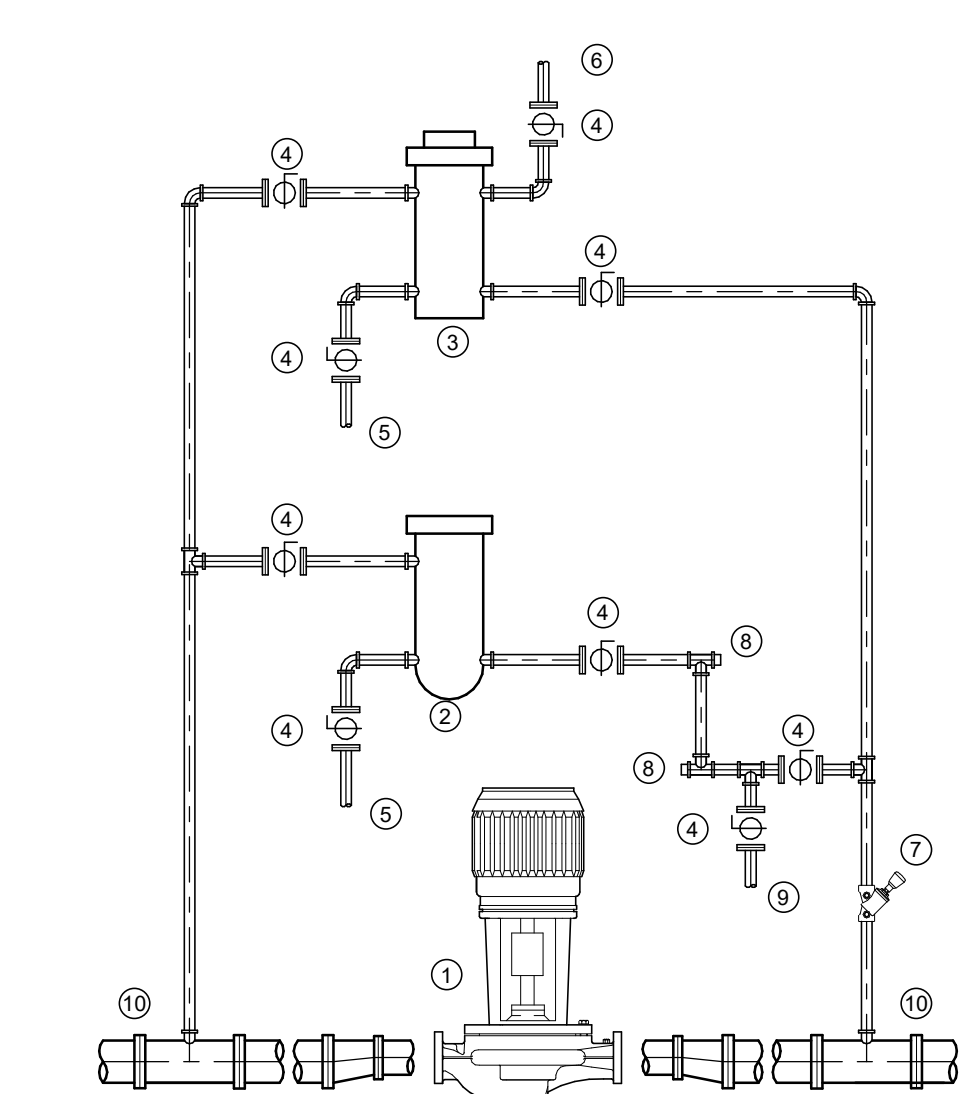


11. CONTROL VALVE TYPE 1

M-004/ N.T.S.

NOTES:

- PUMPS
- FILTER IF NECESSARY PROVIDE REDUCING/INCREASER AT PIPE CONNECTIONS IF NECESSARY
- BYPASS (POT) FEEDER. PROVIDE REDUCING/INCREASER AT PIPE CONNECTIONS IF NECESSARY
- SHUT-OFF/ISOLATION VALVE
- PIPE TO NEAREST DRAIN
- VENT
- FLOW BALANCING VALVE
- TEE CW TEST COUPON
- TEST CONNECTION
- REFER TO SCHEDULE FOR FILTER AND BYPASS FEEDER PIPE SIZES



BYPASS (POT) FEEDER PIPING SCHEMATIC FOR CHILLED AND HOT WATER CLOSED SYSTEMS.

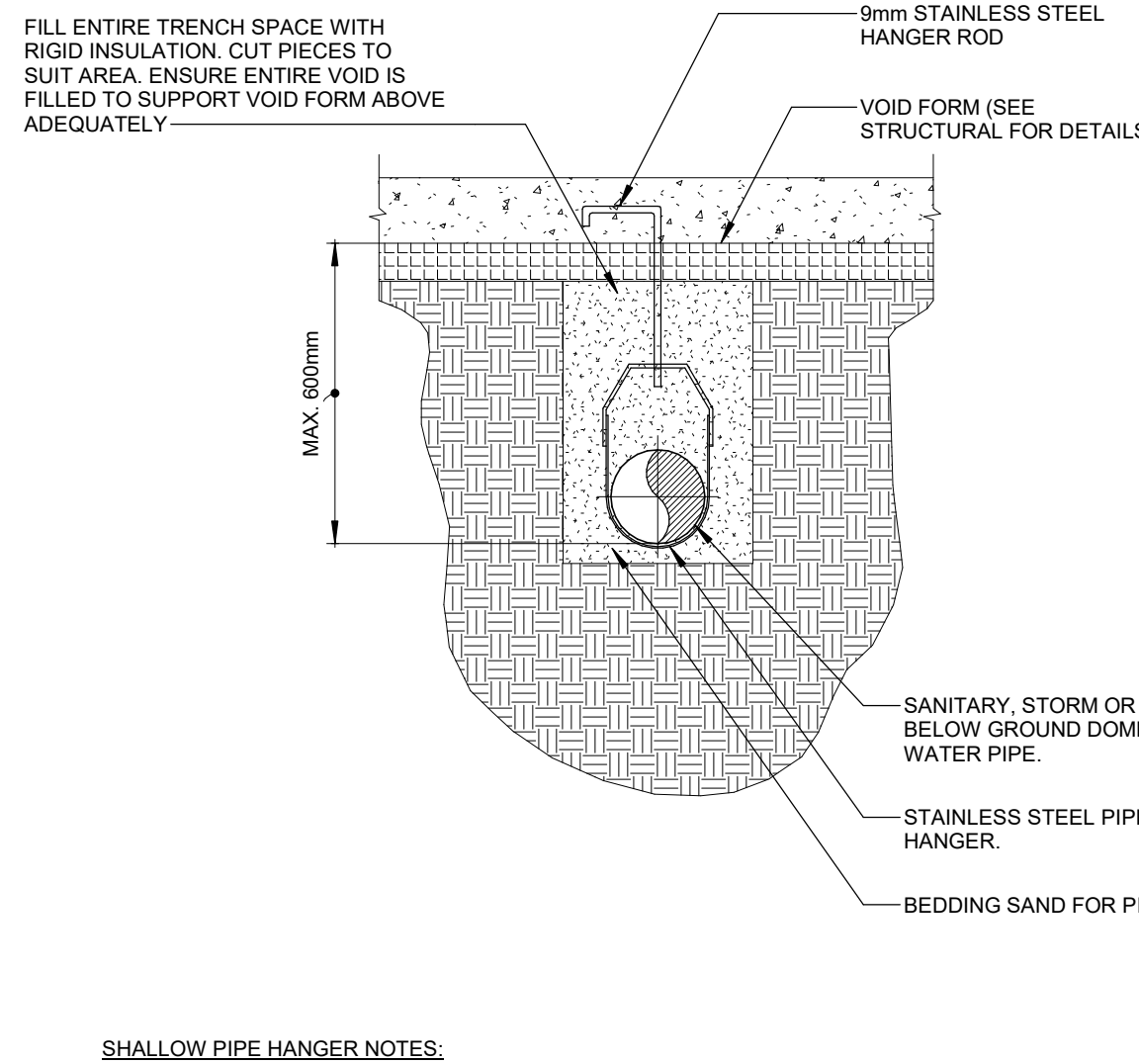
PIPE SIZE SCHEDULE

PIPE SIZE	SYSTEM CAPACITY*
12" (1/2")	0 - 3.1 L/s (0 - 50 USGPM)
19" (3/4")	3.2 - 7.2 L/s (51 - 115 USGPM)
25" (1")	7.3 - 13.5 L/s (116 - 215 USGPM)
32" (1-1/4")	13.6 - 29.3 L/s (216 - 465 USGPM)
38" (1-1/2")	29.4 - 41.9 L/s (468 - 665 USGPM)
50" (2")	42.0 - 83.9 L/s (666 - 1330 USGPM)

*PIPE SIZE SHALL BE BASED ON 1% OF SYSTEM CAPACITY FLOW AT A 3 FT./100 FT. PRESSURE DROP FOR WATER SYSTEMS GREATER THAN THOSE LISTED.

12. BYPASS (POT) FEEDER AND FILTER PIPING

M-004/ N.T.S.

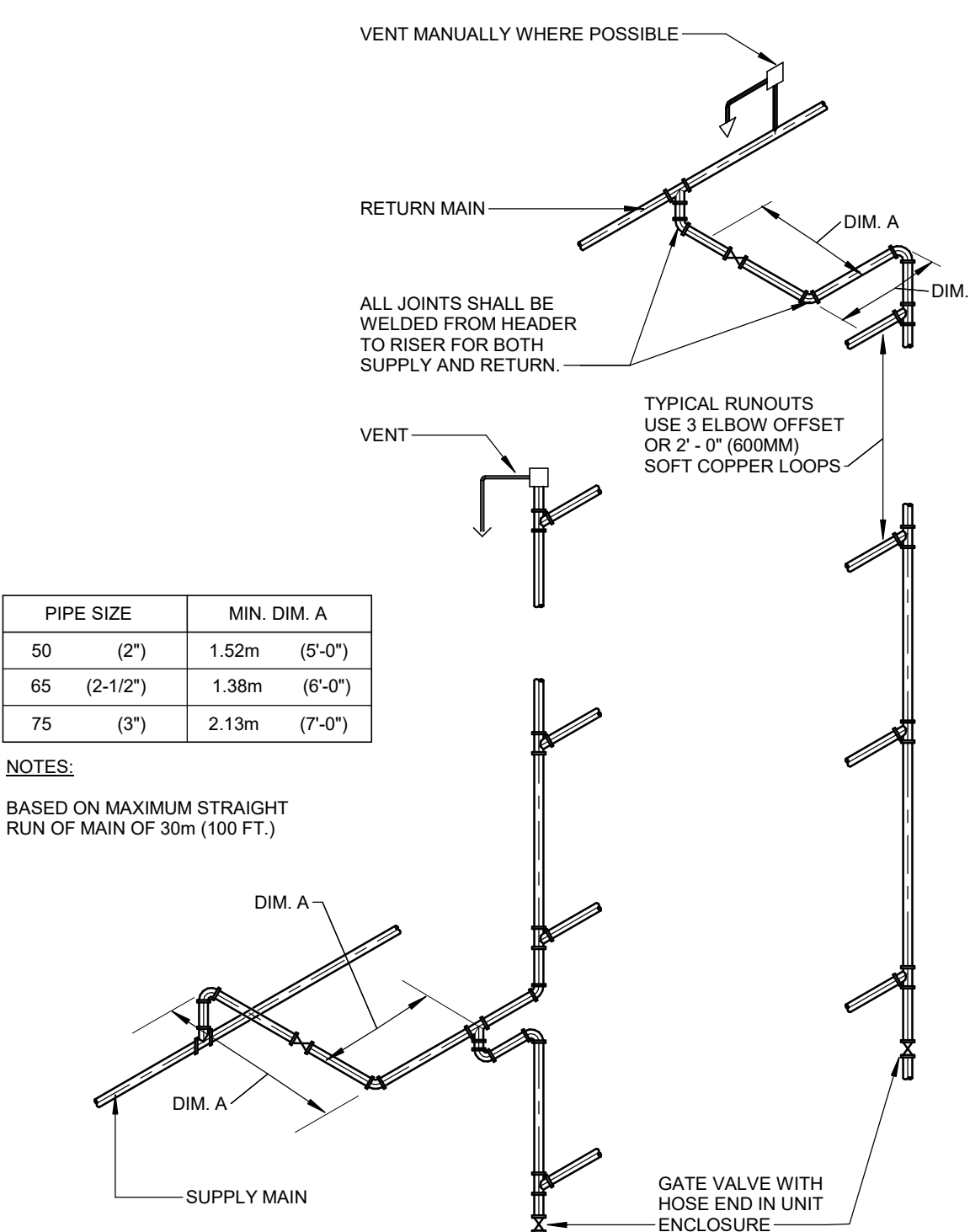


SHALLOW PIPE HANGER NOTES:

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- REFER TO DEEP UNDERGROUND PIPE HANGER DETAIL IF BURIED AT DEPTH BELOW 600mm.

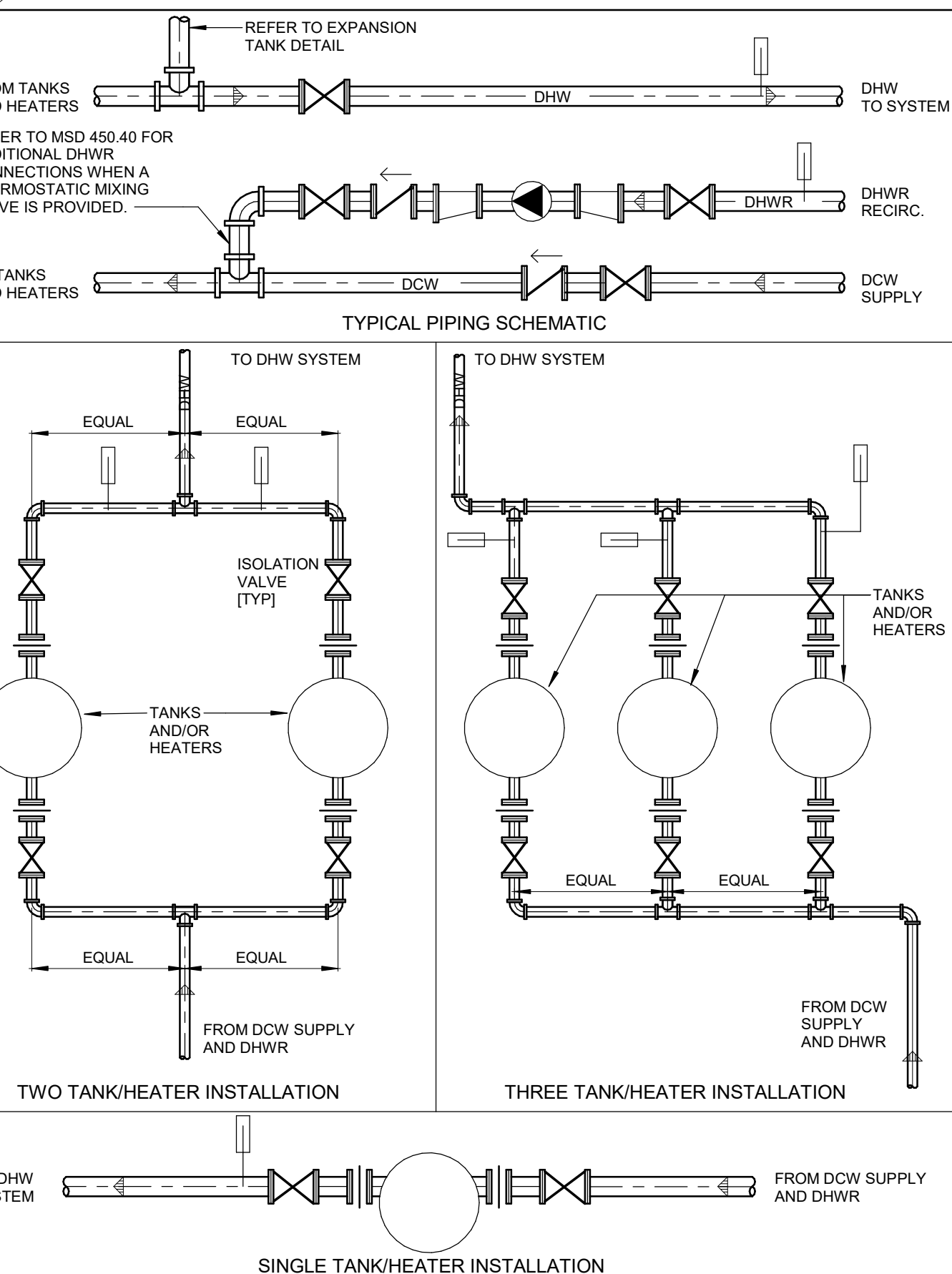
9. SHALLOW PIPE HANGER DETAIL FOR BURIED PIPE BELOW STRUCTURAL SLAB

M-004/ N.T.S.



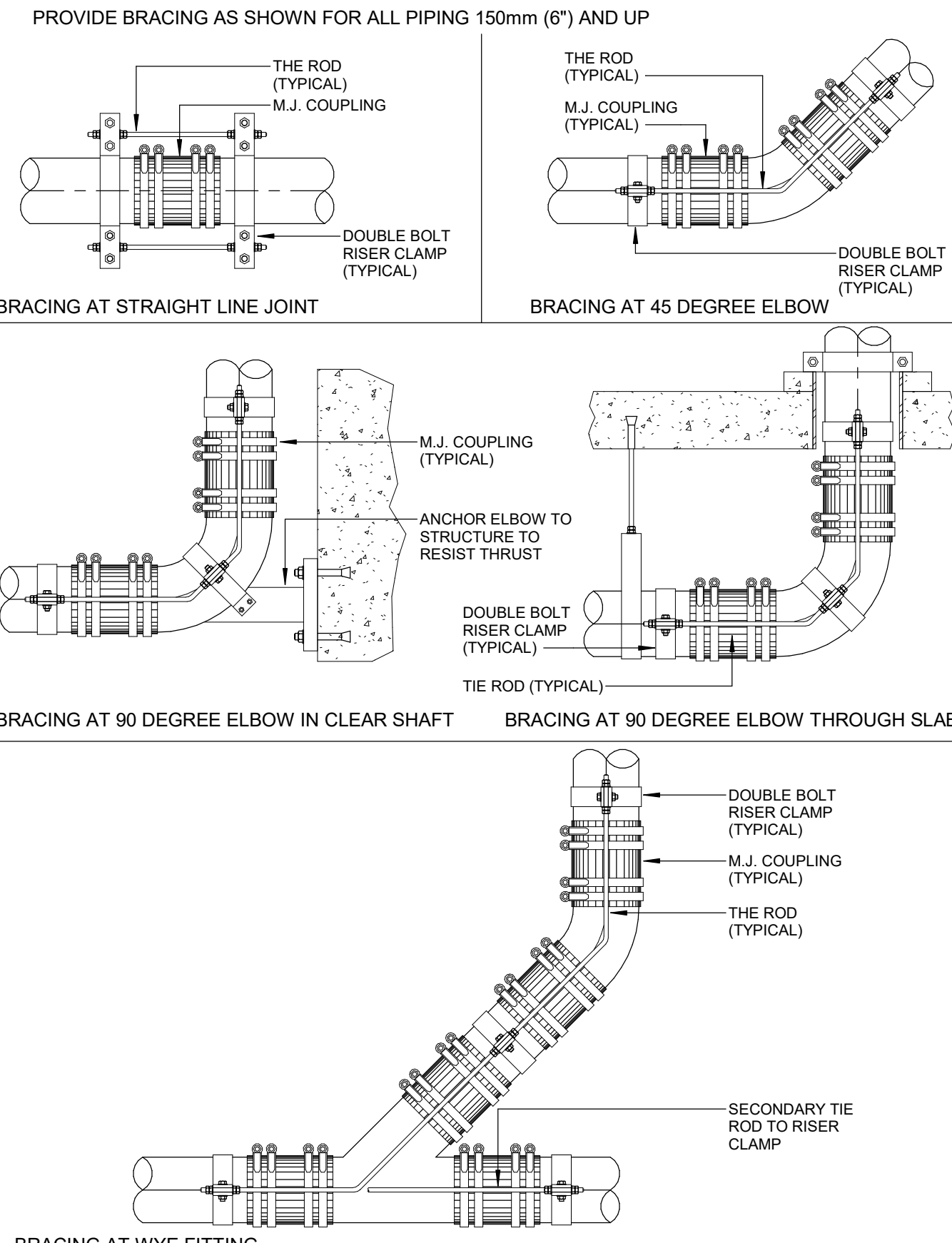
9. PIPE EXPANSION OFFSETS

M-004/ N.T.S.



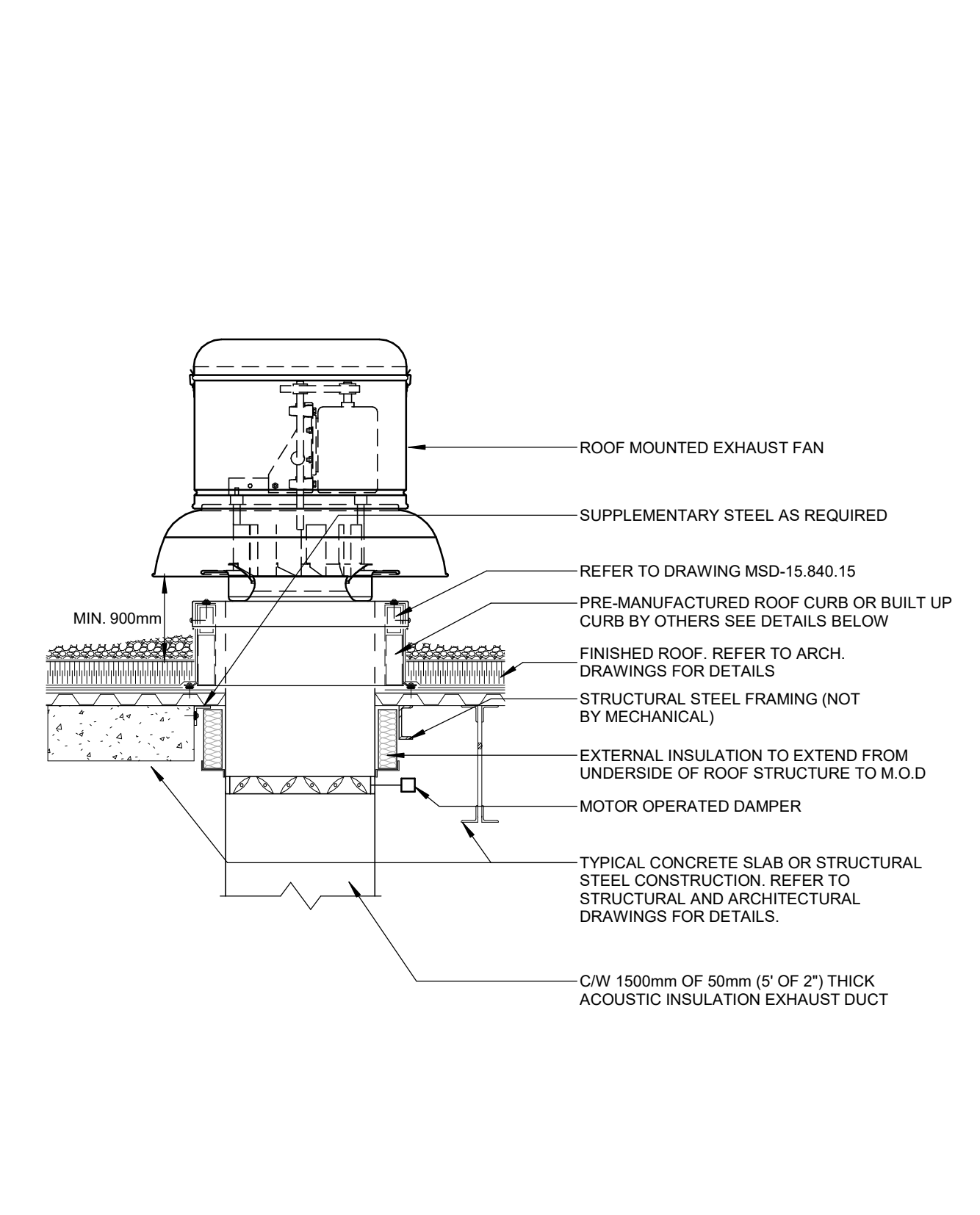
9. DOMESTIC HOT WATER HEATERS

M-004/ N.T.S.



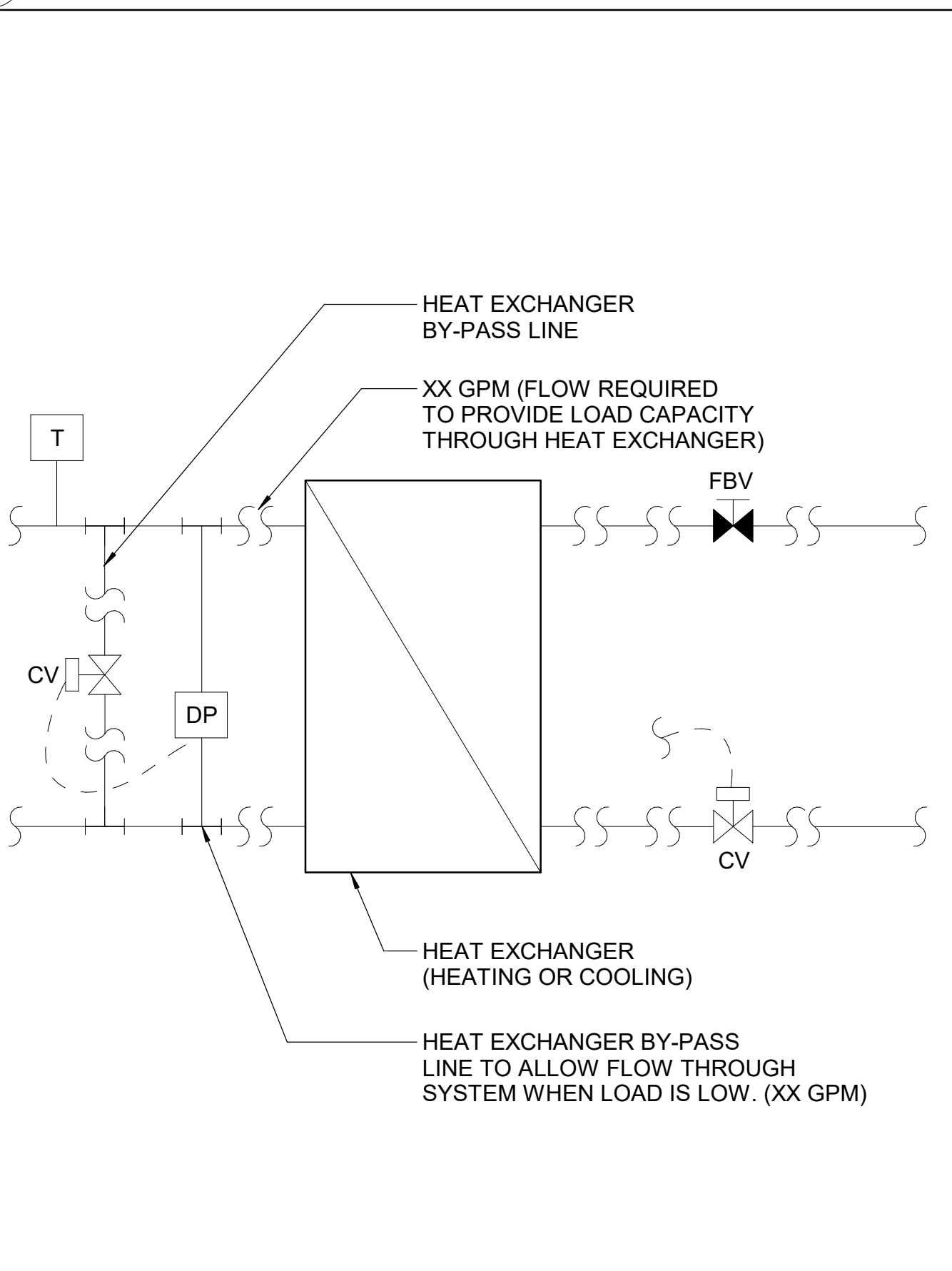
4. MECHANICAL JOINT SPACING

M-004/ N.T.S.



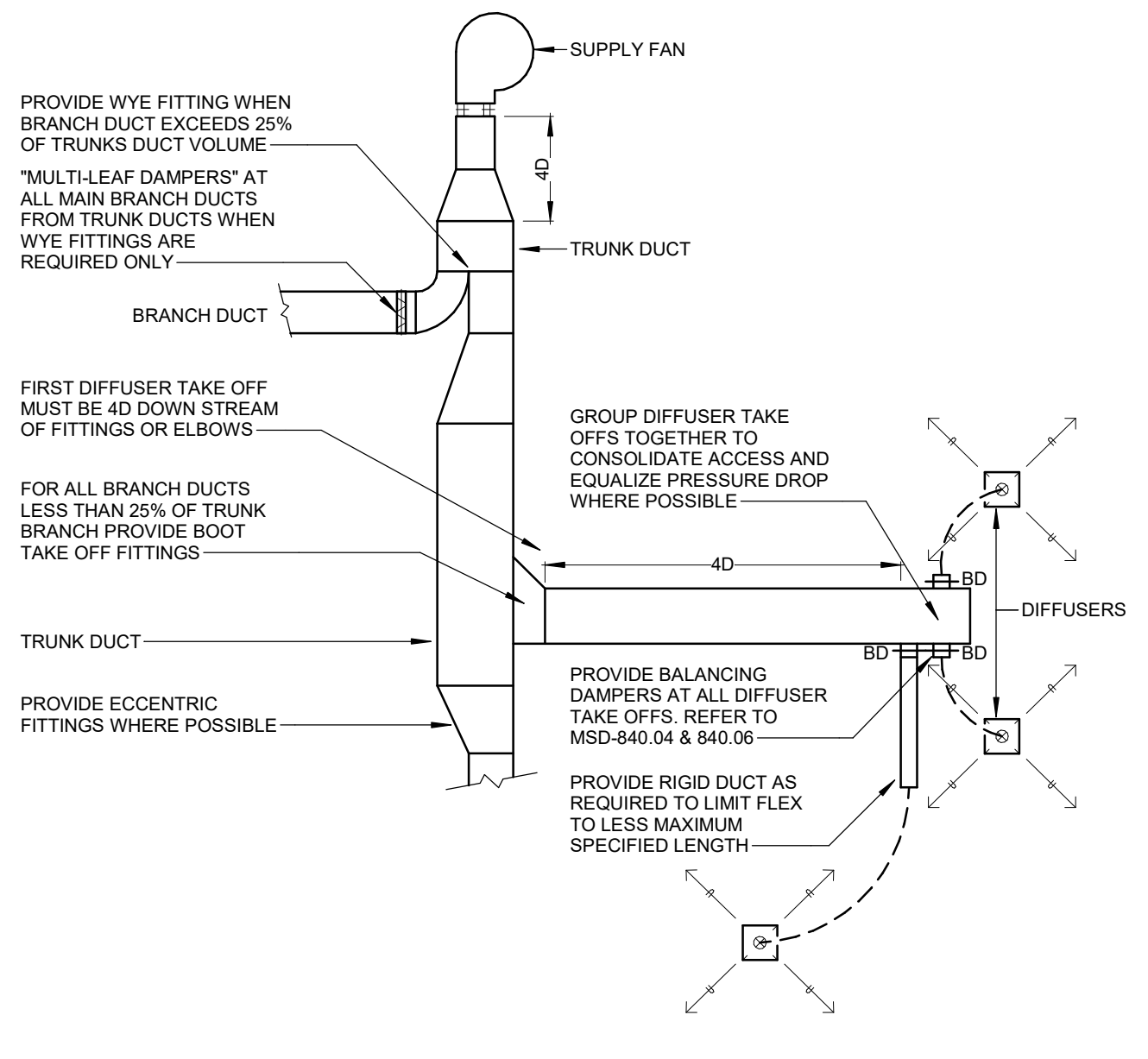
5. ROOF MOUNTED EXHAUST FAN

M-004/ N.T.S.



6. MSD-15.860.17 - HEAT EXCHANGER

M-004/ N.T.S.

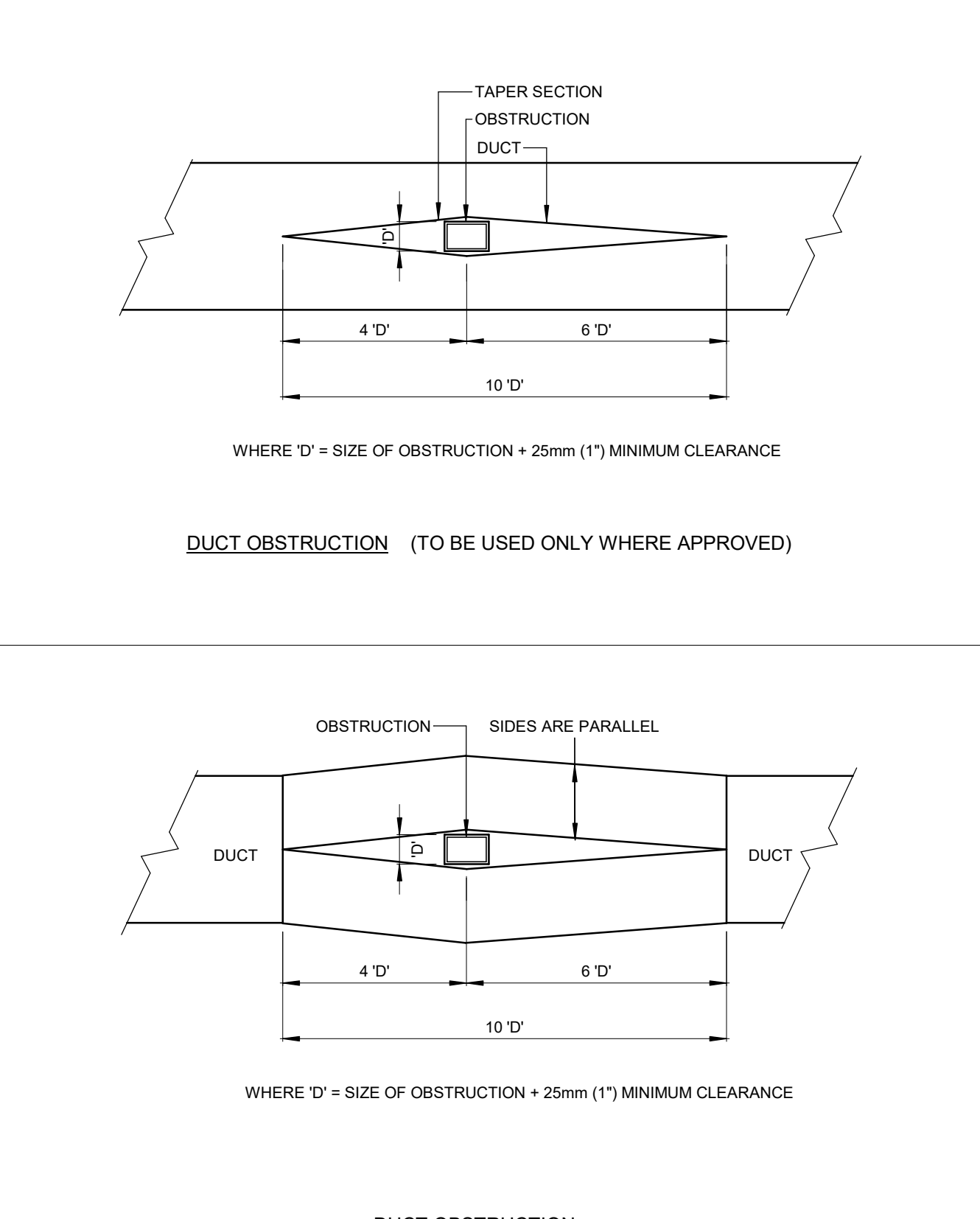


DEFINITIONS:

- TRUNK DUCT: SERVING TWO OR MORE MAIN BRANCH DUCTS
MAIN BRANCH DUCT: SERVING TWO OR MORE BRANCH DUCTS
BRANCH DUCT: SERVING TWO OR MORE DIFFUSERS
OUTLET DUCTS: SERVING ONE DIFFUSER

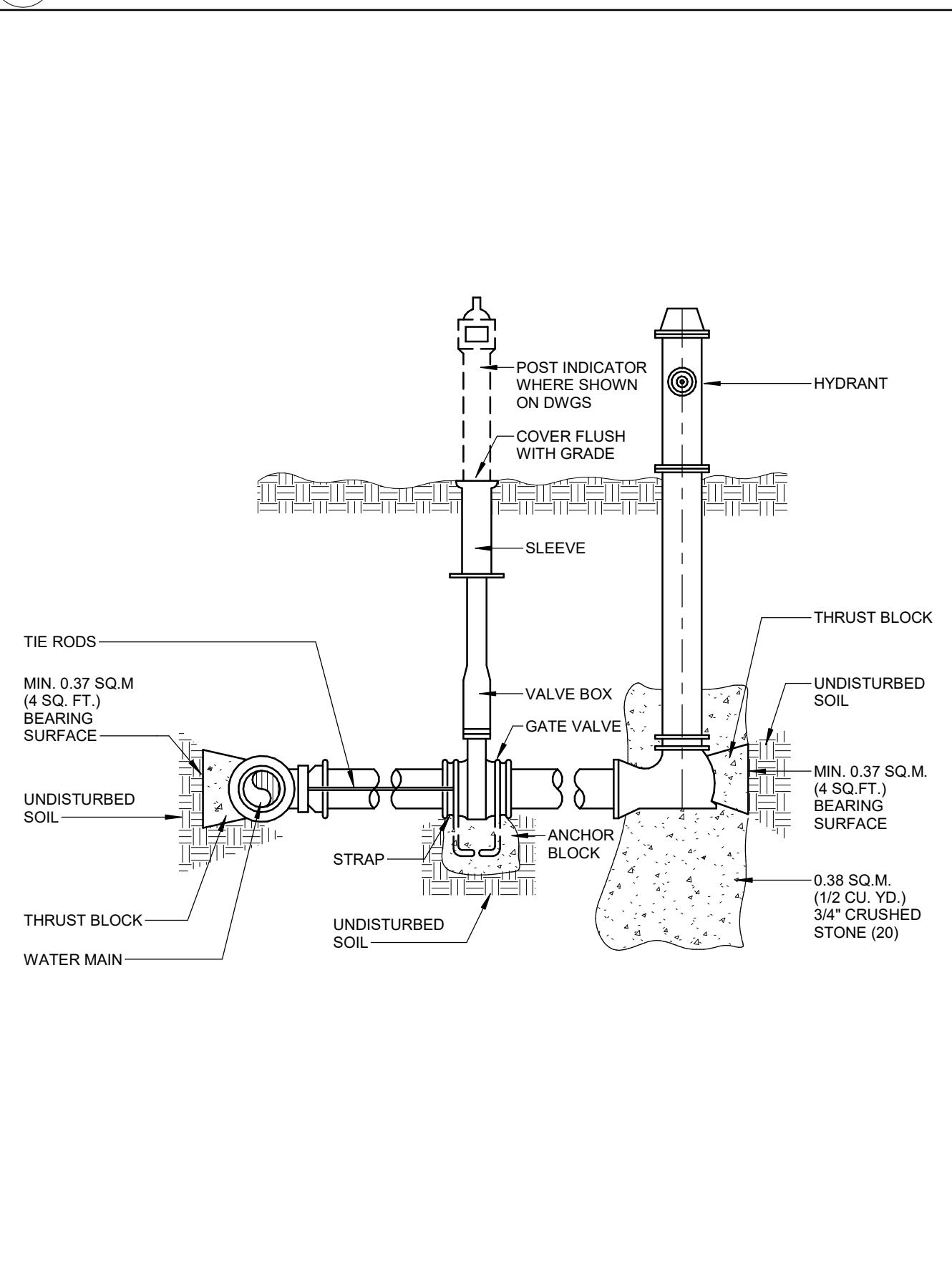
1. BALANCING DAMPERS

M-004/ N.T.S.



2. DUCT OBSTRUCTIONS

M-004/ N.T.S.



3. HYDRANT AND VALVE

M-004/ N.T.S.

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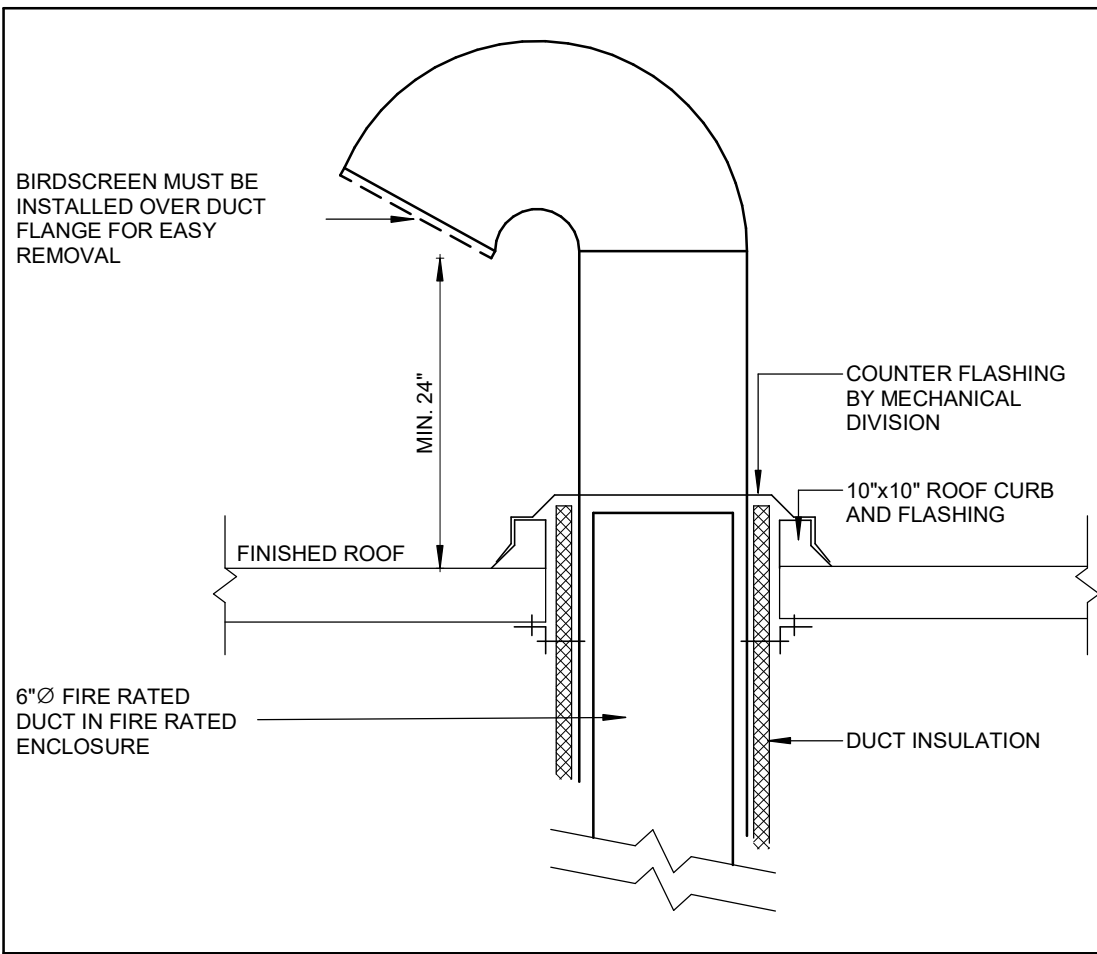
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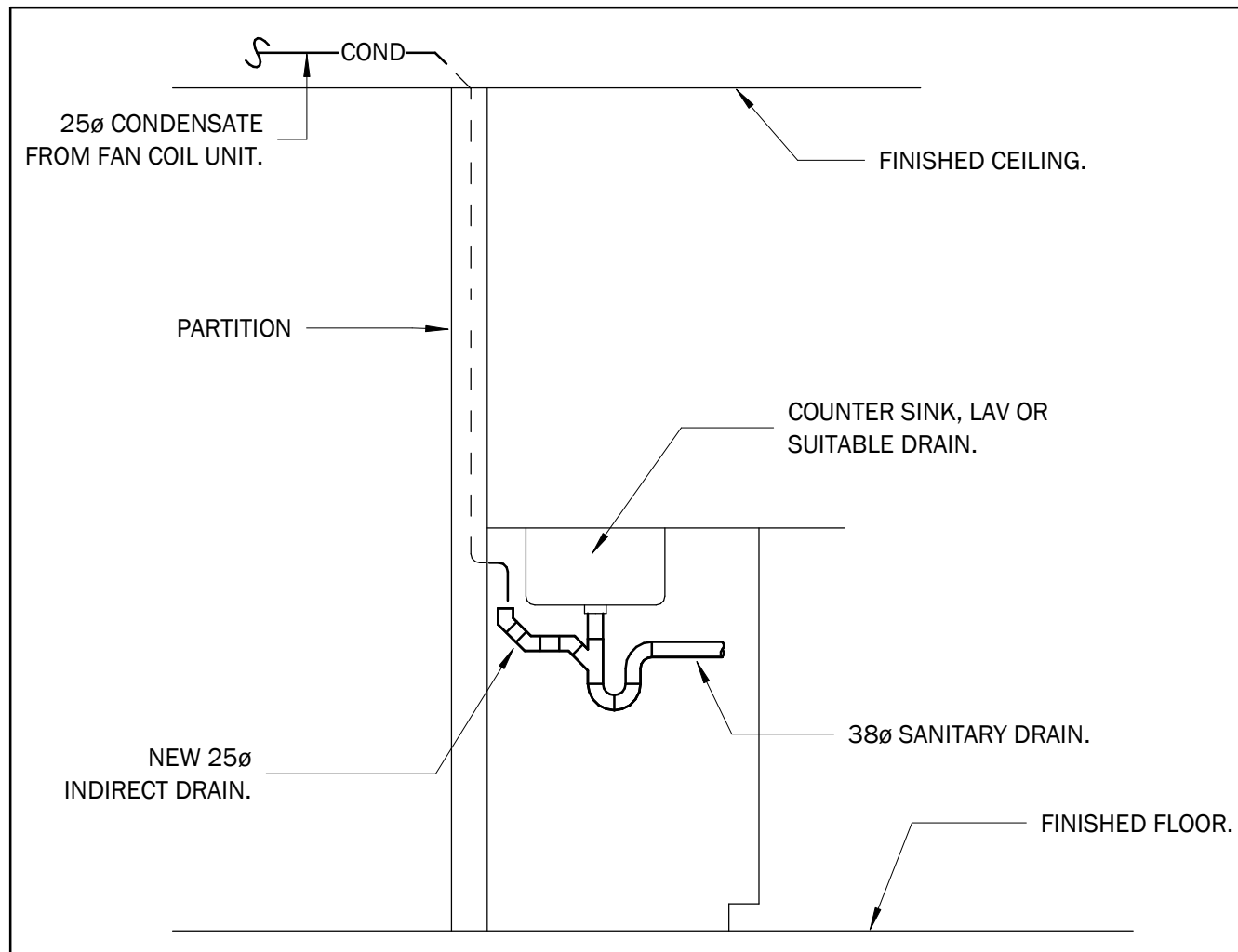
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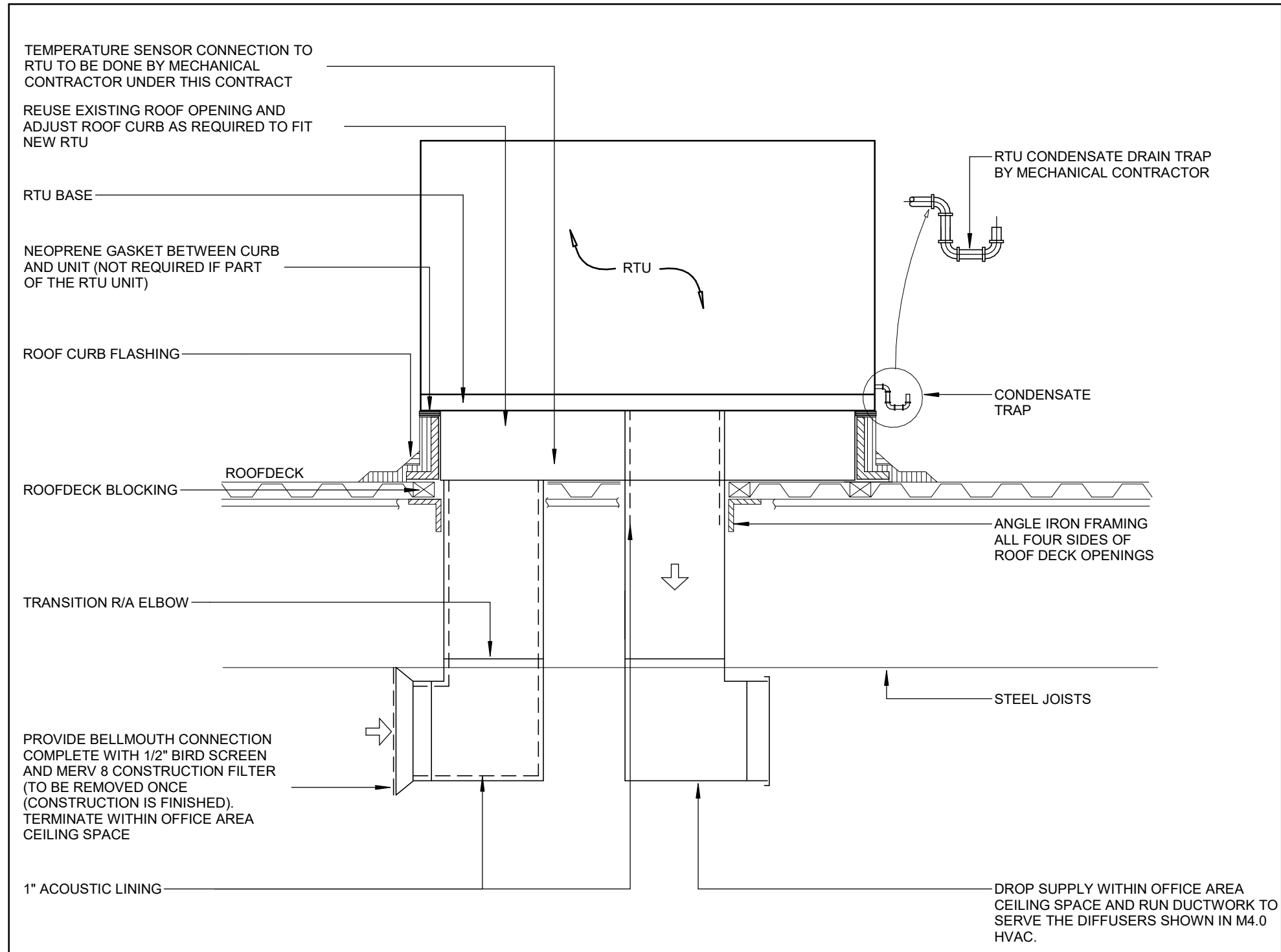
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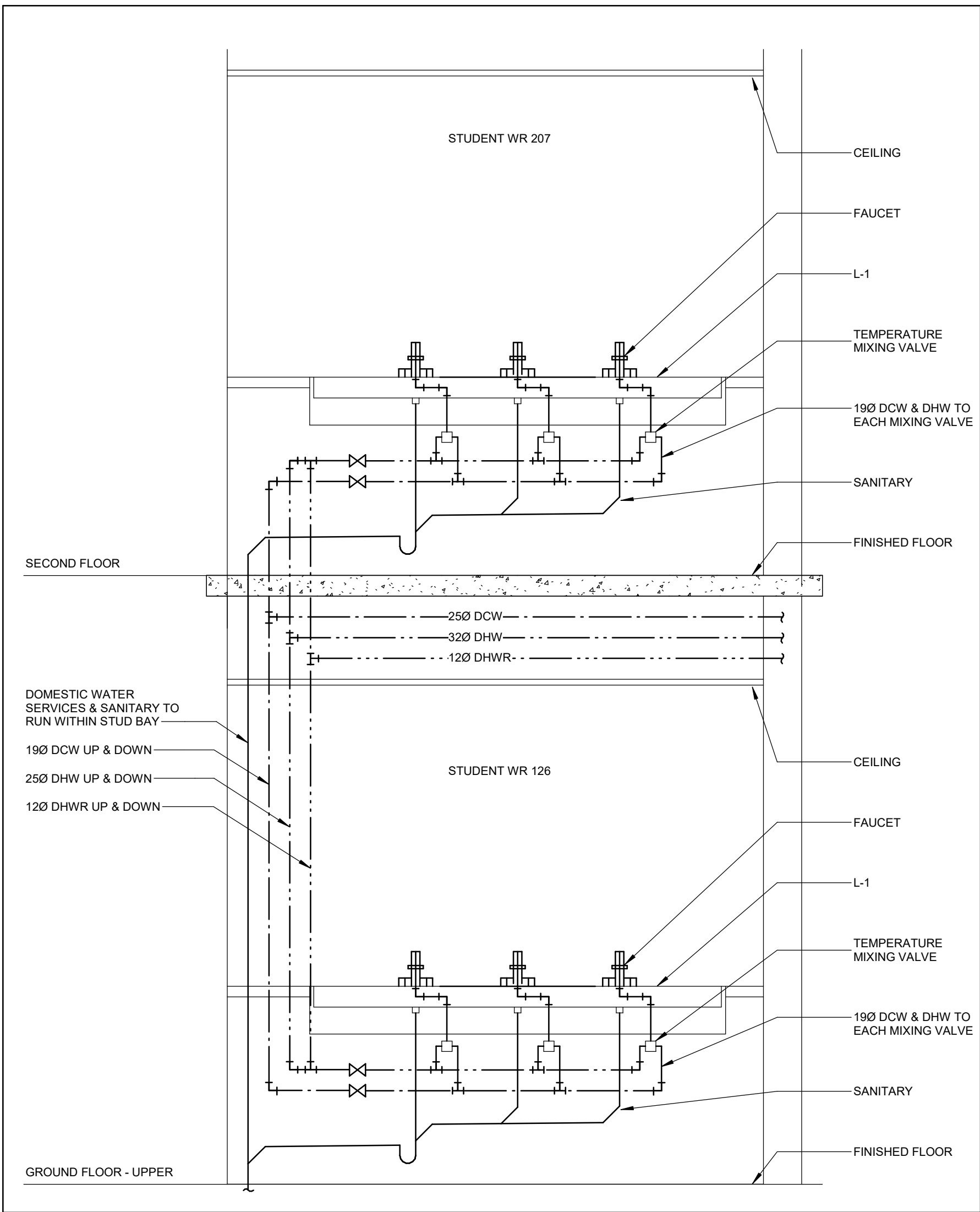
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M-005/ N.T.S.



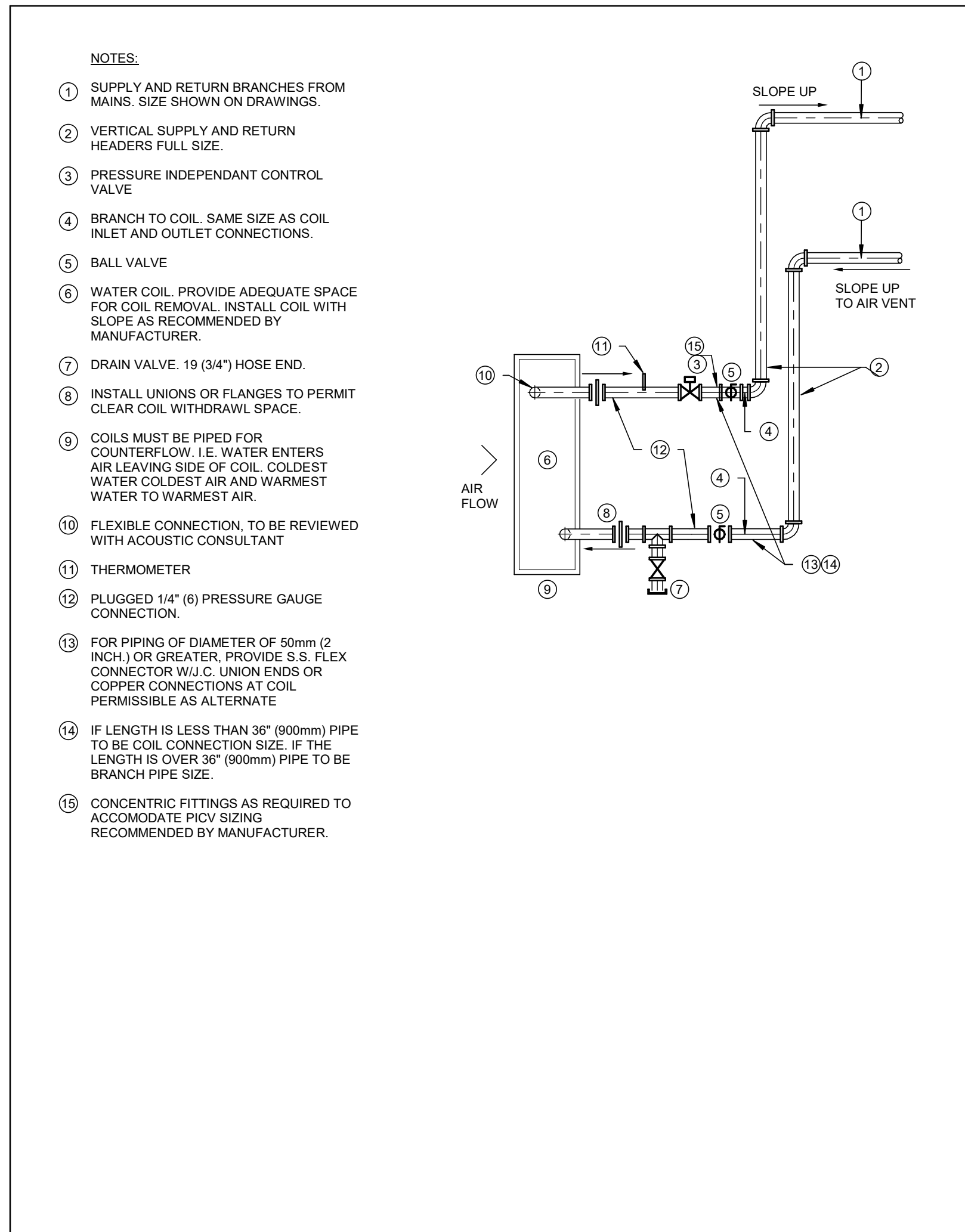
4
M-005/ N.T.S.



2
M-005/ N.T.S.



5
M-005/ N.T.S.



3
M-005/ N.T.S.

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MECHANICAL DETAILS

scale: As indicated
date: 2025-12-15
drawn: Author
checked by: Checker
project number: 00036-010.M.001
drawing number: M-005

Revision: 5

SITE PLAN NOTES

1. CONFIRM ALL INVERT ELEVATIONS AND REPORT ANY DISCREPANCIES PRIOR TO COMMENCING WITH THE WORK.
2. DEMARCATION POINT BETWEEN ALL PLUMBING AND DRAINAGE SITE SERVICES CONTRACT AND THE MECHANICAL CONTRACT IS 1500mm (60 IN.) FROM THE BUILDING PERIMETER. PROVIDE ALL SERVICES WITHIN COURTYARDS AND LOCATED OR PAVED AREAS WITHIN THE BUILDING FOUNDATION WALL. ALL FINAL CONNECTIONS SHALL BE THE RESPONSIBILITY OF THE MECHANICAL CONTRACTOR.
3. MAINTAIN A MINIMUM OF 1800mm (72 IN.) OF GROUND COVER OVER ALL EXTERIOR WATER SERVICES AND 1000mm (48 IN.) OVER EXTERIOR SEWERS.
4. COORDINATE MECHANICAL SITE SERVICES, PIPING, AND EQUIPMENT WITH ALL OTHER DIVISIONS.
5. PROVIDE MANHOLES, CATCH BASINS, SANITARY SEWERS AND WATER SERVICES UNDER THIS DIVISION IN ACCORDANCE WITH LOCAL MUNICIPAL STANDARDS AND OPSD SERIES STANDARDS.
6. REFER TO CIVIL CONSULTANT'S DRAWINGS FOR STORM WATER MANAGEMENT REPORT AND DETAILED DRAWING OF THE STORM WATER MANAGEMENT TANK.
7. REFER TO ARCHITECTURAL AND LANDSCAPE DRAWINGS FOR THE EXACT LOCATIONS AND TOP ELEVATIONS OF CATCH BASINS AND MANHOLES PROVIDED UNDER THIS DIVISION.



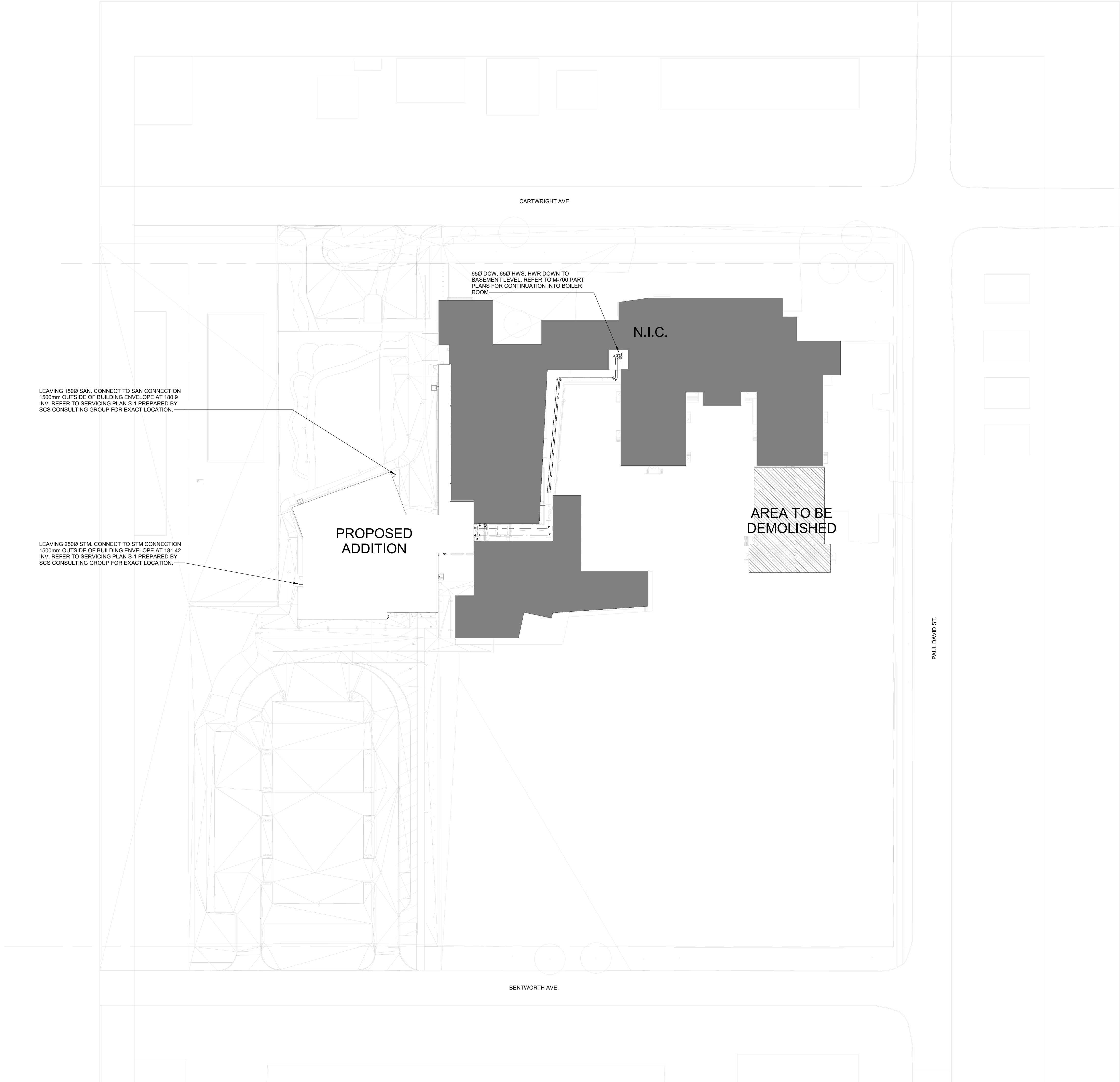
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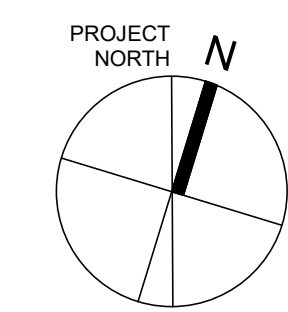
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Drawings should not be scaled.

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4	2026-04-10	75% CONSTRUCTION DOCUMENTS
5	2026-05-15	90% CONSTRUCTION DOCUMENTS
6	2026-07-08	ISSUED FOR TENDER



consultants	
architect	CS&P Architects Inc. 2345 Yonge St., Suite 200 Toronto, ON, M4P 2E5 Phone 416.462.5002 Fax 416.462.5040
civil engineer	SCS Consulting Group Ltd. 30 Centurion Drive, Suite 100 Markham, ON, L3R 8B8 Phone 905.475.1800 Fax 905.475.8535
structural engineer	LEA Consulting Ltd. 40 University Ave., Suite 503 Toronto, ON, M5J 1T1 Phone 905.470.0015
mechanical engineer	Smith + Andersen 4211 Yonge Street Toronto, ON, M2P 2A9 Phone 416.487.8151
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STERLING HALL SCHOOL - PHASE 1
MASTER PLAN ADDITION
99 Cartwright Ave., North York, ON M6A 1V4

SITE PLAN - MECHANICAL

scale: 1 : 500
date: 2025-12-15
drawn: Author
checked by: Checker
project number: 00036-010.M.001
drawing number: M-100
Revision: 6



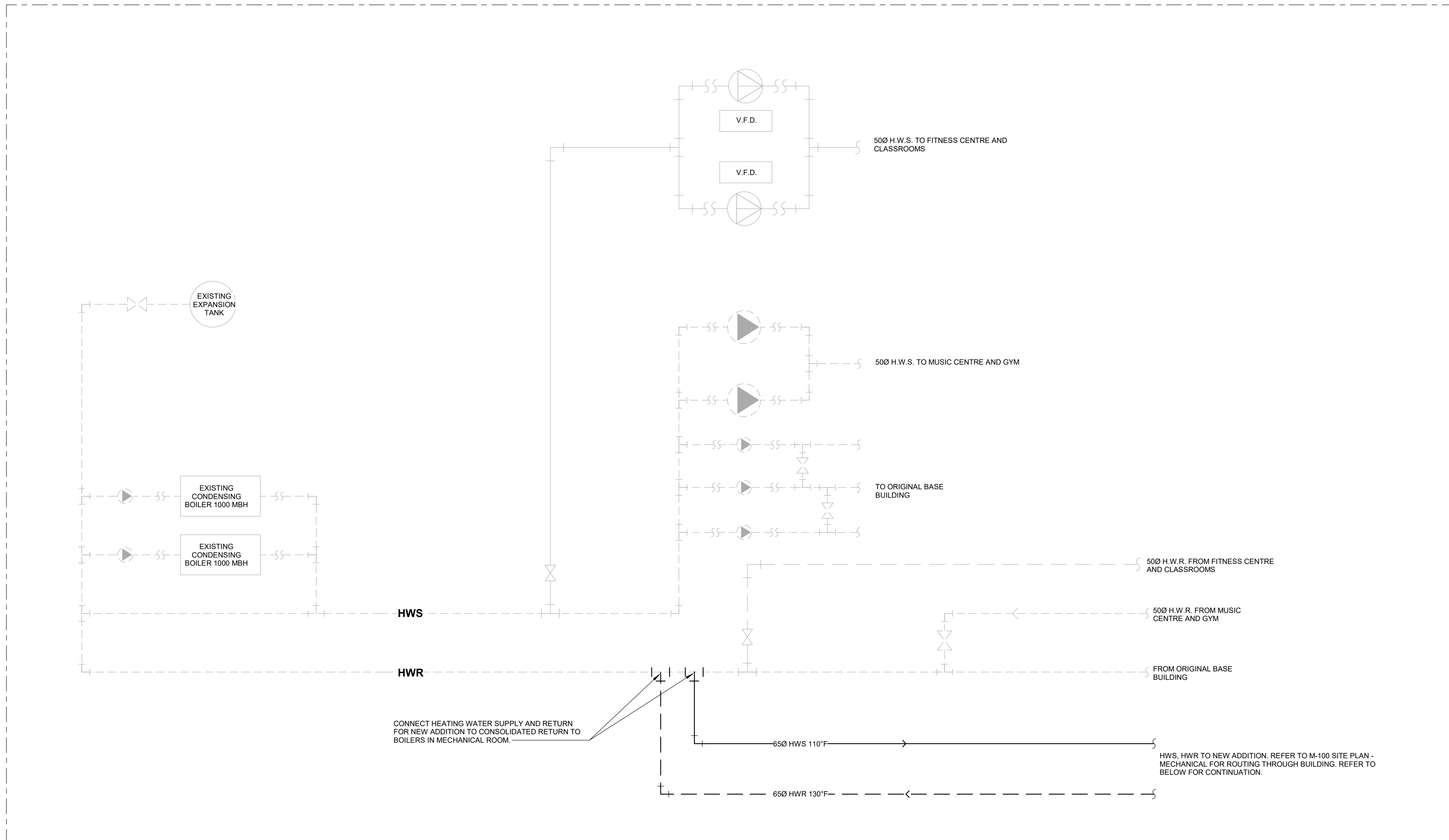
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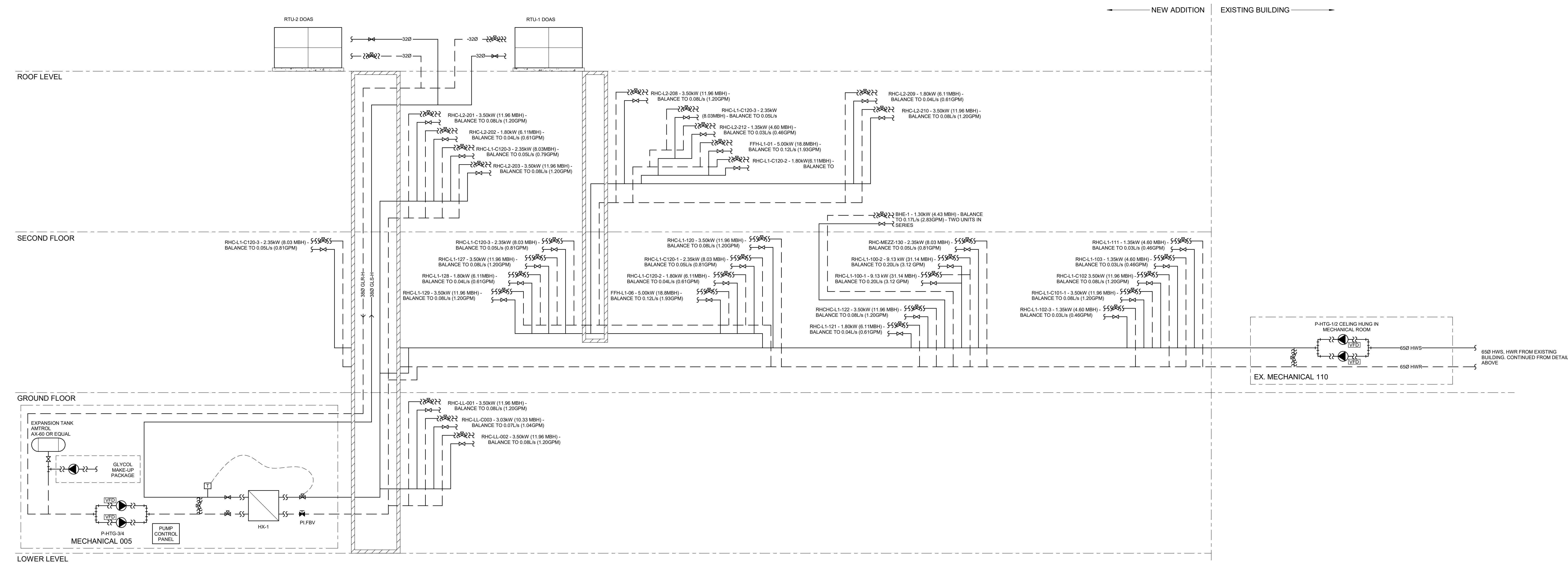
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4	2026-07-08	ISSUED FOR TENDER



EXISTING BOILER ROOM 004

1 HEATING SYSTEM SCHEMATIC - EXISTING MECHANICAL ROOM CONNECTION

M-200 1:50



2 HEATING SYSTEM SCHEMATIC - NEW ADDITION

M-200 1:1

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STERLING HALL SCHOOL - PHASE 1
MASTER PLAN ADDITION
99 Cartwright Ave., North York, ON M6A 1V4

HEATING SYSTEM SCHEMATICS

scale: As indicated
date: XX/XX/2X
drawn: Author
checked by: Checker
project number: 00036-010.M.001
drawing number: M-200
Revision: 4

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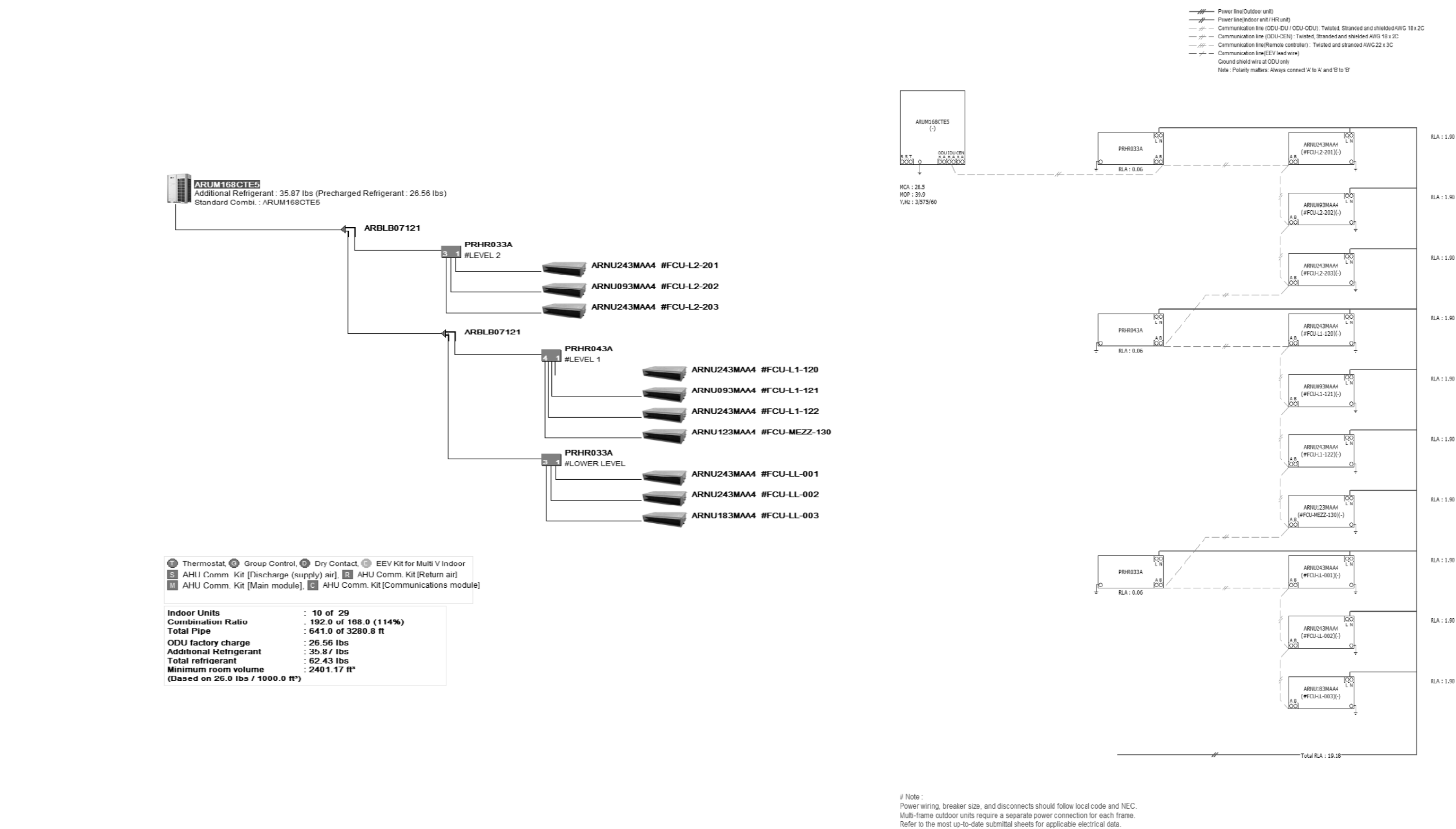
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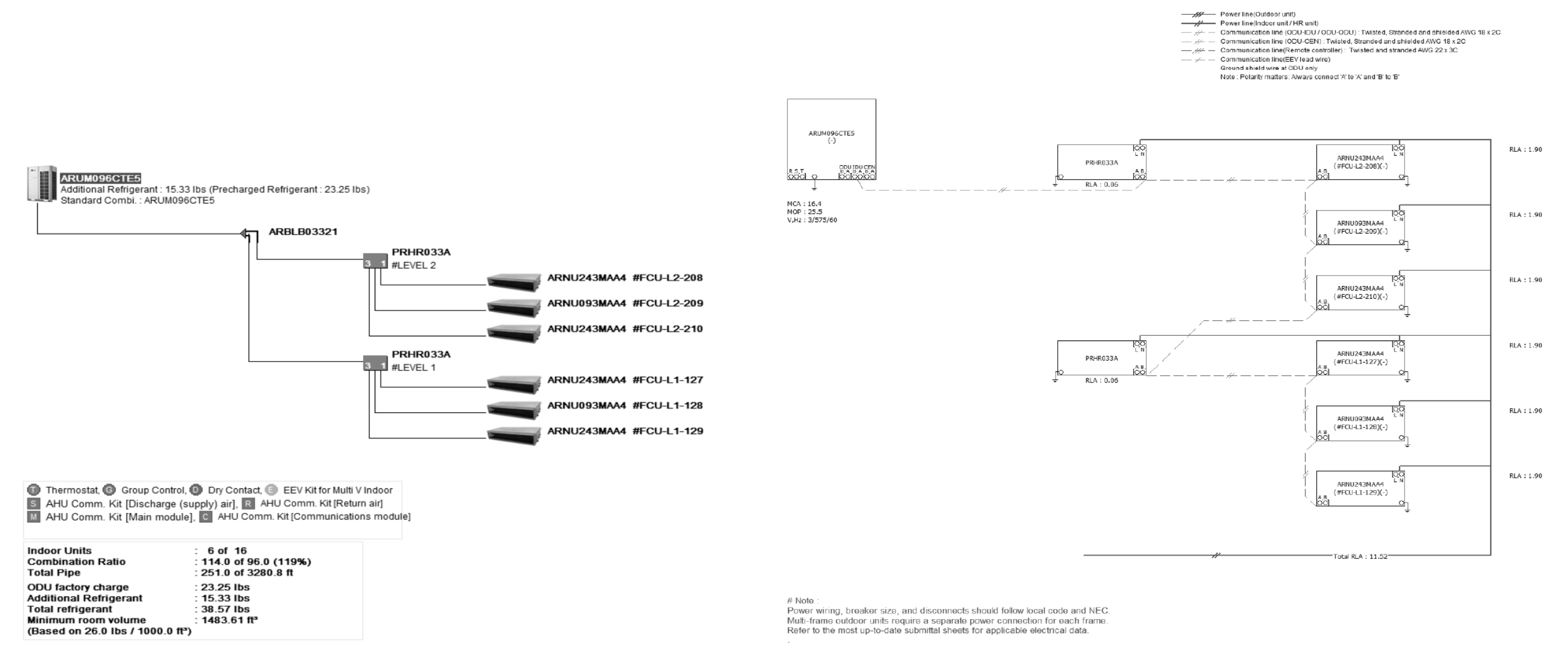
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MASTER PLAN ADDITION
99 Cartwright Ave., North York, ON M6A 1V4

VRF SYSTEM SCHEMATICS

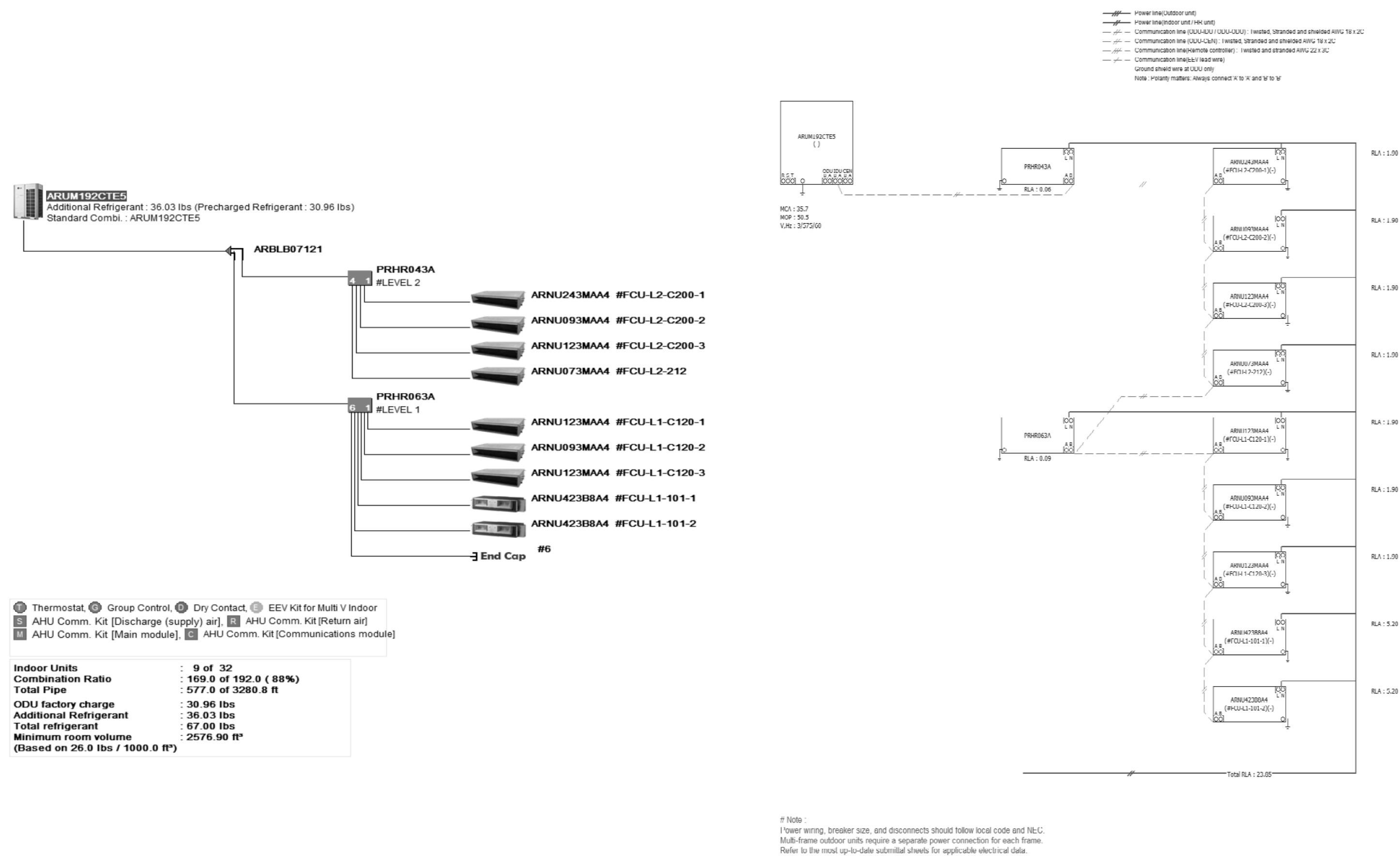
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checked by:
project number: 00036-010.M.001
drawing number: M-201
Revision: 4



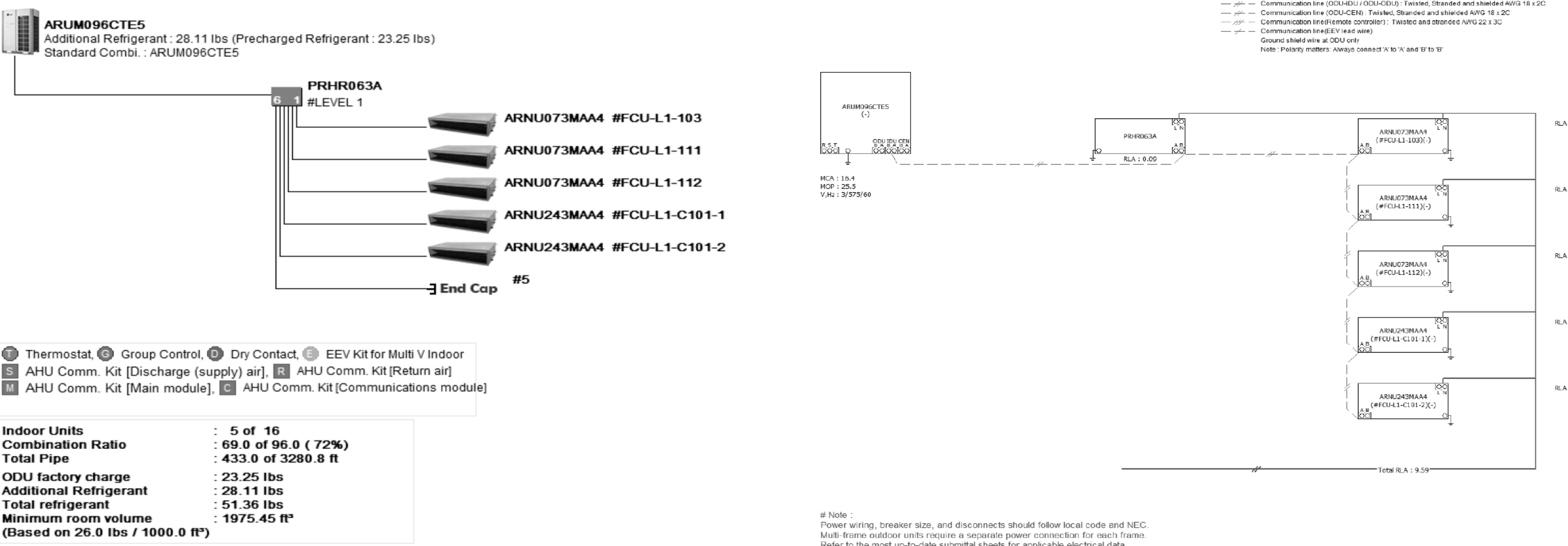
1 VRF SYSTEM SCHEMATIC CU-1
M-201 1:1



2 VRF SYSTEM SCHEMATIC CU-2
M-201 1:1



3 VRF SYSTEM SCHEMATIC CU-3
M-201 1:1



4 VRF SYSTEM SCHEMATIC CU-4
M-201 1:1

GENERAL NOTES

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- READ FLOOR PLANS IN CONJUNCTION WITH SCHEMATICS. ASSUME INFORMATION SHOWN ON FLOOR PLANS TO BE APPLICABLE TO THE RELATED SYSTEM SCHEMATIC AND VICE-VERSA TO PROVIDE A COMPLETE AND OPERATIONAL SYSTEM.
- VERIFY STRUCTURAL INTEGRITY OF ALL TEMPORARY AND PERMANENT GREININGS. PROVIDE ADDITIONAL BRACING TO ENSURE STRUCTURAL INTEGRITY AS REQUIRED.
- REFER TO THE STANDARD DETAILS AND DETAIL SHEETS FOR ADDITIONAL INFORMATION.

PLUMBING AND DRAINAGE NOTES

- PROVIDE MINIMUM 75mm (3 IN.) FOR UNDERGROUND SANITARY DRAINAGE UNLESS INDICATED OTHERWISE.
- PROVIDE APPROVED BACK FLOW PREVENTION FOR ALL TRAP PRIMER SYSTEMS.
- PROVIDE MINIMUM 100mm (4 IN.) FOR UNDERGROUND STORM DRAINAGE UNLESS INDICATED OTHERWISE.
- PROVIDE MINIMUM 19mm (3/4 IN.) DOMESTIC COLD WATER AND DOMESTIC HOT WATER PIPES UNLESS INDICATED OTHERWISE.
- INSTALL ALL PIPING OVERHEAD, TIGHT TO UNDERSIDE OF THE STRUCTURE WITH SUFFICIENT ROOM FOR INSULATION UNLESS INDICATED OTHERWISE. ROUTE PIPING WITHIN STRUCTURAL STEEL STRAITS OR THROUGH CONCRETE BEAMS WHERE PRACTICAL.
- HEAT TRACE THE ENTIRE SERVICE TO BE PROTECTED FROM FREEZING IN ALL AREAS INDICATED ON THE DRAWINGS AND NOTED IN THE SPECIFICATIONS. PROVIDE HEAT TRACING TO ACCOMMODATE ALTERATIONS IN THE PIPE LAYOUT DUE TO INTERFERENCES OR OTHER INSTALLATION REQUIREMENTS. CONNECT HEAT TRACING CIRCUIT TO THE ELECTRICAL POWER LOCATIONS INDICATED ON THE DRAWINGS OR THE NEAREST CIRCUIT AVAILABLE. COORDINATE WITH ELECTRICAL DIVISION.
- PROVIDE SHUT-OFF VALVES ON ALL MAIN RISERS AND AT EACH CONNECTION TO EQUIPMENT.
- PROVIDE COMPLETE VENTING SYSTEMS IN ACCORDANCE WITH THE PLUMBING OR BUILDING CODE.
- HEAT TRACE ALL PIPING WITHIN UNHEATED SPACES SUCH AS PARKING LEVELS, SOFFITS AND WITHIN WALLS WHERE FREEZING MAY OCCUR.
- PROVIDE DRIP PANS BENEATH ALL HYDRONIC PLUMBING, SANITARY, AND STORM PIPING LOCATED WITHIN THE FOLLOWING TYPES OF ROOMS AND CLOSETS: ELECTRICAL, ELEVATOR MACHINE, IT, COMMUNICATIONS, SWITCHGEAR, CONTROL, AND GENERATOR. COORDINATE ALL LOCATIONS OF DRIP PANS BELOW PIPING AND ABOVE ALL OTHER SERVICES.
- FOR STORM AND SANITARY DRAINAGE PIPES 100 MM (4 IN.) AND LARGER, SLOPE AT A MINIMUM OF 1 IN 100 (1 %), UNLESS SHOWN OTHERWISE ON THE DRAWINGS.



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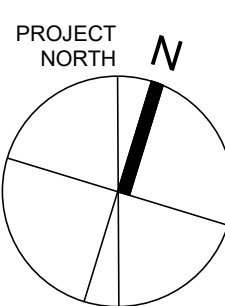
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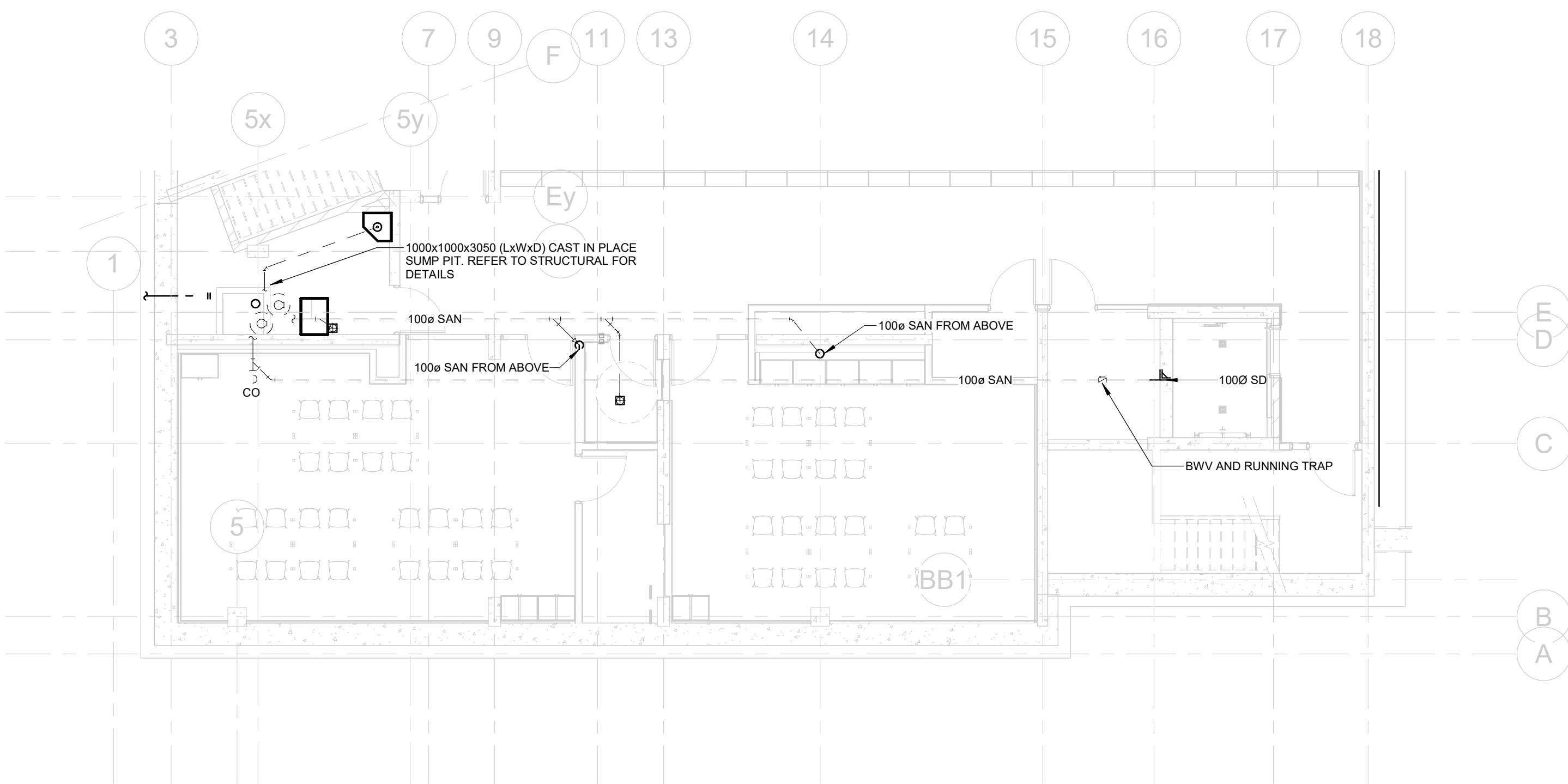


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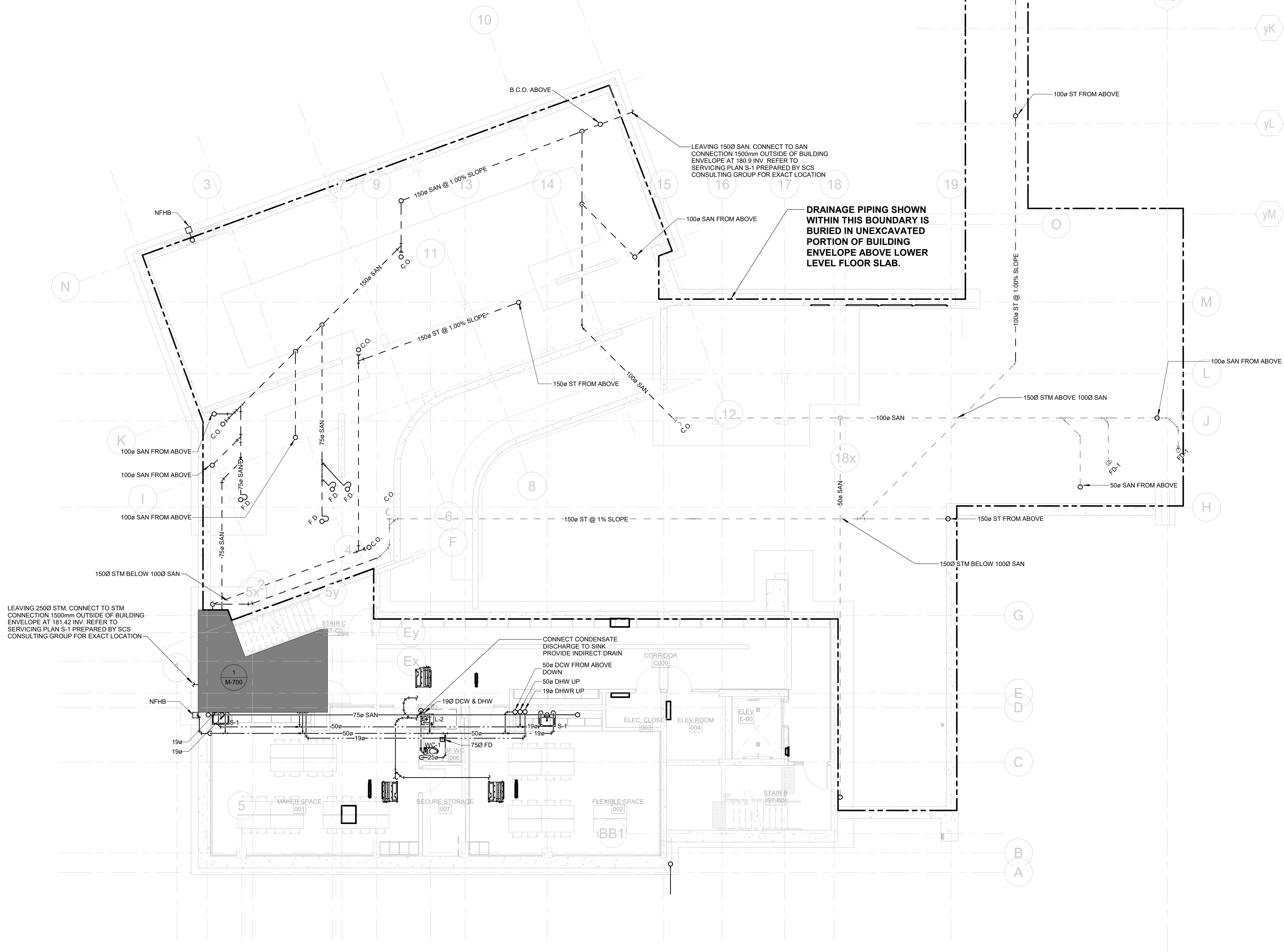
STERLING HALL SCHOOL - PHASE 1
MASTER PLAN ADDITION
99 Cartwright Ave., North York, ON M6A 1V4

**LOWER LEVEL -
PLUMBING AND
DRAINAGE**

scale: 1 : 100
date: 2025-12-15
drawn: Author
checked by: Checker
project number: 00036-010.M.001
drawing number: **M-300**
Revision: 6



2 LOWER LEVEL - BELOW SLAB DRAINAGE
M-300 1 : 100



1 LOWER LEVEL - PLUMBING & DRAINAGE
M-300 1 : 100

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PLUMBING AND DRAINAGE NOTES

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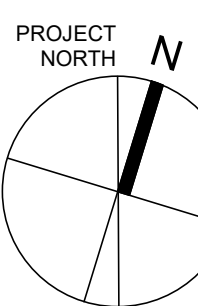
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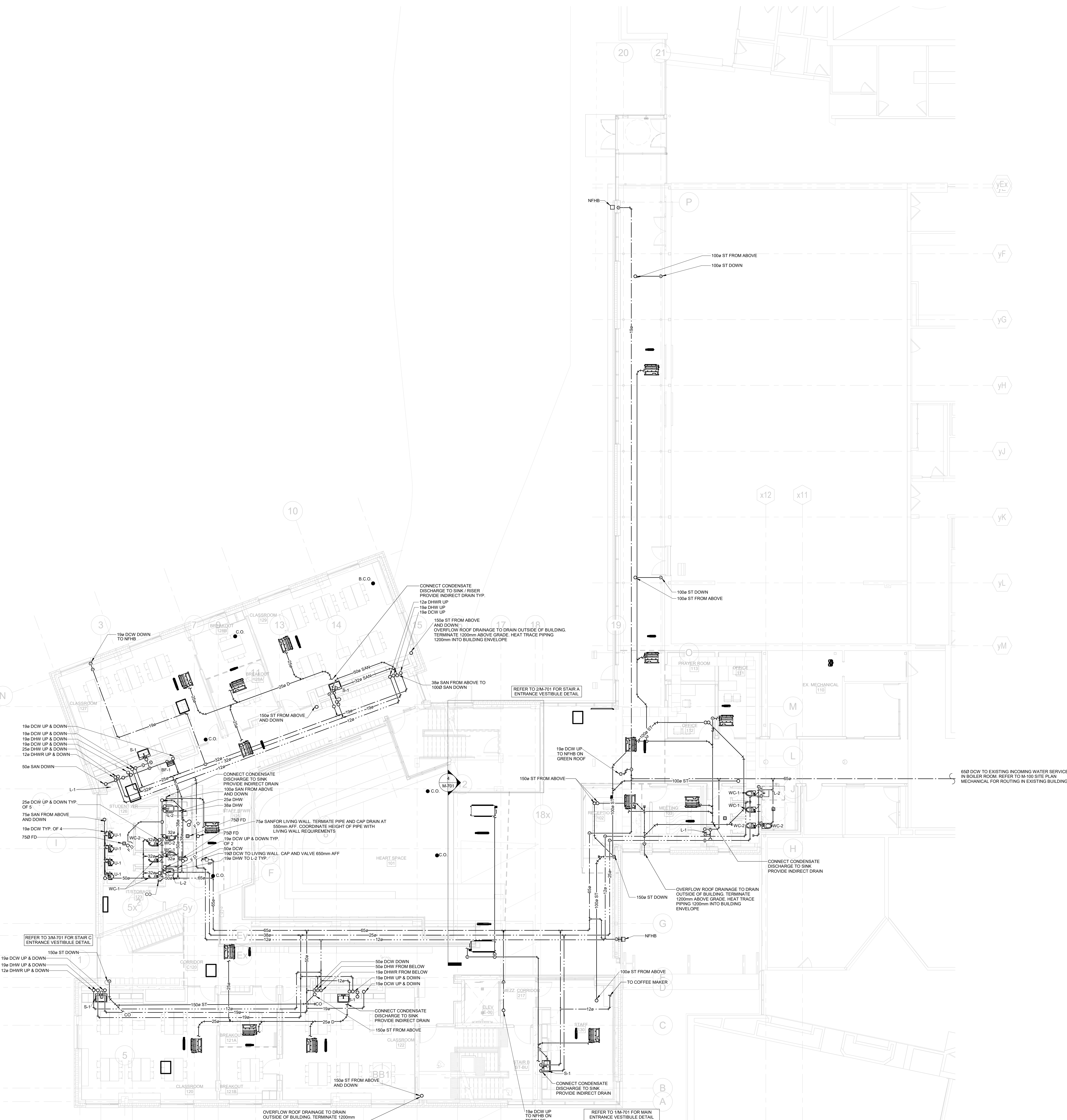


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STERLING HALL SCHOOL - PHASE 1
MASTER PLAN ADDITION
99 Cartwright Ave., North York, ON M6A 1V4

GROUND FLOOR -
PLUMBING &
DRAINAGE

scale: 1 : 100
date: 2025-12-15
drawn: Author
checked by: Checker
project number: 00036-010.M.001
drawing number: M-301
Revision: 6



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PLUMBING AND DRAINAGE NOTES

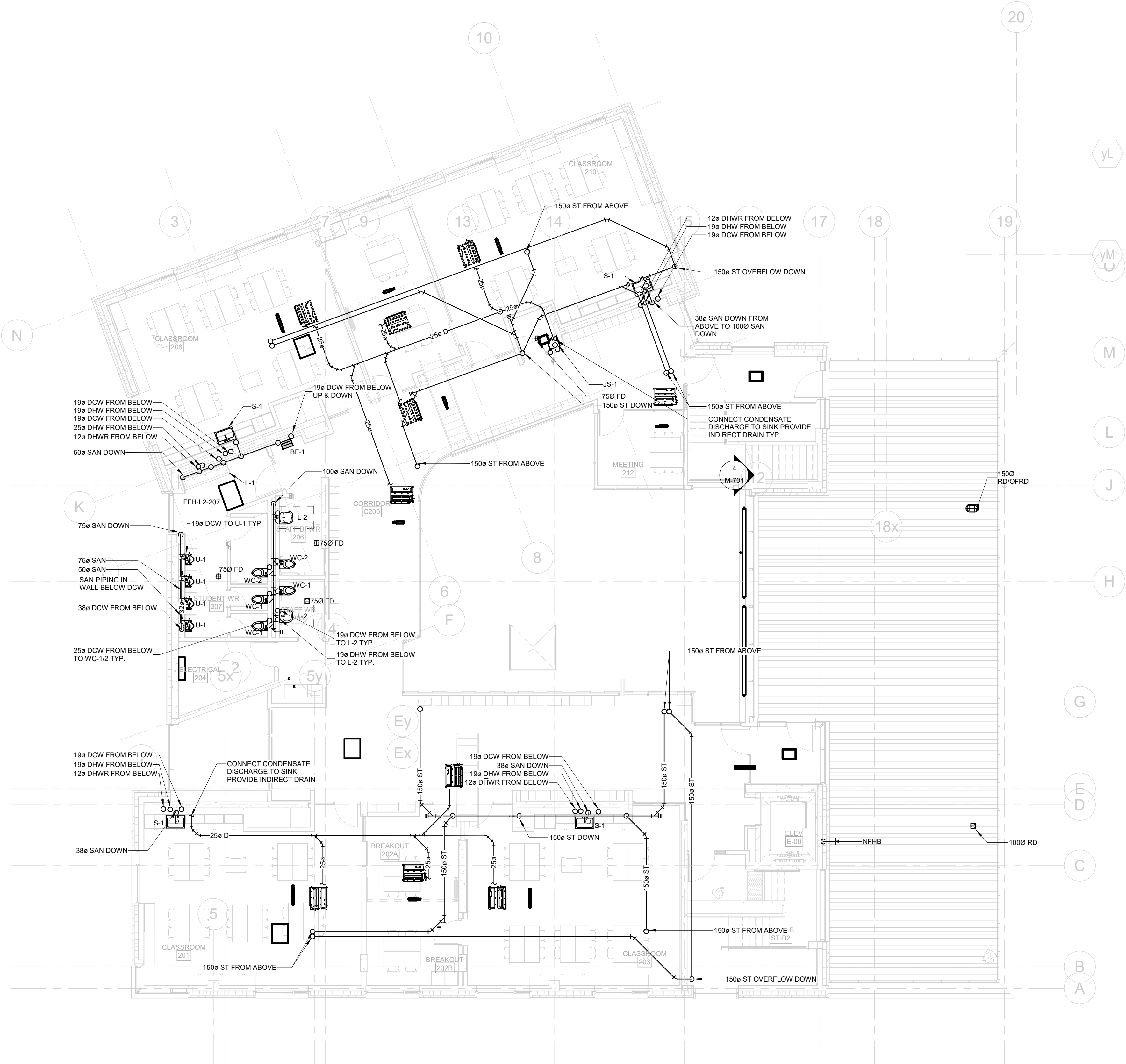
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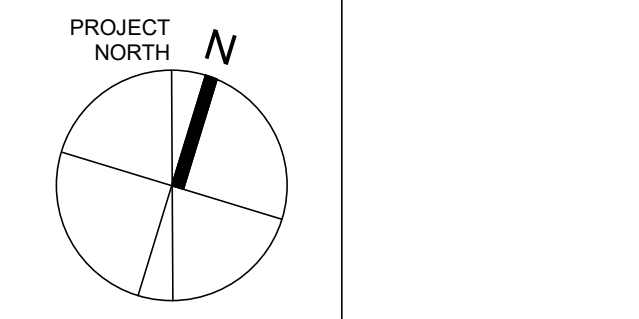
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STERLING HALL SCHOOL - PHASE 1
MASTER PLAN ADDITION
99 Cartwright Ave., North York, ON M6A 1V4

SECOND FLOOR - PLUMBING & DRAINAGE

scale: 1 : 100
date: 2025-12-15
drawn: Author
checked by: Checker
project number: 00036-010.M.001
drawing number: M-302
Revision: 6



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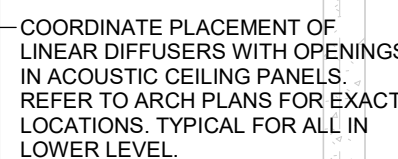
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consultants

architect

civil engineer

structural engineer

mechanical engineer

electrical engineer

landscape architect

landscape architect Quinn Design Associates Inc.
180 John Street
Toronto, ON, M5T 1X5
Phone 416.962.8700



CS&P Architects

STERLING HALL SCHOOL - PHASE 1
MASTER PLAN ADDITION
99 Cartwright Ave, North York, ON M6A 1V4

LOWER LEVEL - HVAC

scale: 1 : 100
date: 2025-12-15
drawn: Author
checked by: Checker
project number: 00036-010.M.001
drawing number: M 100

VI-400
Revision 6

FILENAME: AutodesK Docs:\\21032 Sterling Hall\\SA 00036.010.M Sterling Hall Metric R25.M

DRAWING LAST EDITED: 7/8/2026 11:09:00 AM

GENERAL NOTES

- DO NOT SCALE DRAWINGS. THE LOCATIONS OF ALL ITEMS SHOWN ON THE DRAWINGS OR SPECIFIED THAT ARE NOT DEFINITELY FIXED BY DIMENSIONS ARE APPROXIMATE. DETERMINE THE EXACT LOCATIONS NECESSARY TO SECURE THE BEST CONDITIONS AND RESULTS BASED ON SITE CONDITIONS. REVIEW ALL REVISIONS WITH THE CONSULTANT.
- READ FLOOR PLANS IN CONJUNCTION WITH SCHEMATICS. ASSUME INFORMATION SHOWN ON FLOOR PLANS TO BE APPLICABLE TO THE RELATED SYSTEM SCHEMATIC AND VICE-VERSA TO PROVIDE A COMPLETE AND OPERATIONAL SYSTEM.
- VERIFY STRUCTURAL INTEGRITY OF ALL TEMPORARY AND PERMANENT GREENINGS. PROVIDE ADDITIONAL FRAMING TO ENSURE STRUCTURAL INTEGRITY AS REQUIRED.
- REFER TO THE STANDARD DETAILS AND DETAIL SHEETS FOR ADDITIONAL INFORMATION.

HVAC NOTES

- PROVIDE MINIMUM 19MM (3/4 IN.) HWSHWR AND CHSCHR BRANCH PIPES UNLESS INDICATED OTHERWISE.
- PROVIDE TYPE PICO-1 CONTROL VALVES UNLESS INDICATED OTHERWISE.
- PROVIDE ALL DUCTWORK DOWNSTREAM OF TERMINAL EQUIPMENT (I.E. FAN COILS, HEAT PUMPS, V.A.V. BOXES AND FAN POWERED BOXES) EQUAL TO THE EQUIPMENT OUTLET SIZE (MINIMUM OR LARGER AS INDICATED). WHERE OUTLET SIZES ARE ODD SIZES, INCREASE THE DUCT SIZE UP TO THE NEAREST EVEN SIZE (I.E. PROVIDE 356mm (14 IN.) FOR 318mm (12.5 IN.) OR 330mm (13 IN.) OUTLET). PROVIDE TRANSITION DUCTS AS REQUIRED.
- REFER TO ARCHITECTURAL REFLECTED CEILING PLANS FOR EXACT LOCATIONS OF GRILLES AND DIFFUSERS. REQUEST CLARIFICATION FOR ANY DIFFUSER OR GRILLE WITH MORE THAN A 600mm (24 IN.) DISCREPANCY IN LOCATION.
- TEMPERATURE SENSORS ARE LOCATED TO AID IN PRICING ONLY AND ALL REQUIRED SENSORS MAY NOT BE SHOWN (REFER TO SPECIFICATIONS). COORDINATE FINAL LOCATION WITH THE ARCHITECT WITHIN 1000MM (40 IN.) OF LOCATION SHOWN. REVIEW ALL RELOCATIONS OUTSIDE OF THIS RANGE WITH THE CONSULTANT.
- INSTALL TEMPERATURE SENSORS AT NOMINALLY 1200MM (48 IN.) ABOVE THE FINISHED FLOOR UNLESS INDICATED OTHERWISE.
- PROVIDE DIFFUSER DUCT RUN-OUTS THE SAME SIZE AS THE DIFFUSER INLETS UNLESS INDICATED OTHERWISE.
- MAINTAIN A MINIMUM OF 300MM (96 IN.) CLEARANCE TO THE UNDERSIDE OF PIPES, DUCTS, CONDUITS, SUSPENDED EQUIPMENT, ETC. THROUGHOUT ACCESS ROUTES IN MECHANICAL ROOMS.
- INSTALL ALL PIPING OVERHEAD, TIGHT TO UNDERSIDE OF THE STRUCTURE WITH SUFFICIENT ROOM FOR INSULATION UNLESS INDICATED OTHERWISE. ROUTE PIPING WITHIN STRUCTURAL STEEL STRATA OR THROUGH CONCRETE BEAMS WHERE PRACTICAL.
- VERIFY STRUCTURAL INTEGRITY OF ALL TEMPORARY AND PERMANENT OPENINGS. PROVIDE ADDITIONAL FRAMING TO ENSURE STRUCTURAL INTEGRITY AS REQUIRED.
- PROVIDE ALL OPEN ENDED DUCTWORK COMPLETE WITH WIRE MESH.
- PROVIDE DISCHARGE DUCTWORK FOR EXHAUST FANS EQUAL TO THE DISCHARGE OF THE FAN AS A MINIMUM OR LARGER AS INDICATED. TRANSITION AS REQUIRED FOR LARGER DUCTS.
- PROVIDE 600X400X1200 (NOMINAL) INTERNAL ACOUSTIC INSULATED ELBOW OR STRAIGHT TRANSFER DUCTS UNLESS INDICATED OTHERWISE. TRANSFER AIR DUCTS IN LIEU OF SILENCERS ARE NOT PERMITTED.
- BALANCE AIR FLOW RATES EQUALLY BETWEEN ALL INTERIOR DIFFUSERS BASED ON THE MAXIMUM AIR FLOW RATE SHOWN FOR THE ASSOCIATED TERMINAL DEVICE (WAV FAN COIL, ETC.).
- THIS PROJECT HAS SEISMIC REQUIREMENTS. PROVIDE SEISMIC BRACING AND RESTRAINTS AS REQUIRED.

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1100 - 100 Sheppard Ave. East, Toronto ON M2N 6N5
416-487-8151 smithandersen.com

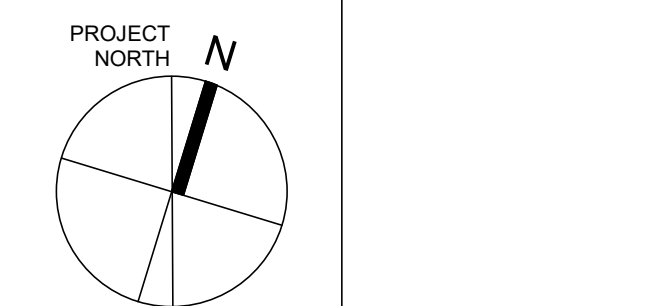
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Drawings should not be scaled.

No	Date	Revision/Issued
1	2025-11-05	15% CLIENT REVIEW
2	2025-12-15	30% CONSTRUCTION DOCUMENTS
3	2026-03-13	ISSUED FOR PERMIT
4	2026-04-10	75% CONSTRUCTION DOCUMENTS
5	2026-05-15	90% CONSTRUCTION DOCUMENTS
6	2026-07-08	ISSUED FOR TENDER

consultants	
architect	CS&P Architects Inc. 2345 Yonge St., Suite 200 Toronto, ON, M4P 2E5 Phone 416.482.5002 Fax 416.482.5040
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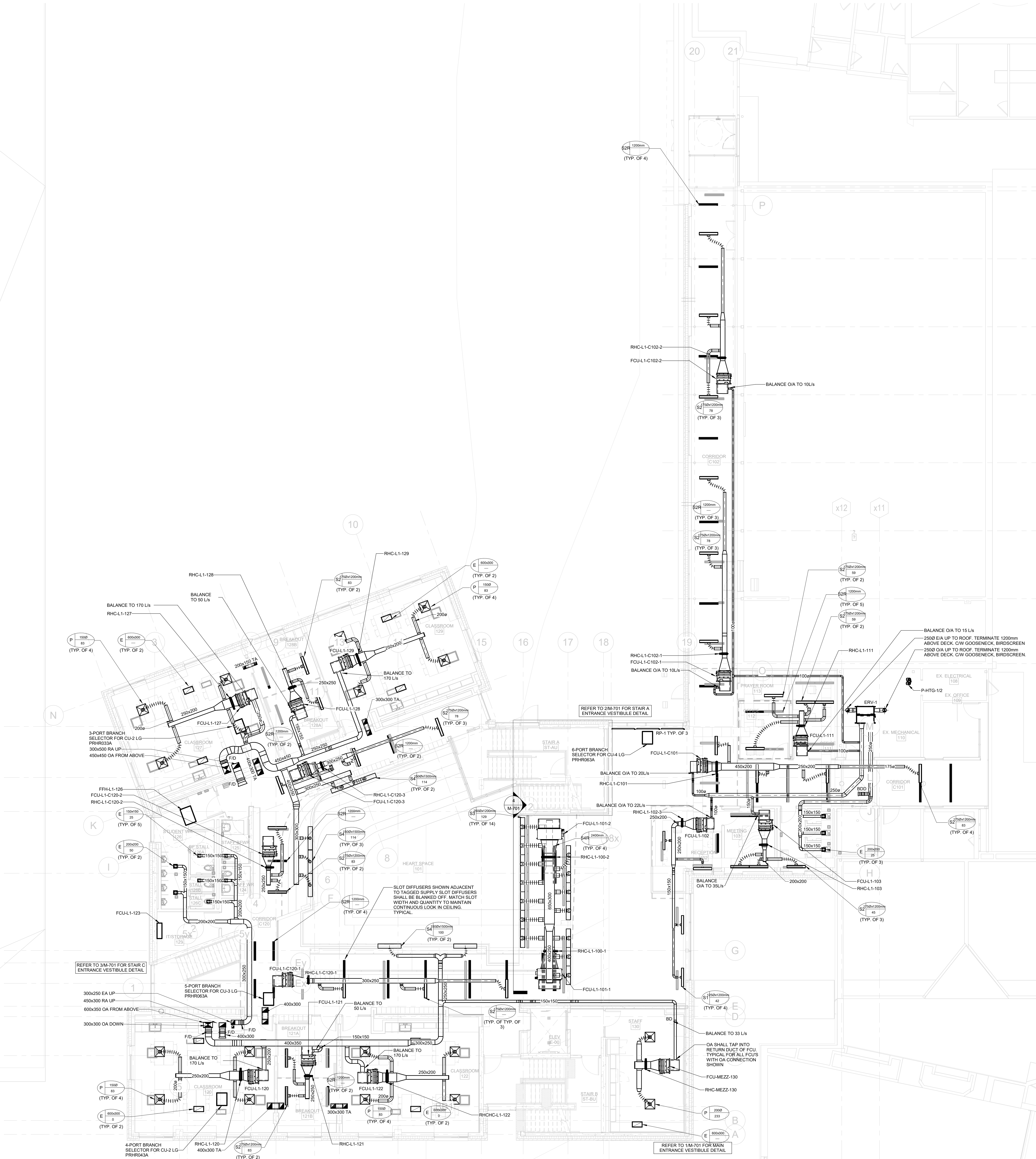


SHS
CS&P Architects

STERLING HALL SCHOOL - PHASE 1
MASTER PLAN ADDITION
99 Cartwright Ave., North York, ON M6A 1V4

GROUND FLOOR - HVAC

scale: 1 : 100
date: 2025-12-15
drawn: Author
checked by: Checker
project number: 00036-010.M.001
drawing number: **M-401**
Revision: 6



No	Date	Revision/Issued
1	2025-11-05	15% CLIENT REVIEW
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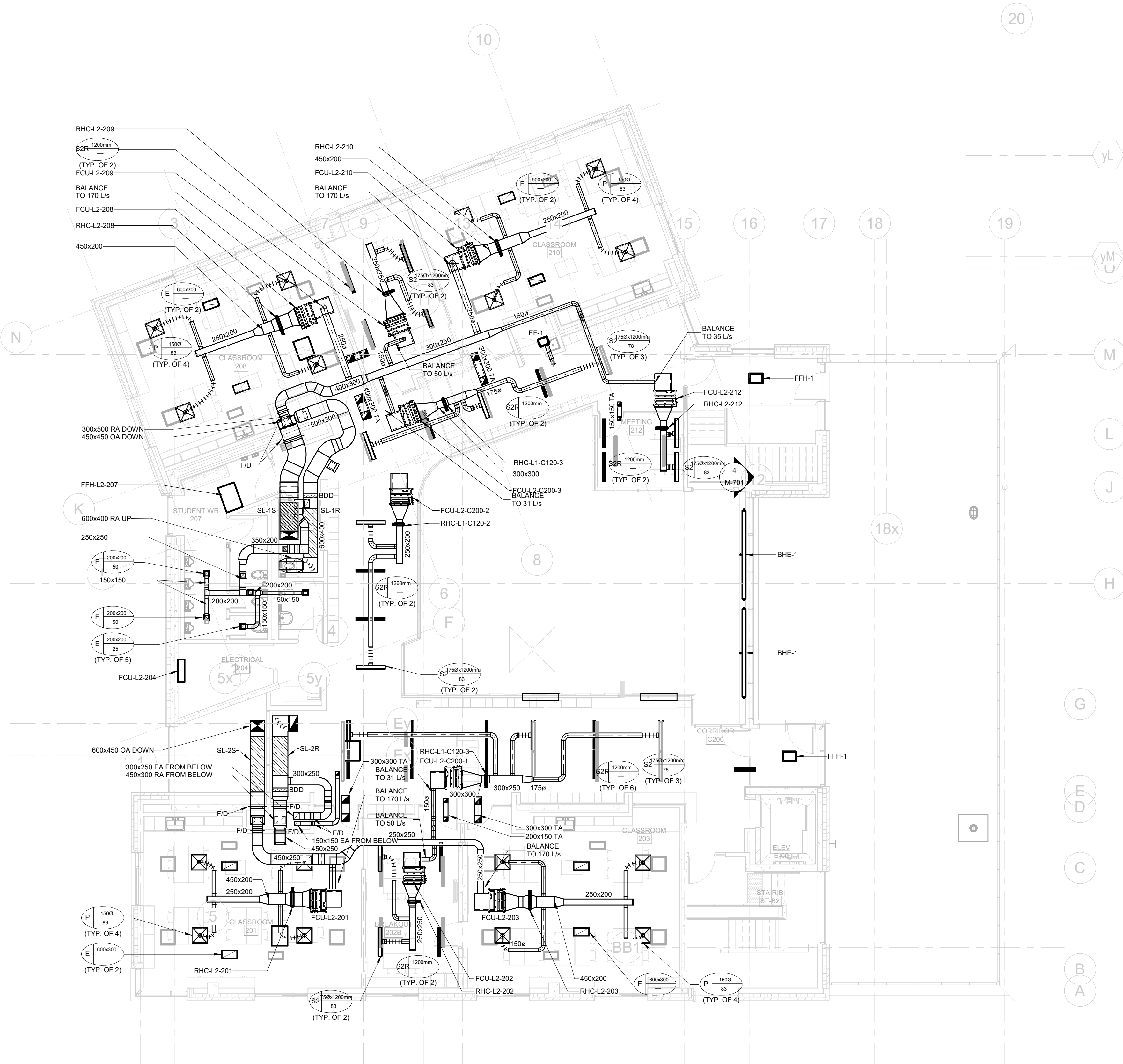
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landscape architect
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180 John Street
Toronto, ON, M5T 1X5
Phone: 416.962.8700



SECOND FLOOR - HVAC

scale: 1 : 100
date: 2025-12-15
drawn: Author
checked by: Checker
project number: 00036-010.M.001
drawing number: M-402
Revision: 6



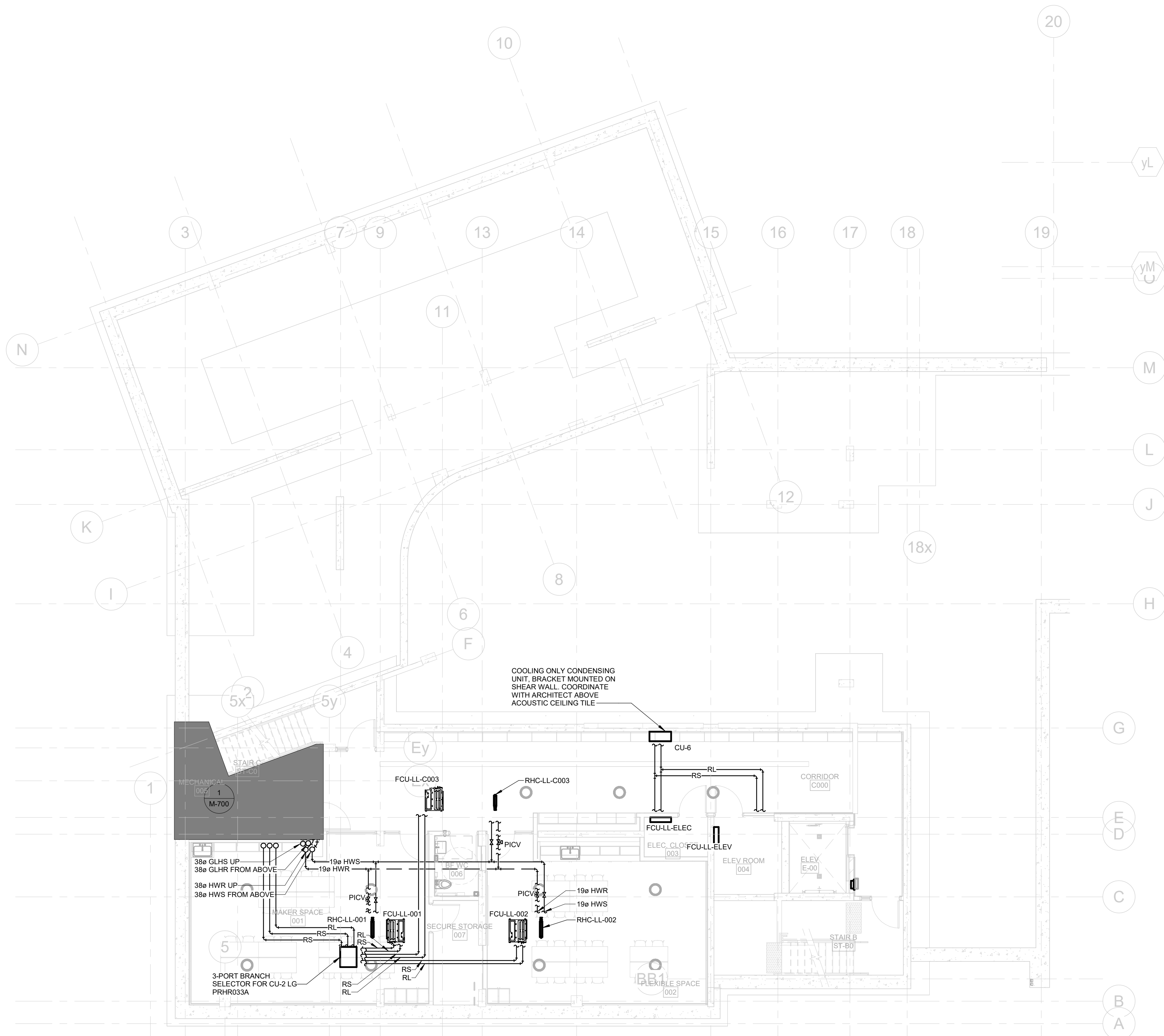
No	Date	Revision/Issued
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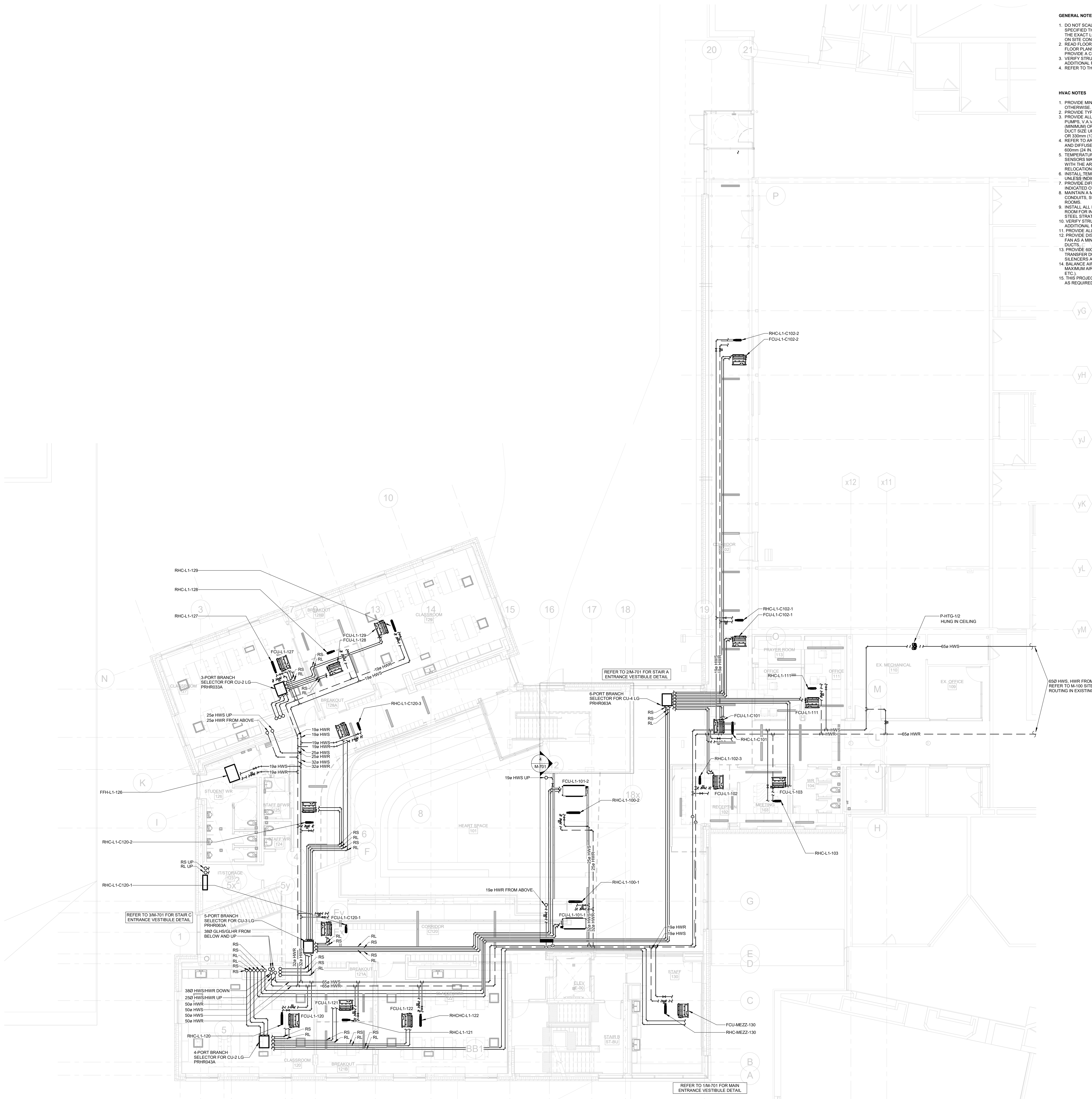
consultants	
architect	CS&P Architects Inc. 2345 Yonge St., Suite 200 Toronto, ON M2P 2E5 Phone 416.482.5002 Fax 416.482.5040
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scale: 1 : 100
date: 2025-12-15
drawn: Author
checked by: Checker
project number: 00036-010.M.001
drawing number: M 500

scale: 1 : 100
date: 2025-12-15
drawn: Author
checked by: Checker
project number: 00036-010.M.001
drawing number: M-500
Revision: 6





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HVAC NOTES

- PROVIDE MINIMUM 19MM (3/4 IN.) HWS/HWR AND CHSCHR BRANCH PIPES UNLESS INDICATED OTHERWISE.
- PROVIDE TYPE PIGGY-BACK CONTROL VALVES UNLESS INDICATED OTHERWISE.
- PROVIDE ALL DUCTWORK DOWNSTREAM OF TERMINAL EQUIPMENT (I.E. FAN COILS, HEAT PUMPS, V.A.V. BOXES AND FAN POWERED BOXES) EQUAL TO THE EQUIPMENT OUTLET SIZE (MINIMUM OR LARGER AS INDICATED). WHERE OUTLET SIZES ARE ODD SIZES, INCREASE THE DUCT SIZE UP TO THE NEAREST EVEN SIZE (I.E. PROVIDE 356mm (14 IN.) FOR 318mm (12.5 IN.) OR 305mm (12 IN.) OUTLET). PROVIDE TRANSITION DUCTS AS REQUIRED.
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- INSTALL TEMPERATURE SENSORS AT NOMINALLY 1200MM (48 IN.) ABOVE THE FINISHED FLOOR UNLESS INDICATED OTHERWISE.
- PROVIDE DIFFUSER DUCT RUN-OUTS THE SAME SIZE AS THE DIFFUSER INLETS UNLESS INDICATED OTHERWISE.
- MAINTAIN A MINIMUM OF 240MM (9.6 IN.) CLEARANCE TO THE UNDERSIDE OF PIPES, DUCTS, CONDUITS, SUSPENDED EQUIPMENT, ETC. THROUGHOUT ACCESS ROUTES IN MECHANICAL ROOMS.
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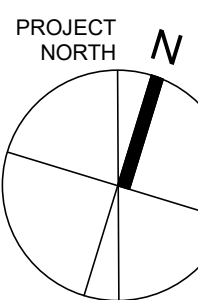
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consultants

architect	CS&P Architects Inc. 2345 Yonge St., Suite 200 Toronto, ON, M4P 2E5 Phone 416.462.5002 Fax 416.462.5040
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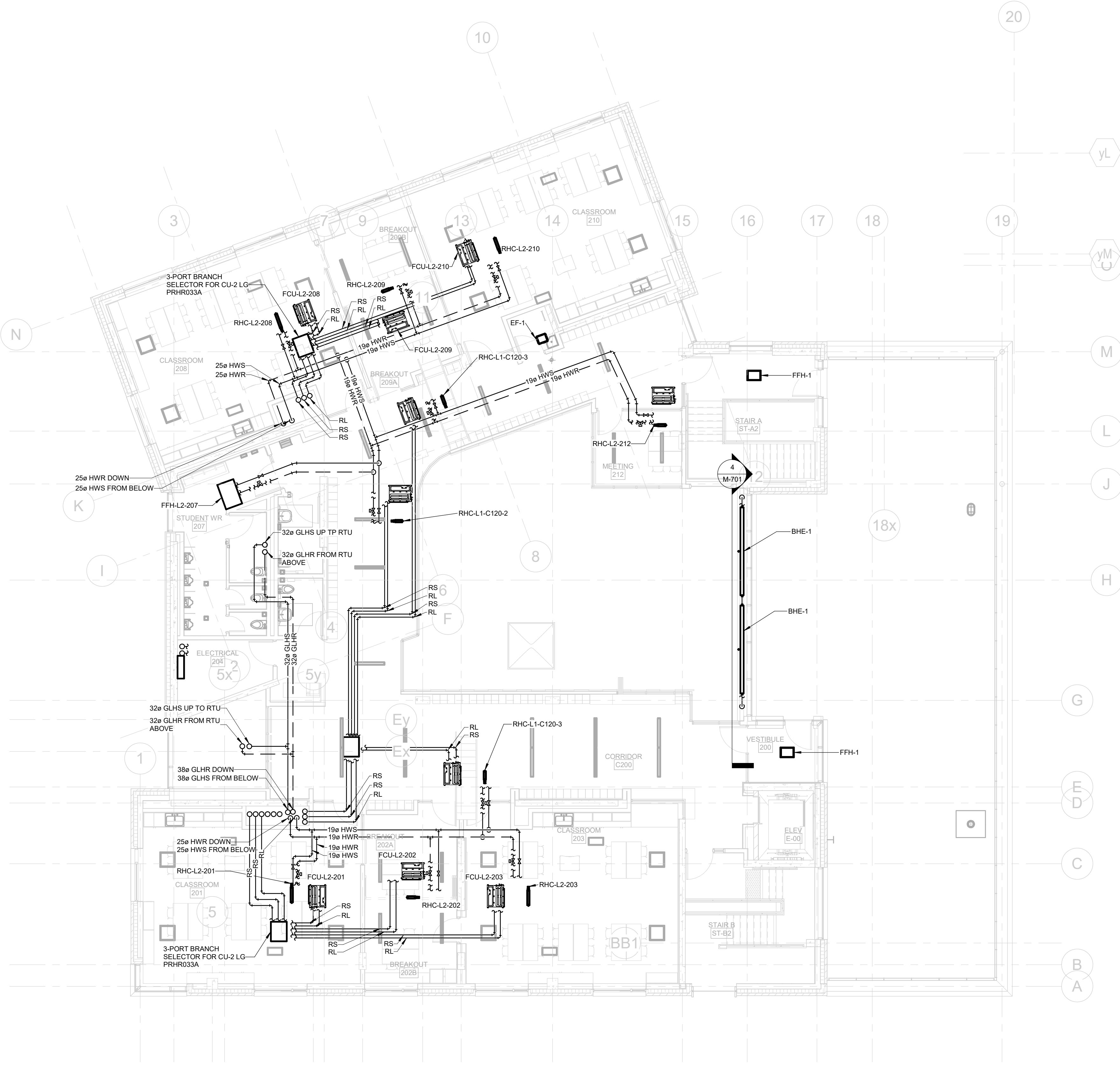


CS&PArchitects

STERLING HALL SCHOOL - PHASE 1
MASTER PLAN ADDITION
99 Cartwright Ave., North York, ON M6A 1V4

GROUND FLOOR - MECHANICAL PIPING

scale: 1 : 100
date: 2025-12-15
drawn: Author
checked by: Checker
project number: 00036-010.M.001
drawing number: M-501
Revision: 6



- GENERAL NOTES**
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 - REFER TO THE STANDARD DETAILS AND DETAIL SHEETS FOR ADDITIONAL INFORMATION.

- HVAC NOTES**
- PROVIDE MINIMUM 19MM (3/4 IN.) HWS/HWR AND CHS/CHR BRANCH PIPES UNLESS INDICATED OTHERWISE.
 - PROVIDE TYPE PICO-1 CONTROL VALVES UNLESS INDICATED OTHERWISE.
 - PROVIDE ALL DUCTWORK DOWNSTREAM OF TERMINAL EQUIPMENT (I.E. FAN COILS, HEAT PUMPS, V.A.V. BOXES AND FAN POWERED BOXES) EQUAL TO THE EQUIPMENT OUTLET SIZE (MINIMUM OR LARGER AS INDICATED). WHERE OUTLET SIZES ARE ODD SIZES, INCREASE THE DUCT SIZE UP TO THE NEAREST EVEN SIZE (I.E. PROVIDE 356mm (14 IN.) FOR 318mm (12.5 IN.) OR 330mm (13 IN.) OUTLET). PROVIDE TRANSITION DUCTS AS REQUIRED.
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 - TEMPERATURE SENSORS ARE LOCATED TO AID IN PRICING ONLY AND ALL REQUIRED SENSORS MAY NOT BE SHOWN (REFER TO SPECIFICATIONS). COORDINATE FINAL LOCATION WITH THE ARCHITECT WITHIN 100MM (4 IN.) OF LOCATION SHOWN. REVIEW ALL RELOCATIONS OUTSIDE OF THIS RANGE WITH THE CONSULTANT.
 - INSTALL TEMPERATURE SENSORS AT NOMINALLY 7' (200MM (8 IN.)) ABOVE THE FINISHED FLOOR UNLESS INDICATED OTHERWISE.
 - PROVIDE DIFFUSER DUCT RUN-OUTS THE SAME SIZE AS THE DIFFUSER INLETS UNLESS INDICATED OTHERWISE.
 - MAINTAIN A MINIMUM OF 240MM (9 1/2 IN.) CLEARANCE TO THE UNDERSIDE OF PIPES, DUCTS, CONDUTS, SUSPENDED EQUIPMENT, ETC. THROUGHOUT ACCESS ROUTES IN MECHANICAL ROOMS.
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 - PROVIDE DISCHARGE DUCTWORK FOR EXHAUST FANS EQUAL TO THE DISCHARGE OF THE FAN AS A MINIMUM OR LARGER AS INDICATED. TRANSITION AS REQUIRED FOR LARGER DUCTS.
 - PROVIDE 600X400X1200 (WHAUL) INTERNAL ACOUSTIC INSULATED ELBOW OR STRAIGHT TRANSFER DUCTS UNLESS INDICATED OTHERWISE. TRANSFER AIR DUCTS IN LIEU OF SILENCERS ARE NOT PERMITTED.
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 - THIS PROJECT HAS SEISMIC REQUIREMENTS. PROVIDE SEISMIC BRACING AND RESTRAINTS AS REQUIRED.

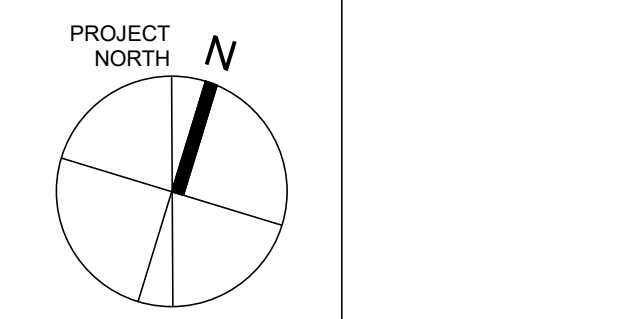


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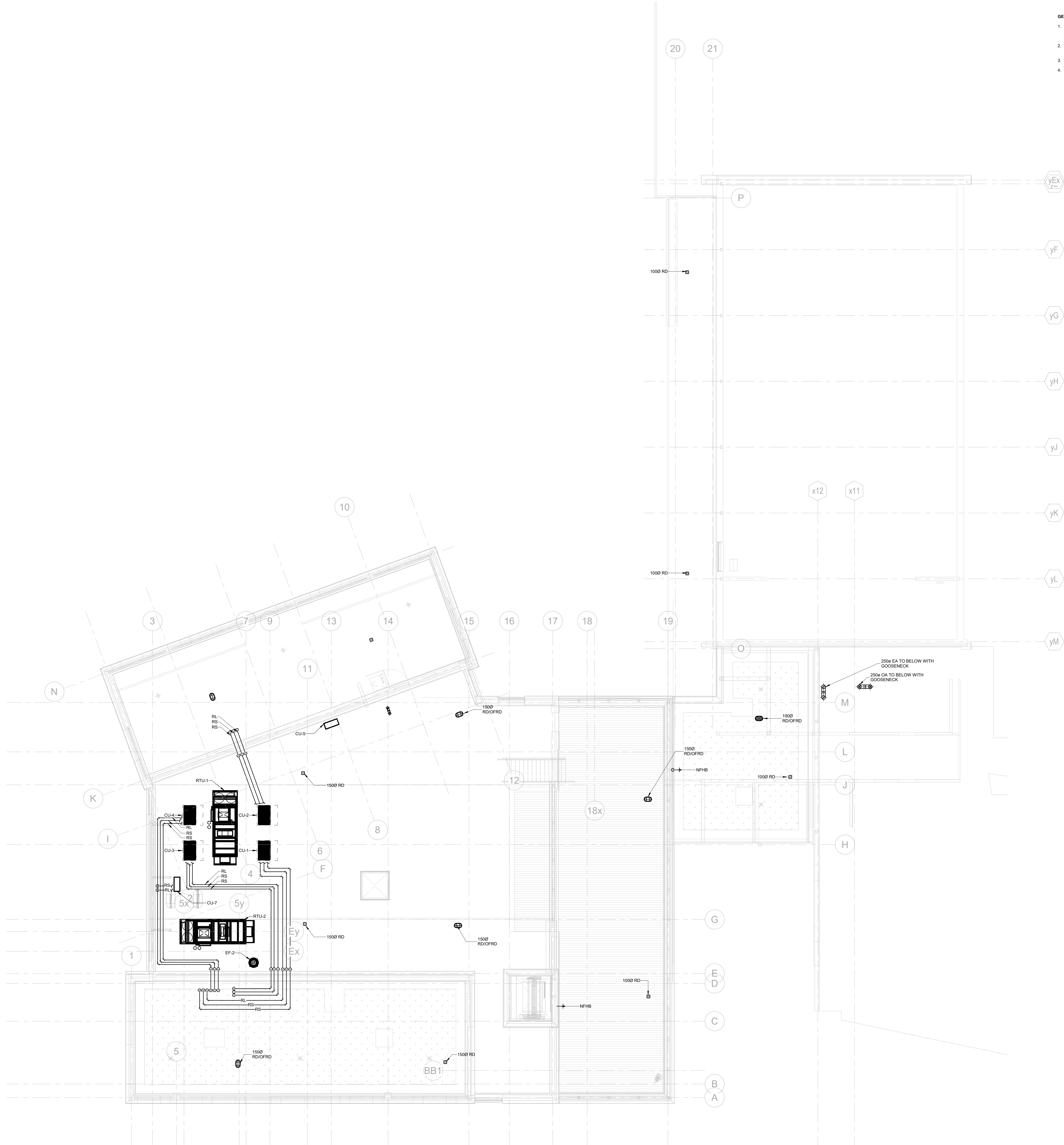
consultants	
architect	CS&P Architects Inc. 2345 Yonge St., Suite 200 Toronto, ON, M4P 2E5 Phone 416.482.5002 Fax 416.482.5040
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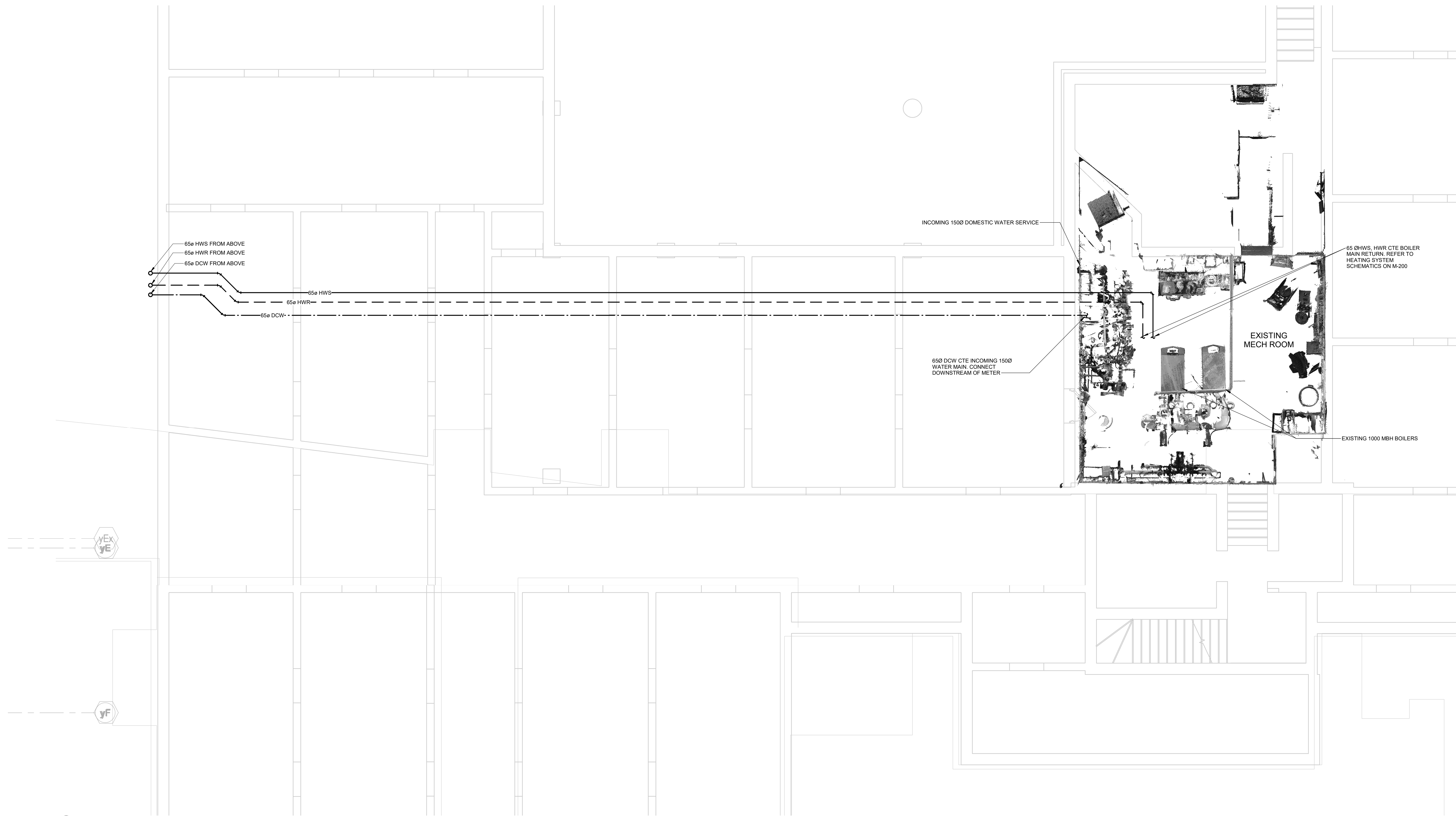


STERLING HALL SCHOOL - PHASE 1
MASTER PLAN ADDITION
99 Cartwright Ave, North York, ON M6A 1V4

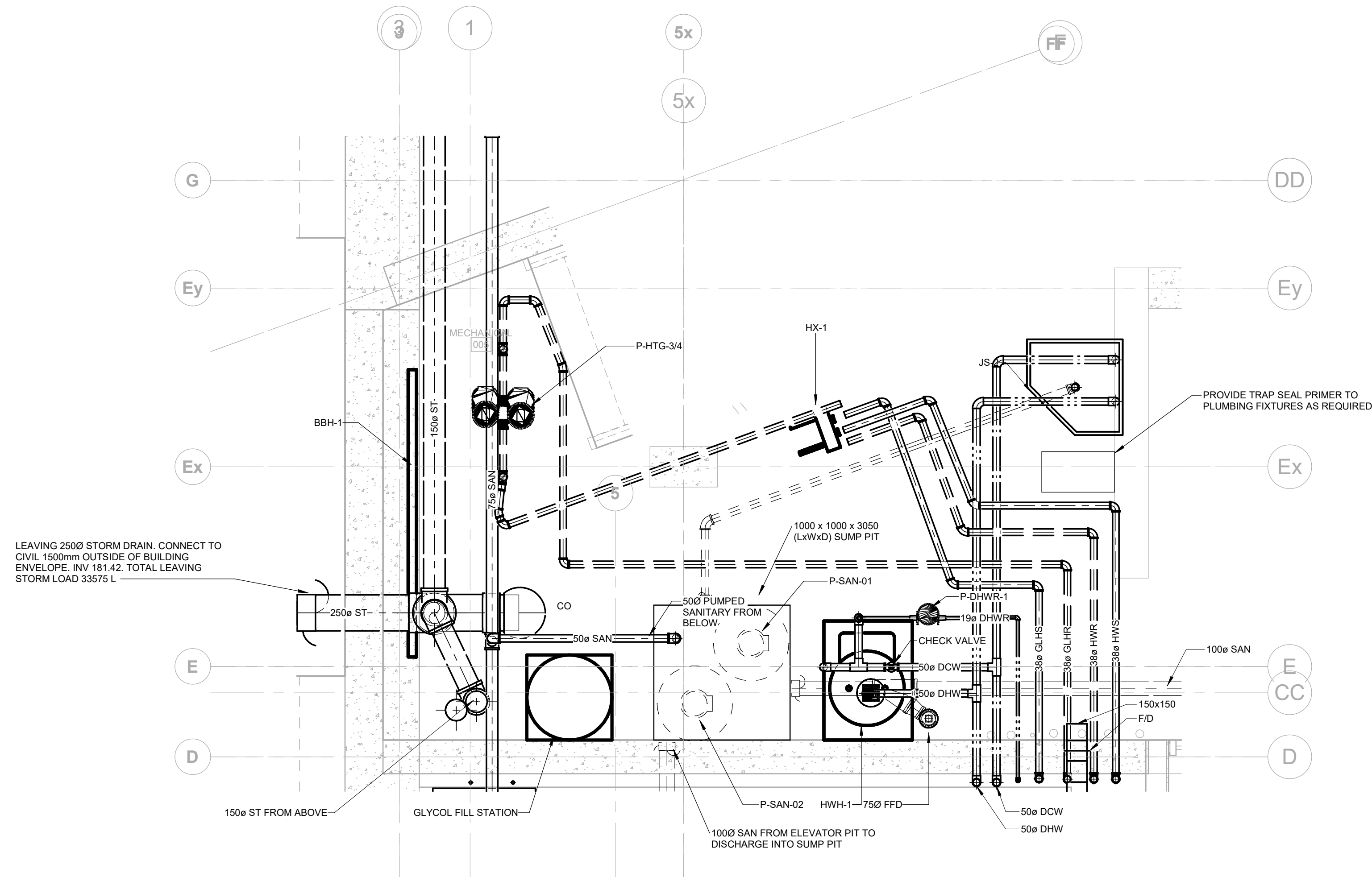
SECOND FLOOR - MECHANICAL PIPING

scale: 1 : 100
date: 2025-12-15
drawn: Author
checked by: Checker
project number: 00036-010.M.001
drawing number: M-502
Revision: 6





2 EXISTING BASEMENT - PART PLAN
M-700 1:50



1 MECHANICAL ROOM 005 - PART PLAN
M-700 1:25



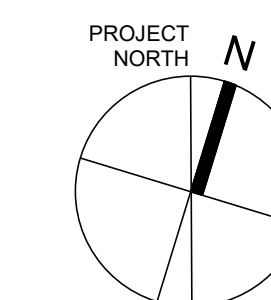
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3	2026-06-15	95% CONSTRUCTION DOCUMENTS
4	2026-07-08	ISSUED FOR TENDER

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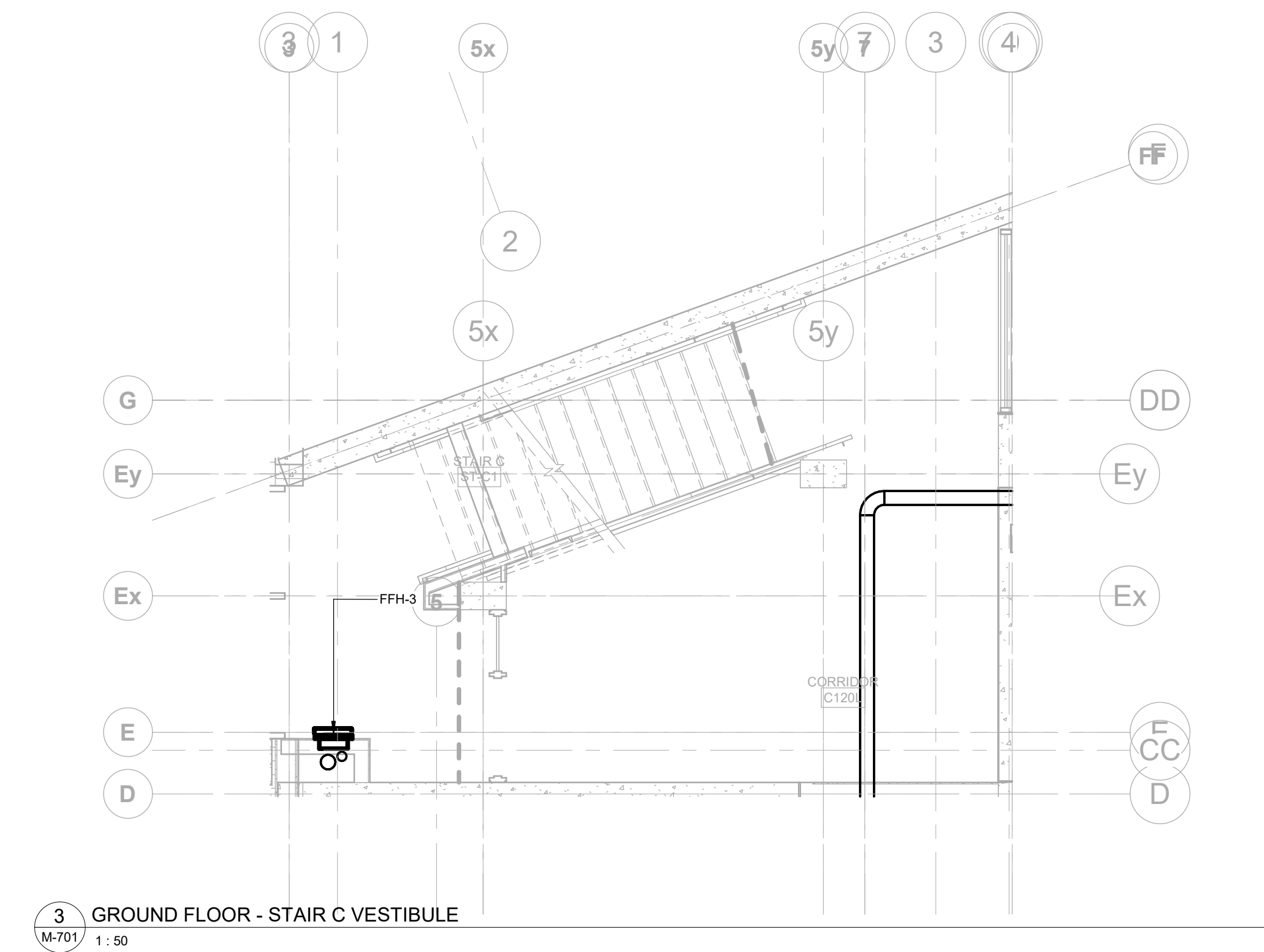


CS&P Architects

STERLING HALL SCHOOL - PHASE 1
MASTER PLAN ADDITION
99 Cartwright Ave., North York, ON M6A 1V4

PART PLANS

scale: As indicated
date: XX/XX/2X
drawn: Author
checked by: Checker
project number: 00036-010.M.001
drawing number: M-700
Revision: 4





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5	2026-07-08	ISSUED FOR TENDER

ROOFTOP UNIT SCHEDULE

TAG	MAKE	MODEL	DESIGN AIRFLOW RATES				ESP	COOLING CAPACITY			ELECTRICAL					SUPPLY FAN MOTOR POWER	EXHAUST FAN MOTOR POWER	UNIT WEIGHT	REMARKS
			SUPPLY	RETURN	OUTDOOR	EXHAUST		TOTAL	SENSIBLE	HEATING CAPACITY	V	Ø	FREQ	MCA	MOP				
RTU-1	Johnson Controls, Inc.	JR C2 CAB	1415.8 L/s	1179.9 L/s	1415.8 L/s	1179.9 L/s	373.3 Pa	40239 W	24442 W	25876 W	575 V	3	60 Hz	49.2 A	50.0 A	2 hp	2 hp	3608.00 lb	DEDICATED OUTDOOR AIR SYSTEM: DX COOLING, HEAT PUMP, HEATING COIL, CW, ENERGY RECOVERY 24" ROOF CURB, MERV 13 FILTER, GFI SERVICE OUTLET, SUPPLY FAN, EXHAUST FAN BACNET COMPATIBLE CONTROLS. REFER TO HEATING COIL SCHEDULE FOR PERFORMANCE.
RTU-2	Johnson Controls, Inc.	JR C2 CAB	1415.8 L/s	1179.9 L/s	1415.8 L/s	1179.9 L/s	373.3 Pa	40239 W	24442 W	25876 W	575 V	3	60 Hz	49.2 A	50.0 A	2 hp	2 hp	3608.00 lb	DEDICATED OUTDOOR AIR SYSTEM: DX COOLING, HEAT PUMP, HEATING COIL, CW, ENERGY RECOVERY 24" ROOF CURB, MERV 13 FILTER, GFI SERVICE OUTLET, SUPPLY FAN, EXHAUST FAN BACNET COMPATIBLE CONTROLS. REFER TO HEATING COIL SCHEDULE FOR PERFORMANCE.

ROOFTOP UNIT ENERGY RECOVERY SCHEDULE

TAG	MAKE	MODEL	OUTDOOR AIR FLOWS		HEATING PERFORMANCE												COOLING PERFORMANCE											
					PRESSURE DROP		OVERALL EFFECTIVENESS %			SUPPLY AIR CHARACTERISTICS (RETURN AIR TEMP @ 72°F)							PRESSURE DROP		OVERALL EFFECTIVENESS %			SUPPLY AIR CHARACTERISTICS (RETURN TEMP @ 75°F)						
			SUPPLY	EXHAUST	SUPPLY	EXHAUST	SENSIBLE	LATENT	TOTAL	DB	WB	RH %	DB	WB	RH %	SUPPLY	EXHAUST	SENSIBLE	LATENT	TOTAL	DB	WB	RH	DB	WB	RH		
RTU-1	Johnson Controls, Inc.	JR C2 CAB	1416 L/s	1179.9 L/s	214.0 Pa	191.6 Pa	63%	66%	72%	-20 °C	-21 °C	60	7 °C	4 °C	68	233.9 Pa	194.1 Pa	70%	66%	68%	35 °C	26 °C	47%	28 °C	21 °C	52%		
RTU-2	Johnson Controls, Inc.	JR C2 CAB	1416 L/s	1179.9 L/s	214.0 Pa	191.6 Pa	63%	66%	72%	-20 °C	-21 °C	60	7 °C	4 °C	68	233.9 Pa	194.1 Pa	70%	66%	68%	35 °C	26 °C	47%	28 °C	21 °C	52%		

ELECTRIC FORCE FLOW HEATER SCHEDULE

TAG	MAKE	MODEL	ELECTRICAL			POWER	UNIT WEIGHT	REMARKS
			V	Ø	FREQ			
FFH-1	Quietel Canada	QACP4008	208 V	1	60 Hz	4000 W	24.00 lb	CEILING MOUNTED ELECTRIC FAN HEATER, RECESSED INSTALLATION, CONFIRM COLOUR AND FINISH WITH ARCHITECT
FFH-2	Quietel Canada	QAWP4408S	208 V	1	60 Hz	4800 W	24.00 lb	WALL MOUNTED ELECTRIC FAN HEATER, RECESSED INSTALLATION, CONFIRM COLOUR AND FINISH WITH ARCHITECT
FFH-3	Quietel Canada	QAWP4008S	208 V	1	60 Hz	2000 W	24.00 lb	WALL MOUNTED ELECTRIC FAN HEATER, RECESSED INSTALLATION, CONFIRM COLOUR AND FINISH WITH ARCHITECT

ROOFTOP UNIT HEATING COIL SCHEDULE

TAG	MAKE	MODEL	HEATING CAPACITY	AIR FLOW RATE	COIL EAT		AIR PRESSURE DROP	HEATING FLUID PROPERTIES					REMARKS
					DB	WB		FLUID TYPE	FLOW RATE	EFT	LFT		
RTU-1	Johnson Controls, Inc.	JR C2 CAB	25876 W	1416 L/s	7 °C	4 °C	24.9 Pa	40% PG	0.58 L/s	52 °C	41 °C	866.7 Pa	HEATING COIL PERFORMANCE FOR RTU-1/2
RTU-2	Johnson Controls, Inc.	JR C2 CAB	25876 W	1416 L/s	7 °C	4 °C	24.9 Pa	40% PG	0.58 L/s	52 °C	41 °C	866.7 Pa	HEATING COIL PERFORMANCE FOR RTU-1/2

REHEAT COIL SCHEDULE

AIR PROPERTIES							HEATING WATER PROPERTIES							
TAG	MAKE	MODEL	HEATING CAPACITY	AIR FLOW RATE	EAT	LAT	AIR PRESSURE DROP	WIDTH	HEIGHT	FLOW RATE	EWT	LWT	PRESSURE DROP	REMARKS
RHC-L1-100-1	TRANE	DSWB21	9126 W	903.3 L/s	21 °C	29 °C	29.6 Pa	0 mm	0 mm	0.20 L/s	54 °C	43 °C	1464.6 Pa	
RHC-L1-100-2	TRANE	DSWB21	9126 W	903.3 L/s	21 °C	29 °C	29.6 Pa	0 mm	0 mm	0.20 L/s	54 °C	43 °C	1464.6 Pa	
RHC-L1-102-3	TRANE	DTB12	1348 W	133.6 L/s	21 °C	29 °C	4.2 Pa	0 mm	0 mm	0.03 L/s	54 °C	43 °C	1165.7 Pa	
RHC-L1-103	TRANE	DTB12	1348 W	133.6 L/s	21 °C	29 °C	4.2 Pa	0 mm	0 mm	0.03 L/s	54 °C	43 °C	1165.7 Pa	
RHC-L1-111	TRANE	DTB12	1348 W	133.6 L/s	21 °C	29 °C	4.2 Pa	0 mm	0 mm	0.03 L/s	54 °C	43 °C	1165.7 Pa	
RHC-L1-120	TRANE	DSB09	3605 W	333.2 L/s	21 °C	29 °C	23.1 Pa	50 mm	0 mm	0.08 L/s	54 °C	43 °C	3108.5 Pa	
RHC-L1-121	TRANE	DSB09	3605 W	333.2 L/s	21 °C	29 °C	23.1 Pa	50 mm	0 mm	0.08 L/s	54 °C	43 °C	3108.5 Pa	
RHC-L1-122	TRANE	DTB12	1348 W	133.6 L/s	21 °C	29 °C	4.2 Pa	0 mm	0 mm	0.03 L/s	54 °C	43 °C	1165.7 Pa	
RHC-L1-127	TRANE	DSB09	3605 W	333.2 L/s	21 °C	29 °C	23.1 Pa	50 mm	0 mm	0.08 L/s	54 °C	43 °C	3108.5 Pa	
RHC-L1-128	TRANE	DSB09	3605 W	333.2 L/s	21 °C	29 °C	23.1 Pa	50 mm	0 mm	0.08 L/s	54 °C	43 °C	3108.5 Pa	
RHC-L1-129	TRANE	DTB069	1917 W	166.6 L/s	21 °C	29 °C	31.4 Pa	0 mm	0 mm	0.04 L/s	54 °C	43 °C	388.6 Pa	
RHC-L1-130	TRANE	DSB09	3605 W	333.2 L/s	21 °C	29 °C	23.1 Pa	50 mm	0 mm	0.08 L/s	54 °C	43 °C	3108.5 Pa	
RHC-L1-C101	TRANE	DSB09	3605 W	333.2 L/s	21 °C	29 °C	23.1 Pa	50 mm	0 mm	0.08 L/s	54 °C	43 °C	3108.5 Pa	
RHC-L1-C102-1	TRANE	DWPB12	2353 W	233.1 L/s	21 °C	29 °C	31.4 Pa	300 mm	300 mm	0.05 L/s	54 °C	43 °C	1046.1 Pa	
RHC-L1-C102-2	TRANE	DWPB12	2353 W	233.1 L/s	21 °C	29 °C	31.4 Pa	300 mm	300 mm	0.05 L/s	54 °C	43 °C	1046.1 Pa	
RHC-L1-C102-3	TRANE	DWPB12	2353 W	233.1 L/s	21 °C	29 °C	31.4 Pa	300 mm	300 mm	0.05 L/s	54 °C	43 °C	1046.1 Pa	
RHC-L1-C102-4	TRANE	DTB069	1917 W	166.6 L/s	21 °C	29 °C	31.4 Pa	0 mm	0 mm	0.04 L/s	54 °C	43 °C	388.6 Pa	
RHC-L1-C102-5	TRANE	DWPB12	2353 W	233.1 L/s	21 °C	29 °C	31.4 Pa	300 mm	300 mm	0.05 L/s	54 °C	43 °C	1046.1 Pa	
RHC-L1-C102-6	TRANE	DWPB12	2353 W	233.1 L/s	21 °C	29 °C	31.4 Pa	300 mm	300 mm	0.05 L/s	54 °C	43 °C	1046.1 Pa	
RHC-L1-C102-7	TRANE	DWPB12	2353 W	233.1 L/s	21 °C	29 °C	31.4 Pa	300 mm	300 mm	0.05 L/s	54 °C	43 °C	1046.1 Pa	
RHC-L1-C102-8	TRANE	DWPB12	2353 W	233.1 L/s	21 °C	29 °C	31.4 Pa	300 mm	300 mm	0.05 L/s	54 °C	43 °C	1046.1 Pa	
RHC-L1-C102-9	TRANE	DWPB12	2353 W	233.1 L/s	21 °C	29 °C	31.4 Pa	300 mm	300 mm	0.05 L/s	54 °C	43 °C	1046.1 Pa	
RHC-L1-C102-10	TRANE	DWPB12	2353 W	233.1 L/s	21 °C	29 °C	31.4 Pa	300 mm	300 mm	0.05 L/s	54 °C	43 °C	1046.1 Pa	
RHC-L1-C102-11	TRANE	DWPB12	2353 W	233.1 L/s	21 °C	29 °C	31.4 Pa	300 mm	300 mm	0.05 L/s	54 °C	43 °C	1046.1 Pa	
RHC-L1-C102-12	TRANE	DWPB12	2353 W	233.1 L/s	21 °C	29 °C	31.4 Pa	300 mm	300 mm	0.05 L/s	54 °C	43 °C	1046.1 Pa	
RHC-L1-C102-13	TRANE	DWPB12	2353 W	233.1 L/s	21 °C	29 °C	31.4 Pa	300 mm	300 mm	0.05 L/s	54 °C	43 °C	1046.1 Pa	
RHC-L1-C102-14	TRANE	DWPB12	2353 W	233.1 L/s	21 °C	29 °C	31.4 Pa	300 mm	300 mm	0.05 L/s	54 °C	43 °C	1046.1 Pa	
RHC-L1-C102-15	TRANE	DWPB12	2353 W	233.1 L/s	21 °C	29 °C	31.4 Pa	300 mm	300 mm	0.05 L/s	54 °C	43 °C	1046.1 Pa	
RHC-L1-C102-16	TRANE	DWPB12	2353 W	233.1 L/s	21 °C	29 °C	31.4 Pa	300 mm	300 mm	0.05 L/s	54 °C	43 °C	1046.1 Pa	
RHC-L1-C102-17	TRANE	DWPB12	2353 W	233.1 L/s	21 °C	29 °C	31.4 Pa	300 mm	300 mm	0.05 L/s	54 °C	43 °C	1046.1 Pa	
RHC-L1-C102-18	TRANE	DWPB12	2353 W	233.1 L/s	21 °C	29 °C	31.4 Pa	300 mm	300 mm	0.05 L/s	54 °C	43 °C	1046.1 Pa	
RHC-L1-C102-19	TRANE	DWPB12	2353 W	233.1 L/s	21 °C	29 °C	31.4 Pa	300 mm	300 mm	0.05 L/s	54 °C	43 °C	1046.1 Pa	
RHC-L1-C102-20	TRANE	DWPB12	2353 W	233.1 L/s	21 °C	29 °C	31.4 Pa	300 mm	300 mm	0.05 L/s	54 °C	43 °C	1046.1 Pa	
RHC-L1-C102-21	TRANE	DWPB12	2353 W	233.1 L/s	21 °C	29 °C	31.4 Pa	300 mm	300 mm	0.05 L/s	54 °C	43 °C	1046.1 Pa	
RHC-L1-C102-22	TRANE	DWPB12	2353 W	233.1 L/s	21 °C	29 °C	31.4 Pa	300 mm	300 mm	0.05 L/s	54 °C	43 °C	1046.1 Pa	
RHC-L1-C102-23	TRANE	DWPB12	2353 W	233.1 L/s	21 °C	29 °C	31.4 Pa	300 mm	300 mm	0.05 L/s	54 °C	43 °C	1046.1 Pa	
RHC-L1-C102-24	TRANE	DWPB12	2353 W	233.1 L/s	21 °C	29 °C	31.4 Pa	300 mm	300 mm	0.05 L/s	54 °C	43 °C	1046.1 Pa	
RHC-L1-C102-25	TRANE	DWPB12	2353 W	233.1 L/s	21 °C	29 °C	31.4 Pa	300 mm	300 mm	0.05 L/s	54 °C	43 °C	1046.1 Pa	
RHC-L1-C102-26	TRANE	DWPB12	2353 W	233.1 L/s	21 °C	29 °C	31.4 Pa	300 mm	300 mm	0.05 L/s	54 °C	43 °C	1046.1 Pa	
RHC-L1-C102-27	TRANE	DWPB12	2353 W	233.1 L/s	21 °C	29 °C	31.4 Pa	300 mm	300 mm	0.05 L/s	54 °C	43 °C	1046.1 Pa	
RHC-L1-C102-28	TRANE	DWPB12	2353 W	233.1 L/s	21 °C	29 °C	31.4 Pa	300 mm	300 mm	0.05 L/s	54 °C	43 °C	1046.1 Pa	
RHC-L1-C102-29	TRANE	DWPB12	2353 W	233.1 L/s	21 °C	29 °C	31.4 Pa	300 mm	300 mm	0.05 L/s	54 °C	43 °C	1046.1 Pa	
RHC-L1-C102-30	TRANE	DWPB12	2353 W	233.1 L/s	21 °C	29 °C	31.4 Pa	300 mm	300 mm	0.05 L/s	54 °C	43 °C	1046.1 Pa	
RHC-L1-C102-31	TRANE	DWPB12	2353 W	233.1 L/s	21 °C	29 °C	31.4 Pa	300 mm	300 mm	0.05 L/s	54 °C	43 °C	1046.1 Pa	
RHC-L1-C102-32	TRANE	DWPB12	2353 W	233.1 L/s	21 °C	29 °C	31.4 Pa	300 mm	300 mm	0.05 L/s	54 °C	43 °C	1046.1 Pa	
RHC-L1-C102-33	TRANE	DWPB12	2353 W	233.1 L/s	21 °C	29 °C	31.4 Pa	300 mm	300 mm	0.05 L/s	54 °C	43 °C	1046.1 Pa	
RHC-L1-C102-34	TRANE	DWPB12	2353 W	233.1 L/s	21 °C	29 °C	31.4 Pa	300 mm	300 mm	0.05 L/s	54 °C	43 °C	1046.1 Pa	
RHC-L1-C102-35	TRANE	DWPB12	2353 W	233.1 L/s	21 °C	29 °C	31.4 Pa	300 mm	300 mm	0.05 L/s	54 °C	43 °C	1046.1 Pa	
RHC-L1-C102-36	TRANE	DWPB12	2353 W	233.1 L/s	21 °C	29 °C	31.4 Pa	300 mm	300 mm	0.05 L/s	54 °C	43 °C	1046.1 Pa	
RHC-L1-C102-37	TRANE	DWPB12	2353 W	233.1 L/s	21 °C	29 °C	31.4 Pa	300 mm	300 mm	0.05 L/s	54 °C	43 °C	1046.1 Pa	
RHC-L1-C102-38	TRANE	DWPB12	2353 W	233.1 L/s	21 °C	29 °C	31.4 Pa	300 mm	300 mm	0.05 L/s	54 °C	43 °C	1046.1 Pa	
RHC-L1-C102-39	TRANE	DWPB12	2353 W	233.1 L/s	21 °C	29 °C	31.4 Pa	300 mm	300 mm	0.05 L/s	54 °C	43 °C	1046.1 Pa	
RHC-L1-C102-40	TRANE	DWPB12	2353 W	233.1 L/s	21 °C	29 °C	31.4 Pa	300 mm	300 mm	0.05 L/s	54 °C	43 °C	1046.1 Pa	
RHC-L1-C102-41	TRANE	DWPB12	2353 W	233.1 L/s	21 °C	29 °C	31.4 Pa	300 mm	300 mm	0.05 L/s	54 °C	43 °C	1046.1 Pa	
RHC-L1-C102-42	TRANE	DWPB12	2353 W	233.1 L/s	21 °C	29 °C	31.4 Pa	300 mm	300 mm	0.05 L/s	54 °C	43 °C	1046.1 Pa	
RHC-L1-C102-43	TRANE	DWPB12	2353 W	233.1 L/s	21 °C	29 °C	31.4 Pa	300 mm	300 mm	0.05 L/s	54 °C	43 °C	1046.1 Pa	
RHC-L1-C102-44	TRANE	DWPB12	2353 W	233.1 L/s	21 °C	29 °C	31.4 Pa	300 mm	300 mm	0.05 L/s	54 °C	43 °C	1046.1 Pa	
RHC-L1-C102-45	TRANE	DWPB12	2353 W	233.1 L/s	21 °C	29 °C	31.4 Pa	300 mm	300 mm	0.05 L/s	54 °C	43 °C	1046.1 Pa	
RHC-L1-C102-46	TRANE	DWPB12	2353 W	233.1 L/s	21 °C	29 °C	31.4 Pa	300 mm	300 mm	0.05 L/s	54 °C	43 °C	1046.1 Pa	
RHC-L1-C102-47	TRANE	DWPB12	2353 W	233.1 L/s	21 °C	29 °C	31.4 Pa	300 mm	300 mm	0.05 L/s	54 °C	43 °C	1046.1 Pa	
RHC-L1-C102-48	TRANE	DWPB12	2353 W	233.1 L/s	21 °C	29 °C	31.4 Pa	300 mm	300 mm	0.05 L/s	54 °C	43 °C	1046.1 Pa	
RHC-L1-C102-49	TRANE	DWPB12	2353 W	233.1 L/s	21 °C	29 °C	31.4 Pa	300 mm	300 mm	0.05 L/s	54 °C	43 °C	1046.1 Pa	
RHC-L1-C102-50	TRANE	DWPB12	2353 W	233.1 L/s	21 °C	29 °C	31.4 Pa	300 mm	300 mm	0.05 L/s	54 °C	43 °C	1046.1 Pa	
RHC-L1-C102-51	TRANE	DWPB12	2353 W	233.1 L/s	21 °C	29 °C	31.4 Pa	300 mm	300 mm	0.05 L/s	54 °C	43 °C	1046.1 Pa	
RHC-L1-C102-52	TRANE	DWPB12	2353 W	233.1 L/s	21 °C	29 °C	31.4 Pa	300 mm	300 mm	0.05 L/s	54 °C	43 °C	1046.1 Pa	
RHC-L1-C102-53	TRANE	DWPB12	2353 W	233.1 L/s	21 °C	29 °C	31.4 Pa	300 mm	300 mm	0.05 L/s	54 °C	43 °C	1046.1 Pa	
RHC-L1-C102-54	TRANE	DWPB12	2353 W	233.1 L/s	21 °C	29 °C	31.4 Pa	300 mm	300 mm	0.05 L/s	54 °C	43 °C	1046.1 Pa	
RHC-L1-C102-55	TRANE	DWPB12	2353 W	233.1 L/s	21 °C	29 °C	31.4 Pa	300 mm	300 mm	0.05 L/s	54 °C	43 °C	1046.1 Pa	
RHC-L1-C102-56	TRANE	DWPB12	2353 W	233.1 L/s	21 °C	29 °C	31.4 Pa	300 mm	300 mm	0.05 L/s	54 °C	43 °C	1046.1 Pa	
RHC-L1-C102-57	TRANE	DWPB12	2353 W	233.1 L/s	21 °C	29 °C	31.4 Pa	300 mm	300 mm	0.05 L/s	54 °C	43 °C	1046.1 Pa	
RHC-L1-C102-58	TRANE	DWPB12	2353 W	233.1 L/s	21 °C	29 °C	31.4 Pa	300 mm	300 mm	0.05 L/s	54 °C	43 °C	1046.1 Pa	
RHC-L1-C102-59	TRANE	DWPB12	2353 W	233.1 L/s	21 °C	29 °C	31.4 Pa	300 mm	300 mm	0.05 L/s	54 °C	43 °C	1046.1 Pa	
RHC-L1-C102-60	TRANE	DWPB12	2353 W	233.1 L/s	21 °C	29 °C	31.4 Pa	300 mm	300 mm	0.05 L/s	54 °C	43 °C	1046.1 Pa	
RHC-L1-C102-61	TRANE	DWPB12	2353 W	233.1 L/s	21 °C	29 °C	31.4 Pa	300 mm	300 mm	0.05 L/s	54 °C	43 °C	1046.1 Pa	
RHC-L1-C102-62	TRANE	DWPB12	2353 W	233.1 L/s	21 °C	29 °C	31.4 Pa	300 mm	300 mm	0.05 L/s	54 °C	43 °C	1046.1 Pa	
RHC-L1-C102-63	TRANE	DWPB12	2353 W	233.1 L/s	21 °C	29 °C	31.4 Pa	300 mm	300 mm	0.05 L/s	54 °C	43 °C	1046.1 Pa	
RHC-L1-C102-64	TRANE	DWPB12	2353 W	233.1 L/s	21 °C	29 °C	31.4 Pa	300 mm	300 mm	0.05 L/s	54 °C	43 °C	1046.1 Pa	
RHC-L1-C102-65	TRANE	DWPB12	2353 W	233.1 L/s	21 °C	29 °C	31.4 Pa	300 mm	300 mm	0.05 L/s	54 °C	43 °C	1046.1 Pa	
RHC-L1-C102-66	TRANE	DWPB12	2353 W	233.1 L/s	21 °C	29 °C	31.4 Pa	300 mm	300 mm	0.05 L/s	54 °C	43 °C	1046.1 Pa	
RHC-L1-C102-67	TRANE	DWPB12	2353 W	233.1 L/s	21 °C	29 °C	31.4 Pa	300 mm	300 mm	0.05 L/s	54 °C	43 °C	1046.1 Pa	
RHC-L1-C102-68	TRANE	DWPB12	2353 W	233.1 L/s	21 °C	29 °C	31.4 Pa	300 mm	300 mm	0.05 L/s	54 °C	43 °C	1046.1 Pa	
RHC-L1-C102-69	TRANE	DWPB12	2353 W	233.1 L/s	21 °C	29 °C	31.4 Pa	300 mm	300 mm	0.05 L/s	54 °C	43 °C	1046.1 Pa	
RHC-L1-C102-70	TRANE	DWPB12	2353 W	233.1 L/s	21 °C	29 °C	31.4 Pa	300 mm	300 mm	0.05 L/s	54 °C	43 °C	1046.1 Pa	
RHC-L1-C102-71	TRANE	DWPB12	2353 W	233.1 L/s	2									